

# YP Series

Helical geared motors

Helisel Dişlili Redüktörler



**I.Mak®**

REDÜKTÖR VARYATÖR / GEARBOX & VARIATOR

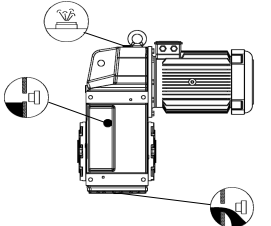
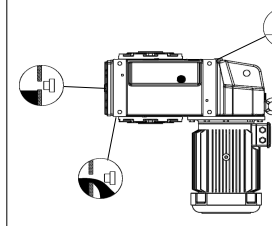
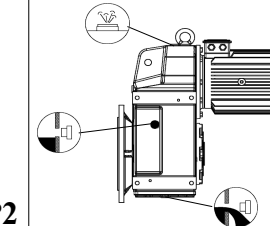
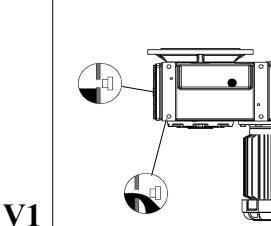
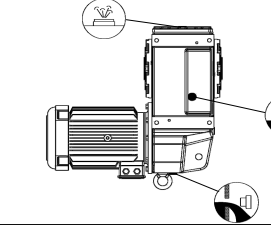
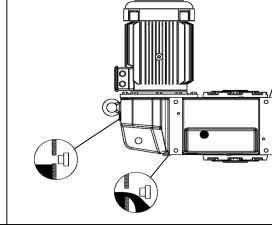
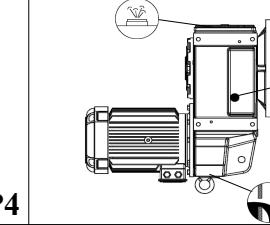
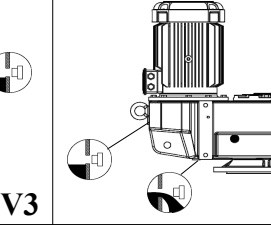
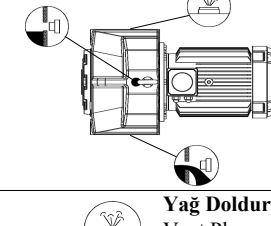
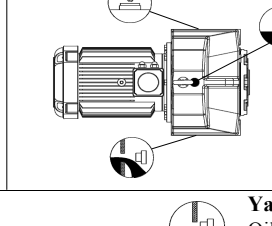
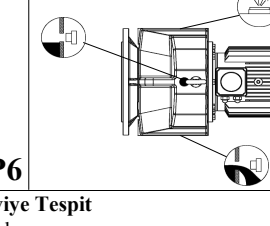
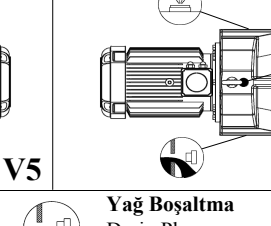


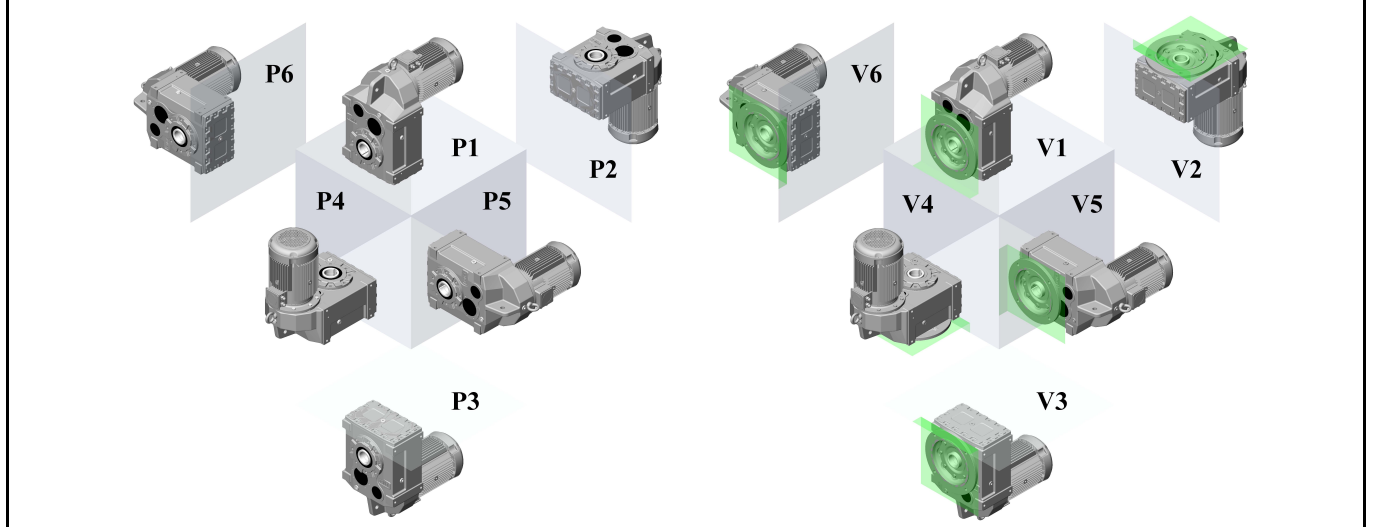
**Yağ Tablosu**

**Lubricant Table**

**Schmiere Tabelle**

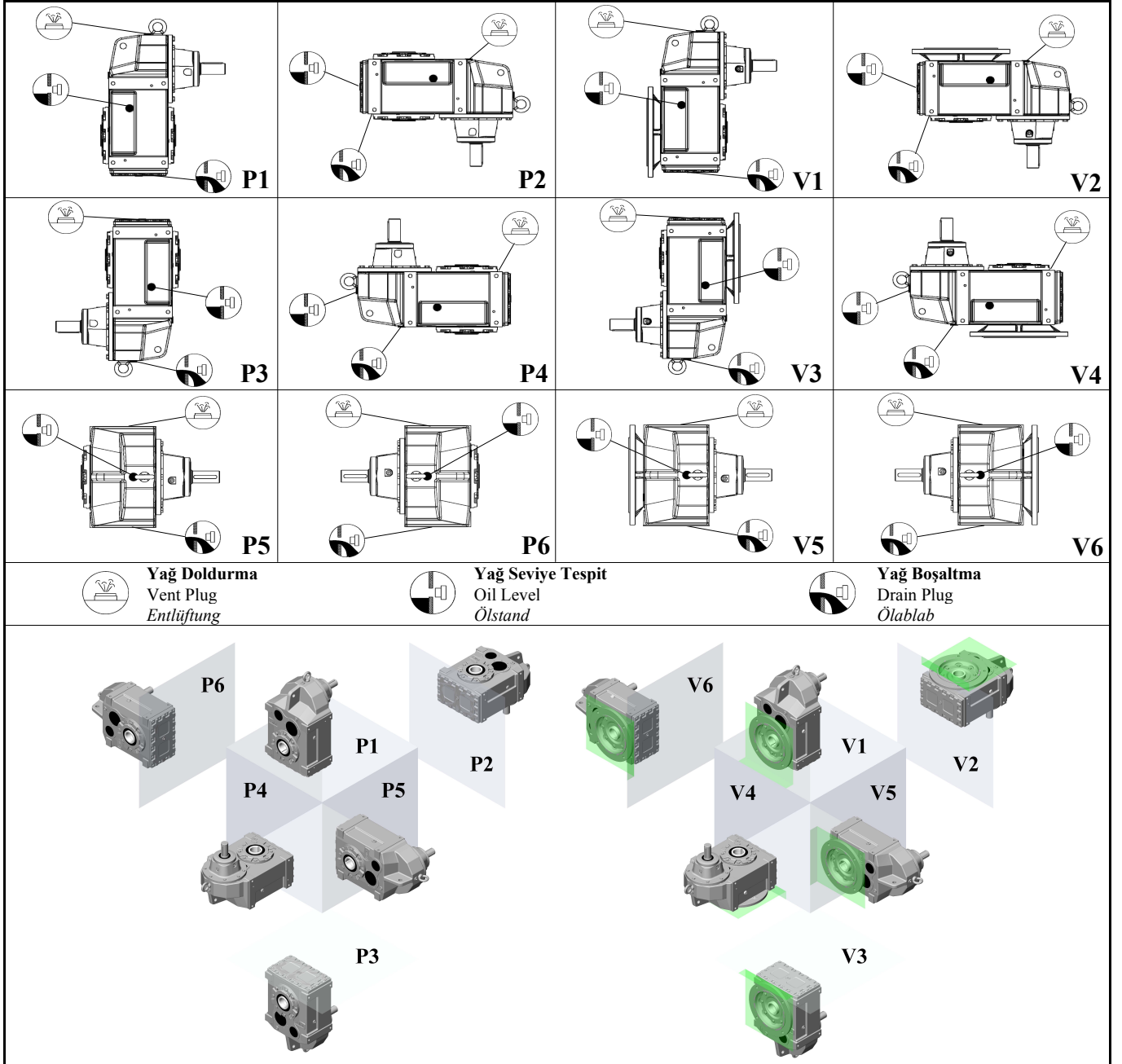
| Yağ Cinsi<br>Lubricant<br>Art des<br>Schmierstoffes    | ISO<br>Viskozite Sınıfı<br>Viscosity Class<br>Viskozitäts Klasse | DIN<br>51517-3 | Kullanım Sıcaklığı<br>Usage Temperature<br>Gebrauchs<br>Temperatur | Firma<br>Firm<br>Firma |                 |                     |                 |                    |                         |                   |
|--------------------------------------------------------|------------------------------------------------------------------|----------------|--------------------------------------------------------------------|------------------------|-----------------|---------------------|-----------------|--------------------|-------------------------|-------------------|
|                                                        |                                                                  |                |                                                                    | Mobil                  | ARAL            | bp                  | Shell           | Castrol            | KLÜBER<br>LUBRICATION   | Esso              |
| <b>Mineral Yağ</b><br>Mineral Oil<br>Minerallöl        | ISO VG 320                                                       | CLP            | 0.....+100                                                         | Mobilgear<br>XMP 320   | Degol<br>BG 320 | Energol<br>GR-XP320 | Omala<br>F320   | Alpha<br>SP 320    | GEM 1<br>320 N          | Spartan<br>EP 320 |
|                                                        | ISO VG 220                                                       | CLP            | -5.....+100                                                        | Mobilgear<br>XMP 220   | Degol<br>BG 220 | Energol<br>GR-XP220 | Omala<br>F220   | Alpha<br>SP 220    | GEM 1<br>220 N          | Spartan<br>EP 220 |
|                                                        | ISO VG 150                                                       | CLP            | -5.....+100                                                        | Mobilgear<br>XMP 150   | Degol<br>BG 150 | Energol<br>GR-XP150 | Omala<br>150    | Alpha<br>SP 150    | GEM 1<br>150 N          | Spartan<br>EP 150 |
|                                                        | ISO VG 100                                                       | CLP            | -5.....+100                                                        | -                      | Degol<br>BG 100 | Energol<br>GR-XP100 | Omala<br>100    | Alpha<br>SP 100    | GEM 1<br>100 N          | Spartan<br>EP 100 |
| <b>Sentetik Yağ</b><br>Synthetic Oil<br>Synthetisch Öl | ISO VG 320                                                       | CLP PG         | -25.....+140                                                       | Gylgoyle<br>320        | Degol<br>GS 320 | Enersyn<br>SG-XP320 | Tivela<br>S 320 | Alphasyn<br>PG 320 | Klübersynth<br>GH 6-320 | Glycolube<br>320  |
|                                                        | ISO VG 220                                                       | CLP PG         | -25.....+140                                                       | -                      | Degol<br>GS 220 | Enersyn<br>SG-XP220 | Tivela<br>S 220 | Alphasyn<br>PG 220 | Klübersynth<br>GH 6-220 | -                 |
|                                                        | ISO VG 150                                                       | CLP PG         | -30.....+140                                                       | -                      | Degol<br>GS 150 | Enersyn<br>SG-XP150 | Tivela<br>S 150 | Alphasyn<br>PG 150 | Klübersynth<br>GH 6-150 | -                 |
|                                                        | ISO VG 100                                                       | CLP PG         | -30.....+140                                                       | -                      | -               | -                   | -               | -                  | Klübersynth<br>GH 6-100 | -                 |

|                                                                                                                                  |                                                                                                                                    |                                                                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                 |                                                   |                                                |  |
|                                                 |                                                   |                                                |  |
|                                                 |                                                   |                                                |  |
|  <b>Yağ Doldurma</b><br>Vent Plug<br>Entlüftung |  <b>Yağ Seviye Tespit</b><br>Oil Level<br>Ölstand |  <b>Yağ Boşaltma</b><br>Drain Plug<br>Ötöblab |                                                                                     |



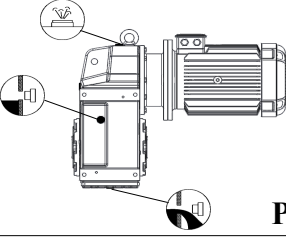
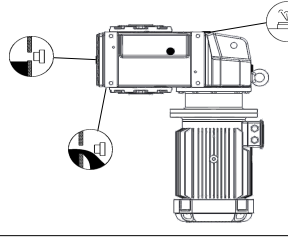
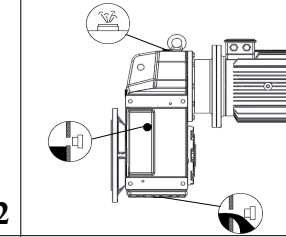
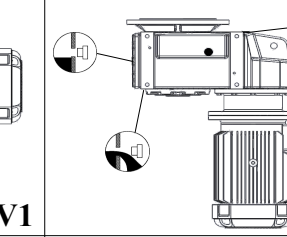
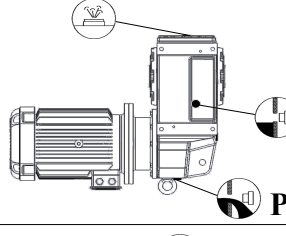
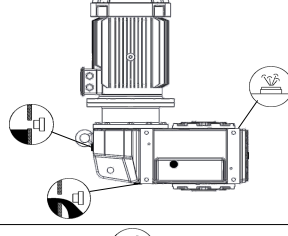
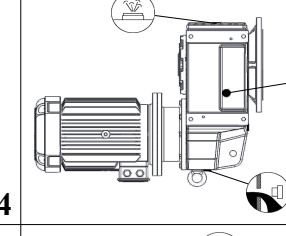
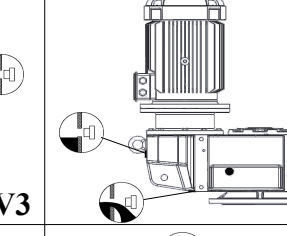
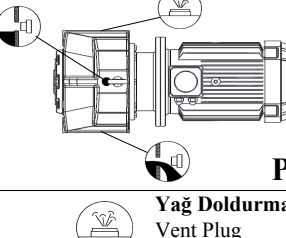
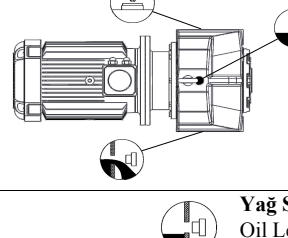
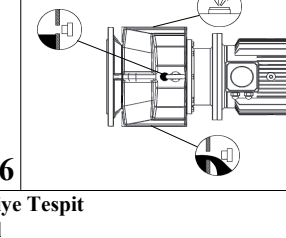
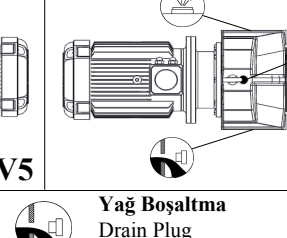
| TİP<br>Type<br>Typ | Bağlantı Pozisyonları için Yağ Miktarları ( litre )<br>Oil Quantities for Mounting Positions ( liter )<br>Ölmengen Tabellen für Bauformen ( liter ) |    |    |           |    |    |           |    |    |    |           |    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----------|----|----|-----------|----|----|----|-----------|----|
|                    | P1                                                                                                                                                  | V1 | P5 | P6        | V5 | V6 | P3        | V3 | P4 | P2 | V4        | V2 |
| YP_M<br>52 / 53    | 1,1 / 0,9                                                                                                                                           |    |    | 1,1 / 0,9 |    |    | 0,9 / 0,7 |    |    |    | 1,4 / 1,2 |    |
| YP_M<br>62 / 63    | 1,6 / 1,4                                                                                                                                           |    |    | 1,6 / 1,4 |    |    | 1,2 / 1   |    |    |    | 1,9 / 1,7 |    |
| YP_M<br>72 / 73    | 3 / 2,7                                                                                                                                             |    |    | 4,1 / 3,8 |    |    | 3,2 / 2,9 |    |    |    | 4,1 / 3,8 |    |
| YP_M<br>82 / 83    | 6,3 / 5,9                                                                                                                                           |    |    | 6,4 / 6   |    |    | 4,7 / 4,3 |    |    |    | 7,7 / 7,3 |    |
| YP_M<br>92 / 93    | 13 / 11                                                                                                                                             |    |    | 14 / 11   |    |    | 11 / 8    |    |    |    | 16 / 13   |    |
| YP_M<br>102 / 103  | 20 / 17                                                                                                                                             |    |    | 18 / 15   |    |    | 20 / 17   |    |    |    | 24 / 21   |    |
| YP_M<br>122 / 123  | 27 / 24                                                                                                                                             |    |    | 30 / 27   |    |    | 24 / 21   |    |    |    | 35 / 32   |    |

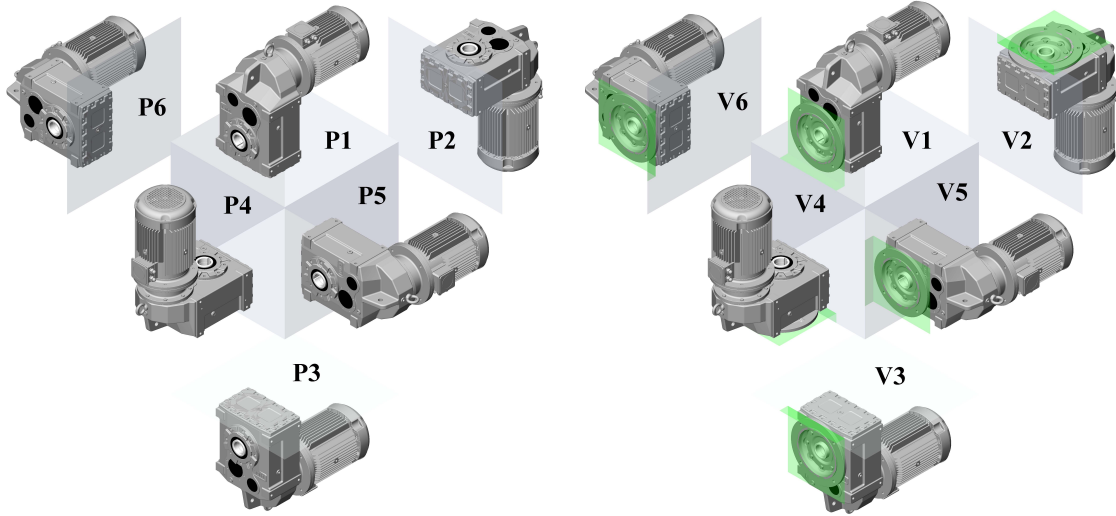




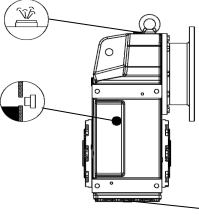
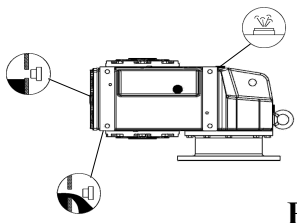
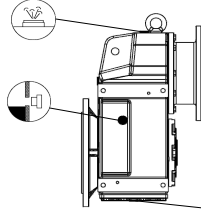
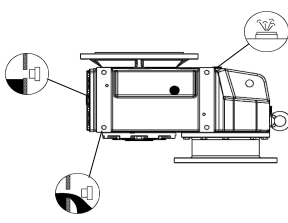
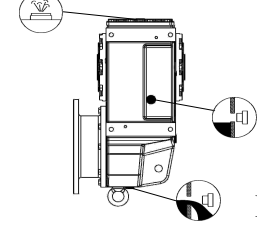
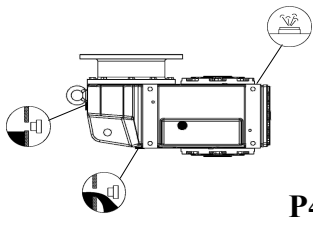
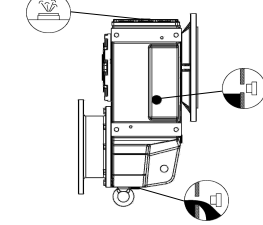
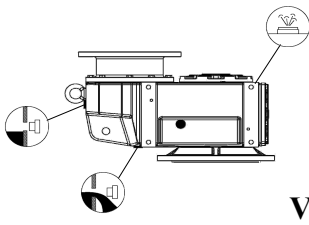
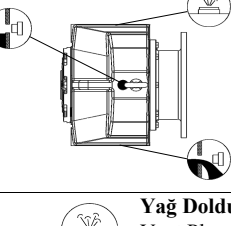
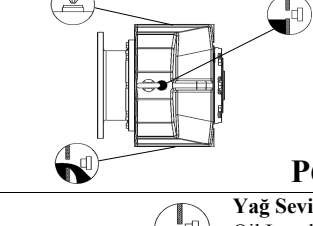
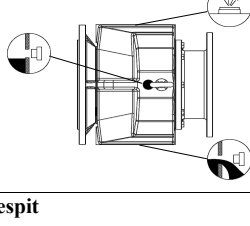
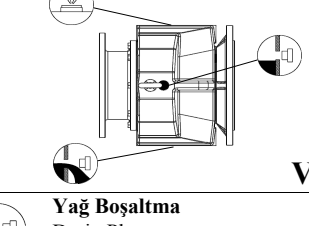
| TİP<br>Type<br>Typ | Bağlantı Pozisyonları için Yağ Miktarları ( litre )<br>Oil Quantities for Mounting Positions ( liter )<br>Ölmengen Tabellen für Bauformen ( liter ) |    |    |           |    |    |           |    |    |    |           |    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----------|----|----|-----------|----|----|----|-----------|----|
|                    | P1                                                                                                                                                  | V1 | P5 | P6        | V5 | V6 | P3        | V3 | P4 | P2 | V4        | V2 |
| YP_52 / 53         | 1,1 / 0,9                                                                                                                                           |    |    | 1,1 / 0,9 |    |    | 0,9 / 0,7 |    |    |    | 1,4 / 1,2 |    |
| YP_62 / 63         | 1,6 / 1,4                                                                                                                                           |    |    | 1,6 / 1,4 |    |    | 1,2 / 1   |    |    |    | 1,9 / 1,7 |    |
| YP_72 / 73         | 3 / 2,7                                                                                                                                             |    |    | 4,1 / 3,8 |    |    | 3,2 / 2,9 |    |    |    | 4,1 / 3,8 |    |
| YP_82 / 83         | 6,3 / 5,9                                                                                                                                           |    |    | 6,4 / 6   |    |    | 4,7 / 4,3 |    |    |    | 7,7 / 7,3 |    |
| YP_92 / 93         | 13 / 11                                                                                                                                             |    |    | 14 / 11   |    |    | 11 / 8    |    |    |    | 16 / 13   |    |
| YP_102 / 103       | 20 / 17                                                                                                                                             |    |    | 18 / 15   |    |    | 20 / 17   |    |    |    | 24 / 21   |    |
| YP_122 / 123       | 27 / 24                                                                                                                                             |    |    | 30 / 27   |    |    | 24 / 21   |    |    |    | 35 / 32   |    |

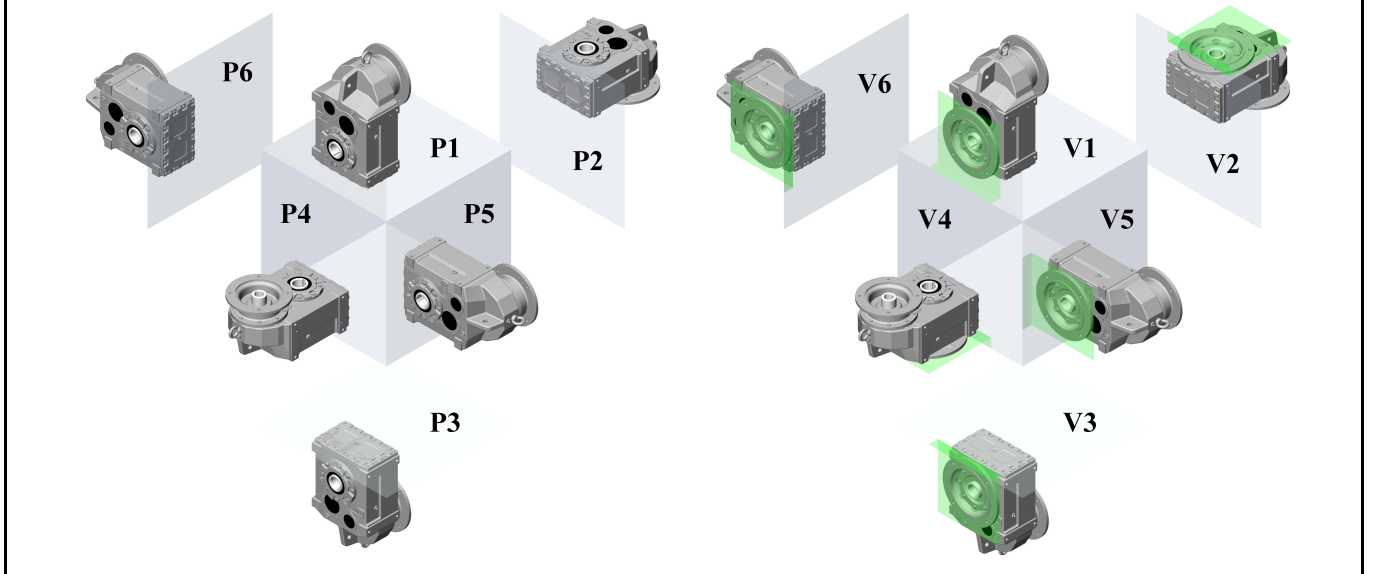


|                                                                                                                                  |                                                                                                                                    |                                                                                                                                  |                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <br><b>P1</b>                                   | <br><b>P2</b>                                     | <br><b>V1</b>                                  | <br><b>V2</b> |
| <br><b>P3</b>                                   | <br><b>P4</b>                                     | <br><b>V3</b>                                  | <br><b>V4</b> |
| <br><b>P5</b>                                   | <br><b>P6</b>                                     | <br><b>V5</b>                                  | <br><b>V6</b> |
|  <b>Yağ Doldurma</b><br>Vent Plug<br>Entlüftung |  <b>Yağ Seviye Tespit</b><br>Oil Level<br>Ölstand |  <b>Yağ Boşaltma</b><br>Drain Plug<br>Ölablab |                                                                                                  |



| TİP<br>Type<br>Typ | Bağlantı Pozisyonları için Yağ Miktarları ( litre )<br>Oil Quantities for Mounting Positions ( liter )<br>Ölmengen Tabellen für Bauformen ( liter ) |    |    |           |    |    |           |    |    |           |    |    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----------|----|----|-----------|----|----|-----------|----|----|
|                    | P1                                                                                                                                                  | V1 | P5 | P6        | V5 | V6 | P3        | V3 | P4 | P2        | V4 | V2 |
| YP_PM<br>52 / 53   | 1,1 / 0,9                                                                                                                                           |    |    | 1,1 / 0,9 |    |    | 0,9 / 0,7 |    |    | 1,4 / 1,2 |    |    |
| YP_PM<br>62 / 63   | 1,6 / 1,4                                                                                                                                           |    |    | 1,6 / 1,4 |    |    | 1,2 / 1   |    |    | 1,9 / 1,7 |    |    |
| YP_PM<br>72 / 73   | 3 / 2,7                                                                                                                                             |    |    | 4,1 / 3,8 |    |    | 3,2 / 2,9 |    |    | 4,1 / 3,8 |    |    |
| YP_PM<br>82 / 83   | 6,3 / 5,9                                                                                                                                           |    |    | 6,4 / 6   |    |    | 4,7 / 4,3 |    |    | 7,7 / 7,3 |    |    |
| YP_PM<br>92 / 93   | 13 / 11                                                                                                                                             |    |    | 14 / 11   |    |    | 11 / 8    |    |    | 16 / 13   |    |    |
| YP_PM<br>102 / 103 | 20 / 17                                                                                                                                             |    |    | 18 / 15   |    |    | 20 / 17   |    |    | 24 / 21   |    |    |
| YP_PM<br>122 / 123 | 27 / 24                                                                                                                                             |    |    | 30 / 27   |    |    | 24 / 21   |    |    | 35 / 32   |    |    |

|                                                                                                                                           |                                                                                             |                                                                                                                                             |                                                                                               |                                                                                                                                           |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|
|  <p>P1</p>                                               |  <p>P2</p> |  <p>V1</p>                                                |  <p>V2</p> |                                                                                                                                           |  |
|  <p>P3</p>                                               |  <p>P4</p> |  <p>V3</p>                                                |  <p>V4</p> |                                                                                                                                           |  |
|  <p>P5</p>                                               |  <p>P6</p> |  <p>V5</p>                                                |  <p>V6</p> |                                                                                                                                           |  |
|  <p><b>Yağ Doldurma</b><br/>Vent Plug<br/>Entlüftung</p> |                                                                                             |  <p><b>Yağ Seviye Tespit</b><br/>Oil Level<br/>Ölstand</p> |                                                                                               |  <p><b>Yağ Boşaltma</b><br/>Drain Plug<br/>Ölablab</p> |  |



| TİP<br>Type<br>Typ | Bağlantı Pozisyonları için Yağ Miktarları ( litre )<br>Oil Quantities for Mounting Positions ( liter )<br>Ölmengen Tabellen für Bauformen ( liter ) |    |    |           |    |    |           |    |    |           |    |    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----------|----|----|-----------|----|----|-----------|----|----|
|                    | P1                                                                                                                                                  | V1 | P5 | P6        | V5 | V6 | P3        | V3 | P4 | P2        | V4 | V2 |
| YP_P<br>52 / 53    | 1,1 / 0,9                                                                                                                                           |    |    | 1,1 / 0,9 |    |    | 0,9 / 0,7 |    |    | 1,4 / 1,2 |    |    |
| YP_P<br>62 / 63    | 1,6 / 1,4                                                                                                                                           |    |    | 1,6 / 1,4 |    |    | 1,2 / 1   |    |    | 1,9 / 1,7 |    |    |
| YP_P<br>72 / 73    | 3 / 2,7                                                                                                                                             |    |    | 4,1 / 3,8 |    |    | 3,2 / 2,9 |    |    | 4,1 / 3,8 |    |    |
| YP_P<br>82 / 83    | 6,3 / 5,9                                                                                                                                           |    |    | 6,4 / 6   |    |    | 4,7 / 4,3 |    |    | 7,7 / 7,3 |    |    |
| YP_P<br>92 / 93    | 13 / 11                                                                                                                                             |    |    | 14 / 11   |    |    | 11 / 8    |    |    | 16 / 13   |    |    |
| YP_P<br>102 / 103  | 20 / 17                                                                                                                                             |    |    | 18 / 15   |    |    | 20 / 17   |    |    | 24 / 21   |    |    |
| YP_P<br>122 / 123  | 27 / 24                                                                                                                                             |    |    | 30 / 27   |    |    | 24 / 21   |    |    | 35 / 32   |    |    |



**YPM ...**



**YPFM ...**



**YPM ... - 01**



**YPFM ... - 01**



**YPM ... - ...**



**YPFM ... - ...**



**YPM ... - ... - 01**



**YPFM ... - ... - 01**





| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                        |     |     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|----------------------------|-----|-----|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                       |     |     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                        |     |     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                            |     |     |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                            |     | kg  |
| <b>0,12</b><br><b>0,16</b> | 0,21                        | 6715        | 1,02           | 5020                         | 31500            |      |                            |     |     |
|                            | 0,23                        | 6042        | 1,09           | 4517                         | 31500            |      |                            |     |     |
|                            | 0,25                        | 5638        | 1,15           | 4215                         | 31500            |      |                            |     |     |
|                            | 0,27                        | 5097        | 1,28           | 3811                         | 31500            | YPM  | <b>103 İR 63 / 63 M 4a</b> | 395 | 200 |
|                            | 0,33                        | 4212        | 1,55           | 3149                         | 31500            | YPFM |                            | 396 | 220 |
|                            | 0,36                        | 3845        | 1,69           | 2875                         | 31500            |      |                            |     |     |
|                            | 0,41                        | 3443        | 1,89           | 2574                         | 31500            |      |                            |     |     |
|                            | 0,48                        | 2887        | 2,20           | 2158                         | 31500            |      |                            |     |     |
|                            | 0,56                        | 2481        | 2,40           | 1883                         | 31500            | YPM  | <b>102 İR 63 / 63 M 4a</b> | 395 | 195 |
|                            | 0,63                        | 2206        | 2,60           | 1674                         | 31500            | YPFM |                            | 396 | 215 |
|                            | 0,71                        | 1976        | 3,00           | 1500                         | 31500            |      |                            |     |     |
|                            | 0,30                        | 4717        | 0,98           | 3526                         | 26800            |      | <b>93 İR 63 / 63 M 4a</b>  | 393 | 122 |
|                            | 0,32                        | 4402        | 1,04           | 3291                         | 26800            |      |                            |     |     |
|                            | 0,35                        | 4005        | 1,14           | 2994                         | 26800            | YPM  |                            | 394 | 125 |
|                            | 0,38                        | 3650        | 1,25           | 2729                         | 26800            | YPFM |                            |     |     |
|                            | 0,39                        | 3571        | 1,29           | 2670                         | 26800            |      |                            |     |     |
|                            | 0,42                        | 3333        | 1,37           | 2492                         | 26800            |      |                            |     |     |
|                            | 0,42                        | 3350        | 1,29           | 2543                         | 26800            |      | <b>92 İR 63 / 63 M 4a</b>  |     |     |
|                            | 0,49                        | 2843        | 1,45           | 2158                         | 26800            |      |                            |     |     |
|                            | 0,51                        | 2731        | 1,69           | 2073                         | 26800            |      |                            |     |     |
|                            | 0,55                        | 2548        | 1,80           | 1934                         | 26800            |      |                            |     |     |
|                            | 0,62                        | 2246        | 2,00           | 1705                         | 26800            | YPM  |                            | 393 | 119 |
|                            | 0,70                        | 1996        | 2,30           | 1515                         | 26800            | YPFM |                            | 394 | 122 |
|                            | 0,78                        | 1786        | 2,60           | 1356                         | 26800            |      |                            |     |     |
|                            | 0,87                        | 1607        | 2,80           | 1220                         | 26800            |      |                            |     |     |
|                            | 0,96                        | 1453        | 3,10           | 1103                         | 26800            |      |                            |     |     |
|                            | 1,1                         | 1319        | 3,50           | 1001                         | 26800            |      |                            |     |     |
|                            | 1,2                         | 1200        | 3,80           | 911                          | 26800            |      |                            |     |     |
|                            | 0,53                        | 2626        | 0,80           | 1963                         | 19500            |      | <b>83 İR 53 / 63 M 4a</b>  | 391 | 96  |
|                            | 0,60                        | 2334        | 0,91           | 1745                         | 19500            |      |                            | 392 | 102 |
|                            | 0,68                        | 2061        | 1,03           | 1541                         | 19500            | YPM  |                            |     |     |
|                            | 0,76                        | 1853        | 1,14           | 1385                         | 19500            | YPFM |                            |     |     |
|                            | 0,86                        | 1637        | 1,29           | 1224                         | 19500            |      |                            |     |     |
|                            | 0,95                        | 1469        | 1,44           | 1098                         | 19500            |      | <b>82 İR 53 / 63 M 4a</b>  |     |     |
|                            | 0,99                        | 1417        | 1,49           | 1075                         | 19500            |      |                            |     |     |
|                            | 1,2                         | 1134        | 1,74           | 861                          | 19500            |      |                            |     |     |
|                            | 1,4                         | 1024        | 1,93           | 777                          | 19500            | YPM  |                            | 391 | 93  |
|                            | 1,5                         | 910         | 2,20           | 691                          | 19500            | YPFM |                            | 392 | 99  |
|                            | 1,7                         | 816         | 2,40           | 619                          | 19500            |      |                            |     |     |
|                            | 1,9                         | 736         | 2,70           | 559                          | 19500            |      |                            |     |     |
|                            | 2,2                         | 650         | 3,00           | 493                          | 19500            |      |                            |     |     |
|                            | 0,91                        | 1534        | 0,78           | 1164                         | 13500            |      | <b>72 İR 53 / 63 M 4a</b>  |     |     |
|                            | 1,0                         | 1335        | 0,88           | 1013                         | 13500            |      |                            |     |     |
|                            | 1,2                         | 1204        | 0,99           | 914                          | 13500            |      |                            |     |     |
|                            | 1,2                         | 1187        | 0,98           | 901                          | 13500            |      |                            |     |     |
|                            | 1,3                         | 1055        | 1,10           | 801                          | 13500            | YPM  |                            | 389 | 61  |
|                            | 1,5                         | 943         | 1,23           | 716                          | 13500            | YPFM |                            | 390 | 65  |
|                            | 1,7                         | 846         | 1,38           | 642                          | 13500            |      |                            |     |     |
|                            | 1,8                         | 764         | 1,57           | 580                          | 13500            |      |                            |     |     |
|                            | 2,0                         | 685         | 1,75           | 520                          | 13500            |      |                            |     |     |
|                            | 2,3                         | 617         | 1,95           | 468                          | 13500            |      |                            |     |     |



| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                              | Tip                       |                                                                                     |                                                                                     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------------------------------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                              | Type                      |                                                                                     |                                                                                     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                              | Typ                       |                                                                                     |                                                                                     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                              |                           |  |  |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |                              |                           |                                                                                     | kg                                                                                  |
| <b>0,12</b><br><b>0,16</b> | 2,5                         | 557         | 2,20           | 423                          | 13500            | <b>YPM</b><br><b>YPFM</b>    | <b>72 İR 53 / 63 M 4a</b> | 389                                                                                 | 61                                                                                  |
|                            | 2,8                         | 492         | 2,50           | 373                          | 13500            |                              |                           | 390                                                                                 | 65                                                                                  |
|                            | 3,1                         | 445         | 2,70           | 338                          | 13500            |                              |                           |                                                                                     |                                                                                     |
|                            | 3,5                         | 403         | 3,00           | 306                          | 13500            |                              |                           |                                                                                     |                                                                                     |
|                            | 3,7                         | 379         | 2,60           | 288                          | 13500            |                              |                           |                                                                                     |                                                                                     |
|                            | 2,2                         | 643         | 0,80           | 488                          | 7450             | <b>YPM</b><br><b>YPFM</b>    | <b>63 İR 42 / 63 M 4a</b> | 387                                                                                 | 43                                                                                  |
|                            | 2,3                         | 610         | 0,84           | 463                          | 7450             |                              |                           | 388                                                                                 | 44                                                                                  |
|                            | 2,6                         | 544         | 0,94           | 413                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 3,1                         | 450         | 1,14           | 342                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 3,3                         | 420         | 1,22           | 319                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 3,8                         | 364         | 1,41           | 276                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 4,5                         | 313         | 1,64           | 238                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 4,9                         | 285         | 1,80           | 216                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 5,9                         | 238         | 2,20           | 181                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 6,2                         | 225         | 2,30           | 171                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,0                         | 200         | 2,60           | 152                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 8,5                         | 164         | 3,10           | 124                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 9,4                         | 149         | 3,40           | 113                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 10                          | 135         | 4,10           | 102                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 3,9                         | 355         | 1,45           | 274                          | 7450             | <b>YPM</b><br><b>YPFM</b>    | <b>62 İR 42 / 63 M 4a</b> | 387                                                                                 | 41                                                                                  |
|                            | 5,0                         | 279         | 1,85           | 215                          | 7450             |                              |                           | 388                                                                                 | 43                                                                                  |
|                            | 5,7                         | 244         | 2,10           | 188                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,1                         | 197         | 2,60           | 152                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,8                         | 179         | 2,90           | 138                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 8,6                         | 162         | 3,20           | 125                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 11                          | 127         | 4,00           | 98                           | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 4,0                         | 352         | 0,88           | 267                          | 4500             | <b>YPM</b><br><b>YPFM</b>    | <b>53 İR 42 / 63 M 4a</b> | 385                                                                                 | 30                                                                                  |
|                            | 4,4                         | 316         | 0,98           | 240                          | 4500             |                              |                           | 386                                                                                 | 31                                                                                  |
|                            | 4,9                         | 284         | 1,09           | 216                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 5,4                         | 257         | 1,20           | 195                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 6,2                         | 225         | 1,24           | 171                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,1                         | 198         | 1,55           | 150                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 8,0                         | 175         | 1,75           | 133                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,2                         | 194         | 1,34           | 149                          | 4500             | <b>YPM</b><br><b>YPFM</b>    | <b>52 İR 42 / 63 M 4a</b> | 385                                                                                 | 29                                                                                  |
|                            | 8,1                         | 173         | 1,51           | 133                          | 4500             |                              |                           | 386                                                                                 | 31                                                                                  |
|                            | 9,1                         | 154         | 1,69           | 119                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 10                          | 138         | 1,88           | 106                          | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 11                          | 125         | 2,10           | 96                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 13                          | 112         | 2,30           | 86                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 14                          | 102         | 2,60           | 79                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 16                          | 85          | 3,00           | 65                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 7,4                         | 190,171     | 2,70           | 149                          | 7450             | <b>YPPM</b><br><b>YPPFPM</b> | <b>63 / 63 M 4a</b>       | 403                                                                                 | 32                                                                                  |
|                            | 7,9                         | 177,468     | 2,90           | 139                          | 7450             |                              |                           | 404                                                                                 | 35                                                                                  |
|                            | 8,4                         | 166,102     | 3,10           | 130                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 8,9                         | 157,692     | 3,20           | 123                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 11                          | 130,521     | 3,90           | 102                          | 7450             |                              |                           |                                                                                     |                                                                                     |
|                            | 10                          | 137,307     | 1,85           | 107                          | 4500             | <b>YPPM</b><br><b>YPPFPM</b> | <b>53 / 63 M 4a</b>       | 401                                                                                 | 19                                                                                  |
|                            | 12                          | 119,073     | 2,10           | 93                           | 4500             |                              |                           | 402                                                                                 | 21                                                                                  |
|                            | 13                          | 104,313     | 2,40           | 82                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 15                          | 94,784      | 2,70           | 74                           | 4500             |                              |                           |                                                                                     |                                                                                     |
|                            | 17                          | 83,705      | 3,00           | 65                           | 4500             |                              |                           |                                                                                     |                                                                                     |



| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                 |     |     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|---------------------|-----|-----|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                |     |     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                 |     |     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                     |     |     |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                     |     | kg  |
| <b>0,18</b><br><b>0,25</b> | 0,27                        | 5097        | 0,85           | 5716                         | 31500            |      |                     |     |     |
|                            | 0,33                        | 4212        | 1,03           | 4723                         | 31500            | YPM  |                     |     |     |
|                            | 0,36                        | 3845        | 1,13           | 4312                         | 31500            | YPFM | 103 İR 63 / 63 M 4b | 395 | 201 |
|                            | 0,41                        | 3443        | 1,26           | 3861                         | 31500            |      |                     | 396 | 221 |
|                            | 0,48                        | 2887        | 1,47           | 3238                         | 31500            |      |                     |     |     |
|                            | 0,56                        | 2481        | 1,60           | 2825                         | 31500            |      |                     |     |     |
|                            | 0,63                        | 2206        | 1,73           | 2512                         | 31500            |      |                     |     |     |
|                            | 0,71                        | 1976        | 2,00           | 2250                         | 31500            |      |                     |     |     |
|                            | 0,79                        | 1779        | 2,10           | 2025                         | 31500            | YPM  |                     |     |     |
|                            | 0,87                        | 1610        | 2,50           | 1833                         | 31500            | YPFM | 102 İR 63 / 63 M 4b | 395 | 196 |
|                            | 0,96                        | 1462        | 2,50           | 1664                         | 31500            |      |                     | 396 | 216 |
|                            | 1,1                         | 1333        | 2,50           | 1518                         | 31500            |      |                     |     |     |
|                            | 1,1                         | 1218        | 2,50           | 1387                         | 31500            |      |                     |     |     |
|                            | 1,3                         | 1113        | 2,50           | 1267                         | 31500            |      |                     |     |     |
|                            | 0,38                        | 3650        | 0,83           | 4093                         | 26800            | YPM  |                     |     |     |
|                            | 0,39                        | 3571        | 0,86           | 4005                         | 26800            | YPFM | 93 İR 63 / 63 M 4b  | 393 | 122 |
|                            | 0,42                        | 3333        | 0,91           | 3738                         | 26800            |      |                     | 394 | 125 |
|                            | 0,42                        | 3350        | 0,86           | 3814                         | 26800            |      |                     |     |     |
|                            | 0,49                        | 2843        | 0,97           | 3237                         | 26800            |      |                     |     |     |
|                            | 0,51                        | 2731        | 1,13           | 3109                         | 26800            |      |                     |     |     |
|                            | 0,55                        | 2548        | 1,20           | 2901                         | 26800            |      |                     |     |     |
|                            | 0,62                        | 2246        | 1,33           | 2557                         | 26800            |      |                     |     |     |
|                            | 0,70                        | 1996        | 1,53           | 2272                         | 26800            | YPM  |                     |     |     |
|                            | 0,78                        | 1786        | 1,73           | 2033                         | 26800            | YPFM | 92 İR 63 / 63 M 4b  | 393 | 119 |
|                            | 0,87                        | 1607        | 1,87           | 1830                         | 26800            |      |                     | 394 | 122 |
|                            | 0,96                        | 1453        | 2,10           | 1654                         | 26800            |      |                     |     |     |
|                            | 1,1                         | 1319        | 2,30           | 1502                         | 26800            |      |                     |     |     |
|                            | 1,2                         | 1200        | 2,50           | 1366                         | 26800            |      |                     |     |     |
|                            | 1,3                         | 1096        | 2,80           | 1248                         | 26800            |      |                     |     |     |
|                            | 0,86                        | 1637        | 0,86           | 1836                         | 19500            | YPM  |                     |     |     |
|                            | 0,95                        | 1469        | 0,96           | 1647                         | 19500            | YPFM | 83 İR 53 / 63 M 4b  | 391 | 96  |
|                            | 0,99                        | 1417        | 0,99           | 1613                         | 19500            |      |                     |     |     |
|                            | 1,2                         | 1134        | 1,16           | 1291                         | 19500            |      |                     |     |     |
|                            | 1,4                         | 1024        | 1,29           | 1166                         | 19500            | YPM  |                     |     |     |
|                            | 1,5                         | 910         | 1,47           | 1036                         | 19500            | YPFM | 82 İR 53 / 63 M 4b  | 391 | 93  |
|                            | 1,7                         | 816         | 1,60           | 929                          | 19500            |      |                     | 392 | 99  |
|                            | 1,9                         | 736         | 1,80           | 838                          | 19500            |      |                     |     |     |
|                            | 2,2                         | 650         | 2,00           | 740                          | 19500            |      |                     |     |     |
|                            | 1,5                         | 943         | 0,82           | 1074                         | 13500            |      |                     |     |     |
|                            | 1,7                         | 846         | 0,92           | 963                          | 13500            |      |                     |     |     |
|                            | 1,8                         | 764         | 1,05           | 870                          | 13500            |      |                     |     |     |
|                            | 2,0                         | 685         | 1,17           | 780                          | 13500            |      |                     |     |     |
|                            | 2,3                         | 617         | 1,30           | 702                          | 13500            | YPM  |                     |     |     |
|                            | 2,5                         | 557         | 1,47           | 634                          | 13500            | YPFM | 72 İR 53 / 63 M 4b  | 389 | 61  |
|                            | 2,8                         | 492         | 1,67           | 560                          | 13500            |      |                     | 390 | 65  |
|                            | 3,1                         | 445         | 1,80           | 507                          | 13500            |      |                     |     |     |
|                            | 3,5                         | 403         | 2,00           | 459                          | 13500            |      |                     |     |     |
|                            | 3,7                         | 379         | 1,73           | 431                          | 13500            |      |                     |     |     |
|                            | 3,3                         | 420         | 0,81           | 478                          | 7450             | YPM  |                     |     |     |
|                            | 3,8                         | 364         | 0,94           | 414                          | 7450             | YPFM | 63 İR 42 / 63 M 4b  | 387 | 43  |
|                            | 4,5                         | 313         | 1,09           | 356                          | 7450             |      |                     | 388 | 45  |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |       | Tip                       |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |       | Type                      |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |       | Typ                       |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |       |                           |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |       |                           |                                                                                     | kg                                                                                  |
| <b>0,18</b>    | 4,9                         | 285         | 1,20           | 324                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 5,9                         | 238         | 1,47           | 271                          | 7450             |       |                           |                                                                                     |                                                                                     |
| <b>0,25</b>    | 6,2                         | 225         | 1,53           | 256                          | 7450             | YPM   | <b>63 İR 42 / 63 M 4b</b> | 387                                                                                 | 43                                                                                  |
|                | 7,0                         | 200         | 1,73           | 228                          | 7450             | YPFM  |                           | 388                                                                                 | 45                                                                                  |
|                | 8,5                         | 164         | 2,10           | 187                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 9,4                         | 149         | 2,30           | 170                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 10                          | 135         | 2,70           | 154                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 3,9                         | 355         | 0,97           | 410                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 5,0                         | 279         | 1,23           | 322                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 5,7                         | 244         | 1,40           | 282                          | 7450             | YPM   | <b>62 İR 42 / 63 M 4b</b> | 387                                                                                 | 42                                                                                  |
|                | 7,1                         | 197         | 1,73           | 228                          | 7450             | YPFM  |                           | 388                                                                                 | 43                                                                                  |
|                | 7,8                         | 179         | 1,93           | 207                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 8,6                         | 162         | 2,10           | 187                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 11                          | 127         | 2,70           | 147                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 5,4                         | 257         | 0,80           | 293                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 6,2                         | 225         | 0,83           | 256                          | 4500             | YPM   | <b>53 İR 42 / 63 M 4b</b> | 385                                                                                 | 30                                                                                  |
|                | 7,1                         | 198         | 1,03           | 225                          | 4500             | YPFM  |                           | 386                                                                                 | 32                                                                                  |
|                | 8,0                         | 175         | 1,17           | 199                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 7,2                         | 194         | 0,89           | 224                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 8,1                         | 173         | 1,01           | 200                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 9,1                         | 154         | 1,13           | 178                          | 4500             | YPM   | <b>52 İR 42 / 63 M 4b</b> | 385                                                                                 | 30                                                                                  |
|                | 10                          | 138         | 1,25           | 160                          | 4500             | YPFM  |                           | 386                                                                                 | 31                                                                                  |
|                | 11                          | 125         | 1,40           | 144                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 13                          | 112         | 1,53           | 129                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 14                          | 102         | 1,73           | 118                          | 4500             |       |                           |                                                                                     |                                                                                     |
|                | 16                          | 85          | 2,00           | 98                           | 4500             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 3,7                         | 242,298     | 3,20           | 442                          | 19500            | YPM   | <b>83 / 71 M 6a</b>       | 377                                                                                 | 87                                                                                  |
|                | 4,3                         | 209,469     | 3,80           | 382                          | 19500            | YPFM  |                           | 378                                                                                 | 93                                                                                  |
|                | 4,5                         | 201,750     | 3,90           | 368                          | 19500            |       |                           |                                                                                     |                                                                                     |
|                | 4,2                         | 212,231     | 1,80           | 387                          | 13500            | YPPM  | <b>73 / 71 M 6a</b>       | 405                                                                                 | 54                                                                                  |
|                | 4,5                         | 198,053     | 1,93           | 362                          | 13500            | YPFPM |                           | 406                                                                                 | 58                                                                                  |
|                | 4,9                         | 185,369     | 2,10           | 338                          | 13500            |       |                           |                                                                                     |                                                                                     |
|                | 5,5                         | 164,458     | 2,30           | 300                          | 13500            | YPM   | <b>73 / 71 M 6a</b>       | 375                                                                                 | 54                                                                                  |
|                | 6,2                         | 145,661     | 2,60           | 266                          | 13500            | YPFM  |                           | 376                                                                                 | 58                                                                                  |
|                | 7,0                         | 129,229     | 2,90           | 236                          | 13500            |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 6,6                         | 212,231     | 2,80           | 249                          | 13500            | YPPM  | <b>73 / 63 M 4b</b>       | 405                                                                                 | 53                                                                                  |
|                | 7,1                         | 198,053     | 2,90           | 232                          | 13500            | YPFPM |                           | 406                                                                                 | 57                                                                                  |
|                | 4,7                         | 190,171     | 1,15           | 347                          | 7450             | YPPM  | <b>63 / 71 M 6a</b>       | 403                                                                                 | 34                                                                                  |
|                | 5,1                         | 177,468     | 1,24           | 324                          | 7450             | YPFPM |                           | 404                                                                                 | 36                                                                                  |
|                | 5,4                         | 166,102     | 1,33           | 303                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 5,7                         | 157,692     | 1,40           | 288                          | 7450             | YPM   | <b>63 / 71 M 6a</b>       | 373                                                                                 | 34                                                                                  |
|                | 6,9                         | 130,521     | 1,67           | 238                          | 7450             | YPFM  |                           | 374                                                                                 | 36                                                                                  |
|                | 7,4                         | 121,671     | 1,80           | 222                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 8,5                         | 105,483     | 2,10           | 193                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |
|                | 7,4                         | 190,171     | 1,80           | 223                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 7,9                         | 177,468     | 1,93           | 208                          | 7450             | YPPM  | <b>63 / 63 M 4b</b>       | 403                                                                                 | 33                                                                                  |
|                | 8,4                         | 166,102     | 2,10           | 195                          | 7450             | YPFPM |                           | 404                                                                                 | 35                                                                                  |
|                | 8,9                         | 157,692     | 2,10           | 185                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                | 11                          | 130,521     | 2,60           | 153                          | 7450             |       |                           |                                                                                     |                                                                                     |
|                |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |





| P <sub>1</sub>      | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |               | Tip                        |                                                                                     |                                                                                     |
|---------------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ                 | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |               | Type                       |                                                                                     |                                                                                     |
| Power               | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |               | Typ                        |                                                                                     |                                                                                     |
| Leistung            | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |               |                            |  |  |
| [kW]<br>Hp          | [r.p.m]                     |             |                | [Nm]                         | [N]              |               |                            |                                                                                     | kg                                                                                  |
| <b>0,18</b><br>0,25 | 12                          | 121,671     | 2,80           | 143                          | 7450             | YPPM          | <b>63 / 63 M 4b</b>        | 403                                                                                 | 33                                                                                  |
|                     | 13                          | 105,483     | 3,20           | 124                          | 7450             | YPFPM         |                            | 404                                                                                 | 35                                                                                  |
|                     | 15                          | 90,716      | 3,50           | 106                          | 7450             |               |                            |                                                                                     |                                                                                     |
|                     | 6,6                         | 137,307     | 0,91           | 251                          | 4500             | YPM           | <b>53 / 71 M 6a</b>        | 371                                                                                 | 21                                                                                  |
|                     | 7,6                         | 119,073     | 1,04           | 217                          | 4500             | YPFM          |                            | 372                                                                                 | 22                                                                                  |
|                     | 8,6                         | 104,313     | 1,15           | 190                          | 4500             |               |                            |                                                                                     |                                                                                     |
|                     | 10                          | 137,307     | 1,23           | 161                          | 4500             | YPPM<br>YPFPM | <b>53 / 63 M 4b</b>        | 401                                                                                 | 20                                                                                  |
|                     | 12                          | 119,073     | 1,40           | 140                          | 4500             |               |                            | 402                                                                                 | 21                                                                                  |
|                     | 13                          | 104,313     | 1,60           | 122                          | 4500             |               |                            |                                                                                     |                                                                                     |
|                     | 15                          | 94,784      | 1,80           | 111                          | 4500             |               |                            |                                                                                     |                                                                                     |
|                     | 17                          | 83,705      | 2,00           | 98                           | 4500             |               |                            |                                                                                     |                                                                                     |
| <b>0,25</b><br>0,34 | 0,18                        | 7633        | 0,79           | 11889                        | 61500            | YPM<br>YPFM   | <b>123 İR 73 / 71 M 4a</b> | 397                                                                                 | 292                                                                                 |
|                     | 0,21                        | 6784        | 0,88           | 10566                        | 61500            |               |                            | 398                                                                                 | 322                                                                                 |
|                     | 0,23                        | 6061        | 0,96           | 9440                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,26                        | 5438        | 1,06           | 8470                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,29                        | 4895        | 1,20           | 7624                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,32                        | 4418        | 1,34           | 6881                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,35                        | 3996        | 1,49           | 6224                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,39                        | 3619        | 1,63           | 5637                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,43                        | 3281        | 1,82           | 5110                         | 61500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,36                        | 3845        | 0,81           | 5989                         | 31500            | YPM<br>YPFM   | <b>103 İR 63 / 71 M 4a</b> | 395                                                                                 | 202                                                                                 |
|                     | 0,41                        | 3443        | 0,91           | 5363                         | 31500            |               |                            | 396                                                                                 | 222                                                                                 |
|                     | 0,48                        | 2887        | 1,06           | 4497                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,56                        | 2481        | 1,15           | 3923                         | 31500            | YPM<br>YPFM   | <b>102 İR 63 / 71 M 4a</b> | 395                                                                                 | 197                                                                                 |
|                     | 0,63                        | 2206        | 1,25           | 3488                         | 31500            |               |                            | 396                                                                                 | 217                                                                                 |
|                     | 0,71                        | 1976        | 1,44           | 3125                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,79                        | 1779        | 1,49           | 2813                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,87                        | 1610        | 1,82           | 2546                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,96                        | 1462        | 1,82           | 2312                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,1                         | 1333        | 1,82           | 2108                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,1                         | 1218        | 1,82           | 1926                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,3                         | 1113        | 1,82           | 1760                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,5                         | 954         | 3,10           | 1508                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,6                         | 855         | 3,40           | 1352                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,8                         | 770         | 3,80           | 1218                         | 31500            |               |                            |                                                                                     |                                                                                     |
|                     | 0,55                        | 2548        | 0,86           | 4029                         | 26800            | YPM<br>YPFM   | <b>92 İR 63 / 71 M 4a</b>  | 393                                                                                 | 120                                                                                 |
|                     | 0,62                        | 2246        | 0,96           | 3551                         | 26800            |               |                            | 394                                                                                 | 123                                                                                 |
|                     | 0,70                        | 1996        | 1,10           | 3156                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 0,78                        | 1786        | 1,25           | 2824                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 0,87                        | 1607        | 1,34           | 2541                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 0,96                        | 1453        | 1,49           | 2298                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,1                         | 1319        | 1,68           | 2086                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,2                         | 1200        | 1,82           | 1897                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,3                         | 1096        | 2,00           | 1733                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,6                         | 863         | 2,50           | 1365                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,8                         | 772         | 2,80           | 1221                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 2,0                         | 695         | 3,10           | 1099                         | 26800            |               |                            |                                                                                     |                                                                                     |
|                     | 1,2                         | 1134        | 0,83           | 1793                         | 19500            | YPM<br>YPFM   | <b>82 İR 53 / 71 M 4a</b>  | 391                                                                                 | 94                                                                                  |
|                     | 1,4                         | 1024        | 0,93           | 1619                         | 19500            |               |                            | 392                                                                                 | 100                                                                                 |
|                     | 1,5                         | 910         | 1,06           | 1439                         | 19500            |               |                            |                                                                                     |                                                                                     |
|                     | 1,7                         | 816         | 1,15           | 1290                         | 19500            |               |                            |                                                                                     |                                                                                     |



| P <sub>1</sub>      | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                    | Tip  |                                                                                     |                                                                                     |
|---------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|--------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ                 | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                    | Type |                                                                                     |                                                                                     |
| Power               | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                    | Typ  |                                                                                     |                                                                                     |
| Leistung            | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                    |      |  |  |
| [kW]<br>Hp          | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                    |      |                                                                                     | kg                                                                                  |
| <b>0,25</b><br>0,34 | 1,9                         | 736         | 1,30           | 1164                         | 19500            | YPM<br>YPFM | 82 İR 53 / 71 M 4a |      | 391                                                                                 | 94                                                                                  |
|                     | 2,2                         | 650         | 1,44           | 1028                         | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,4                         | 582         | 1,63           | 920                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,7                         | 525         | 1,82           | 830                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,9                         | 475         | 2,00           | 751                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,2                         | 431         | 2,20           | 682                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,7                         | 382         | 2,50           | 604                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,1                         | 343         | 2,80           | 542                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,2                         | 444         | 2,30           | 713                          | 19500            | YPM<br>YPFM | 82 İR 52 / 71 M 4a |      | 391                                                                                 | 94                                                                                  |
|                     | 3,6                         | 389         | 2,60           | 624                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,0                         | 347         | 2,90           | 557                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,5                         | 311         | 3,00           | 499                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,0                         | 281         | 3,30           | 451                          | 19500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,4                         | 591         | 0,83           | 935                          | 13500            | YPM<br>YPFM | 73 İR 52 / 71 M 4a |      | 389                                                                                 | 63                                                                                  |
|                     | 2,7                         | 526         | 0,93           | 832                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,8                         | 502         | 0,96           | 794                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,1                         | 445         | 1,10           | 704                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,5                         | 395         | 1,25           | 625                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,0                         | 351         | 1,39           | 555                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,2                         | 335         | 1,44           | 530                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,7                         | 297         | 1,64           | 470                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,3                         | 264         | 1,85           | 417                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,7                         | 247         | 1,97           | 391                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 6,4                         | 219         | 2,20           | 346                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 7,2                         | 195         | 2,50           | 308                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,0                         | 685         | 0,84           | 1083                         | 13500            | YPM<br>YPFM | 72 İR 53 / 71 M 4a |      | 389                                                                                 | 62                                                                                  |
|                     | 2,3                         | 617         | 0,94           | 976                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,5                         | 557         | 1,06           | 881                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 2,8                         | 492         | 1,20           | 778                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,1                         | 445         | 1,30           | 704                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,5                         | 403         | 1,44           | 637                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 3,7                         | 379         | 1,25           | 599                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,3                         | 325         | 1,78           | 514                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,7                         | 295         | 1,97           | 466                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,1                         | 273         | 2,00           | 432                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,3                         | 263         | 3,40           | 416                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,7                         | 244         | 3,40           | 386                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 6,4                         | 219         | 3,40           | 346                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 7,1                         | 197         | 3,40           | 312                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 7,9                         | 178         | 3,40           | 281                          | 13500            |             |                    |      |                                                                                     |                                                                                     |
|                     | 4,9                         | 285         | 0,86           | 451                          | 7450             | YPM<br>YPFM | 63 İR 42 / 71 M 4a |      | 387                                                                                 | 44                                                                                  |
|                     | 5,9                         | 238         | 1,05           | 376                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 6,2                         | 225         | 1,10           | 356                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 7,0                         | 200         | 1,25           | 316                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 8,5                         | 164         | 1,49           | 259                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 9,4                         | 149         | 1,63           | 236                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 10,4                        | 135         | 1,97           | 213                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 5,0                         | 279         | 0,89           | 448                          | 7450             | YPM<br>YPFM | 62 İR 42 / 71 M 4a |      | 387                                                                                 | 43                                                                                  |
|                     | 5,7                         | 244         | 1,00           | 392                          | 7450             |             |                    |      |                                                                                     |                                                                                     |
|                     | 7,1                         | 197         | 1,25           | 316                          | 7450             |             |                    |      |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |               | Tip                       |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |               | Type                      |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |               | Typ                       |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |               |                           |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |               |                           |                                                                                     | kg                                                                                  |
| <b>0,25</b>    | 7,8                         | 179         | 1,39           | 287                          | 7450             | YPM           | <b>62 İR 42 / 71 M 4a</b> | 387                                                                                 | 43                                                                                  |
|                | 8,6                         | 162         | 1,54           | 260                          | 7450             | YPFM          |                           | 388                                                                                 | 44                                                                                  |
| <b>0,34</b>    | 11,0                        | 127         | 1,92           | 204                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 8,0                         | 175         | 0,84           | 277                          | 4500             | YPM<br>YPFM   | <b>53 İR 42 / 71 M 4a</b> | 385<br>386                                                                          | 31<br>33                                                                            |
|                | 9,1                         | 154         | 0,81           | 247                          | 4500             | YPM<br>YPFM   | <b>52 İR 42 / 71 M 4a</b> | 385<br>386                                                                          | 31<br>32                                                                            |
|                | 10,1                        | 138         | 0,90           | 222                          | 4500             |               |                           |                                                                                     |                                                                                     |
|                | 11,2                        | 125         | 1,01           | 201                          | 4500             |               |                           |                                                                                     |                                                                                     |
|                | 12,5                        | 112         | 1,10           | 180                          | 4500             |               |                           |                                                                                     |                                                                                     |
|                | 13,7                        | 102         | 1,25           | 164                          | 4500             |               |                           |                                                                                     |                                                                                     |
|                | 16,5                        | 85          | 1,44           | 136                          | 4500             |               |                           |                                                                                     |                                                                                     |
|                | 3,7                         | 242,298     | 2,30           | 614                          | 19500            | YPM<br>YPFM   | <b>83 / 71 M 6b</b>       | 377<br>378                                                                          | 88<br>94                                                                            |
|                | 4,3                         | 209,469     | 2,70           | 531                          | 19500            |               |                           |                                                                                     |                                                                                     |
|                | 4,5                         | 201,750     | 2,80           | 511                          | 19500            |               |                           |                                                                                     |                                                                                     |
|                | 5,2                         | 174,415     | 3,20           | 442                          | 19500            |               |                           |                                                                                     |                                                                                     |
|                | 4,2                         | 212,231     | 1,30           | 538                          | 13500            | YPPM<br>YPFPM | <b>73 / 71 M 6b</b>       | 405<br>406                                                                          | 55<br>59                                                                            |
|                | 4,5                         | 198,053     | 1,39           | 502                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 4,9                         | 185,369     | 1,49           | 470                          | 13500            | YPM<br>YPFM   | <b>73 / 71 M 6b</b>       | 375<br>376                                                                          | 55<br>59                                                                            |
|                | 5,5                         | 164,458     | 1,63           | 417                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 6,2                         | 145,661     | 1,87           | 369                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 7,0                         | 129,229     | 2,10           | 328                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 6,6                         | 212,231     | 2,00           | 346                          | 13500            | YPPM<br>YPFPM | <b>73 / 71 M 4a</b>       | 405<br>406                                                                          | 54<br>58                                                                            |
|                | 7,1                         | 198,053     | 2,10           | 323                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 7,6                         | 185,369     | 2,30           | 302                          | 13500            | YPM<br>YPFM   | <b>73 / 71 M 4a</b>       | 375<br>376                                                                          | 54<br>58                                                                            |
|                | 8,5                         | 164,458     | 2,60           | 268                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 9,6                         | 145,661     | 2,90           | 237                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 11                          | 129,229     | 3,30           | 211                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 13                          | 111,720     | 3,80           | 182                          | 13500            |               |                           |                                                                                     |                                                                                     |
|                | 5,1                         | 177,468     | 0,89           | 450                          | 7450             | YPPM<br>YPFPM | <b>63 / 71 M 6b</b>       | 403<br>404                                                                          | 35<br>37                                                                            |
|                |                             |             |                |                              |                  |               |                           |                                                                                     |                                                                                     |
|                | 5,4                         | 166,102     | 0,95           | 421                          | 7450             | YPM<br>YPFM   | <b>63 / 71 M 6b</b>       | 373<br>374                                                                          | 35<br>37                                                                            |
|                | 5,7                         | 157,692     | 1,00           | 400                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 6,9                         | 130,521     | 1,20           | 331                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 7,4                         | 121,671     | 1,30           | 308                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 8,5                         | 105,483     | 1,49           | 267                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 7,4                         | 190,171     | 1,30           | 310                          | 7450             | YPPM<br>YPFPM | <b>63 / 71 M 4a</b>       | 403<br>404                                                                          | 34<br>36                                                                            |
|                | 7,9                         | 177,468     | 1,39           | 289                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 17                          | 82,506      | 2,80           | 134                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 20                          | 68,901      | 3,30           | 112                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 22                          | 63,659      | 3,60           | 104                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 8,4                         | 166,102     | 1,49           | 271                          | 7450             | YPM<br>YPFM   | <b>63 / 71 M 4a</b>       | 373<br>374                                                                          | 34<br>36                                                                            |
|                | 8,9                         | 157,692     | 1,54           | 257                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 11                          | 130,521     | 1,87           | 213                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 12                          | 121,671     | 2,00           | 198                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 13                          | 105,483     | 2,30           | 172                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 15                          | 90,716      | 2,50           | 148                          | 7450             |               |                           |                                                                                     |                                                                                     |
|                | 21                          | 65,138      | 3,50           | 106                          | 7450             |               |                           |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------------|---------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|----------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |  |  | kg                                                                                  |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
| 0,25<br>0,34   | 12                          | 119,073     | 1,00           | 194                          | 4500             | YPM<br>YPFM | 53 / 71 M 4a                                                                        |  |  | 371<br>372                                                                          | 21<br>22   |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 13                          | 104,313     | 1,15           | 170                          | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 15                          | 94,784      | 1,30           | 154                          | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 17                          | 83,705      | 1,44           | 136                          | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 19                          | 74,398      | 1,63           | 121                          | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 21                          | 66,470      | 1,80           | 108                          | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 23                          | 59,635      | 2,00           | 97                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 26                          | 53,682      | 2,30           | 87                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 29                          | 48,451      | 2,50           | 79                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 32                          | 43,813      | 2,80           | 71                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 35                          | 39,456      | 3,00           | 64                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 40                          | 35,069      | 3,40           | 57                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 45                          | 31,332      | 3,80           | 51                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 50                          | 28,110      | 4,30           | 46                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 55                          | 25,304      | 4,70           | 41                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 61                          | 22,838      | 5,10           | 37                           | 4500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 54          | 25,745         | 4,70                         | 43               |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            | 4250       | YPPM<br>YPFPM | 52 / 71 M 4a |                                                                                     |                                                                                     | 401<br>402 | 19<br>20 |
|                |                             | 63          | 22,326         | 5,40                         | 37               |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            | 4250       | YPM<br>YPFM   | 52 / 71 M 4a |  |  | 371<br>372 | 19<br>20 |
|                |                             | 72          | 19,558         | 6,30                         | 32               |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            | 4250       |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 81          | 17,272         | 6,90                         | 29               |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            | 4250       |               |              |                                                                                     |                                                                                     |            |          |
|                | 91                          | 15,352      | 7,80           | 25                           | 4250             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 102                         | 13,716      | 8,70           | 23                           | 3850             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 114                         | 12,305      | 9,90           | 20                           | 3850             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 126                         | 11,077      | 10,80          | 18                           | 3850             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 140                         | 9,997       | 11,90          | 17                           | 3850             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 155                         | 9,041       | 13,20          | 15                           | 3850             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 193                         | 7,236       | 11,30          | 12                           | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 217                         | 6,465       | 12,00          | 11                           | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 241                         | 5,800       | 13,20          | 10                           | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 268                         | 5,221       | 13,80          | 9                            | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 297                         | 4,712       | 14,40          | 8                            | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 328                         | 4,262       | 15,60          | 7                            | 3500             |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
| 0,37<br>0,50   | 0,32                        | 4418        | 0,91           | 10184                        | 61500            | YPM<br>YPFM | 123 İR 73 / 71 M 4b                                                                 |  |  | 397<br>398                                                                          | 293<br>323 |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 0,35                        | 3996        | 1,00           | 9211                         | 61500            |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 0,39                        | 3619        | 1,10           | 8342                         | 61500            |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                | 0,43                        | 3281        | 1,23           | 7563                         | 61500            |             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 0,6         | 2206           | 0,84                         | 5163             | 31500       | YPM<br>YPFM                                                                         | 102 İR 63 / 71 M 4b                                                                 |  |  | 395<br>396 | 198<br>218 |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 0,7         | 1976           | 0,97                         | 4624             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 0,8         | 1779           | 1,00                         | 4163             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 0,9         | 1610           | 1,23                         | 3768             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,0         | 1462           | 1,23                         | 3421             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,1         | 1333           | 1,23                         | 3120             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,1         | 1218           | 1,23                         | 2850             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,3         | 1113           | 1,23                         | 2605             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,5         | 954            | 2,10                         | 2233             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,6         | 855            | 2,30                         | 2001             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 1,8         | 770            | 2,60                         | 1802             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 2,0         | 696            | 2,80                         | 1629             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 2,2         | 633            | 3,00                         | 1481             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 2,4         | 576            | 3,00                         | 1348             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |
|                |                             | 2,7         | 521            | 3,60                         | 1219             | 31500       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |            |               |              |                                                                                     |                                                                                     |            |          |



| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                           | Tip                        |     |     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------------------|----------------------------|-----|-----|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                           | Type                       |     |     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                           | Typ                        |     |     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                           |                            |     |     |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |                           |                            |     | kg  |
| <b>0,37</b><br><b>0,50</b> | 2,9                         | 475         | 3,60           | 1112                         | 31500            | <b>YPM</b><br><b>YPFM</b> | <b>102 İR 63 / 71 M 4b</b> | 395 | 198 |
|                            | 3,2                         | 434         | 3,60           | 1016                         | 31500            |                           |                            | 396 | 218 |
|                            | 3,9                         | 358         | 3,60           | 838                          | 31500            |                           |                            |     |     |
|                            | 4,8                         | 293         | 3,60           | 686                          | 31500            |                           |                            |     |     |
|                            | 5,8                         | 243         | 3,60           | 569                          | 31500            |                           |                            |     |     |
|                            | 0,78                        | 1786        | 0,84           | 4180                         | 26800            | <b>YPM</b><br><b>YPFM</b> | <b>92 İR 63 / 71 M 4b</b>  | 393 | 121 |
|                            | 0,87                        | 1607        | 0,91           | 3761                         | 26800            |                           |                            | 394 | 124 |
|                            | 0,96                        | 1453        | 1,00           | 3400                         | 26800            |                           |                            |     |     |
|                            | 1,1                         | 1319        | 1,14           | 3087                         | 26800            |                           |                            |     |     |
|                            | 1,2                         | 1200        | 1,23           | 2808                         | 26800            |                           |                            |     |     |
|                            | 1,3                         | 1096        | 1,36           | 2565                         | 26800            |                           |                            |     |     |
|                            | 1,6                         | 863         | 1,72           | 2020                         | 26800            |                           |                            |     |     |
|                            | 1,8                         | 772         | 1,92           | 1807                         | 26800            |                           |                            |     |     |
|                            | 2,0                         | 695         | 2,10           | 1626                         | 26800            |                           |                            |     |     |
|                            | 2,2                         | 628         | 2,40           | 1470                         | 26800            |                           |                            |     |     |
|                            | 2,5                         | 570         | 2,60           | 1334                         | 26800            |                           |                            |     |     |
|                            | 2,7                         | 519         | 2,90           | 1215                         | 26800            |                           |                            |     |     |
|                            | 3,0                         | 470         | 3,00           | 1100                         | 26800            |                           |                            |     |     |
|                            | 3,3                         | 429         | 3,20           | 1004                         | 26800            |                           |                            |     |     |
|                            | 1,9                         | 736         | 0,88           | 1722                         | 19500            | <b>YPM</b><br><b>YPFM</b> | <b>82 İR 53 / 71 M 4b</b>  | 391 | 95  |
|                            | 2,2                         | 650         | 0,97           | 1521                         | 19500            |                           |                            | 392 | 101 |
|                            | 2,4                         | 582         | 1,10           | 1362                         | 19500            |                           |                            |     |     |
|                            | 2,7                         | 525         | 1,23           | 1229                         | 19500            |                           |                            |     |     |
|                            | 2,9                         | 475         | 1,36           | 1112                         | 19500            |                           |                            |     |     |
|                            | 3,2                         | 431         | 1,49           | 1009                         | 19500            |                           |                            |     |     |
|                            | 3,7                         | 382         | 1,69           | 894                          | 19500            |                           |                            |     |     |
|                            | 4,1                         | 343         | 1,89           | 803                          | 19500            |                           |                            |     |     |
|                            | 4,5                         | 309         | 2,10           | 723                          | 19500            |                           |                            |     |     |
|                            | 5,0                         | 280         | 2,30           | 655                          | 19500            |                           |                            |     |     |
|                            | 5,2                         | 267         | 2,30           | 625                          | 19500            |                           |                            |     |     |
|                            | 3,2                         | 444         | 1,55           | 1055                         | 19500            | <b>YPM</b><br><b>YPFM</b> | <b>82 İR 52 / 71 M 4b</b>  | 391 | 95  |
|                            | 3,6                         | 389         | 1,76           | 924                          | 19500            |                           |                            | 392 | 101 |
|                            | 4,0                         | 347         | 1,96           | 824                          | 19500            |                           |                            |     |     |
|                            | 4,5                         | 311         | 2,00           | 739                          | 19500            |                           |                            |     |     |
|                            | 5,0                         | 281         | 2,20           | 668                          | 19500            |                           |                            |     |     |
|                            | 5,6                         | 250         | 2,50           | 594                          | 19500            |                           |                            |     |     |
|                            | 6,3                         | 224         | 2,80           | 532                          | 19500            |                           |                            |     |     |
|                            | 4,2                         | 335         | 0,97           | 784                          | 13500            | <b>YPM</b><br><b>YPFM</b> | <b>73 İR 52 / 71 M 4b</b>  | 389 | 64  |
|                            | 4,7                         | 297         | 1,11           | 695                          | 13500            |                           |                            | 390 | 68  |
|                            | 5,3                         | 264         | 1,25           | 618                          | 13500            |                           |                            |     |     |
|                            | 5,7                         | 247         | 1,33           | 578                          | 13500            |                           |                            |     |     |
|                            | 6,4                         | 219         | 1,51           | 513                          | 13500            |                           |                            |     |     |
|                            | 7,2                         | 195         | 1,70           | 456                          | 13500            |                           |                            |     |     |
|                            | 2,8                         | 492         | 0,81           | 1151                         | 13500            | <b>YPM</b><br><b>YPFM</b> | <b>72 İR 53 / 71 M 4b</b>  | 389 | 63  |
|                            | 3,1                         | 445         | 0,88           | 1041                         | 13500            |                           |                            | 390 | 67  |
|                            | 3,5                         | 403         | 0,97           | 943                          | 13500            |                           |                            |     |     |
|                            | 3,7                         | 379         | 0,84           | 887                          | 13500            |                           |                            |     |     |
|                            | 4,3                         | 325         | 1,20           | 761                          | 13500            |                           |                            |     |     |
|                            | 4,7                         | 295         | 1,33           | 690                          | 13500            |                           |                            |     |     |
|                            | 5,1                         | 273         | 1,36           | 639                          | 13500            |                           |                            |     |     |
|                            | 5,3                         | 263         | 2,30           | 615                          | 13500            |                           |                            |     |     |
|                            | 5,7                         | 244         | 2,30           | 571                          | 13500            |                           |                            |     |     |





| P <sub>1</sub>      | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |       | Tip                       |                                                                                     |                                                                                     |
|---------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ                 | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |       | Type                      |                                                                                     |                                                                                     |
| Power               | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |       | Typ                       |                                                                                     |                                                                                     |
| Leistung            | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |       |                           |  |  |
| [kW]<br>Hp          | [r.p.m]                     |             |                | [Nm]                         | [N]              |       |                           |                                                                                     | kg                                                                                  |
| <b>0,37</b><br>0,50 | 6,4                         | 219         | 2,30           | 513                          | 13500            | YPM   | <b>72 İR 53 / 71 M 4b</b> | 389                                                                                 | 63                                                                                  |
|                     | 7,1                         | 197         | 2,30           | 461                          | 13500            | YPFM  |                           | 390                                                                                 | 67                                                                                  |
|                     | 7,9                         | 178         | 2,30           | 417                          | 13500            |       |                           |                                                                                     |                                                                                     |
|                     | 7,0                         | 200         | 0,84           | 468                          | 7320             | YPM   | <b>63 İR 42 / 71 M 4b</b> | 387                                                                                 | 45                                                                                  |
|                     | 8,5                         | 164         | 1,00           | 384                          | 7320             | YPFM  |                           | 388                                                                                 | 47                                                                                  |
|                     | 9,4                         | 149         | 1,10           | 349                          | 7320             |       |                           |                                                                                     |                                                                                     |
|                     | 10,4                        | 135         | 1,33           | 316                          | 7320             |       | <b>62 İR 42 / 71 M 4b</b> | 387                                                                                 | 44                                                                                  |
|                     | 7,1                         | 197         | 0,84           | 468                          | 7320             | YPM   |                           | 388                                                                                 | 45                                                                                  |
|                     | 7,8                         | 179         | 0,94           | 425                          | 7320             | YPFM  |                           |                                                                                     |                                                                                     |
|                     | 8,6                         | 162         | 1,04           | 385                          | 7320             |       | <b>93 / 90 S 8a</b>       | 379                                                                                 | 117                                                                                 |
|                     | 11,0                        | 127         | 1,30           | 302                          | 7320             |       |                           | 380                                                                                 | 120                                                                                 |
|                     | 2,4                         | 285,833     | 2,00           | 1379                         | 26800            | YPM   |                           |                                                                                     |                                                                                     |
|                     | 2,8                         | 252,350     | 2,30           | 1217                         | 26800            | YPFM  | <b>93 / 80 M 6a</b>       | 379                                                                                 | 112                                                                                 |
|                     | 3,0                         | 235,385     | 2,50           | 1136                         | 26800            |       |                           | 380                                                                                 | 115                                                                                 |
|                     | 3,1                         | 285,833     | 2,60           | 1072                         | 26800            | YPM   |                           |                                                                                     |                                                                                     |
|                     | 3,6                         | 252,350     | 3,00           | 947                          | 26800            | YPFM  | <b>83 / 80 M 6a</b>       | 377                                                                                 | 90                                                                                  |
|                     | 3,8                         | 235,385     | 3,20           | 883                          | 26800            |       |                           | 378                                                                                 | 96                                                                                  |
|                     | 4,1                         | 222,000     | 3,40           | 833                          | 26800            |       |                           |                                                                                     |                                                                                     |
|                     | 4,2                         | 213,043     | 3,60           | 799                          | 26800            | YPM   | <b>83 / 71 M 4b</b>       | 377                                                                                 | 88                                                                                  |
|                     | 4,5                         | 198,721     | 3,70           | 746                          | 26800            | YPFM  |                           | 378                                                                                 | 94                                                                                  |
|                     | 5,8                         | 242,298     | 2,50           | 584                          | 19000            |       |                           |                                                                                     |                                                                                     |
|                     | 6,7                         | 209,469     | 2,80           | 505                          | 19000            | YPM   | <b>73 / 80 M 6a</b>       | 405                                                                                 | 57                                                                                  |
|                     | 6,9                         | 201,750     | 3,00           | 487                          | 19000            | YPFM  |                           | 406                                                                                 | 61                                                                                  |
|                     | 4,2                         | 212,231     | 0,88           | 796                          | 13500            | YPPM  |                           |                                                                                     |                                                                                     |
|                     | 4,5                         | 198,053     | 0,94           | 743                          | 13500            | YPFPM | <b>73 / 80 M 6a</b>       | 375                                                                                 | 57                                                                                  |
|                     | 4,9                         | 185,369     | 1,00           | 696                          | 13500            | YPM   |                           | 376                                                                                 | 61                                                                                  |
|                     | 5,5                         | 164,458     | 1,10           | 617                          | 13500            | YPFM  |                           |                                                                                     |                                                                                     |
|                     | 6,2                         | 145,661     | 1,26           | 547                          | 13500            |       | <b>73 / 71 M 4b</b>       | 405                                                                                 | 55                                                                                  |
|                     | 7,0                         | 129,229     | 1,43           | 485                          | 13500            |       |                           | 406                                                                                 | 59                                                                                  |
|                     | 6,6                         | 212,231     | 1,35           | 512                          | 13500            | YPPM  |                           |                                                                                     |                                                                                     |
|                     | 7,1                         | 198,053     | 1,42           | 478                          | 13500            | YPFPM | <b>73 / 71 M 4b</b>       | 375                                                                                 | 55                                                                                  |
|                     | 7,6                         | 185,369     | 1,55           | 447                          | 13500            | YPM   |                           | 376                                                                                 | 59                                                                                  |
|                     | 8,5                         | 164,458     | 1,75           | 397                          | 13500            | YPFM  |                           |                                                                                     |                                                                                     |
|                     | 9,6                         | 145,661     | 1,96           | 351                          | 13500            |       | <b>63 / 80 M 6a</b>       | 373                                                                                 | 37                                                                                  |
|                     | 11                          | 129,229     | 2,20           | 312                          | 13500            |       |                           | 374                                                                                 | 39                                                                                  |
|                     | 13                          | 111,720     | 2,50           | 269                          | 13500            |       |                           |                                                                                     |                                                                                     |
|                     | 16                          | 90,289      | 3,50           | 218                          | 13500            | YPM   | <b>63 / 71 M 4b</b>       | 403                                                                                 | 35                                                                                  |
|                     | 18                          | 76,731      | 4,30           | 185                          | 13500            | YPFM  |                           | 404                                                                                 | 37                                                                                  |
|                     | 6,9                         | 130,521     | 0,81           | 490                          | 7320             |       |                           |                                                                                     |                                                                                     |
|                     | 7,4                         | 121,671     | 0,88           | 457                          | 7320             | YPM   | <b>63 / 71 M 4b</b>       |                                                                                     |                                                                                     |
|                     | 8,5                         | 105,483     | 1,00           | 396                          | 7320             | YPFM  |                           |                                                                                     |                                                                                     |
|                     | 7,4                         | 190,171     | 0,88           | 459                          | 7320             | YPPM  |                           |                                                                                     |                                                                                     |
|                     | 7,9                         | 177,468     | 0,94           | 428                          | 7320             | YPFPM | <b>63 / 71 M 4b</b>       |                                                                                     |                                                                                     |
|                     | 17                          | 82,506      | 1,89           | 199                          | 7300             |       |                           |                                                                                     |                                                                                     |
|                     |                             |             |                |                              |                  |       |                           |                                                                                     |                                                                                     |



| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                             | Tip                        |     |     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-----------------------------|----------------------------|-----|-----|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                             | Type                       |     |     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                             | Typ                        |     |     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                             |                            |     |     |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |                             |                            |     | kg  |
| <b>0,37</b><br><b>0,50</b> | 20                          | 68,901      | 2,20           | 166                          | 7300             | <b>YPPM</b><br><b>YPFPM</b> | <b>63 / 71 M 4b</b>        | 403 | 35  |
|                            | 22                          | 63,659      | 2,40           | 154                          | 7160             |                             |                            | 404 | 37  |
|                            | 24                          | 58,086      | 2,70           | 140                          | 7160             |                             |                            |     |     |
|                            | 32                          | 43,372      | 3,60           | 105                          | 7160             |                             |                            |     |     |
|                            | 8,4                         | 166,102     | 1,00           | 401                          | 7320             | <b>YPM</b><br><b>YPFM</b>   | <b>63 / 71 M 4b</b>        |     |     |
|                            | 8,9                         | 157,692     | 1,04           | 380                          | 7320             |                             |                            |     |     |
|                            | 11                          | 130,521     | 1,26           | 315                          | 7320             |                             |                            |     |     |
|                            | 12                          | 121,671     | 1,36           | 293                          | 7320             |                             |                            | 373 | 35  |
|                            | 13                          | 105,483     | 1,56           | 254                          | 7300             |                             |                            | 374 | 37  |
|                            | 15                          | 90,716      | 1,69           | 219                          | 7300             |                             |                            |     |     |
|                            | 21                          | 65,138      | 2,40           | 157                          | 7160             |                             |                            |     |     |
|                            | 27                          | 52,643      | 2,90           | 127                          | 7160             |                             |                            |     |     |
|                            | 29                          | 47,687      | 3,30           | 115                          | 7160             |                             |                            |     |     |
|                            | 15                          | 94,784      | 0,88           | 229                          | 4500             | <b>YPM</b><br><b>YPFM</b>   | <b>53 / 71 M 4b</b>        |     |     |
|                            | 17                          | 83,705      | 0,97           | 202                          | 4500             |                             |                            |     |     |
|                            | 19                          | 74,398      | 1,10           | 179                          | 4500             |                             |                            |     |     |
|                            | 21                          | 66,470      | 1,22           | 160                          | 4500             |                             |                            |     |     |
|                            | 23                          | 59,635      | 1,36           | 144                          | 4500             |                             |                            |     |     |
|                            | 26                          | 53,682      | 1,55           | 129                          | 4500             |                             |                            |     |     |
|                            | 29                          | 48,451      | 1,69           | 117                          | 4500             |                             |                            | 371 | 22  |
|                            | 32                          | 43,813      | 1,89           | 106                          | 4500             |                             |                            | 372 | 23  |
|                            | 35                          | 39,456      | 2,00           | 95                           | 4500             |                             |                            |     |     |
|                            | 40                          | 35,069      | 2,30           | 85                           | 4500             |                             |                            |     |     |
|                            | 45                          | 31,332      | 2,60           | 76                           | 4500             |                             |                            |     |     |
|                            | 50                          | 28,110      | 2,90           | 68                           | 4500             |                             |                            |     |     |
|                            | 55                          | 25,304      | 3,20           | 61                           | 4500             |                             |                            |     |     |
|                            | 61                          | 22,838      | 3,50           | 55                           | 4500             |                             |                            |     |     |
|                            | 54                          | 25,745      | 3,20           | 63                           | 3900             | <b>YPPM</b><br><b>YPFPM</b> | <b>52 / 71 M 4b</b>        | 401 | 20  |
|                            |                             |             |                |                              |                  |                             |                            | 402 | 21  |
|                            | 63                          | 22,326      | 3,70           | 55                           | 3900             | <b>YPM</b><br><b>YPFM</b>   | <b>52 / 71 M 4b</b>        |     |     |
|                            | 72                          | 19,558      | 4,20           | 48                           | 3900             |                             |                            |     |     |
|                            | 81                          | 17,272      | 4,70           | 42                           | 3900             |                             |                            |     |     |
|                            | 91                          | 15,352      | 5,30           | 38                           | 3900             |                             |                            |     |     |
|                            | 102                         | 13,716      | 5,90           | 34                           | 3500             |                             |                            |     |     |
|                            | 114                         | 12,305      | 6,70           | 30                           | 3500             |                             |                            |     |     |
|                            | 126                         | 11,077      | 7,30           | 27                           | 3500             |                             |                            | 371 | 20  |
|                            | 140                         | 9,997       | 8,00           | 24                           | 3500             |                             |                            | 372 | 21  |
|                            | 155                         | 9,041       | 8,90           | 22                           | 3500             |                             |                            |     |     |
|                            | 193                         | 7,236       | 7,60           | 18                           | 3150             |                             |                            |     |     |
|                            | 217                         | 6,465       | 8,10           | 16                           | 3150             |                             |                            |     |     |
|                            | 241                         | 5,800       | 8,90           | 14                           | 3150             |                             |                            |     |     |
|                            | 268                         | 5,221       | 9,30           | 13                           | 3150             |                             |                            |     |     |
|                            | 297                         | 4,712       | 9,70           | 12                           | 3150             |                             |                            |     |     |
|                            | 328                         | 4,262       | 10,50          | 10                           | 3150             |                             |                            |     |     |
| <b>0,55</b><br><b>0,75</b> | 0,47                        | 2971        | 0,89           | 10335                        | 61500            | <b>YPM</b><br><b>YPFM</b>   | <b>123 İR 72 / 80 M 4a</b> |     |     |
|                            | 0,53                        | 2641        | 1,00           | 9187                         | 61500            |                             |                            |     |     |
|                            | 0,59                        | 2368        | 1,11           | 8238                         | 61500            |                             |                            |     |     |
|                            | 0,65                        | 2138        | 1,23           | 7437                         | 61500            |                             |                            | 397 | 293 |
|                            | 0,72                        | 1943        | 1,35           | 6759                         | 61500            |                             |                            | 398 | 323 |
|                            | 0,79                        | 1774        | 1,48           | 6171                         | 61500            |                             |                            |     |     |
|                            | 0,86                        | 1628        | 1,62           | 5663                         | 61500            |                             |                            |     |     |
|                            | 0,98                        | 1428        | 1,79           | 4968                         | 61500            |                             |                            |     |     |



| P <sub>1</sub>             | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                            | Tip  |                                                                                     |                                                                                     |
|----------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|----------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ                        | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                            | Type |                                                                                     |                                                                                     |
| Power                      | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                            | Typ  |                                                                                     |                                                                                     |
| Leistung                   | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                            |      |  |  |
| [kW]<br>Hp                 | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                            |      |                                                                                     | kg                                                                                  |
| <b>0,55</b><br><b>0,75</b> | 1,1                         | 1290        | 2,00           | 4488                         | 61500            | YPM<br>YPFM | <b>123 İR 72 / 80 M 4a</b> |      | 397                                                                                 | 293                                                                                 |
|                            | 1,2                         | 1172        | 2,20           | 4077                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,3                         | 1070        | 2,40           | 3722                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,4                         | 982         | 2,60           | 3416                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,6                         | 875         | 2,70           | 3044                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,8                         | 773         | 3,00           | 2689                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,0                         | 687         | 3,40           | 2390                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,3                         | 614         | 3,70           | 2136                         | 61500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 0,9                         | 1610        | 0,83           | 5601                         | 31500            | YPM<br>YPFM | <b>102 İR 63 / 80 M 4a</b> |      | 395                                                                                 | 200                                                                                 |
|                            | 1,0                         | 1462        | 0,83           | 5086                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,1                         | 1333        | 0,83           | 4637                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,1                         | 1218        | 0,83           | 4237                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,3                         | 1113        | 0,83           | 3872                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,5                         | 954         | 1,42           | 3319                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,6                         | 855         | 1,55           | 2974                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,8                         | 770         | 1,75           | 2679                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,0                         | 696         | 1,88           | 2421                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,2                         | 633         | 2,00           | 2202                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,4                         | 576         | 2,00           | 2004                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,7                         | 521         | 2,40           | 1812                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,9                         | 475         | 2,40           | 1652                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,2                         | 434         | 2,40           | 1510                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,9                         | 358         | 2,40           | 1245                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 4,8                         | 293         | 2,40           | 1019                         | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 5,8                         | 243         | 2,40           | 845                          | 31500            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,2                         | 1200        | 0,83           | 4174                         | 26800            | YPM<br>YPFM | <b>92 İR 63 / 80 M 4a</b>  |      | 393                                                                                 | 123                                                                                 |
|                            | 1,3                         | 1096        | 0,92           | 3813                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,6                         | 863         | 1,16           | 3002                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 1,8                         | 772         | 1,29           | 2686                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,0                         | 695         | 1,41           | 2418                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,2                         | 628         | 1,61           | 2185                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,5                         | 570         | 1,75           | 1983                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,7                         | 519         | 1,95           | 1805                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,0                         | 470         | 2,00           | 1635                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,3                         | 429         | 2,20           | 1492                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,6                         | 393         | 2,30           | 1367                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,9                         | 360         | 2,50           | 1252                         | 26800            |             |                            |      |                                                                                     |                                                                                     |
|                            | 4,9                         | 288         | 3,10           | 1017                         | 26000            | YPM<br>YPFM | <b>92 İR 62 / 80 M 4a</b>  |      | 393                                                                                 | 122                                                                                 |
|                            | 5,5                         | 253         | 3,50           | 894                          | 26000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 6,2                         | 225         | 3,90           | 795                          | 26000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 2,7                         | 525         | 0,83           | 1826                         | 19000            | YPM<br>YPFM | <b>82 İR 53 / 80 M 4a</b>  |      | 391                                                                                 | 97                                                                                  |
|                            | 2,9                         | 475         | 0,92           | 1652                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,2                         | 431         | 1,00           | 1499                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,7                         | 382         | 1,14           | 1329                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 4,1                         | 343         | 1,27           | 1193                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 4,5                         | 309         | 1,41           | 1075                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 5,0                         | 280         | 1,55           | 974                          | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 5,2                         | 267         | 1,59           | 929                          | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 5,5                         | 254         | 2,00           | 884                          | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 3,2                         | 444         | 1,04           | 1568                         | 19000            | YPM<br>YPFM | <b>82 İR 52 / 80 M 4a</b>  |      | 391                                                                                 | 97                                                                                  |
|                            | 3,6                         | 389         | 1,18           | 1374                         | 19000            |             |                            |      |                                                                                     |                                                                                     |
|                            | 4,0                         | 347         | 1,32           | 1225                         | 19000            |             |                            |      |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                       |     |     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|---------------------------|-----|-----|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                      |     |     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                       |     |     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                           |     |     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                           |     | kg  |
| <b>0,55</b>    | 4,5                         | 311         | 1,36           | 1098                         | 19000            |      |                           |     |     |
|                | 5,0                         | 281         | 1,50           | 992                          | 19000            | YPM  | <b>82 iR 52 / 80 M 4a</b> | 391 | 97  |
| 0,75           | 5,6                         | 250         | 1,73           | 883                          | 19000            | YPFM |                           | 392 | 103 |
|                | 6,3                         | 224         | 1,91           | 791                          | 19000            |      |                           |     |     |
|                | 5,3                         | 264         | 0,84           | 918                          | 13500            |      |                           |     |     |
|                | 5,7                         | 247         | 0,89           | 859                          | 13500            | YPM  | <b>73 iR 52 / 80 M 4a</b> | 389 | 66  |
|                | 6,4                         | 219         | 1,01           | 762                          | 13500            | YPFM |                           | 390 | 70  |
|                | 7,2                         | 195         | 1,14           | 678                          | 13500            |      |                           |     |     |
|                | 4,3                         | 325         | 0,81           | 1131                         | 13500            |      |                           |     |     |
|                | 4,7                         | 295         | 0,89           | 1026                         | 13500            |      | <b>72 iR 53 / 80 M 4a</b> |     |     |
|                | 5,1                         | 273         | 0,92           | 950                          | 13500            |      |                           |     |     |
|                | 5,3                         | 263         | 1,55           | 915                          | 13500            | YPM  |                           | 389 | 65  |
|                | 5,7                         | 244         | 1,55           | 849                          | 13500            | YPFM |                           | 390 | 69  |
|                | 6,4                         | 219         | 1,55           | 762                          | 13500            |      |                           |     |     |
|                | 7,1                         | 197         | 1,55           | 685                          | 13500            |      |                           |     |     |
|                | 7,9                         | 178         | 1,55           | 619                          | 13500            |      |                           |     |     |
|                | 2,6                         | 270,11      | 2,10           | 1937                         | 31500            |      | <b>103 / 90 L 8a</b>      |     |     |
|                | 2,8                         | 251,95      | 2,30           | 1807                         | 31500            | YPM  |                           | 381 | 198 |
|                | 3,2                         | 221,37      | 2,60           | 1587                         | 31500            | YPFM |                           | 382 | 218 |
|                | 3,6                         | 196,61      | 3,00           | 1410                         | 31500            |      |                           |     |     |
|                | 2,4                         | 285,833     | 1,35           | 2050                         | 26000            |      | <b>93 / 90 L 8a</b>       |     |     |
|                | 2,8                         | 252,350     | 1,55           | 1810                         | 26000            | YPM  |                           | 379 | 119 |
|                | 3,0                         | 235,385     | 1,68           | 1688                         | 26000            | YPFM |                           | 380 | 122 |
|                | 3,1                         | 285,833     | 1,75           | 1594                         | 26000            |      | <b>93 / 80 M 6b</b>       |     |     |
|                | 3,6                         | 252,350     | 2,00           | 1407                         | 26000            |      |                           |     |     |
|                | 3,8                         | 235,385     | 2,20           | 1313                         | 26000            | YPM  |                           | 379 | 113 |
|                | 4,1                         | 222,000     | 2,30           | 1238                         | 26000            | YPFM |                           | 380 | 116 |
|                | 4,2                         | 213,043     | 2,40           | 1188                         | 26000            |      |                           |     |     |
|                | 4,5                         | 198,721     | 2,50           | 1108                         | 26000            |      |                           |     |     |
|                | 4,9                         | 285,833     | 2,70           | 1025                         | 26000            |      | <b>93 / 80 M 4a</b>       |     |     |
|                | 5,5                         | 252,350     | 3,10           | 905                          | 26000            | YPM  |                           | 379 | 112 |
|                | 5,9                         | 235,385     | 3,20           | 844                          | 26000            | YPFM |                           | 380 | 115 |
|                | 6,3                         | 222,000     | 3,50           | 796                          | 26000            |      |                           |     |     |
|                | 6,6                         | 213,043     | 3,70           | 764                          | 26000            |      |                           |     |     |
|                | 3,7                         | 242,298     | 1,05           | 1351                         | 18500            |      | <b>83 / 80 M 6b</b>       |     |     |
|                | 4,3                         | 209,469     | 1,24           | 1168                         | 18500            | YPM  |                           | 377 | 91  |
|                | 4,5                         | 201,750     | 1,28           | 1125                         | 18500            | YPFM |                           | 378 | 97  |
|                | 5,2                         | 174,415     | 1,47           | 973                          | 18500            |      |                           |     |     |
|                | 5,8                         | 242,298     | 1,68           | 869                          | 18500            |      | <b>83 / 80 M 4a</b>       |     |     |
|                | 6,7                         | 209,469     | 1,88           | 751                          | 18500            |      |                           |     |     |
|                | 6,9                         | 201,750     | 2,00           | 723                          | 18500            |      |                           |     |     |
|                | 8,0                         | 174,415     | 2,30           | 625                          | 18500            |      |                           |     |     |
|                | 9,0                         | 156,126     | 2,60           | 560                          | 18500            | YPM  |                           | 377 | 90  |
|                | 9,1                         | 153,809     | 2,60           | 551                          | 18500            | YPFM |                           | 378 | 96  |
|                | 10                          | 137,681     | 2,90           | 494                          | 18500            |      |                           |     |     |
|                | 11                          | 122,443     | 3,30           | 439                          | 18500            |      |                           |     |     |
|                | 13                          | 109,644     | 3,60           | 393                          | 18500            |      |                           |     |     |
|                | 14                          | 98,855      | 4,00           | 354                          | 18500            |      |                           |     |     |
|                | 6,2                         | 145,661     | 0,85           | 812                          | 13500            | YPM  | <b>73 / 80 M 6b</b>       | 375 | 58  |
|                | 7,0                         | 129,229     | 0,96           | 721                          | 13500            | YPFM |                           | 376 | 62  |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |               | Tip                 |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |               | Type                |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |               | Typ                 |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |               |                     |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |               |                     |                                                                                     | kg                                                                                  |
| <b>0,55</b>    | 6,6                         | 212,231     | 0,90           | 761                          | 13000            | YPM           | <b>73 / 80 M 4a</b> | 375                                                                                 | 57                                                                                  |
|                | 7,1                         | 198,053     | 0,95           | 710                          | 13000            | YPFM          |                     | 376                                                                                 | 61                                                                                  |
| <b>0,75</b>    | 7,6                         | 185,369     | 1,05           | 665                          | 13000            |               | <b>73 / 80 M 4a</b> |                                                                                     |                                                                                     |
|                | 8,5                         | 164,458     | 1,18           | 590                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 9,6                         | 145,661     | 1,32           | 522                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 11                          | 129,229     | 1,50           | 463                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 13                          | 111,720     | 1,72           | 401                          | 13000            | YPM           |                     | 375                                                                                 | 57                                                                                  |
|                | 16                          | 90,289      | 2,40           | 324                          | 13000            | YPFM          |                     | 376                                                                                 | 61                                                                                  |
|                | 18                          | 76,731      | 2,90           | 275                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 20                          | 69,508      | 3,20           | 249                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 22                          | 63,217      | 3,50           | 227                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 27                          | 52,793      | 4,20           | 189                          | 13000            |               |                     |                                                                                     |                                                                                     |
|                | 11                          | 130,521     | 0,85           | 468                          | 7250             |               |                     |                                                                                     |                                                                                     |
|                | 12                          | 121,671     | 0,92           | 436                          | 7250             |               |                     |                                                                                     |                                                                                     |
|                | 13                          | 105,483     | 1,05           | 378                          | 7250             |               |                     |                                                                                     |                                                                                     |
|                | 15                          | 90,716      | 1,14           | 325                          | 7100             |               |                     |                                                                                     |                                                                                     |
|                | 17                          | 82,506      | 1,27           | 296                          | 7100             |               |                     |                                                                                     |                                                                                     |
|                | 20                          | 68,901      | 1,50           | 247                          | 7100             |               |                     |                                                                                     |                                                                                     |
|                | 21                          | 65,138      | 1,59           | 234                          | 7100             | YPM           | <b>63 / 80 M 4a</b> | 373                                                                                 | 37                                                                                  |
|                | 22                          | 63,659      | 1,63           | 228                          | 7100             | YPFM          |                     | 374                                                                                 | 39                                                                                  |
|                | 24                          | 58,086      | 1,79           | 208                          | 6900             |               |                     |                                                                                     |                                                                                     |
|                | 27                          | 52,643      | 1,97           | 189                          | 6900             |               |                     |                                                                                     |                                                                                     |
|                | 29                          | 47,687      | 2,20           | 171                          | 6900             |               |                     |                                                                                     |                                                                                     |
|                | 32                          | 43,372      | 2,40           | 156                          | 6900             |               |                     |                                                                                     |                                                                                     |
|                | 39                          | 36,220      | 2,90           | 130                          | 6720             |               |                     |                                                                                     |                                                                                     |
|                | 46                          | 30,535      | 3,40           | 109                          | 6720             |               |                     |                                                                                     |                                                                                     |
|                | 21                          | 66,470      | 0,82           | 238                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 23                          | 59,635      | 0,92           | 214                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 26                          | 53,682      | 1,05           | 192                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 29                          | 48,451      | 1,14           | 174                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 32                          | 43,813      | 1,27           | 157                          | 4250             | YPM           | <b>53 / 80 M 4a</b> | 371                                                                                 | 24                                                                                  |
|                | 35                          | 39,456      | 1,36           | 141                          | 4250             | YPFM          |                     | 372                                                                                 | 25                                                                                  |
|                | 40                          | 35,069      | 1,55           | 126                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 45                          | 31,332      | 1,75           | 112                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 50                          | 28,110      | 1,95           | 101                          | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 55                          | 25,304      | 2,20           | 91                           | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 61                          | 22,838      | 2,40           | 82                           | 4250             |               |                     |                                                                                     |                                                                                     |
|                | 54                          | 25,745      | 2,10           | 94                           | 3710             | YPPM<br>YPFPM | <b>52 / 80 M 4a</b> | 401<br>402                                                                          | 22<br>23                                                                            |
|                | 63                          | 22,326      | 2,50           | 81                           | 3710             |               |                     |                                                                                     |                                                                                     |
|                | 72                          | 19,558      | 2,80           | 71                           | 3710             |               | <b>52 / 80 M 4a</b> |                                                                                     |                                                                                     |
|                | 81                          | 17,272      | 3,10           | 63                           | 3710             |               |                     |                                                                                     |                                                                                     |
|                | 91                          | 15,352      | 3,50           | 56                           | 3710             |               |                     |                                                                                     |                                                                                     |
|                | 102                         | 13,716      | 3,90           | 50                           | 3310             |               |                     |                                                                                     |                                                                                     |
|                | 114                         | 12,305      | 4,50           | 45                           | 3310             | YPM           |                     | 371                                                                                 | 22                                                                                  |
|                | 126                         | 11,077      | 4,90           | 40                           | 3310             | YPFM          |                     | 372                                                                                 | 23                                                                                  |
|                | 140                         | 9,997       | 5,40           | 36                           | 3310             |               |                     |                                                                                     |                                                                                     |
|                | 155                         | 9,041       | 6,00           | 33                           | 3310             |               |                     |                                                                                     |                                                                                     |
|                | 163                         | 8,590       | 6,20           | 31                           | 3000             |               |                     |                                                                                     |                                                                                     |
|                | 184                         | 7,602       | 7,10           | 28                           | 3000             |               |                     |                                                                                     |                                                                                     |
|                | 193                         | 7,236       | 5,10           | 26                           | 3000             |               |                     |                                                                                     |                                                                                     |
|                | 217                         | 6,465       | 5,50           | 24                           | 3000             |               |                     |                                                                                     |                                                                                     |





| P <sub>1</sub>                 | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                        |     |     |
|--------------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|----------------------------|-----|-----|
| GÜÇ                            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                       |     |     |
| Power                          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                        |     |     |
| Leistung                       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                            |     |     |
| [kW]<br>Hp                     | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                            |     | kg  |
| <b>0,55</b><br><br><b>0,75</b> | 241                         | 5,800       | 6,00           | 21                           | 3000             |      |                            |     |     |
|                                | 268                         | 5,221       | 6,30           | 19                           | 3000             |      |                            |     |     |
|                                | 297                         | 4,712       | 6,50           | 17                           | 3000             | YPM  | <b>52 / 80 M 4a</b>        | 371 | 22  |
|                                | 328                         | 4,262       | 7,10           | 16                           | 3000             | YPFM |                            | 372 | 23  |
|                                | 346                         | 4,049       | 10,40          | 15                           | 3000             |      |                            |     |     |
|                                | 391                         | 3,583       | 10,90          | 13                           | 3000             |      |                            |     |     |
| <b>0,75</b><br><br><b>1</b>    | 0,59                        | 2368        | 0,81           | 11233                        | 61500            |      |                            |     |     |
|                                | 0,65                        | 2138        | 0,90           | 10142                        | 61500            |      |                            |     |     |
|                                | 0,72                        | 1943        | 0,99           | 9217                         | 61500            |      |                            |     |     |
|                                | 0,79                        | 1774        | 1,08           | 8415                         | 61500            |      |                            |     |     |
|                                | 0,86                        | 1628        | 1,19           | 7723                         | 61500            |      |                            |     |     |
|                                | 0,98                        | 1428        | 1,31           | 6774                         | 61500            |      |                            |     |     |
|                                | 1,1                         | 1290        | 1,47           | 6119                         | 61500            |      |                            |     |     |
|                                | 1,2                         | 1172        | 1,61           | 5560                         | 61500            |      |                            |     |     |
|                                | 1,3                         | 1070        | 1,76           | 5076                         | 61500            | YPM  | <b>123 İR 72 / 80 M 4b</b> | 397 | 295 |
|                                | 1,4                         | 982         | 1,91           | 4658                         | 61500            | YPFM |                            | 398 | 325 |
|                                | 1,6                         | 875         | 1,98           | 4151                         | 61500            |      |                            |     |     |
|                                | 1,8                         | 773         | 2,20           | 3667                         | 61500            |      |                            |     |     |
|                                | 2,0                         | 687         | 2,50           | 3259                         | 61500            |      |                            |     |     |
|                                | 2,3                         | 614         | 2,70           | 2913                         | 61500            |      |                            |     |     |
|                                | 2,5                         | 551         | 2,90           | 2614                         | 61500            |      |                            |     |     |
|                                | 2,8                         | 496         | 3,20           | 2353                         | 61500            |      |                            |     |     |
|                                | 3,1                         | 448         | 3,50           | 2125                         | 61500            |      |                            |     |     |
|                                | 3,5                         | 405         | 3,80           | 1921                         | 61500            |      |                            |     |     |
|                                | 1,5                         | 954         | 1,04           | 4525                         | 31250            |      |                            |     |     |
|                                | 1,6                         | 855         | 1,13           | 4056                         | 31250            |      |                            |     |     |
|                                | 1,8                         | 770         | 1,28           | 3653                         | 31250            |      |                            |     |     |
|                                | 2,0                         | 696         | 1,38           | 3302                         | 31250            |      |                            |     |     |
|                                | 2,2                         | 633         | 1,48           | 3003                         | 31250            |      |                            |     |     |
|                                | 2,4                         | 576         | 1,48           | 2732                         | 31250            | YPM  | <b>102 İR 63 / 80 M 4b</b> | 395 | 202 |
|                                | 2,7                         | 521         | 1,77           | 2471                         | 31250            | YPFM |                            | 396 | 222 |
|                                | 2,9                         | 475         | 1,77           | 2253                         | 31250            |      |                            |     |     |
|                                | 3,2                         | 434         | 1,77           | 2059                         | 31250            |      |                            |     |     |
|                                | 3,9                         | 358         | 1,77           | 1698                         | 31250            |      |                            |     |     |
|                                | 4,8                         | 293         | 1,77           | 1390                         | 31250            |      |                            |     |     |
|                                | 5,8                         | 243         | 1,77           | 1153                         | 31250            |      |                            |     |     |
|                                | 1,6                         | 863         | 0,85           | 4094                         | 25000            |      |                            |     |     |
|                                | 1,8                         | 772         | 0,95           | 3662                         | 25000            |      |                            |     |     |
|                                | 2,0                         | 695         | 1,04           | 3297                         | 25000            |      |                            |     |     |
|                                | 2,2                         | 628         | 1,18           | 2979                         | 25000            |      |                            |     |     |
|                                | 2,5                         | 570         | 1,28           | 2704                         | 25000            | YPM  | <b>92 İR 63 / 80 M 4b</b>  | 393 | 125 |
|                                | 2,7                         | 519         | 1,43           | 2462                         | 25000            | YPFM |                            | 394 | 128 |
|                                | 3,0                         | 470         | 1,48           | 2230                         | 25000            |      |                            |     |     |
|                                | 3,3                         | 429         | 1,58           | 2035                         | 25000            |      |                            |     |     |
|                                | 3,6                         | 393         | 1,73           | 1864                         | 25000            |      |                            |     |     |
|                                | 3,9                         | 360         | 1,87           | 1708                         | 25000            |      |                            |     |     |
|                                | 4,9                         | 288         | 2,20           | 1387                         | 25000            | YPM  | <b>92 İR 62 / 80 M 4b</b>  | 393 | 124 |
|                                | 5,5                         | 253         | 2,50           | 1218                         | 25000            | YPFM |                            | 394 | 127 |
|                                | 6,2                         | 225         | 2,90           | 1084                         | 25000            |      |                            |     |     |
|                                | 3,7                         | 382         | 0,83           | 1812                         | 18500            | YPM  | <b>82 İR 53 / 80 M 4b</b>  | 391 | 99  |
|                                | 4,1                         | 343         | 0,93           | 1627                         | 18500            | YPFM |                            | 392 | 105 |
|                                | 4,5                         | 309         | 1,03           | 1466                         | 18500            |      |                            |     |     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                       |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                      |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                       |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                           |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                           |                                                                                     | kg                                                                                  |
| <b>0,75</b>    | 5,0                         | 280         | 1,13           | 1328                         | 18500            | YPM  | <b>82 İR 53 / 80 M 4b</b> | 391                                                                                 | 99                                                                                  |
|                | 5,2                         | 267         | 1,17           | 1267                         | 18500            | YPFM |                           | 392                                                                                 | 105                                                                                 |
|                | 5,5                         | 254         | 1,47           | 1205                         | 18500            |      |                           |                                                                                     |                                                                                     |
| 1              | 3,6                         | 389         | 0,87           | 1873                         | 18500            |      | <b>82 İR 52 / 80 M 4b</b> | 391                                                                                 | 99                                                                                  |
|                | 4,0                         | 347         | 0,97           | 1671                         | 18500            | YPM  |                           | 392                                                                                 | 105                                                                                 |
|                | 4,5                         | 311         | 1,00           | 1498                         | 18500            | YPFM |                           |                                                                                     |                                                                                     |
|                | 5,0                         | 281         | 1,10           | 1353                         | 18500            |      | <b>123 / 100 L 8a</b>     | 383                                                                                 | 275                                                                                 |
|                | 5,6                         | 250         | 1,27           | 1204                         | 18500            |      |                           | 384                                                                                 | 305                                                                                 |
|                | 6,3                         | 224         | 1,40           | 1079                         | 18500            |      |                           |                                                                                     |                                                                                     |
|                | 2,8                         | 249,866     | 3,10           | 2443                         | 61500            | YPM  | <b>103 / 100 L 8a</b>     | 381                                                                                 | 202                                                                                 |
|                | 3,2                         | 219,677     | 3,50           | 2148                         | 61500            | YPFM |                           | 382                                                                                 | 222                                                                                 |
|                | 3,6                         | 195,237     | 4,00           | 1909                         | 61500            |      |                           |                                                                                     |                                                                                     |
|                | 2,6                         | 270,11      | 1,56           | 2641                         | 31250            |      | <b>103 / 90 S 6a</b>      | 381                                                                                 | 196                                                                                 |
|                | 2,8                         | 251,95      | 1,67           | 2464                         | 31250            | YPM  |                           | 382                                                                                 | 216                                                                                 |
|                | 3,2                         | 221,37      | 1,90           | 2165                         | 31250            | YPFM |                           |                                                                                     |                                                                                     |
|                | 3,6                         | 196,61      | 2,20           | 1923                         | 31250            |      | <b>93 / 100 L 8a</b>      | 379                                                                                 | 123                                                                                 |
|                | 3,3                         | 270,11      | 2,00           | 2054                         | 31250            |      |                           | 380                                                                                 | 126                                                                                 |
|                | 3,6                         | 251,95      | 2,10           | 1916                         | 31250            |      |                           |                                                                                     |                                                                                     |
|                | 4,1                         | 221,37      | 2,40           | 1684                         | 31250            | YPM  | <b>93 / 90 S 6a</b>       | 379                                                                                 | 117                                                                                 |
|                | 4,6                         | 196,61      | 2,80           | 1495                         | 31250            | YPFM |                           | 380                                                                                 | 120                                                                                 |
|                | 5,0                         | 180,75      | 3,00           | 1375                         | 31250            |      |                           |                                                                                     |                                                                                     |
|                | 5,6                         | 160,54      | 3,20           | 1221                         | 31250            |      | <b>93 / 80 M 4b</b>       | 379                                                                                 | 114                                                                                 |
|                | 2,4                         | 285,833     | 0,99           | 2795                         | 25000            | YPM  |                           | 380                                                                                 | 117                                                                                 |
|                | 2,8                         | 252,350     | 1,13           | 2468                         | 25000            | YPFM |                           |                                                                                     |                                                                                     |
|                | 3,0                         | 235,385     | 1,23           | 2302                         | 25000            |      | <b>83 / 90 S 6a</b>       | 377                                                                                 | 95                                                                                  |
|                | 3,1                         | 285,833     | 1,28           | 2174                         | 24000            |      |                           | 378                                                                                 | 101                                                                                 |
|                | 3,6                         | 252,350     | 1,48           | 1919                         | 24000            |      |                           |                                                                                     |                                                                                     |
|                | 3,8                         | 235,385     | 1,58           | 1790                         | 24000            | YPM  | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 4,1                         | 222,000     | 1,68           | 1688                         | 24000            | YPFM |                           | 378                                                                                 | 98                                                                                  |
|                | 4,2                         | 213,043     | 1,76           | 1620                         | 24000            |      |                           |                                                                                     |                                                                                     |
|                | 4,5                         | 198,721     | 1,83           | 1511                         | 24000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 4,9                         | 285,833     | 2,00           | 1398                         | 24000            |      |                           | 378                                                                                 | 98                                                                                  |
|                | 5,5                         | 252,350     | 2,30           | 1234                         | 24000            |      |                           |                                                                                     |                                                                                     |
|                | 5,9                         | 235,385     | 2,40           | 1151                         | 24000            | YPM  | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 6,3                         | 222,000     | 2,60           | 1085                         | 24000            | YPFM |                           | 378                                                                                 | 98                                                                                  |
|                | 6,6                         | 213,043     | 2,70           | 1042                         | 24000            |      |                           |                                                                                     |                                                                                     |
|                | 7,0                         | 198,721     | 2,90           | 972                          | 24000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 4,3                         | 209,469     | 0,91           | 1593                         | 18000            | YPM  |                           | 378                                                                                 | 98                                                                                  |
|                | 5,2                         | 174,415     | 1,08           | 1327                         | 18000            | YPFM |                           |                                                                                     |                                                                                     |
|                | 5,8                         | 242,298     | 1,68           | 1185                         | 18000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 6,7                         | 209,469     | 1,88           | 1024                         | 18000            |      |                           | 378                                                                                 | 98                                                                                  |
|                | 6,9                         | 201,750     | 2,00           | 986                          | 18000            |      |                           |                                                                                     |                                                                                     |
|                | 8,0                         | 174,415     | 2,30           | 853                          | 18000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 9,0                         | 156,126     | 2,60           | 763                          | 18000            | YPM  |                           | 378                                                                                 | 98                                                                                  |
|                | 9,1                         | 153,809     | 2,60           | 752                          | 18000            | YPFM |                           |                                                                                     |                                                                                     |
|                | 10                          | 137,681     | 2,90           | 673                          | 18000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 11                          | 122,443     | 3,30           | 599                          | 18000            |      |                           | 378                                                                                 | 98                                                                                  |
|                | 13                          | 109,644     | 3,60           | 536                          | 18000            |      |                           |                                                                                     |                                                                                     |
|                | 14                          | 98,855      | 4,00           | 483                          | 18000            |      | <b>83 / 80 M 4b</b>       | 377                                                                                 | 92                                                                                  |
|                | 16                          | 89,024      | 3,30           | 435                          | 18000            |      |                           | 378                                                                                 | 98                                                                                  |
|                |                             |             |                |                              |                  |      |                           |                                                                                     |                                                                                     |



| P <sub>1</sub>   | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |       |        |
|------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------|--------|
| GÜÇ              | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip   |        |
| Power            | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type  |        |
| Leistung         | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ   |        |
| [kW]<br>Hp       | [r.p.m]                     |             |                | [Nm]                         | [N]              |       | kg     |
| <b>0,75</b><br>1 | 8,5                         | 164,458     | 0,87           | 804                          | 12750            |       |        |
|                  | 9,6                         | 145,661     | 0,96           | 712                          | 12750            |       |        |
|                  | 11                          | 129,229     | 1,10           | 632                          | 12750            |       |        |
|                  | 13                          | 111,720     | 1,27           | 546                          | 12750            |       |        |
|                  | 16                          | 90,289      | 1,76           | 441                          | 12750            | YPM   |        |
|                  | 18                          | 76,731      | 2,10           | 375                          | 12300            | YPFM  |        |
|                  | 20                          | 69,508      | 2,30           | 340                          | 12300            |       | 375 59 |
|                  | 22                          | 63,217      | 2,50           | 309                          | 12300            |       | 376 63 |
|                  | 27                          | 52,793      | 3,10           | 258                          | 12300            |       |        |
|                  | 31                          | 44,507      | 3,60           | 218                          | 12300            |       |        |
|                  | 15                          | 90,716      | 0,83           | 444                          | 6700             |       |        |
|                  | 17                          | 82,506      | 0,93           | 403                          | 6690             |       |        |
|                  | 20                          | 68,901      | 1,10           | 337                          | 6690             |       |        |
|                  | 21                          | 65,138      | 1,17           | 318                          | 6690             |       |        |
|                  | 22                          | 63,659      | 1,20           | 311                          | 6600             | YPM   |        |
|                  | 24                          | 58,086      | 1,31           | 284                          | 6600             | YPFM  |        |
|                  | 27                          | 52,643      | 1,44           | 257                          | 6600             |       | 373 38 |
|                  | 29                          | 47,687      | 1,61           | 233                          | 6400             |       | 374 41 |
|                  | 32                          | 43,372      | 1,76           | 212                          | 6400             |       |        |
|                  | 39                          | 36,220      | 2,10           | 177                          | 6400             |       |        |
|                  | 46                          | 30,535      | 2,50           | 149                          | 6400             |       |        |
|                  | 44                          | 31,538      | 2,60           | 157                          | 6420             |       |        |
|                  | 56                          | 24,782      | 3,20           | 123                          | 6420             | YPM   |        |
|                  | 61                          | 23,102      | 3,50           | 115                          | 6420             | YPFM  |        |
|                  | 70                          | 20,028      | 4,10           | 99                           | 6420             |       | 373 34 |
|                  | 77                          | 18,153      | 4,40           | 90                           | 6420             |       | 374 36 |
|                  | 29                          | 48,451      | 0,83           | 237                          | 4000             |       |        |
|                  | 32                          | 43,813      | 0,93           | 214                          | 4000             |       |        |
|                  | 35                          | 39,456      | 1,00           | 193                          | 4000             |       |        |
|                  | 40                          | 35,069      | 1,13           | 171                          | 4000             | YPM   |        |
|                  | 45                          | 31,332      | 1,28           | 153                          | 4000             | YPFM  |        |
|                  | 50                          | 28,110      | 1,43           | 137                          | 4000             |       | 371 25 |
|                  | 55                          | 25,304      | 1,58           | 124                          | 4000             |       | 372 27 |
|                  | 61                          | 22,838      | 1,73           | 112                          | 4000             |       |        |
|                  | 54                          | 25,745      | 1,57           | 128                          | 3580             | YPPM  | 401 23 |
|                  |                             |             |                |                              |                  | YPFPM | 402 25 |
|                  | 63                          | 22,326      | 1,81           | 111                          | 3580             |       |        |
|                  | 72                          | 19,558      | 2,10           | 97                           | 3580             |       |        |
|                  | 81                          | 17,272      | 2,30           | 86                           | 3580             |       |        |
|                  | 91                          | 15,352      | 2,60           | 76                           | 3580             |       |        |
|                  | 102                         | 13,716      | 2,90           | 68                           | 3180             |       |        |
|                  | 114                         | 12,305      | 3,30           | 61                           | 3180             |       |        |
|                  | 126                         | 11,077      | 3,60           | 55                           | 3180             |       |        |
|                  | 140                         | 9,997       | 3,90           | 50                           | 3180             | YPM   |        |
|                  | 155                         | 9,041       | 4,40           | 45                           | 3180             | YPFM  |        |
|                  | 163                         | 8,590       | 4,50           | 43                           | 2870             |       | 371 23 |
|                  | 184                         | 7,602       | 5,20           | 38                           | 2870             |       | 372 25 |
|                  | 193                         | 7,236       | 3,80           | 36                           | 2870             |       |        |
|                  | 217                         | 6,465       | 4,00           | 32                           | 2870             |       |        |
|                  | 241                         | 5,800       | 4,40           | 29                           | 2870             |       |        |
|                  | 268                         | 5,221       | 4,60           | 26                           | 2870             |       |        |
|                  | 346                         | 4,049       | 4,80           | 20                           | 2870             |       |        |



| P <sub>1</sub>    | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                        |     |     |
|-------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|----------------------------|-----|-----|
| GÜÇ               | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                       |     |     |
| Power             | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                        |     |     |
| Leistung          | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                            |     |     |
| [kW]<br>Hp        | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                            |     | kg  |
| <b>0,75</b><br>1  | 328                         | 4,262       | 5,20           | 21                           | 2870             | YPM  | <b>52 / 80 M 4b</b>        | 371 | 23  |
|                   | 346                         | 4,049       | 7,60           | 20                           | 2870             | YPFM |                            | 372 | 25  |
|                   | 391                         | 3,583       | 8,00           | 18                           | 2870             |      |                            |     |     |
| <b>1,1</b><br>1,5 | 0,86                        | 1628        | 0,81           | 11327                        | 61500            |      | <b>123 İR 72 / 90 S 4a</b> |     |     |
|                   | 0,98                        | 1428        | 0,90           | 9935                         | 61500            |      |                            |     |     |
|                   | 1,1                         | 1290        | 1,00           | 8975                         | 61500            |      |                            |     |     |
|                   | 1,2                         | 1172        | 1,10           | 8154                         | 61500            |      |                            |     |     |
|                   | 1,3                         | 1070        | 1,20           | 7444                         | 61500            |      |                            |     |     |
|                   | 1,4                         | 982         | 1,30           | 6832                         | 61500            |      |                            |     |     |
|                   | 1,6                         | 875         | 1,35           | 6088                         | 61500            |      |                            |     |     |
|                   | 1,8                         | 773         | 1,50           | 5378                         | 61500            | YPM  |                            |     |     |
|                   | 2,0                         | 687         | 1,70           | 4780                         | 61500            | YPFM |                            | 397 | 298 |
|                   | 2,3                         | 614         | 1,85           | 4272                         | 61500            |      |                            | 398 | 328 |
|                   | 2,5                         | 551         | 2,00           | 3834                         | 61500            |      |                            |     |     |
|                   | 2,8                         | 496         | 2,20           | 3451                         | 61500            |      |                            |     |     |
|                   | 3,1                         | 448         | 2,40           | 3117                         | 61500            |      |                            |     |     |
|                   | 3,5                         | 405         | 2,60           | 2818                         | 61500            |      |                            |     |     |
|                   | 3,8                         | 366         | 2,80           | 2546                         | 61500            |      |                            |     |     |
|                   | 4,2                         | 332         | 2,90           | 2310                         | 61500            |      |                            |     |     |
|                   | 4,5                         | 309         | 3,40           | 2150                         | 61500            |      |                            |     |     |
|                   | 1,8                         | 770         | 0,87           | 5357                         | 30500            |      | <b>102 İR 63 / 90 S 4a</b> |     |     |
|                   | 2,0                         | 696         | 0,94           | 4842                         | 30500            |      |                            |     |     |
|                   | 2,2                         | 633         | 1,00           | 4404                         | 30500            |      |                            |     |     |
|                   | 2,4                         | 576         | 1,00           | 4007                         | 30500            |      |                            |     |     |
|                   | 2,7                         | 521         | 1,21           | 3625                         | 30500            | YPM  |                            | 395 | 206 |
|                   | 2,9                         | 475         | 1,21           | 3305                         | 30500            | YPFM |                            | 396 | 226 |
|                   | 3,2                         | 434         | 1,21           | 3020                         | 30500            |      |                            |     |     |
|                   | 3,9                         | 358         | 1,21           | 2491                         | 30500            |      |                            |     |     |
|                   | 4,8                         | 293         | 1,21           | 2039                         | 30500            |      |                            |     |     |
|                   | 5,8                         | 243         | 1,21           | 1691                         | 30500            |      |                            |     |     |
|                   | 2,2                         | 628         | 0,81           | 4369                         | 23000            |      | <b>92 İR 63 / 90 S 4a</b>  |     |     |
|                   | 2,5                         | 570         | 0,87           | 3966                         | 23000            |      |                            |     |     |
|                   | 2,7                         | 519         | 0,98           | 3611                         | 23000            | YPM  |                            | 393 | 128 |
|                   | 3,0                         | 470         | 1,00           | 3270                         | 23000            | YPFM |                            | 394 | 131 |
|                   | 3,3                         | 429         | 1,08           | 2985                         | 23000            |      |                            |     |     |
|                   | 3,6                         | 393         | 1,18           | 2734                         | 23000            |      |                            |     |     |
|                   | 3,9                         | 360         | 1,28           | 2505                         | 23000            |      |                            |     |     |
|                   | 4,9                         | 288         | 1,54           | 2034                         | 23000            | YPM  | <b>92 İR 62 / 90 S 4a</b>  | 393 | 127 |
|                   | 5,5                         | 253         | 1,75           | 1787                         | 23000            | YPFM |                            | 394 | 130 |
|                   | 6,2                         | 225         | 1,96           | 1589                         | 23000            |      |                            |     |     |
|                   | 2,8                         | 249,866     | 2,10           | 3584                         | 61500            | YPM  | <b>123 / 100 L 8b</b>      | 383 | 277 |
|                   | 3,2                         | 219,677     | 2,40           | 3151                         | 61500            | YPFM |                            | 384 | 307 |
|                   | 3,6                         | 195,237     | 2,40           | 2800                         | 61500            |      |                            |     |     |
|                   | 3,3                         | 270,11      | 1,36           | 3013                         | 30500            |      | <b>103 / 90 L 6b</b>       |     |     |
|                   | 3,6                         | 251,95      | 1,43           | 2810                         | 30500            |      |                            |     |     |
|                   | 4,1                         | 221,37      | 1,63           | 2469                         | 30500            | YPM  |                            | 381 | 198 |
|                   | 4,6                         | 196,61      | 1,91           | 2193                         | 30500            | YPFM |                            | 382 | 218 |
|                   | 5,0                         | 180,75      | 2,00           | 2016                         | 30500            |      |                            |     |     |
|                   | 5,6                         | 160,54      | 2,10           | 1791                         | 30500            |      |                            |     |     |
|                   | 5,2                         | 270,11      | 2,10           | 1937                         | 30500            | YPM  | <b>103 / 90 S 4a</b>       | 381 | 196 |
|                   | 5,6                         | 251,95      | 2,30           | 1807                         | 30500            | YPFM |                            | 382 | 216 |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             | Tip                  |                                                                                     |     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|----------------------|-------------------------------------------------------------------------------------|-----|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             | Type                 |                                                                                     |     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             | Type                 |                                                                                     |     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             | Typ                  |                                                                                     |     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                      |  | kg  |
| <b>1,1</b>     | <b>6,3</b>                  | 221,37      | 2,60           | 1587                         | 30500            |             |                      |                                                                                     |     |
|                | <b>7,1</b>                  | 196,61      | 3,00           | 1410                         | 30500            | <b>YPM</b>  | <b>103 / 90 S 4a</b> | 381                                                                                 | 196 |
|                | <b>1,5</b>                  | <b>7,7</b>  | 3,10           | 1296                         | 30000            | <b>YPFM</b> |                      | 382                                                                                 | 216 |
|                | <b>8,7</b>                  | 160,54      | 3,40           | 1151                         | 30000            |             |                      |                                                                                     |     |
|                | <b>3,6</b>                  | 252,350     | 1,00           | 2815                         | 23000            |             | <b>93 / 90 L 6b</b>  |                                                                                     |     |
|                | <b>3,8</b>                  | 235,385     | 1,08           | 2626                         | 23000            | <b>YPM</b>  |                      | 379                                                                                 | 119 |
|                | <b>4,1</b>                  | 222,000     | 1,14           | 2476                         | 23000            | <b>YPFM</b> |                      | 380                                                                                 | 122 |
|                | <b>4,2</b>                  | 213,043     | 1,20           | 2376                         | 23000            |             |                      |                                                                                     |     |
|                | <b>4,5</b>                  | 198,721     | 1,25           | 2217                         | 23000            |             |                      |                                                                                     |     |
|                | <b>4,9</b>                  | 285,833     | 1,36           | 2050                         | 23000            |             | <b>93 / 90 S 4a</b>  |                                                                                     |     |
|                | <b>5,5</b>                  | 252,350     | 1,57           | 1810                         | 23000            |             |                      |                                                                                     |     |
|                | <b>5,9</b>                  | 235,385     | 1,63           | 1688                         | 23000            |             |                      |                                                                                     |     |
|                | <b>6,3</b>                  | 222,000     | 1,77           | 1592                         | 23000            |             |                      |                                                                                     |     |
|                | <b>6,6</b>                  | 213,043     | 1,84           | 1528                         | 23000            | <b>YPM</b>  |                      | 379                                                                                 | 117 |
|                | <b>7,0</b>                  | 198,721     | 1,98           | 1425                         | 23000            | <b>YPFM</b> |                      | 380                                                                                 | 120 |
|                | <b>7,8</b>                  | 179,167     | 2,20           | 1285                         | 23000            |             |                      |                                                                                     |     |
|                | <b>8,6</b>                  | 162,509     | 2,40           | 1165                         | 23000            |             |                      |                                                                                     |     |
|                | <b>9,7</b>                  | 144,365     | 2,70           | 1035                         | 23000            |             |                      |                                                                                     |     |
|                | <b>10,9</b>                 | 128,710     | 3,00           | 923                          | 23000            |             |                      |                                                                                     |     |
|                | <b>6,7</b>                  | 209,469     | 0,94           | 1502                         | 18000            |             | <b>83 / 90 S 4a</b>  |                                                                                     |     |
|                | <b>8,0</b>                  | 174,415     | 1,15           | 1251                         | 18000            |             |                      |                                                                                     |     |
|                | <b>9,0</b>                  | 156,126     | 1,30           | 1120                         | 18000            |             |                      |                                                                                     |     |
|                | <b>9,1</b>                  | 153,809     | 1,30           | 1103                         | 18000            |             |                      |                                                                                     |     |
|                | <b>10</b>                   | 137,681     | 1,45           | 987                          | 18000            |             |                      |                                                                                     |     |
|                | <b>11</b>                   | 122,443     | 1,65           | 878                          | 18000            |             |                      |                                                                                     |     |
|                | <b>13</b>                   | 109,644     | 1,80           | 786                          | 18000            | <b>YPM</b>  |                      | 377                                                                                 | 95  |
|                | <b>14</b>                   | 98,855      | 2,00           | 709                          | 18000            | <b>YPFM</b> |                      | 378                                                                                 | 101 |
|                | <b>16</b>                   | 89,024      | 2,20           | 638                          | 18000            |             |                      |                                                                                     |     |
|                | <b>19</b>                   | 75,066      | 2,80           | 538                          | 17700            |             |                      |                                                                                     |     |
|                | <b>21</b>                   | 66,926      | 3,30           | 480                          | 17550            |             |                      |                                                                                     |     |
|                | <b>23</b>                   | 60,088      | 3,50           | 431                          | 17500            |             |                      |                                                                                     |     |
|                | <b>26</b>                   | 54,263      | 3,90           | 389                          | 17500            |             |                      |                                                                                     |     |
|                | <b>29</b>                   | 48,219      | 4,50           | 346                          | 17400            |             |                      |                                                                                     |     |
|                | <b>13</b>                   | 111,720     | 0,86           | 801                          | 12300            |             | <b>73 / 90 S 4a</b>  |                                                                                     |     |
|                | <b>16</b>                   | 90,289      | 1,20           | 647                          | 12300            |             |                      |                                                                                     |     |
|                | <b>18</b>                   | 76,731      | 1,45           | 550                          | 12300            |             |                      |                                                                                     |     |
|                | <b>20</b>                   | 69,508      | 1,60           | 498                          | 12300            |             |                      |                                                                                     |     |
|                | <b>22</b>                   | 63,217      | 1,75           | 453                          | 12300            |             |                      |                                                                                     |     |
|                | <b>27</b>                   | 52,793      | 2,10           | 379                          | 12000            | <b>YPM</b>  |                      | 375                                                                                 | 62  |
|                | <b>28</b>                   | 50,025      | 2,20           | 359                          | 12000            | <b>YPFM</b> |                      | 376                                                                                 | 66  |
|                | <b>31</b>                   | 44,507      | 2,50           | 319                          | 12000            |             |                      |                                                                                     |     |
|                | <b>33</b>                   | 42,513      | 2,60           | 305                          | 12000            |             |                      |                                                                                     |     |
|                | <b>37</b>                   | 37,650      | 2,90           | 270                          | 12000            |             |                      |                                                                                     |     |
|                | <b>42</b>                   | 33,415      | 3,30           | 240                          | 12000            |             |                      |                                                                                     |     |
|                | <b>47</b>                   | 29,693      | 3,70           | 213                          | 12000            |             |                      |                                                                                     |     |
|                | <b>42</b>                   | 32,943      | 3,50           | 240                          | 12000            | <b>YPM</b>  | <b>72 / 90 S 4a</b>  | 375                                                                                 | 59  |
|                | <b>50</b>                   | 27,996      | 3,90           | 204                          | 12000            | <b>YPFM</b> |                      | 376                                                                                 | 63  |
|                | <b>21</b>                   | 65,138      | 0,80           | 467                          | 6290             |             | <b>63 / 90 S 4a</b>  |                                                                                     |     |
|                | <b>22</b>                   | 63,659      | 0,81           | 456                          | 6200             | <b>YPM</b>  |                      | 373                                                                                 | 42  |
|                | <b>24</b>                   | 58,086      | 0,90           | 417                          | 6200             | <b>YPFM</b> |                      | 374                                                                                 | 44  |
|                | <b>27</b>                   | 52,643      | 0,99           | 378                          | 6200             |             |                      |                                                                                     |     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |       | Tip                        |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |       | Type                       |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |       | Typ                        |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |       |                            |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |       |                            |                                                                                     | kg                                                                                  |
| <b>1,1</b>     | 29                          | 47,687      | 1,10           | 342                          | 6000             |       |                            |                                                                                     |                                                                                     |
|                | 32                          | 43,372      | 1,20           | 311                          | 5600             | YPM   | <b>63 / 90 S 4a</b>        | 373                                                                                 | 42                                                                                  |
| 1,5            | 39                          | 36,220      | 1,45           | 260                          | 5550             | YPFM  |                            | 374                                                                                 | 44                                                                                  |
|                | 46                          | 30,535      | 1,70           | 219                          | 5550             |       |                            |                                                                                     |                                                                                     |
|                | 44                          | 31,538      | 1,75           | 230                          | 6000             |       |                            |                                                                                     |                                                                                     |
|                | 56                          | 24,782      | 2,20           | 180                          | 6000             |       |                            |                                                                                     |                                                                                     |
|                | 61                          | 23,102      | 2,40           | 168                          | 6000             |       |                            |                                                                                     |                                                                                     |
|                | 70                          | 20,028      | 2,80           | 146                          | 6000             | YPM   | <b>62 / 90 S 4a</b>        | 373                                                                                 | 39                                                                                  |
|                | 77                          | 18,153      | 3,00           | 132                          | 5620             | YPFM  |                            | 374                                                                                 | 41                                                                                  |
|                | 85                          | 16,501      | 3,30           | 120                          | 5620             |       |                            |                                                                                     |                                                                                     |
|                | 95                          | 14,671      | 3,70           | 107                          | 5420             |       |                            |                                                                                     |                                                                                     |
|                | 105                         | 13,290      | 4,10           | 97                           | 5420             |       |                            |                                                                                     |                                                                                     |
|                | 116                         | 12,087      | 4,50           | 88                           | 5420             |       |                            |                                                                                     |                                                                                     |
|                | 45                          | 31,332      | 0,87           | 225                          | 4000             | YPM   | <b>53 / 90 S 4a</b>        | 371                                                                                 | 29                                                                                  |
|                | 50                          | 28,110      | 0,98           | 202                          | 4000             | YPFM  |                            | 372                                                                                 | 30                                                                                  |
|                | 55                          | 25,304      | 1,07           | 181                          | 4000             |       |                            |                                                                                     |                                                                                     |
|                | 61                          | 22,838      | 1,18           | 164                          | 4000             |       |                            |                                                                                     |                                                                                     |
|                | 54                          | 25,745      | 1,07           | 187                          | 3490             | YPPM  | <b>52 / 90 S 4a</b>        | 401                                                                                 | 27                                                                                  |
|                |                             |             |                |                              |                  | YPFPM |                            | 402                                                                                 | 28                                                                                  |
|                | 63                          | 22,326      | 1,23           | 163                          | 3750             | YPM   | <b>52 / C80 M 4</b>        | 371                                                                                 | 23                                                                                  |
|                | 72                          | 19,558      | 1,43           | 142                          | 3750             | YPFM  |                            | 372                                                                                 | 24                                                                                  |
|                | 81                          | 17,272      | 1,57           | 126                          | 3490             |       |                            |                                                                                     |                                                                                     |
|                | 91                          | 15,352      | 1,77           | 112                          | 3490             |       |                            |                                                                                     |                                                                                     |
|                | 102                         | 13,716      | 1,98           | 100                          | 3490             |       |                            |                                                                                     |                                                                                     |
|                | 114                         | 12,305      | 2,20           | 90                           | 3490             |       |                            |                                                                                     |                                                                                     |
|                | 126                         | 11,077      | 2,40           | 81                           | 3090             |       |                            |                                                                                     |                                                                                     |
|                | 140                         | 9,997       | 2,70           | 73                           | 3090             |       |                            |                                                                                     |                                                                                     |
|                | 155                         | 9,041       | 3,00           | 66                           | 3090             |       |                            |                                                                                     |                                                                                     |
|                | 163                         | 8,590       | 3,10           | 63                           | 3090             | YPM   | <b>52 / 90 S 4a</b>        | 371                                                                                 | 27                                                                                  |
|                | 184                         | 7,602       | 3,50           | 55                           | 3090             | YPFM  |                            | 372                                                                                 | 28                                                                                  |
|                | 193                         | 7,236       | 2,50           | 53                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 217                         | 6,465       | 2,70           | 47                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 241                         | 5,800       | 3,00           | 42                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 268                         | 5,221       | 3,10           | 38                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 297                         | 4,712       | 3,30           | 34                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 328                         | 4,262       | 3,50           | 31                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 346                         | 4,049       | 5,20           | 29                           | 2780             |       |                            |                                                                                     |                                                                                     |
|                | 391                         | 3,583       | 5,50           | 26                           | 2780             |       |                            |                                                                                     |                                                                                     |
| <b>1,5</b>     | 1,3                         | 1070        | 0,88           | 10152                        | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 1,4                         | 982         | 0,95           | 9317                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 1,6                         | 875         | 0,99           | 8301                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 1,8                         | 773         | 1,10           | 7334                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 2,0                         | 687         | 1,25           | 6518                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 2,3                         | 614         | 1,36           | 5825                         | 61500            | YPM   | <b>123 İR 72 / 90 L 4a</b> | 397                                                                                 | 300                                                                                 |
|                | 2,5                         | 551         | 1,47           | 5228                         | 61500            | YPFM  |                            | 398                                                                                 | 330                                                                                 |
|                | 2,8                         | 496         | 1,61           | 4706                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 3,1                         | 448         | 1,76           | 4250                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 3,5                         | 405         | 1,90           | 3842                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 3,8                         | 366         | 2,10           | 3472                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 4,2                         | 332         | 2,20           | 3150                         | 61500            |       |                            |                                                                                     |                                                                                     |
|                | 4,5                         | 309         | 2,50           | 2932                         | 61500            |       |                            |                                                                                     |                                                                                     |





| P <sub>1</sub>         | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                        |     |     |
|------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|----------------------------|-----|-----|
| GÜÇ                    | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                       |     |     |
| Power                  | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                        |     |     |
| Leistung               | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                            |     |     |
| [kW]<br>Hp             | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                            |     | kg  |
| <b>1,5</b><br><b>2</b> | 5,0                         | 279         | 2,80           | 2647                         | 61500            | YPM  | <b>123 İR 72 / 90 L 4a</b> | 397 | 300 |
|                        | 5,5                         | 253         | 3,00           | 2400                         | 61500            | YPFM |                            | 398 | 330 |
|                        | 6,1                         | 229         | 3,30           | 2173                         | 61500            |      |                            |     |     |
|                        | 2,7                         | 521         | 0,88           | 4943                         | 29800            |      | <b>102 İR 63 / 90 L 4a</b> | 395 | 209 |
|                        | 2,9                         | 475         | 0,88           | 4507                         | 29800            | YPM  |                            | 396 | 229 |
|                        | 3,2                         | 434         | 0,88           | 4118                         | 29800            | YPFM |                            |     |     |
|                        | 3,9                         | 358         | 0,88           | 3396                         | 29800            |      |                            |     |     |
|                        | 4,8                         | 293         | 0,88           | 2780                         | 29800            |      |                            |     |     |
|                        | 5,8                         | 243         | 0,88           | 2305                         | 29800            |      |                            |     |     |
|                        | 3,6                         | 393         | 0,86           | 3729                         | 23000            | YPM  | <b>92 İR 63 / 90 L 4a</b>  | 393 | 130 |
|                        | 3,9                         | 360         | 0,94           | 3415                         | 23000            | YPFM |                            | 394 | 133 |
|                        | 4,9                         | 288         | 1,13           | 2774                         | 23000            | YPM  | <b>92 İR 62 / 90 L 4a</b>  | 393 | 129 |
|                        | 5,5                         | 253         | 1,28           | 2437                         | 23000            | YPFM |                            | 394 | 132 |
|                        | 6,2                         | 225         | 1,44           | 2167                         | 23000            |      |                            |     |     |
|                        | 2,8                         | 249,866     | 1,55           | 4887                         | 61500            | YPM  | <b>123 / 112 M 8a</b>      | 383 | 285 |
|                        | 3,2                         | 219,677     | 1,76           | 4296                         | 61500            | YPFM |                            | 384 | 215 |
|                        | 3,6                         | 195,237     | 1,98           | 3818                         | 61500            |      |                            |     |     |
|                        | 3,6                         | 249,866     | 2,00           | 3801                         | 61500            |      | <b>123 / 100 L 6a</b>      | 383 | 276 |
|                        | 4,1                         | 219,677     | 2,30           | 3342                         | 61500            | YPM  |                            | 384 | 306 |
|                        | 4,6                         | 195,237     | 2,60           | 2970                         | 61500            | YPFM |                            |     |     |
|                        | 5,1                         | 175,048     | 2,80           | 2663                         | 61500            |      |                            |     |     |
|                        | 4,1                         | 221,37      | 1,20           | 3367                         | 29800            |      | <b>103 / 100 L 6a</b>      | 381 | 203 |
|                        | 4,6                         | 196,61      | 1,40           | 2991                         | 29800            | YPM  |                            | 382 | 223 |
|                        | 5,0                         | 180,75      | 1,50           | 2749                         | 29800            | YPFM |                            |     |     |
|                        | 5,6                         | 160,54      | 1,60           | 2442                         | 29800            |      |                            |     |     |
|                        | 5,2                         | 270,11      | 1,56           | 2641                         | 29800            |      | <b>103 / 90 L 4a</b>       | 381 | 198 |
|                        | 5,6                         | 251,95      | 1,67           | 2464                         | 29800            |      |                            | 382 | 218 |
|                        | 6,3                         | 221,37      | 1,91           | 2165                         | 29800            | YPM  |                            |     |     |
|                        | 7,1                         | 196,61      | 2,20           | 1923                         | 29800            | YPFM |                            |     |     |
|                        | 7,7                         | 180,75      | 2,30           | 1767                         | 29700            |      |                            |     |     |
|                        | 8,7                         | 160,54      | 2,50           | 1570                         | 29700            |      |                            |     |     |
|                        | 9,7                         | 143,83      | 2,90           | 1406                         | 29700            |      |                            |     |     |
|                        | 11                          | 129,81      | 3,30           | 1269                         | 29700            |      |                            |     |     |
|                        | 4,9                         | 285,833     | 1,00           | 2795                         | 23000            |      | <b>93 / 90 L 4a</b>        | 379 | 119 |
|                        | 5,5                         | 252,350     | 1,15           | 2468                         | 23000            |      |                            | 380 | 122 |
|                        | 5,9                         | 235,385     | 1,20           | 2302                         | 23000            |      |                            |     |     |
|                        | 6,3                         | 222,000     | 1,30           | 2171                         | 23000            |      |                            |     |     |
|                        | 6,6                         | 213,043     | 1,35           | 2083                         | 23000            |      |                            |     |     |
|                        | 7,0                         | 198,721     | 1,45           | 1943                         | 23000            | YPM  |                            |     |     |
|                        | 7,8                         | 179,167     | 1,60           | 1752                         | 23000            | YPFM |                            |     |     |
|                        | 8,6                         | 162,509     | 1,75           | 1589                         | 23000            |      |                            |     |     |
|                        | 9,7                         | 144,365     | 1,98           | 1412                         | 23000            |      |                            |     |     |
|                        | 11                          | 128,710     | 2,20           | 1259                         | 23000            |      |                            |     |     |
|                        | 12                          | 115,560     | 2,50           | 1130                         | 23000            |      |                            |     |     |
|                        | 13                          | 104,358     | 2,70           | 1020                         | 23000            |      |                            |     |     |
|                        | 15                          | 92,730      | 3,10           | 907                          | 23000            |      |                            |     |     |
|                        | 9,0                         | 156,126     | 0,95           | 1527                         | 17800            |      | <b>83 / 90 L 4a</b>        | 377 | 97  |
|                        | 9,1                         | 153,809     | 0,95           | 1504                         | 17750            | YPM  |                            | 378 | 103 |
|                        | 10                          | 137,681     | 1,06           | 1346                         | 17700            | YPFM |                            |     |     |
|                        | 11                          | 122,443     | 1,21           | 1197                         | 17550            |      |                            |     |     |



| P <sub>1</sub>  | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                     | Tip  |  |  |
|-----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|---------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ             | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                     | Type |                                                                                     |                                                                                     |
| Power           | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                     | Typ  |                                                                                     |                                                                                     |
| Leistung        | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                     |      |                                                                                     |                                                                                     |
| [kW]            | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                     |      |                                                                                     | kg                                                                                  |
| Hp              |                             |             |                |                              |                  |             |                     |      |                                                                                     |                                                                                     |
| <b>1,5</b><br>2 | 13                          | 109,644     | 1,32           | 1072                         | 17400            | YPM<br>YPFM | <b>83 / 90 L 4a</b> |      | 377                                                                                 | 97                                                                                  |
|                 | 14                          | 98,855      | 1,46           | 967                          | 17300            |             |                     |      |                                                                                     |                                                                                     |
|                 | 16                          | 89,024      | 1,65           | 871                          | 17300            |             |                     |      |                                                                                     |                                                                                     |
|                 | 19                          | 75,066      | 2,10           | 734                          | 17150            |             |                     |      |                                                                                     |                                                                                     |
|                 | 21                          | 66,926      | 2,40           | 654                          | 17100            |             |                     |      |                                                                                     |                                                                                     |
|                 | 23                          | 60,088      | 2,60           | 588                          | 17000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 26                          | 54,263      | 2,90           | 531                          | 17000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 29                          | 48,219      | 3,30           | 472                          | 17000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 33                          | 42,582      | 3,70           | 416                          | 16900            |             |                     |      |                                                                                     |                                                                                     |
|                 | 41                          | 33,814      | 4,60           | 331                          | 16800            |             |                     |      |                                                                                     |                                                                                     |
|                 | 16                          | 90,289      | 0,88           | 883                          | 12000            | YPM<br>YPFM | <b>73 / 90 L 4a</b> |      | 375                                                                                 | 64                                                                                  |
|                 | 18                          | 76,731      | 1,06           | 750                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 20                          | 69,508      | 1,17           | 680                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 22                          | 63,217      | 1,28           | 618                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 27                          | 52,793      | 1,54           | 516                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 28                          | 50,025      | 1,61           | 489                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 31                          | 44,507      | 1,80           | 435                          | 12000            |             |                     |      |                                                                                     |                                                                                     |
|                 | 33                          | 42,513      | 1,90           | 416                          | 11800            |             |                     |      |                                                                                     |                                                                                     |
|                 | 37                          | 37,650      | 2,10           | 368                          | 11800            | YPM<br>YPFM | <b>72 / 90 L 4a</b> |      | 375                                                                                 | 61                                                                                  |
|                 | 42                          | 33,415      | 2,40           | 327                          | 11800            |             |                     |      |                                                                                     |                                                                                     |
|                 | 47                          | 29,693      | 2,70           | 290                          | 11800            |             |                     |      |                                                                                     |                                                                                     |
|                 | 42                          | 32,943      | 2,60           | 327                          | 11500            |             |                     |      |                                                                                     |                                                                                     |
|                 | 50                          | 27,996      | 2,90           | 278                          | 11500            |             |                     |      |                                                                                     |                                                                                     |
|                 | 57                          | 24,688      | 3,30           | 245                          | 11500            |             |                     |      |                                                                                     |                                                                                     |
|                 | 64                          | 21,956      | 3,70           | 218                          | 11500            |             |                     |      |                                                                                     |                                                                                     |
|                 | 70                          | 19,886      | 4,20           | 197                          | 11500            |             |                     |      |                                                                                     |                                                                                     |
|                 | 29                          | 47,687      | 0,81           | 466                          | 5750             | YPM<br>YPFM | <b>63 / 90 L 4a</b> |      | 373                                                                                 | 44                                                                                  |
|                 | 32                          | 43,372      | 0,88           | 424                          | 5550             |             |                     |      |                                                                                     |                                                                                     |
|                 | 39                          | 36,220      | 1,06           | 354                          | 5550             |             |                     |      |                                                                                     |                                                                                     |
|                 | 46                          | 30,535      | 1,25           | 299                          | 5550             |             |                     |      |                                                                                     |                                                                                     |
|                 | 44                          | 31,538      | 1,28           | 313                          | 5560             | YPM<br>YPFM | <b>62 / 90 L 4a</b> |      | 373                                                                                 | 41                                                                                  |
|                 | 61                          | 23,102      | 1,76           | 229                          | 5370             |             |                     |      |                                                                                     |                                                                                     |
|                 | 56                          | 24,782      | 1,61           | 246                          | 5370             | YPM<br>YPFM | <b>62 / 90 L 4a</b> |      | 373                                                                                 | 41                                                                                  |
|                 | 70                          | 20,028      | 2,10           | 199                          | 5370             |             |                     |      |                                                                                     |                                                                                     |
|                 | 77                          | 18,153      | 2,20           | 180                          | 5370             |             |                     |      |                                                                                     |                                                                                     |
|                 | 85                          | 16,501      | 2,40           | 164                          | 5370             |             |                     |      |                                                                                     |                                                                                     |
|                 | 95                          | 14,671      | 2,70           | 146                          | 5370             |             |                     |      |                                                                                     |                                                                                     |
|                 | 105                         | 13,290      | 3,00           | 132                          | 5250             |             |                     |      |                                                                                     |                                                                                     |
|                 | 116                         | 12,087      | 3,30           | 120                          | 5250             |             |                     |      |                                                                                     |                                                                                     |
|                 | 121                         | 11,617      | 3,50           | 115                          | 5250             |             |                     |      |                                                                                     |                                                                                     |
|                 | 139                         | 10,094      | 3,70           | 100                          | 5250             |             |                     |      |                                                                                     |                                                                                     |
|                 | 152                         | 9,207       | 4,20           | 91                           | 5250             |             |                     |      |                                                                                     |                                                                                     |
|                 | 165                         | 8,509       | 4,10           | 84                           | 5200             |             |                     |      |                                                                                     |                                                                                     |
|                 | 81                          | 17,272      | 1,15           | 171                          | 3400             | YPM<br>YPFM | <b>52 / 90 L 4a</b> |      | 371                                                                                 | 29                                                                                  |
|                 | 91                          | 15,352      | 1,30           | 152                          | 3400             |             |                     |      |                                                                                     |                                                                                     |
|                 | 102                         | 13,716      | 1,45           | 136                          | 3400             |             |                     |      |                                                                                     |                                                                                     |
|                 | 114                         | 12,305      | 1,65           | 122                          | 3400             |             |                     |      |                                                                                     |                                                                                     |
|                 | 126                         | 11,077      | 1,80           | 110                          | 3400             |             |                     |      |                                                                                     |                                                                                     |
|                 | 140                         | 9,997       | 1,98           | 99                           | 3000             |             |                     |      |                                                                                     |                                                                                     |
|                 | 155                         | 9,041       | 2,20           | 90                           | 3000             |             |                     |      |                                                                                     |                                                                                     |
|                 | 163                         | 8,590       | 2,30           | 85                           | 3000             |             |                     |      |                                                                                     |                                                                                     |



| P <sub>1</sub>  | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                      | Tip<br>Type<br>Typ |            |            |
|-----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|----------------------|--------------------|------------|------------|
| GÜÇ             | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                      |                    |            |            |
| Power           | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                      |                    |            |            |
| Leistung        | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                      |                    |            |            |
| [kW]<br>Hp      | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                      |                    |            |            |
| <b>1,5</b><br>2 | 184                         | 7,602       | 2,60           | 75                           | 3000             | YPM<br>YPFM | 52 / 90 L 4a         |                    | 371<br>372 | 29<br>30   |
|                 | 193                         | 7,236       | 1,88           | 72                           | 3000             |             |                      |                    |            |            |
|                 | 217                         | 6,465       | 2,00           | 64                           | 2690             |             |                      |                    |            |            |
|                 | 241                         | 5,800       | 2,20           | 58                           | 2690             |             |                      |                    |            |            |
|                 | 268                         | 5,221       | 2,30           | 52                           | 2690             |             |                      |                    |            |            |
|                 | 297                         | 4,712       | 2,40           | 47                           | 2690             |             |                      |                    |            |            |
|                 | 328                         | 4,262       | 2,60           | 42                           | 2690             |             |                      |                    |            |            |
|                 | 346                         | 4,049       | 3,80           | 40                           | 2690             |             |                      |                    |            |            |
|                 | 391                         | 3,583       | 4,00           | 36                           | 2690             |             |                      |                    |            |            |
| <b>2,2</b><br>3 | 2,0                         | 687         | 0,85           | 9560                         | 61500            | YPM<br>YPFM | 123 İR 72 / 100 L 4a |                    | 397<br>398 | 304<br>334 |
|                 | 2,3                         | 614         | 0,93           | 8544                         | 61500            |             |                      |                    |            |            |
|                 | 2,5                         | 551         | 1,00           | 7667                         | 61500            |             |                      |                    |            |            |
|                 | 2,8                         | 496         | 1,10           | 6902                         | 61500            |             |                      |                    |            |            |
|                 | 3,1                         | 448         | 1,20           | 6234                         | 61500            |             |                      |                    |            |            |
|                 | 3,5                         | 405         | 1,30           | 5636                         | 61500            |             |                      |                    |            |            |
|                 | 3,8                         | 366         | 1,43           | 5093                         | 61500            |             |                      |                    |            |            |
|                 | 4,2                         | 332         | 1,46           | 4620                         | 61500            |             |                      |                    |            |            |
|                 | 4,5                         | 309         | 1,70           | 4300                         | 61500            | YPM<br>YPFM | 123 / 132 S 8b       |                    | 383<br>384 | 298<br>328 |
|                 | 5,0                         | 279         | 1,88           | 3882                         | 61500            |             |                      |                    |            |            |
|                 | 5,5                         | 253         | 2,10           | 3520                         | 61500            |             |                      |                    |            |            |
|                 | 6,1                         | 229         | 2,30           | 3187                         | 61500            |             |                      |                    |            |            |
|                 | 3,6                         | 195,237     | 1,35           | 5600                         | 61500            |             |                      |                    |            |            |
|                 | 3,6                         | 249,866     | 1,36           | 5574                         | 61500            | YPM<br>YPFM | 123 / 112 M 6a       |                    | 383<br>384 | 284<br>314 |
|                 | 4,1                         | 219,677     | 1,55           | 4901                         | 61500            |             |                      |                    |            |            |
|                 | 4,6                         | 195,237     | 1,74           | 4356                         | 61500            |             |                      |                    |            |            |
|                 | 5,1                         | 175,048     | 1,94           | 3905                         | 61500            |             |                      |                    |            |            |
|                 | 5,6                         | 249,866     | 2,10           | 3584                         | 61500            | YPM<br>YPFM | 123 / 100 L 4a       |                    | 383<br>384 | 275<br>305 |
|                 | 6,4                         | 219,677     | 2,40           | 3151                         | 61500            |             |                      |                    |            |            |
|                 | 7,2                         | 195,237     | 2,70           | 2800                         | 61500            |             |                      |                    |            |            |
|                 | 8,0                         | 175,048     | 3,00           | 2511                         | 61500            |             |                      |                    |            |            |
|                 | 8,9                         | 158,089     | 3,30           | 2267                         | 61500            |             |                      |                    |            |            |
|                 | 9,7                         | 143,643     | 3,70           | 2060                         | 61500            | YPM<br>YPFM | 103 / 112 M 6a       |                    | 381<br>382 | 211<br>231 |
|                 | 4,6                         | 196,61      | 0,95           | 4386                         | 29000            |             |                      |                    |            |            |
|                 | 5,0                         | 180,75      | 1,02           | 4032                         | 29000            |             |                      |                    |            |            |
|                 | 5,6                         | 160,54      | 1,10           | 3581                         | 29000            |             |                      |                    |            |            |
|                 | 5,2                         | 270,11      | 1,06           | 3874                         | 29000            | YPM<br>YPFM | 103 / 100 L 4a       |                    | 381<br>382 | 202<br>222 |
|                 | 5,6                         | 251,95      | 1,14           | 3613                         | 29000            |             |                      |                    |            |            |
|                 | 6,3                         | 221,37      | 1,30           | 3175                         | 29000            |             |                      |                    |            |            |
|                 | 7,1                         | 196,61      | 1,50           | 2820                         | 28800            |             |                      |                    |            |            |
|                 | 7,7                         | 180,75      | 1,56           | 2592                         | 28800            |             |                      |                    |            |            |
|                 | 8,7                         | 160,54      | 1,70           | 2302                         | 28800            |             |                      |                    |            |            |
|                 | 9,7                         | 143,83      | 2,00           | 2063                         | 28650            |             |                      |                    |            |            |
|                 | 11                          | 129,81      | 2,20           | 1862                         | 28600            |             |                      |                    |            |            |
|                 | 12                          | 117,86      | 2,50           | 1690                         | 28500            |             |                      |                    |            |            |
|                 | 14                          | 100,00      | 2,90           | 1434                         | 28500            |             |                      |                    |            |            |
|                 | 16                          | 89,48       | 3,00           | 1283                         | 28500            |             |                      |                    |            |            |
|                 | 7,0                         | 198,721     | 0,99           | 2850                         | 22000            | YPM<br>YPFM | 93 / 100 L 4a        |                    | 379<br>380 | 123<br>126 |
|                 | 7,8                         | 179,167     | 1,09           | 2570                         | 22000            |             |                      |                    |            |            |
|                 | 8,6                         | 162,509     | 1,19           | 2331                         | 22000            |             |                      |                    |            |            |
|                 | 9,7                         | 144,365     | 1,35           | 2070                         | 22000            |             |                      |                    |            |            |



| P <sub>1</sub>         | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                           |                      | Tip<br>Type<br>Typ |     |     |
|------------------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------------------|----------------------|--------------------|-----|-----|
| GÜÇ                    | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                           |                      |                    |     |     |
| Power                  | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                           |                      |                    |     |     |
| Leistung               | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                           |                      |                    |     |     |
| [kW]<br>Hp             | [r.p.m]                     |             |                | [Nm]                         | [N]              |                           |                      |                    |     |     |
| <b>2,2</b><br><b>3</b> | 11                          | 128,710     | 1,50           | 1846                         | 22000            | <b>YPM</b><br><b>YPFM</b> | <b>93 / 100 L 4a</b> |                    | 379 | 123 |
|                        | 12                          | 115,560     | 1,70           | 1657                         | 22000            |                           |                      |                    |     |     |
|                        | 13                          | 104,358     | 1,85           | 1497                         | 22000            |                           |                      |                    |     |     |
|                        | 15                          | 92,730      | 2,20           | 1330                         | 22000            |                           |                      |                    |     |     |
|                        | 16                          | 86,391      | 2,30           | 1239                         | 22000            |                           |                      |                    |     |     |
|                        | 18                          | 77,023      | 2,60           | 1105                         | 22000            |                           |                      |                    |     |     |
|                        | 20                          | 69,154      | 2,80           | 992                          | 22000            |                           |                      |                    |     |     |
|                        | 22                          | 62,450      | 3,20           | 896                          | 22000            |                           |                      |                    |     |     |
|                        | 13                          | 109,644     | 0,90           | 1573                         | 17170            |                           |                      |                    |     |     |
|                        | 14                          | 98,855      | 1,00           | 1418                         | 17070            |                           |                      |                    |     |     |
|                        | 16                          | 89,024      | 1,12           | 1277                         | 17070            |                           |                      |                    |     |     |
|                        | 19                          | 75,066      | 1,43           | 1077                         | 16920            |                           |                      |                    |     |     |
|                        | 21                          | 66,926      | 1,64           | 960                          | 16870            |                           |                      |                    |     |     |
|                        | 23                          | 60,088      | 1,77           | 862                          | 16770            |                           |                      |                    |     |     |
|                        | 26                          | 54,263      | 1,98           | 778                          | 16770            |                           |                      |                    |     |     |
|                        | 29                          | 48,219      | 2,30           | 692                          | 16770            | <b>YPM</b><br><b>YPFM</b> | <b>83 / 100 L 4a</b> |                    | 377 | 101 |
|                        | 33                          | 42,582      | 2,50           | 611                          | 16670            |                           |                      |                    |     |     |
|                        | 41                          | 33,814      | 3,10           | 485                          | 16570            |                           |                      |                    |     |     |
|                        | 46                          | 30,337      | 3,50           | 435                          | 16470            |                           |                      |                    |     |     |
|                        | 51                          | 27,309      | 3,90           | 392                          | 16370            |                           |                      |                    |     |     |
|                        | 54                          | 25,842      | 3,40           | 376                          | 16210            |                           |                      |                    |     |     |
|                        | 61                          | 23,040      | 3,80           | 335                          | 16150            |                           |                      |                    |     |     |
|                        | 68                          | 20,686      | 4,20           | 301                          | 16000            |                           |                      |                    |     |     |
|                        | 75                          | 18,680      | 4,80           | 272                          | 16000            |                           |                      |                    |     |     |
|                        | 20                          | 69,508      | 0,80           | 997                          | 11500            |                           |                      |                    |     |     |
|                        | 22                          | 63,217      | 0,87           | 907                          | 11500            |                           |                      |                    |     |     |
|                        | 27                          | 52,793      | 1,05           | 757                          | 11500            |                           |                      |                    |     |     |
|                        | 28                          | 50,025      | 1,10           | 717                          | 11500            |                           |                      |                    |     |     |
|                        | 31                          | 44,507      | 1,22           | 638                          | 11500            |                           |                      |                    |     |     |
|                        | 33                          | 42,513      | 1,30           | 610                          | 11500            | <b>YPM</b><br><b>YPFM</b> | <b>73 / 100 L 4a</b> |                    | 375 | 68  |
|                        | 37                          | 37,650      | 1,48           | 540                          | 11500            |                           |                      |                    |     |     |
|                        | 42                          | 33,415      | 1,65           | 479                          | 11500            |                           |                      |                    |     |     |
|                        | 47                          | 29,693      | 1,85           | 426                          | 11500            |                           |                      |                    |     |     |
|                        | 42                          | 32,943      | 1,77           | 480                          | 11500            |                           |                      |                    |     |     |
|                        | 50                          | 27,996      | 1,98           | 408                          | 11500            |                           |                      |                    |     |     |
|                        | 57                          | 24,688      | 2,30           | 359                          | 11300            |                           |                      |                    |     |     |
|                        | 64                          | 21,956      | 2,50           | 320                          | 11300            |                           |                      |                    |     |     |
|                        | 70                          | 19,886      | 2,80           | 290                          | 11300            |                           |                      |                    |     |     |
|                        | 80                          | 17,561      | 3,20           | 256                          | 11300            |                           |                      |                    |     |     |
|                        | 90                          | 15,609      | 3,60           | 227                          | 11300            |                           |                      |                    |     |     |
|                        | 100                         | 13,945      | 4,10           | 203                          | 11300            |                           |                      |                    |     |     |
|                        | 46                          | 30,535      | 0,85           | 438                          | 5350             | <b>YPM</b><br><b>YPFM</b> | <b>63 / 100 L 4a</b> |                    | 373 | 48  |
|                        |                             |             |                |                              |                  |                           |                      |                    |     |     |
|                        | 44                          | 31,538      | 0,87           | 459                          | 4680             | <b>YPM</b><br><b>YPFM</b> | <b>62 / 100 L 4a</b> |                    | 373 | 45  |
|                        | 61                          | 23,102      | 1,20           | 336                          | 4680             |                           |                      |                    |     |     |
|                        | 56                          | 24,782      | 1,10           | 361                          | 4680             | <b>YPM</b><br><b>YPFM</b> | <b>62 / 100 L 4a</b> |                    | 373 | 45  |
|                        | 70                          | 20,028      | 1,40           | 292                          | 4630             |                           |                      |                    |     |     |
|                        | 77                          | 18,153      | 1,50           | 264                          | 4580             |                           |                      |                    |     |     |
|                        | 85                          | 16,501      | 1,65           | 240                          | 4530             |                           |                      |                    |     |     |
|                        | 95                          | 14,671      | 1,85           | 214                          | 4530             |                           |                      |                    |     |     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                |            |            |       |             |                      |            |            |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|----------------|------------|------------|-------|-------------|----------------------|------------|------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                | Tip        |            |       |             |                      |            |            |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                | Type       |            |       |             |                      |            |            |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                | Typ        |            |       |             |                      |            |            |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                |            | kg         |       |             |                      |            |            |
| 2,2<br>3       | 105                         | 13,290      | 2,00           | 194                          | 4530             | YPM<br>YPFM | 62 / 100 L 4a  | 373<br>374 | 45<br>47   |       |             |                      |            |            |
|                | 116                         | 12,087      | 2,20           | 176                          | 4530             |             |                |            |            |       |             |                      |            |            |
|                | 121                         | 11,617      | 2,40           | 169                          | 4430             |             |                |            |            |       |             |                      |            |            |
|                | 139                         | 10,094      | 2,50           | 147                          | 4430             |             |                |            |            |       |             |                      |            |            |
|                | 152                         | 9,207       | 2,90           | 134                          | 4430             |             |                |            |            |       |             |                      |            |            |
|                | 165                         | 8,509       | 2,80           | 124                          | 4250             |             |                |            |            |       |             |                      |            |            |
|                | 172                         | 8,128       | 3,30           | 118                          | 4250             |             |                |            |            |       |             |                      |            |            |
|                | 194                         | 7,198       | 3,70           | 105                          | 4250             |             |                |            |            |       |             |                      |            |            |
|                | 219                         | 6,388       | 4,20           | 93                           | 4250             |             |                |            |            |       |             |                      |            |            |
|                | 247                         | 5,667       | 4,70           | 83                           | 4250             |             |                |            |            |       |             |                      |            |            |
|                | 91                          | 15,352      | 0,89           | 224                          | 3500             | YPM<br>YPFM | 52 / C90 L 4   | 371<br>372 | 29<br>30   |       |             |                      |            |            |
|                | 163                         | 8,590       | 1,28           | 125                          | 3000             |             |                |            |            |       |             |                      |            |            |
|                | 102                         | 13,716      | 0,99           | 200                          | 3320             | YPM<br>YPFM | 52 / 100 L 4a  | 371<br>372 | 33<br>34   |       |             |                      |            |            |
|                | 114                         | 12,305      | 1,12           | 179                          | 3320             |             |                |            |            |       |             |                      |            |            |
|                | 126                         | 11,077      | 1,23           | 161                          | 3320             |             |                |            |            |       |             |                      |            |            |
|                | 140                         | 9,997       | 1,35           | 146                          | 2920             |             |                |            |            |       |             |                      |            |            |
|                | 155                         | 9,041       | 1,50           | 132                          | 2920             |             |                |            |            |       |             |                      |            |            |
|                | 163                         | 8,590       | 1,55           | 125                          | 2920             |             |                |            |            |       |             |                      |            |            |
|                | 184                         | 7,602       | 1,77           | 111                          | 2920             |             |                |            |            |       |             |                      |            |            |
|                | 217                         | 6,465       | 1,36           | 94                           | 2920             |             |                |            |            |       |             |                      |            |            |
|                | 241                         | 5,800       | 1,50           | 84                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 268                         | 5,221       | 1,56           | 76                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 297                         | 4,712       | 1,64           | 69                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 328                         | 4,262       | 1,77           | 62                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 346                         | 4,049       | 2,60           | 59                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 391                         | 3,583       | 2,70           | 52                           | 2610             |             |                |            |            |       |             |                      |            |            |
|                | 3<br>4                      | 3,1         | 448            | 0,88                         | 8501             |             |                |            |            | 61500 | YPM<br>YPFM | 123 İR 72 / 100 L 4b | 397<br>398 | 307<br>337 |
|                |                             | 3,5         | 405            | 0,95                         | 7685             |             |                |            |            | 61500 |             |                      |            |            |
| 3,8            |                             | 366         | 1,05           | 6945                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 4,2            |                             | 332         | 1,08           | 6300                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 4,5            |                             | 309         | 1,25           | 5863                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 5,0            |                             | 279         | 1,38           | 5294                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 5,5            |                             | 253         | 1,52           | 4801                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 6,1            |                             | 229         | 1,68           | 4345                         | 61500            |             |                |            |            |       |             |                      |            |            |
| 4,6            |                             | 195,237     | 1,28           | 5940                         | 61500            | YPM<br>YPFM | 123 / 132 S 6b | 383<br>384 | 300<br>330 |       |             |                      |            |            |
| 5,1            |                             | 175,048     | 1,42           | 5325                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 5,6                         | 249,866     | 1,54           | 4887                         | 61500            | YPM<br>YPFM | 123 / 100 L 4b | 383<br>384 | 278<br>308 |       |             |                      |            |            |
|                | 6,4                         | 219,677     | 1,76           | 4296                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 7,2                         | 195,237     | 1,98           | 3818                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 8,0                         | 175,048     | 2,20           | 3423                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 8,9                         | 158,089     | 2,40           | 3092                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 9,7                         | 143,643     | 2,70           | 2809                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 11                          | 131,189     | 3,00           | 2566                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 12                          | 120,342     | 3,20           | 2354                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                | 13                          | 105,607     | 3,50           | 2065                         | 61500            |             |                |            |            |       |             |                      |            |            |
|                |                             | 6,3         | 221,37         | 0,95                         | 4329             |             |                |            |            | 28000 | YPM<br>YPFM | 103 / 100 L 4b       | 381<br>382 | 205<br>225 |
| 7,1            |                             | 196,61      | 1,10           | 3845                         | 28000            |             |                |            |            |       |             |                      |            |            |
| 7,7            |                             | 180,75      | 1,15           | 3535                         | 28000            |             |                |            |            |       |             |                      |            |            |
| 8,7            |                             | 160,54      | 1,25           | 3140                         | 28000            |             |                |            |            |       |             |                      |            |            |
| 9,7            |                             | 143,83      | 1,47           | 2813                         | 27500            |             |                |            |            |       |             |                      |            |            |
| 11             |                             | 129,81      | 1,65           | 2539                         | 27500            |             |                |            |            |       |             |                      |            |            |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                                                                                                                                                                            |                |     |     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|-----|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip                                                                                                                                                                        |                |     |     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type                                                                                                                                                                       |                |     |     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ                                                                                                                                                                        |                |     |     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |   kg |                |     |     |
| 3              | 12                          | 117,86      | 1,84           | 2305                         | 27500            | YPM<br>YPFM                                                                                                                                                                | 103 / 100 L 4b | 381 | 205 |
|                | 14                          | 100,00      | 2,10           | 1956                         | 27500            |                                                                                                                                                                            |                |     |     |
|                | 16                          | 89,48       | 2,20           | 1750                         | 27500            |                                                                                                                                                                            |                |     |     |
|                | 19                          | 74,89       | 2,70           | 1465                         | 27500            |                                                                                                                                                                            |                |     |     |
|                | 21                          | 65,99       | 3,10           | 1291                         | 27200            |                                                                                                                                                                            |                |     |     |
|                | 24                          | 58,65       | 3,50           | 1147                         | 27200            |                                                                                                                                                                            |                |     |     |
| 4              | 9,7                         | 144,365     | 0,99           | 2823                         | 21000            | YPM<br>YPFM                                                                                                                                                                | 93 / 100 L 4b  | 379 | 126 |
|                | 11                          | 128,710     | 1,10           | 2517                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 12                          | 115,560     | 1,25           | 2260                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 13                          | 104,358     | 1,35           | 2041                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 15                          | 92,730      | 1,58           | 1814                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 16                          | 86,391      | 1,69           | 1690                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 18                          | 77,023      | 1,91           | 1506                         | 21000            |                                                                                                                                                                            |                |     |     |
|                | 20                          | 69,154      | 2,10           | 1352                         | 20900            |                                                                                                                                                                            |                |     |     |
|                | 22                          | 62,450      | 2,30           | 1221                         | 20900            |                                                                                                                                                                            |                |     |     |
|                | 25                          | 55,494      | 2,60           | 1085                         | 20800            |                                                                                                                                                                            |                |     |     |
|                | 28                          | 49,802      | 2,90           | 974                          | 20800            |                                                                                                                                                                            |                |     |     |
|                | 31                          | 44,895      | 3,20           | 878                          | 20700            |                                                                                                                                                                            |                |     |     |
| 5              | 16                          | 89,024      | 0,83           | 1741                         | 16920            | YPM<br>YPFM                                                                                                                                                                | 83 / 100 L 4b  | 377 | 104 |
|                | 19                          | 75,066      | 1,05           | 1468                         | 16920            |                                                                                                                                                                            |                |     |     |
|                | 21                          | 66,926      | 1,20           | 1309                         | 16870            |                                                                                                                                                                            |                |     |     |
|                | 23                          | 60,088      | 1,30           | 1175                         | 16770            |                                                                                                                                                                            |                |     |     |
|                | 26                          | 54,263      | 1,45           | 1061                         | 16770            |                                                                                                                                                                            |                |     |     |
|                | 29                          | 48,219      | 1,65           | 943                          | 16770            |                                                                                                                                                                            |                |     |     |
|                | 33                          | 42,582      | 1,85           | 833                          | 16670            |                                                                                                                                                                            |                |     |     |
|                | 41                          | 33,814      | 2,30           | 661                          | 16570            |                                                                                                                                                                            |                |     |     |
|                | 46                          | 30,337      | 2,60           | 593                          | 16470            |                                                                                                                                                                            |                |     |     |
|                | 51                          | 27,309      | 2,90           | 534                          | 16370            |                                                                                                                                                                            |                |     |     |
|                | 57                          | 24,648      | 3,20           | 482                          | 16370            |                                                                                                                                                                            |                |     |     |
|                | 63                          | 22,291      | 3,50           | 436                          | 16370            |                                                                                                                                                                            |                |     |     |
| 6              | 54                          | 25,842      | 2,50           | 513                          | 16000            | YPM<br>YPFM                                                                                                                                                                | 82 / 100 L 4b  | 377 | 101 |
|                | 61                          | 23,040      | 2,80           | 457                          | 15800            |                                                                                                                                                                            |                |     |     |
|                | 68                          | 20,686      | 3,10           | 411                          | 15500            |                                                                                                                                                                            |                |     |     |
|                | 75                          | 18,680      | 3,50           | 371                          | 15300            |                                                                                                                                                                            |                |     |     |
|                | 84                          | 16,600      | 3,90           | 330                          | 15100            |                                                                                                                                                                            |                |     |     |
|                | 94                          | 14,897      | 4,30           | 296                          | 15000            |                                                                                                                                                                            |                |     |     |
|                | 104                         | 13,429      | 4,80           | 267                          | 15000            |                                                                                                                                                                            |                |     |     |
| 7              | 28                          | 50,025      | 0,80           | 978                          | 11300            | YPM<br>YPFM                                                                                                                                                                | 73 / 100 L 4b  | 375 | 71  |
|                | 31                          | 44,507      | 0,90           | 870                          | 11300            |                                                                                                                                                                            |                |     |     |
|                | 33                          | 42,513      | 0,95           | 831                          | 11300            |                                                                                                                                                                            |                |     |     |
|                | 37                          | 37,650      | 1,08           | 736                          | 11300            |                                                                                                                                                                            |                |     |     |
|                | 42                          | 33,415      | 1,21           | 654                          | 11300            |                                                                                                                                                                            |                |     |     |
|                | 47                          | 29,693      | 1,35           | 581                          | 11300            |                                                                                                                                                                            |                |     |     |
| 8              | 57                          | 24,688      | 1,65           | 490                          | 11000            | YPM<br>YPFM                                                                                                                                                                | 72 / 100 L 4b  | 375 | 68  |
|                | 64                          | 21,956      | 1,85           | 436                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 70                          | 19,886      | 2,10           | 395                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 80                          | 17,561      | 2,30           | 349                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 90                          | 15,609      | 2,60           | 310                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 100                         | 13,945      | 3,00           | 277                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 112                         | 12,511      | 3,30           | 248                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 124                         | 11,263      | 3,60           | 224                          | 11000            |                                                                                                                                                                            |                |     |     |
|                | 138                         | 10,165      | 4,00           | 202                          | 11000            |                                                                                                                                                                            |                |     |     |





| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                           | Tip                         |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------------------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                           | Type                        |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                           | Typ                         |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                           |                             |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |                           |                             |                                                                                     | kg                                                                                  |
| <b>3</b>       | <b>77</b>                   | 18,153      | 1,10           | 360                          | 4780             | <b>YPM</b>                | <b>62 / 100 L 4b</b>        | 373                                                                                 | 48                                                                                  |
|                |                             |             |                |                              |                  | <b>YPFM</b>               |                             | 374                                                                                 | 50                                                                                  |
| <b>4</b>       | <b>70</b>                   | 20,028      | 1,03           | 398                          | 4830             | <b>YPM</b><br><b>YPFM</b> | <b>62 / 100 L 4b</b>        | 373                                                                                 | 48                                                                                  |
|                |                             | 85          | 1,21           | 328                          | 4730             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 95          | 1,35           | 291                          | 4630             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 105         | 1,50           | 264                          | 4630             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 116         | 1,65           | 240                          | 4530             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 121         | 1,75           | 231                          | 4530             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 139         | 1,85           | 200                          | 4530             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 152         | 2,10           | 183                          | 4530             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 165         | 2,00           | 169                          | 4330             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 172         | 2,40           | 161                          | 4330             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 194         | 2,70           | 143                          | 4330             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 219         | 3,00           | 127                          | 4330             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 247         | 3,40           | 113                          | 4330             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 114         | 0,82           | 244                          | 3320             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 126         | 0,90           | 220                          | 3320             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 140         | 0,99           | 198                          | 2920             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 155         | 1,10           | 180                          | 2920             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 163         | 1,14           | 171                          | 2920             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 184         | 1,30           | 151                          | 2920             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 217         | 1,00           | 128                          | 2920             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 241         | 1,10           | 115                          | 2810             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 268         | 1,15           | 104                          | 2810             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 297         | 1,20           | 94                           | 2810             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 328         | 1,30           | 85                           | 2810             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 346         | 1,90           | 80                           | 2810             |                           |                             |                                                                                     |                                                                                     |
|                |                             | 391         | 2,00           | 71                           | 2810             |                           |                             |                                                                                     |                                                                                     |
| <b>4</b>       | <b>4,5</b>                  | 309         | 0,94           | 7818                         | 61500            | <b>YPM</b><br><b>YPFM</b> | <b>123 İR 72 / 112 M 4b</b> | 397                                                                                 | 314                                                                                 |
|                |                             | 279         | 1,03           | 7059                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 253         | 1,14           | 6401                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 229         | 1,25           | 5794                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 5,6         | 1,15           | 6516                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 6,4         | 1,32           | 5728                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 7,2         | 1,49           | 5091                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,0         | 1,65           | 4565                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,9         | 1,81           | 4122                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 2,00           | 3746                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 2,30           | 3421                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 2,40           | 3138                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 13          | 2,60           | 2754                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 15          | 2,90           | 2487                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 3,20           | 2260                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 18          | 3,50           | 2064                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,7         | 0,94           | 4186                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 1,10           | 3751                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 1,24           | 3385                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 1,38           | 3073                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 14          | 1,62           | 2608                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 1,68           | 2333                         | 27600            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 19          | 2,00           | 1953                         | 27500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 21          | 2,30           | 1721                         | 27300            |                           |                             |                                                                                     |                                                                                     |
| <b>5,5</b>     | <b>5,5</b>                  | 253         | 1,14           | 6401                         | 61500            | <b>YPM</b><br><b>YPFM</b> | <b>123 / 112 M 4b</b>       | 383                                                                                 | 285                                                                                 |
|                |                             | 229         | 1,25           | 5794                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 5,6         | 1,15           | 6516                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 6,4         | 1,32           | 5728                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 7,2         | 1,49           | 5091                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,0         | 1,65           | 4565                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,9         | 1,81           | 4122                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 2,00           | 3746                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 2,30           | 3421                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 2,40           | 3138                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 13          | 2,60           | 2754                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 15          | 2,90           | 2487                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 3,20           | 2260                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 18          | 3,50           | 2064                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,7         | 0,94           | 4186                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 1,10           | 3751                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 1,24           | 3385                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 1,38           | 3073                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 14          | 1,62           | 2608                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 1,68           | 2333                         | 27600            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 19          | 2,00           | 1953                         | 27500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 21          | 2,30           | 1721                         | 27300            |                           |                             |                                                                                     |                                                                                     |
| <b>4</b>       | <b>4,5</b>                  | 309         | 0,94           | 7818                         | 61500            | <b>YPM</b><br><b>YPFM</b> | <b>103 / 112 M 4b</b>       | 381                                                                                 | 212                                                                                 |
|                |                             | 279         | 1,03           | 7059                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 253         | 1,14           | 6401                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 229         | 1,25           | 5794                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 5,6         | 1,15           | 6516                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 6,4         | 1,32           | 5728                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 7,2         | 1,49           | 5091                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,0         | 1,65           | 4565                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,9         | 1,81           | 4122                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 2,00           | 3746                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 2,30           | 3421                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 2,40           | 3138                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 13          | 2,60           | 2754                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 15          | 2,90           | 2487                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 3,20           | 2260                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 18          | 3,50           | 2064                         | 61500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 8,7         | 0,94           | 4186                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 9,7         | 1,10           | 3751                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 11          | 1,24           | 3385                         | 27800            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 12          | 1,38           | 3073                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 14          | 1,62           | 2608                         | 27700            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 16          | 1,68           | 2333                         | 27600            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 19          | 2,00           | 1953                         | 27500            |                           |                             |                                                                                     |                                                                                     |
|                |                             | 21          | 2,30           | 1721                         | 27300            |                           |                             |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             | Tip                   |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             | Type                  |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             | Typ                   |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                       |  |  |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                       |                                                                                     | kg                                                                                  |
| <b>4</b>       | <b>24</b>                   | 58,65       | 2,70           | 1529                         | 27000            |             |                       |                                                                                     |                                                                                     |
|                | <b>27</b>                   | 52,48       | 2,90           | 1368                         | 27000            | <b>YPM</b>  | <b>103 / 112 M 4b</b> | 381                                                                                 | 212                                                                                 |
|                | <b>30</b>                   | 47,22       | 3,30           | 1231                         | 26900            | <b>YPFM</b> |                       | 382                                                                                 | 232                                                                                 |
|                | <b>33</b>                   | 42,69       | 3,70           | 1113                         | 26900            |             |                       |                                                                                     |                                                                                     |
| <b>5,5</b>     | <b>12</b>                   | 115,560     | 0,94           | 3013                         | 20800            |             | <b>93 / 112 M 4b</b>  |                                                                                     |                                                                                     |
|                | <b>13</b>                   | 104,358     | 1,02           | 2721                         | 20800            |             |                       |                                                                                     |                                                                                     |
|                | <b>15</b>                   | 92,730      | 1,18           | 2418                         | 20800            |             |                       |                                                                                     |                                                                                     |
|                | <b>16</b>                   | 86,391      | 1,26           | 2253                         | 20800            |             |                       |                                                                                     |                                                                                     |
|                | <b>18</b>                   | 77,023      | 1,43           | 2008                         | 20800            |             |                       |                                                                                     |                                                                                     |
|                | <b>20</b>                   | 69,154      | 1,54           | 1803                         | 20650            | <b>YPM</b>  |                       | 379                                                                                 | 133                                                                                 |
|                | <b>22</b>                   | 62,450      | 1,76           | 1628                         | 20650            | <b>YPFM</b> |                       | 380                                                                                 | 136                                                                                 |
|                | <b>25</b>                   | 55,494      | 1,92           | 1447                         | 20500            |             |                       |                                                                                     |                                                                                     |
|                | <b>28</b>                   | 49,802      | 2,10           | 1299                         | 20500            |             |                       |                                                                                     |                                                                                     |
|                | <b>31</b>                   | 44,895      | 2,40           | 1171                         | 20400            |             |                       |                                                                                     |                                                                                     |
|                | <b>34</b>                   | 40,622      | 2,60           | 1059                         | 20400            |             |                       |                                                                                     |                                                                                     |
|                | <b>38</b>                   | 36,866      | 2,90           | 961                          | 20000            |             |                       |                                                                                     |                                                                                     |
|                | <b>42</b>                   | 33,540      | 3,20           | 875                          | 20000            |             |                       |                                                                                     |                                                                                     |
|                | <b>44</b>                   | 31,956      | 3,00           | 846                          | 19500            | <b>YPM</b>  | <b>92 / 112 M 4b</b>  | 379                                                                                 | 130                                                                                 |
|                | <b>49</b>                   | 28,840      | 3,30           | 763                          | 19000            | <b>YPFM</b> |                       | 380                                                                                 | 133                                                                                 |
|                | <b>53</b>                   | 26,185      | 3,90           | 693                          | 19000            |             |                       |                                                                                     |                                                                                     |
|                | <b>21</b>                   | 66,926      | 0,90           | 1745                         | 15750            |             | <b>83 / 112 M 4b</b>  |                                                                                     |                                                                                     |
|                | <b>23</b>                   | 60,088      | 0,98           | 1567                         | 15750            |             |                       |                                                                                     |                                                                                     |
|                | <b>26</b>                   | 54,263      | 1,09           | 1415                         | 15700            |             |                       |                                                                                     |                                                                                     |
|                | <b>29</b>                   | 48,219      | 1,24           | 1257                         | 15700            |             |                       |                                                                                     |                                                                                     |
|                | <b>33</b>                   | 42,582      | 1,39           | 1110                         | 15700            | <b>YPM</b>  |                       | 377                                                                                 | 111                                                                                 |
|                | <b>41</b>                   | 33,814      | 1,72           | 882                          | 15600            | <b>YPFM</b> |                       | 378                                                                                 | 117                                                                                 |
|                | <b>46</b>                   | 30,337      | 1,95           | 791                          | 15600            |             |                       |                                                                                     |                                                                                     |
|                | <b>51</b>                   | 27,309      | 2,10           | 712                          | 15600            |             |                       |                                                                                     |                                                                                     |
|                | <b>57</b>                   | 24,648      | 2,40           | 643                          | 15600            |             |                       |                                                                                     |                                                                                     |
|                | <b>63</b>                   | 22,291      | 2,60           | 581                          | 15600            |             |                       |                                                                                     |                                                                                     |
|                | <b>54</b>                   | 25,842      | 1,87           | 684                          | 15200            |             | <b>82 / 112 M 4b</b>  |                                                                                     |                                                                                     |
|                | <b>61</b>                   | 23,040      | 2,10           | 610                          | 15200            |             |                       |                                                                                     |                                                                                     |
|                | <b>68</b>                   | 20,686      | 2,30           | 548                          | 15200            |             |                       |                                                                                     |                                                                                     |
|                | <b>75</b>                   | 18,680      | 2,60           | 495                          | 14850            |             |                       |                                                                                     |                                                                                     |
|                | <b>84</b>                   | 16,600      | 2,90           | 439                          | 14850            | <b>YPM</b>  |                       | 377                                                                                 | 108                                                                                 |
|                | <b>94</b>                   | 14,897      | 3,20           | 394                          | 14800            | <b>YPFM</b> |                       | 378                                                                                 | 114                                                                                 |
|                | <b>104</b>                  | 13,429      | 3,60           | 356                          | 14800            |             |                       |                                                                                     |                                                                                     |
|                | <b>115</b>                  | 12,151      | 3,90           | 322                          | 14550            |             |                       |                                                                                     |                                                                                     |
|                | <b>121</b>                  | 11,571      | 3,90           | 306                          | 14450            |             |                       |                                                                                     |                                                                                     |
|                | <b>127</b>                  | 11,027      | 4,40           | 292                          | 14450            |             |                       |                                                                                     |                                                                                     |
|                | <b>134</b>                  | 10,449      | 4,20           | 277                          | 14350            |             |                       |                                                                                     |                                                                                     |
|                | <b>57</b>                   | 24,688      | 1,23           | 654                          | 11000            |             | <b>72 / 112 M 4b</b>  |                                                                                     |                                                                                     |
|                | <b>64</b>                   | 21,956      | 1,39           | 581                          | 11000            |             |                       |                                                                                     |                                                                                     |
|                | <b>70</b>                   | 19,886      | 1,57           | 526                          | 11000            |             |                       |                                                                                     |                                                                                     |
|                | <b>80</b>                   | 17,561      | 1,76           | 465                          | 11000            |             |                       |                                                                                     |                                                                                     |
|                | <b>90</b>                   | 15,609      | 1,98           | 413                          | 11000            |             |                       |                                                                                     |                                                                                     |
|                | <b>100</b>                  | 13,945      | 2,20           | 369                          | 11000            | <b>YPM</b>  |                       | 375                                                                                 | 75                                                                                  |
|                | <b>112</b>                  | 12,511      | 2,40           | 331                          | 11000            | <b>YPFM</b> |                       | 376                                                                                 | 79                                                                                  |
|                | <b>124</b>                  | 11,263      | 2,70           | 298                          | 11000            |             |                       |                                                                                     |                                                                                     |
|                | <b>138</b>                  | 10,165      | 3,00           | 269                          | 10850            |             |                       |                                                                                     |                                                                                     |
|                | <b>152</b>                  | 9,193       | 3,40           | 243                          | 10850            |             |                       |                                                                                     |                                                                                     |
|                | <b>168</b>                  | 8,326       | 3,70           | 220                          | 10850            |             |                       |                                                                                     |                                                                                     |



| P <sub>1</sub>        | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                           |                       | Tip<br>Type<br>Typ |     |     |
|-----------------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------------------|-----------------------|--------------------|-----|-----|
| GÜÇ                   | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                           |                       |                    |     |     |
| Power                 | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                           |                       |                    |     |     |
| Leistung              | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                           |                       |                    |     |     |
| [kW]<br>Hp            | [r.p.m]                     |             |                | [Nm]                         | [N]              |                           |                       |                    | kg  |     |
| <b>4</b><br><br>5,5   | 179                         | 7,831       | 3,20           | 207                          | 10850            | <b>YPM</b><br><b>YPFM</b> | <b>72 / 112 M 4b</b>  |                    | 375 | 75  |
|                       | 185                         | 7,548       | 4,10           | 200                          | 10850            |                           |                       |                    |     |     |
|                       | 200                         | 6,996       | 3,40           | 185                          | 10500            |                           |                       |                    |     |     |
|                       | 223                         | 6,277       | 3,70           | 166                          | 10500            |                           |                       |                    |     |     |
|                       | 248                         | 5,650       | 3,90           | 150                          | 10500            |                           |                       |                    |     |     |
|                       | 275                         | 5,100       | 4,10           | 135                          | 10500            |                           |                       |                    |     |     |
|                       | 304                         | 4,612       | 4,30           | 122                          | 10500            |                           |                       |                    |     |     |
|                       | 85                          | 16,501      | 0,91           | 437                          | 4280             | <b>YPM</b><br><b>YPFM</b> | <b>62 / 112 L 4b</b>  |                    | 373 | 48  |
|                       | 95                          | 14,671      | 1,01           | 388                          | 4430             |                           |                       |                    |     |     |
|                       | 105                         | 13,290      | 1,12           | 352                          | 4330             |                           |                       |                    |     |     |
|                       | 116                         | 12,087      | 1,23           | 320                          | 4330             |                           |                       |                    |     |     |
|                       | 121                         | 11,617      | 1,31           | 308                          | 4230             |                           |                       |                    |     |     |
|                       | 139                         | 10,094      | 1,38           | 267                          | 4230             |                           |                       |                    |     |     |
|                       | 152                         | 9,207       | 1,60           | 244                          | 4230             |                           |                       |                    |     |     |
|                       | 165                         | 8,509       | 1,54           | 225                          | 4230             |                           |                       |                    |     |     |
|                       | 172                         | 8,128       | 1,81           | 215                          | 4180             |                           |                       |                    |     |     |
|                       | 194                         | 7,198       | 2,00           | 191                          | 4130             |                           |                       |                    |     |     |
|                       | 219                         | 6,388       | 2,30           | 169                          | 4030             |                           |                       |                    |     |     |
|                       | 247                         | 5,667       | 2,60           | 150                          | 4030             |                           |                       |                    |     |     |
| <b>5,5</b><br><br>7,5 | 5,6                         | 249,866     | 0,96           | 8959                         | 61000            | <b>YPM</b><br><b>YPFM</b> | <b>123 / C112 M 4</b> |                    | 383 | 286 |
|                       |                             |             |                |                              |                  |                           |                       |                    | 384 | 316 |
|                       | 6,4                         | 219,677     | 1,08           | 7876                         | 60900            | <b>YPM</b><br><b>YPFM</b> | <b>123 / 132 S 4c</b> |                    | 383 | 298 |
|                       | 7,2                         | 195,237     | 1,20           | 7000                         | 60900            |                           |                       |                    |     |     |
|                       | 8,0                         | 175,048     | 1,32           | 6276                         | 60900            |                           |                       |                    |     |     |
|                       | 8,9                         | 158,089     | 1,48           | 5668                         | 60900            |                           |                       |                    |     |     |
|                       | 9,7                         | 143,643     | 1,64           | 5150                         | 60900            |                           |                       |                    |     |     |
|                       | 11                          | 131,189     | 1,75           | 4704                         | 60900            |                           |                       |                    |     |     |
|                       | 12                          | 120,342     | 1,91           | 4315                         | 60500            |                           |                       |                    |     |     |
|                       | 13                          | 105,607     | 2,10           | 3787                         | 60500            |                           |                       |                    |     |     |
|                       | 15                          | 95,376      | 2,30           | 3420                         | 60500            |                           |                       |                    |     |     |
|                       | 16                          | 86,660      | 2,50           | 3107                         | 60500            |                           |                       |                    |     |     |
|                       | 18                          | 79,147      | 2,80           | 2838                         | 60500            |                           |                       |                    |     |     |
|                       | 19                          | 72,603      | 3,20           | 2603                         | 60500            |                           |                       |                    |     |     |
|                       | 22                          | 64,730      | 3,60           | 2321                         | 60500            |                           |                       |                    |     |     |
|                       | 24                          | 57,163      | 4,00           | 2050                         | 60500            |                           |                       |                    |     |     |
|                       | 11                          | 129,81      | 0,90           | 4654                         | 27500            | <b>YPM</b><br><b>YPFM</b> | <b>103 / 132 S 4c</b> |                    | 381 | 225 |
|                       | 12                          | 117,86      | 1,00           | 4226                         | 27500            |                           |                       |                    |     |     |
|                       | 14                          | 100,00      | 1,18           | 3585                         | 27400            |                           |                       |                    |     |     |
|                       | 16                          | 89,48       | 1,22           | 3208                         | 27400            |                           |                       |                    |     |     |
|                       | 19                          | 74,89       | 1,50           | 2685                         | 27300            |                           |                       |                    |     |     |
|                       | 21                          | 65,99       | 1,70           | 2366                         | 27200            |                           |                       |                    |     |     |
|                       | 24                          | 58,65       | 1,95           | 2103                         | 27100            |                           |                       |                    |     |     |
|                       | 27                          | 52,48       | 2,16           | 1882                         | 26900            |                           |                       |                    |     |     |
|                       | 30                          | 47,22       | 2,40           | 1693                         | 26750            |                           |                       |                    |     |     |
|                       | 33                          | 42,69       | 2,70           | 1531                         | 26600            |                           |                       |                    |     |     |
|                       | 40                          | 35,28       | 3,20           | 1265                         | 26600            |                           |                       |                    |     |     |
|                       | 43                          | 32,20       | 3,40           | 1155                         | 26600            |                           |                       |                    |     |     |
|                       | 49                          | 28,84       | 3,46           | 1034                         | 26500            |                           |                       |                    |     |     |
|                       | 16                          | 86,391      | 0,92           | 3098                         | 19400            | <b>YPM</b><br><b>YPFM</b> | <b>93 / C112 M 4</b>  |                    | 379 | 134 |
|                       | 18                          | 77,023      | 1,04           | 2762                         | 19400            |                           |                       |                    | 380 | 137 |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |               | Tip  |  |  |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|---------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |               | Type |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |               | Typ  |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |               |      |                                                                                     |                                                                                     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |               |      |                                                                                     |                                                                                     |
| 5,5<br>7,5     | 20                          | 69,154      | 1,12           | 2479                         | 19400            | YPM<br>YPFM | 93 / 132 S 4c |      | 379                                                                                 | 146                                                                                 |
|                | 22                          | 62,450      | 1,28           | 2239                         | 19400            |             |               |      |                                                                                     |                                                                                     |
|                | 25                          | 55,494      | 1,40           | 1990                         | 19300            |             |               |      |                                                                                     |                                                                                     |
|                | 28                          | 49,802      | 1,56           | 1786                         | 19300            |             |               |      |                                                                                     |                                                                                     |
|                | 31                          | 44,895      | 1,76           | 1610                         | 19150            |             |               |      |                                                                                     |                                                                                     |
|                | 34                          | 40,622      | 1,92           | 1456                         | 19150            |             |               |      |                                                                                     |                                                                                     |
|                | 38                          | 36,866      | 2,10           | 1322                         | 18750            |             |               |      |                                                                                     |                                                                                     |
|                | 42                          | 33,540      | 2,30           | 1203                         | 18750            |             |               |      |                                                                                     |                                                                                     |
|                | 46                          | 30,573      | 2,50           | 1096                         | 18500            |             |               |      |                                                                                     |                                                                                     |
|                | 50                          | 27,911      | 2,80           | 1001                         | 18500            |             |               |      |                                                                                     |                                                                                     |
|                | 44                          | 31,956      | 2,20           | 1163                         | 18500            | YPM<br>YPFM | 92 / C112 M 4 |      | 379                                                                                 | 131                                                                                 |
|                |                             |             |                |                              |                  |             |               | 380  | 134                                                                                 |                                                                                     |
|                | 49                          | 28,840      | 2,40           | 1050                         | 18500            | YPM<br>YPFM | 92 / 132 S 4c |      | 379                                                                                 | 143                                                                                 |
|                | 53                          | 26,185      | 2,80           | 953                          | 18000            |             |               |      |                                                                                     |                                                                                     |
|                | 64                          | 21,903      | 3,10           | 797                          | 18000            |             |               |      |                                                                                     |                                                                                     |
|                | 33                          | 42,582      | 1,00           | 1527                         | 15300            | YPM<br>YPFM | 83 / 132 S 4c |      | 377                                                                                 | 124                                                                                 |
|                | 41                          | 33,814      | 1,25           | 1212                         | 15100            |             |               |      |                                                                                     |                                                                                     |
|                | 46                          | 30,337      | 1,42           | 1088                         | 15000            |             |               |      |                                                                                     |                                                                                     |
|                | 51                          | 27,309      | 1,55           | 979                          | 15000            |             |               |      |                                                                                     |                                                                                     |
|                | 57                          | 24,648      | 1,75           | 884                          | 15000            |             |               |      |                                                                                     |                                                                                     |
|                | 63                          | 22,291      | 1,91           | 799                          | 15000            |             |               |      |                                                                                     |                                                                                     |
|                | 54                          | 25,842      | 1,36           | 941                          | 14950            | YPM<br>YPFM | 82 / 132 S 4c |      | 377                                                                                 | 121                                                                                 |
|                | 61                          | 23,040      | 1,52           | 839                          | 14950            |             |               |      |                                                                                     |                                                                                     |
|                | 68                          | 20,686      | 1,69           | 753                          | 14950            |             |               |      |                                                                                     |                                                                                     |
|                | 75                          | 18,680      | 1,91           | 680                          | 14600            |             |               |      |                                                                                     |                                                                                     |
|                | 84                          | 16,600      | 2,10           | 604                          | 14600            |             |               |      |                                                                                     |                                                                                     |
|                | 94                          | 14,897      | 2,30           | 542                          | 14550            |             |               |      |                                                                                     |                                                                                     |
|                | 104                         | 13,429      | 2,60           | 489                          | 14550            |             |               |      |                                                                                     |                                                                                     |
|                | 115                         | 12,151      | 2,90           | 442                          | 14300            |             |               |      |                                                                                     |                                                                                     |
|                | 121                         | 11,571      | 2,90           | 421                          | 14200            |             |               |      |                                                                                     |                                                                                     |
|                | 127                         | 11,027      | 3,20           | 401                          | 14200            |             |               |      |                                                                                     |                                                                                     |
|                | 134                         | 10,449      | 3,00           | 380                          | 14100            |             |               |      |                                                                                     |                                                                                     |
|                | 140                         | 10,032      | 3,70           | 365                          | 14100            |             |               |      |                                                                                     |                                                                                     |
|                | 151                         | 9,285       | 3,60           | 338                          | 13800            |             |               |      |                                                                                     |                                                                                     |
|                | 168                         | 8,333       | 3,60           | 303                          | 13800            |             |               |      |                                                                                     |                                                                                     |
|                | 186                         | 7,512       | 3,90           | 273                          | 13600            |             |               |      |                                                                                     |                                                                                     |
|                | 206                         | 6,797       | 4,00           | 247                          | 13500            |             |               |      |                                                                                     |                                                                                     |
|                | 227                         | 6,168       | 4,00           | 225                          | 13500            |             |               |      |                                                                                     |                                                                                     |
|                | 249                         | 5,612       | 4,20           | 204                          | 13300            |             |               |      |                                                                                     |                                                                                     |
|                | 274                         | 5,115       | 4,40           | 186                          | 13000            |             |               |      |                                                                                     |                                                                                     |
|                | 300                         | 4,670       | 4,60           | 170                          | 12750            |             |               |      |                                                                                     |                                                                                     |
|                | 328                         | 4,268       | 4,80           | 155                          | 12500            |             |               |      |                                                                                     |                                                                                     |
|                | 57                          | 24,688      | 0,90           | 899                          | 10500            | YPM<br>YPFM | 72 / C112 M 4 |      | 375                                                                                 | 76                                                                                  |
|                | 64                          | 21,956      | 1,00           | 799                          | 10500            |             |               |      |                                                                                     |                                                                                     |
|                | 70                          | 19,886      | 1,15           | 724                          | 10500            |             |               |      |                                                                                     |                                                                                     |
|                | 80                          | 17,561      | 1,28           | 639                          | 10500            | YPM<br>YPFM | 72 / 132 S 4c |      | 375                                                                                 | 88                                                                                  |
|                | 90                          | 15,609      | 1,44           | 568                          | 10500            |             |               |      |                                                                                     |                                                                                     |
|                | 100                         | 13,945      | 1,64           | 508                          | 10500            |             |               |      |                                                                                     |                                                                                     |
|                | 112                         | 12,511      | 1,80           | 455                          | 10200            |             |               |      |                                                                                     |                                                                                     |
|                | 124                         | 11,263      | 2,00           | 410                          | 10200            |             |               |      |                                                                                     |                                                                                     |
|                | 138                         | 10,165      | 2,20           | 370                          | 10200            |             |               |      |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                                                                                     |                                                                                           |            |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip         |                                                                                     |                                                                                           |            |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type        |                                                                                     |                                                                                           |            |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ         |                                                                                     |                                                                                           |            |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |  | <br>kg |            |
| 5,5<br>7,5     | 152                         | 9,193       | 2,50           | 335                          | 10200            | YPM<br>YPFM | 72 / 132 S 4c                                                                       | 375<br>376                                                                                | 88<br>92   |
|                | 168                         | 8,326       | 2,70           | 303                          | 10200            |             |                                                                                     |                                                                                           |            |
|                | 179                         | 7,831       | 2,30           | 285                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 185                         | 7,548       | 3,00           | 275                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 200                         | 6,996       | 2,50           | 255                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 223                         | 6,277       | 2,70           | 228                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 248                         | 5,650       | 2,80           | 206                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 275                         | 5,100       | 3,00           | 186                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 304                         | 4,612       | 3,10           | 168                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 335                         | 4,177       | 3,30           | 152                          | 10000            |             |                                                                                     |                                                                                           |            |
|                | 361                         | 3,878       | 3,40           | 141                          | 10000            |             |                                                                                     |                                                                                           |            |
| 7,5<br>10      | 8,0                         | 175,048     | 0,88           | 8559                         | 60000            | YPM<br>YPFM | 123 / 132 M 4b                                                                      | 383<br>384                                                                                | 309<br>339 |
|                | 8,9                         | 158,089     | 0,97           | 7729                         | 60000            |             |                                                                                     |                                                                                           |            |
|                | 9,7                         | 143,643     | 1,08           | 7023                         | 59000            |             |                                                                                     |                                                                                           |            |
|                | 11                          | 131,189     | 1,20           | 6414                         | 59000            |             |                                                                                     |                                                                                           |            |
|                | 12                          | 120,342     | 1,28           | 5884                         | 58000            |             |                                                                                     |                                                                                           |            |
|                | 13                          | 105,607     | 1,40           | 5163                         | 57500            |             |                                                                                     |                                                                                           |            |
|                | 15                          | 95,376      | 1,56           | 4663                         | 57000            |             |                                                                                     |                                                                                           |            |
|                | 16                          | 86,660      | 1,72           | 4237                         | 57000            |             |                                                                                     |                                                                                           |            |
|                | 18                          | 79,147      | 1,87           | 3870                         | 57000            |             |                                                                                     |                                                                                           |            |
|                | 19                          | 72,603      | 2,10           | 3550                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 22                          | 64,730      | 2,30           | 3165                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 24                          | 57,163      | 2,60           | 2795                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 28                          | 50,808      | 2,90           | 2484                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 31                          | 45,393      | 3,40           | 2219                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 34                          | 40,726      | 3,70           | 1991                         | 55000            |             |                                                                                     |                                                                                           |            |
|                | 16                          | 89,48       | 0,90           | 4375                         | 27000            | YPM<br>YPFM | 103 / 132 M 4b                                                                      | 381<br>382                                                                                | 236<br>256 |
|                | 19                          | 74,89       | 1,10           | 3661                         | 27000            |             |                                                                                     |                                                                                           |            |
|                | 21                          | 65,99       | 1,25           | 3227                         | 26900            |             |                                                                                     |                                                                                           |            |
|                | 24                          | 58,65       | 1,43           | 2867                         | 26900            |             |                                                                                     |                                                                                           |            |
|                | 27                          | 52,48       | 1,58           | 2566                         | 26750            |             |                                                                                     |                                                                                           |            |
|                | 30                          | 47,22       | 1,76           | 2309                         | 26650            |             |                                                                                     |                                                                                           |            |
|                | 33                          | 42,69       | 1,98           | 2087                         | 26550            |             |                                                                                     |                                                                                           |            |
|                | 40                          | 35,28       | 2,30           | 1725                         | 26400            |             |                                                                                     |                                                                                           |            |
|                | 43                          | 32,20       | 2,50           | 1575                         | 26200            |             |                                                                                     |                                                                                           |            |
|                | 49                          | 28,84       | 2,80           | 1410                         | 26000            |             |                                                                                     |                                                                                           |            |
|                | 58                          | 24,18       | 3,40           | 1182                         | 26000            | YPM<br>YPFM | 102 / 132 M 4b                                                                      | 381<br>382                                                                                | 231<br>251 |
|                | 69                          | 20,39       | 4,00           | 997                          | 25800            |             |                                                                                     |                                                                                           |            |
|                | 25                          | 55,494      | 1,03           | 2713                         | 18800            | YPM<br>YPFM | 93 / 132 M 4b                                                                       | 379<br>380                                                                                | 157<br>160 |
|                | 28                          | 49,802      | 1,14           | 2435                         | 18800            |             |                                                                                     |                                                                                           |            |
|                | 31                          | 44,895      | 1,29           | 2195                         | 18650            |             |                                                                                     |                                                                                           |            |
|                | 34                          | 40,622      | 1,41           | 1986                         | 18650            |             |                                                                                     |                                                                                           |            |
|                | 38                          | 36,866      | 1,55           | 1802                         | 18250            |             |                                                                                     |                                                                                           |            |
|                | 42                          | 33,540      | 1,70           | 1640                         | 18250            |             |                                                                                     |                                                                                           |            |
|                | 46                          | 30,573      | 1,88           | 1495                         | 18000            |             |                                                                                     |                                                                                           |            |
|                | 50                          | 27,911      | 2,10           | 1365                         | 18000            |             |                                                                                     |                                                                                           |            |
|                | 49                          | 28,840      | 1,76           | 1432                         | 18000            | YPM<br>YPFM | 92 / 132 M 4b                                                                       | 379<br>380                                                                                | 154<br>157 |
|                | 53                          | 26,185      | 2,10           | 1300                         | 18500            |             |                                                                                     |                                                                                           |            |
|                | 64                          | 21,903      | 2,30           | 1087                         | 18500            |             |                                                                                     |                                                                                           |            |
|                | 66                          | 21,343      | 2,80           | 1059                         | 18000            |             |                                                                                     |                                                                                           |            |



| P <sub>1</sub>   | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             | Tip                   |                                                                                     |                                                                                     |
|------------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ              | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             | Type                  |                                                                                     |                                                                                     |
| Power            | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             | Typ                   |                                                                                     |                                                                                     |
| Leistung         | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                       |  |  |
| [kW]<br>Hp       | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                       |                                                                                     | kg                                                                                  |
| <b>7,5</b><br>10 | 74                          | 18,809      | 3,10           | 934                          | 18000            | YPM         | <b>92 / 132 M 4b</b>  | 379                                                                                 | 154                                                                                 |
|                  | 84                          | 16,715      | 3,40           | 830                          | 17700            | YPFM        |                       | 380                                                                                 | 157                                                                                 |
|                  | 94                          | 14,957      | 3,80           | 742                          | 17700            |             |                       |                                                                                     |                                                                                     |
|                  | 41                          | 33,814      | 0,92           | 1653                         | 14900            | YPM<br>YPFM | <b>83 / 132 M 4b</b>  | 377                                                                                 | 135                                                                                 |
|                  | 46                          | 30,337      | 1,04           | 1483                         | 14800            |             |                       | 378                                                                                 | 141                                                                                 |
|                  | 51                          | 27,309      | 1,14           | 1335                         | 14800            |             |                       |                                                                                     |                                                                                     |
|                  | 57                          | 24,648      | 1,28           | 1205                         | 14800            |             |                       |                                                                                     |                                                                                     |
|                  | 63                          | 22,291      | 1,40           | 1090                         | 14800            |             |                       |                                                                                     |                                                                                     |
|                  | 68                          | 20,686      | 1,24           | 1027                         | 14800            | YPM<br>YPFM | <b>82 / 132 M 4b</b>  |                                                                                     |                                                                                     |
|                  | 75                          | 18,680      | 1,40           | 927                          | 14450            |             |                       |                                                                                     |                                                                                     |
|                  | 84                          | 16,600      | 1,56           | 824                          | 14450            |             |                       |                                                                                     |                                                                                     |
|                  | 94                          | 14,897      | 1,72           | 739                          | 14400            |             |                       |                                                                                     |                                                                                     |
|                  | 104                         | 13,429      | 1,92           | 667                          | 14400            |             |                       |                                                                                     |                                                                                     |
|                  | 121                         | 11,571      | 2,10           | 574                          | 14050            |             |                       |                                                                                     |                                                                                     |
|                  | 127                         | 11,027      | 2,30           | 547                          | 14050            |             |                       |                                                                                     |                                                                                     |
|                  | 134                         | 10,449      | 2,20           | 519                          | 13950            |             |                       |                                                                                     |                                                                                     |
|                  | 140                         | 10,032      | 2,70           | 498                          | 13950            |             |                       | 377                                                                                 | 132                                                                                 |
|                  | 151                         | 9,285       | 2,70           | 461                          | 13650            |             |                       | 378                                                                                 | 138                                                                                 |
|                  | 168                         | 8,333       | 2,70           | 414                          | 13650            |             |                       |                                                                                     |                                                                                     |
|                  | 186                         | 7,512       | 2,90           | 373                          | 13450            |             |                       |                                                                                     |                                                                                     |
|                  | 206                         | 6,797       | 2,90           | 337                          | 13350            |             |                       |                                                                                     |                                                                                     |
|                  | 227                         | 6,168       | 2,90           | 306                          | 13350            |             |                       |                                                                                     |                                                                                     |
|                  | 249                         | 5,612       | 3,10           | 279                          | 13150            |             |                       |                                                                                     |                                                                                     |
|                  | 274                         | 5,115       | 3,20           | 254                          | 12850            |             |                       |                                                                                     |                                                                                     |
|                  | 300                         | 4,670       | 3,40           | 232                          | 12600            |             |                       |                                                                                     |                                                                                     |
|                  | 328                         | 4,268       | 3,50           | 212                          | 12350            |             |                       |                                                                                     |                                                                                     |
|                  | 80                          | 17,561      | 0,94           | 872                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 90                          | 15,609      | 1,05           | 775                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 100                         | 13,945      | 1,20           | 692                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 112                         | 12,511      | 1,32           | 621                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 124                         | 11,263      | 1,46           | 559                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 138                         | 10,165      | 1,60           | 505                          | 10000            |             |                       |                                                                                     |                                                                                     |
|                  | 152                         | 9,193       | 1,81           | 456                          | 9700             |             |                       |                                                                                     |                                                                                     |
|                  | 168                         | 8,326       | 1,97           | 413                          | 9700             |             |                       | 375                                                                                 | 99                                                                                  |
|                  | 179                         | 7,831       | 1,70           | 389                          | 9700             |             |                       | 376                                                                                 | 103                                                                                 |
|                  | 185                         | 7,548       | 2,20           | 375                          | 9700             |             |                       |                                                                                     |                                                                                     |
|                  | 200                         | 6,996       | 1,81           | 347                          | 9700             |             |                       |                                                                                     |                                                                                     |
|                  | 223                         | 6,277       | 1,97           | 312                          | 9700             |             |                       |                                                                                     |                                                                                     |
|                  | 248                         | 5,650       | 2,10           | 280                          | 9450             |             |                       |                                                                                     |                                                                                     |
|                  | 275                         | 5,100       | 2,20           | 253                          | 9450             |             |                       |                                                                                     |                                                                                     |
|                  | 304                         | 4,612       | 2,30           | 229                          | 9450             |             |                       |                                                                                     |                                                                                     |
|                  | 335                         | 4,177       | 2,40           | 207                          | 9450             |             |                       |                                                                                     |                                                                                     |
|                  | 361                         | 3,878       | 2,50           | 192                          | 9450             |             |                       |                                                                                     |                                                                                     |
| <b>11</b><br>15  | 13                          | 105,607     | 0,95           | 7573                         | 57140            | YPM<br>YPFM | <b>123 / 160 M 4b</b> |                                                                                     |                                                                                     |
|                  | 15                          | 95,376      | 1,06           | 6839                         | 56640            |             |                       |                                                                                     |                                                                                     |
|                  | 16                          | 86,660      | 1,17           | 6214                         | 56640            |             |                       |                                                                                     |                                                                                     |
|                  | 18                          | 79,147      | 1,27           | 5676                         | 56640            |             |                       |                                                                                     |                                                                                     |
|                  | 19                          | 72,603      | 1,42           | 5206                         | 54640            |             |                       | 383                                                                                 | 363                                                                                 |
|                  | 22                          | 64,730      | 1,58           | 4642                         | 54640            |             |                       | 384                                                                                 | 393                                                                                 |
|                  | 24                          | 57,163      | 1,79           | 4099                         | 54640            |             |                       |                                                                                     |                                                                                     |
|                  | 28                          | 50,808      | 2,00           | 3643                         | 54640            |             |                       |                                                                                     |                                                                                     |
|                  | 31                          | 45,393      | 2,30           | 3255                         | 54640            |             |                       |                                                                                     |                                                                                     |





| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             | Tip                   |     |     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-----------------------|-----|-----|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             | Type                  |     |     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             | Typ                   |     |     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkkräfte      |             |                       |     |     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                       |     | kg  |
| <b>11</b>      | <b>34</b>                   | 40,726      | 2,50           | 2920                         | 54640            |             |                       |     |     |
|                | <b>38</b>                   | 36,661      | 2,80           | 2629                         | 54350            | <b>YPM</b>  | <b>123 / 160 M 4b</b> | 383 | 363 |
| <b>15</b>      | <b>42</b>                   | 33,088      | 3,10           | 2373                         | 54350            | <b>YPFM</b> |                       | 384 | 393 |
|                | <b>47</b>                   | 29,924      | 3,40           | 2146                         | 54350            |             |                       |     |     |
|                | <b>52</b>                   | 27,102      | 3,80           | 1943                         | 54300            |             |                       |     |     |
|                | <b>38</b>                   | 36,936      | 2,80           | 2689                         | 54350            | <b>YPM</b>  | <b>122 / C132 M 4</b> | 383 | 306 |
|                | <b>43</b>                   | 32,866      | 3,00           | 2393                         | 54350            | <b>YPFM</b> |                       | 384 | 336 |
|                | <b>47</b>                   | 29,504      | 3,30           | 2148                         | 54300            | <b>YPM</b>  | <b>122 / 160 M 4b</b> | 383 | 358 |
|                | <b>52</b>                   | 26,680      | 3,90           | 1942                         | 54300            | <b>YPFM</b> |                       | 384 | 388 |
|                | <b>24</b>                   | 58,65       | 0,97           | 4206                         | 26000            |             | <b>103 / 160 M 4b</b> |     |     |
|                | <b>27</b>                   | 52,48       | 1,08           | 3763                         | 25750            |             |                       |     |     |
|                | <b>30</b>                   | 47,22       | 1,20           | 3386                         | 25650            |             |                       |     |     |
|                | <b>33</b>                   | 42,69       | 1,35           | 3061                         | 25300            | <b>YPM</b>  |                       | 381 | 258 |
|                | <b>40</b>                   | 35,28       | 1,60           | 2530                         | 25100            | <b>YPFM</b> |                       | 382 | 278 |
|                | <b>43</b>                   | 32,20       | 1,74           | 2309                         | 25000            |             |                       |     |     |
|                | <b>49</b>                   | 28,84       | 1,94           | 2068                         | 24900            |             |                       |     |     |
|                | <b>58</b>                   | 24,18       | 2,30           | 1734                         | 24600            |             |                       |     |     |
|                | <b>69</b>                   | 20,39       | 2,70           | 1462                         | 24300            |             |                       |     |     |
|                | <b>53</b>                   | 26,38       | 2,20           | 1920                         | 24300            |             | <b>102 / 160 M 4b</b> |     |     |
|                | <b>58</b>                   | 24,31       | 2,40           | 1770                         | 24300            |             |                       |     |     |
|                | <b>67</b>                   | 20,78       | 2,80           | 1513                         | 24100            | <b>YPM</b>  |                       | 381 | 253 |
|                | <b>76</b>                   | 18,48       | 3,20           | 1345                         | 24000            | <b>YPFM</b> |                       | 382 | 273 |
|                | <b>85</b>                   | 16,55       | 3,60           | 1205                         | 23800            |             |                       |     |     |
|                | <b>94</b>                   | 14,90       | 4,00           | 1085                         | 23600            |             |                       |     |     |
|                | <b>38</b>                   | 36,866      | 1,06           | 2644                         | 17450            |             | <b>93 / 160 M 4b</b>  |     |     |
|                | <b>42</b>                   | 33,540      | 1,16           | 2405                         | 17450            | <b>YPM</b>  |                       | 379 | 211 |
|                | <b>46</b>                   | 30,573      | 1,28           | 2192                         | 17000            | <b>YPFM</b> |                       | 380 | 214 |
|                | <b>50</b>                   | 27,911      | 1,40           | 2001                         | 17000            |             |                       |     |     |
|                | <b>53</b>                   | 26,185      | 1,40           | 1906                         | 17200            |             | <b>92 / 160 M 4b</b>  |     |     |
|                | <b>64</b>                   | 21,903      | 1,55           | 1595                         | 17200            |             |                       |     |     |
|                | <b>66</b>                   | 21,343      | 1,91           | 1554                         | 16700            |             |                       |     |     |
|                | <b>74</b>                   | 18,809      | 2,10           | 1369                         | 16700            | <b>YPM</b>  |                       | 379 | 208 |
|                | <b>84</b>                   | 16,715      | 2,30           | 1217                         | 16300            | <b>YPFM</b> |                       | 380 | 211 |
|                | <b>94</b>                   | 14,957      | 2,60           | 1089                         | 16300            |             |                       |     |     |
|                | <b>104</b>                  | 13,459      | 2,90           | 980                          | 16200            |             |                       |     |     |
|                | <b>115</b>                  | 12,167      | 3,20           | 886                          | 16200            |             |                       |     |     |
|                | <b>68</b>                   | 20,686      | 1,24           | 1506                         | 14500            |             | <b>82 / C132 M 4</b>  |     |     |
|                | <b>75</b>                   | 18,680      | 1,40           | 1360                         | 14100            |             |                       |     |     |
|                | <b>84</b>                   | 16,600      | 1,56           | 1209                         | 14100            |             |                       |     |     |
|                | <b>94</b>                   | 14,897      | 1,72           | 1085                         | 14000            |             |                       |     |     |
|                | <b>104</b>                  | 13,429      | 1,92           | 978                          | 14000            |             |                       |     |     |
|                | <b>121</b>                  | 11,571      | 2,10           | 842                          | 13770            |             |                       |     |     |
|                | <b>127</b>                  | 11,027      | 2,30           | 803                          | 13770            | <b>YPM</b>  |                       | 377 | 134 |
|                | <b>134</b>                  | 10,449      | 2,20           | 761                          | 13600            | <b>YPFM</b> |                       | 378 | 140 |
|                | <b>140</b>                  | 10,032      | 2,70           | 730                          | 13600            |             |                       |     |     |
|                | <b>151</b>                  | 9,285       | 2,70           | 676                          | 13300            |             |                       |     |     |
|                | <b>168</b>                  | 8,333       | 2,70           | 607                          | 13300            |             |                       |     |     |
|                | <b>186</b>                  | 7,512       | 2,90           | 547                          | 13100            |             |                       |     |     |
|                | <b>206</b>                  | 6,797       | 2,90           | 495                          | 13000            |             |                       |     |     |
|                | <b>227</b>                  | 6,168       | 2,90           | 449                          | 13000            |             |                       |     |     |
|                | <b>249</b>                  | 5,612       | 3,10           | 409                          | 12800            |             |                       |     |     |



| P <sub>1</sub>  | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |                           | Tip                   |                                                                                     |                                                                                     |
|-----------------|-----------------------------|-------------|----------------|------------------------------|------------------|---------------------------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ             | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |                           | Type                  |                                                                                     |                                                                                     |
| Power           | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |                           | Typ                   |                                                                                     |                                                                                     |
| Leistung        | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |                           |                       |  |  |
| [kW]<br>Hp      | [r.p.m]                     |             |                | [Nm]                         | [N]              |                           |                       |                                                                                     | kg                                                                                  |
| <b>11</b><br>15 | 274                         | 5,115       | 3,20           | 372                          | 12500            | <b>YPM</b><br><b>YPFM</b> | <b>82 / C132 M 4</b>  | 377                                                                                 | 134                                                                                 |
|                 | 300                         | 4,670       | 3,40           | 340                          | 12250            |                           |                       | 378                                                                                 | 140                                                                                 |
|                 | 328                         | 4,268       | 3,50           | 311                          | 12000            |                           |                       |                                                                                     |                                                                                     |
|                 | 112                         | 12,511      | 0,90           | 911                          | 9500             | <b>YPM</b><br><b>YPFM</b> | <b>72 / C132 M 4</b>  |                                                                                     |                                                                                     |
|                 | 124                         | 11,263      | 1,00           | 820                          | 9500             |                           |                       |                                                                                     |                                                                                     |
|                 | 138                         | 10,165      | 1,09           | 740                          | 9500             |                           |                       |                                                                                     |                                                                                     |
|                 | 152                         | 9,193       | 1,23           | 669                          | 9500             |                           |                       |                                                                                     |                                                                                     |
|                 | 168                         | 8,326       | 1,35           | 606                          | 9350             |                           |                       |                                                                                     |                                                                                     |
|                 | 179                         | 7,831       | 1,16           | 570                          | 9350             |                           |                       |                                                                                     |                                                                                     |
|                 | 185                         | 7,548       | 1,49           | 550                          | 9350             |                           |                       | 375                                                                                 | 101                                                                                 |
|                 | 200                         | 6,996       | 1,24           | 509                          | 9350             |                           |                       | 376                                                                                 | 105                                                                                 |
|                 | 223                         | 6,277       | 1,35           | 457                          | 9350             |                           |                       |                                                                                     |                                                                                     |
|                 | 248                         | 5,650       | 1,42           | 411                          | 9000             |                           |                       |                                                                                     |                                                                                     |
|                 | 275                         | 5,100       | 1,49           | 371                          | 9000             |                           |                       |                                                                                     |                                                                                     |
|                 | 304                         | 4,612       | 1,56           | 336                          | 9000             |                           |                       |                                                                                     |                                                                                     |
|                 | 335                         | 4,177       | 1,64           | 304                          | 9000             |                           |                       |                                                                                     |                                                                                     |
|                 | 361                         | 3,878       | 1,70           | 282                          | 9000             |                           |                       |                                                                                     |                                                                                     |
| <b>15</b><br>20 | 18                          | 79,147      | 0,93           | 7739                         | 55670            | <b>YPM</b><br><b>YPFM</b> | <b>123 / 160 L 4a</b> |                                                                                     |                                                                                     |
|                 | 19                          | 72,603      | 1,04           | 7100                         | 53670            |                           |                       |                                                                                     |                                                                                     |
|                 | 22                          | 64,730      | 1,16           | 6330                         | 53670            |                           |                       |                                                                                     |                                                                                     |
|                 | 24                          | 57,163      | 1,31           | 5590                         | 53670            |                           |                       |                                                                                     |                                                                                     |
|                 | 28                          | 50,808      | 1,47           | 4968                         | 53670            |                           |                       |                                                                                     |                                                                                     |
|                 | 31                          | 45,393      | 1,69           | 4439                         | 53670            |                           |                       | 383                                                                                 | 395                                                                                 |
|                 | 34                          | 40,726      | 1,83           | 3982                         | 53670            |                           |                       | 384                                                                                 | 425                                                                                 |
|                 | 38                          | 36,661      | 2,00           | 3585                         | 53380            |                           |                       |                                                                                     |                                                                                     |
|                 | 42                          | 33,088      | 2,30           | 3236                         | 53380            |                           |                       |                                                                                     |                                                                                     |
|                 | 47                          | 29,924      | 2,50           | 2926                         | 53380            |                           |                       |                                                                                     |                                                                                     |
|                 | 52                          | 27,102      | 2,80           | 2650                         | 53330            |                           |                       |                                                                                     |                                                                                     |
|                 | 57                          | 24,569      | 3,00           | 2402                         | 53000            |                           |                       |                                                                                     |                                                                                     |
|                 | 47                          | 29,504      | 2,40           | 2929                         | 53380            | <b>YPM</b><br><b>YPFM</b> | <b>122 / 160 L 4a</b> | 383                                                                                 | 390                                                                                 |
|                 | 52                          | 26,680      | 2,90           | 2649                         | 53330            |                           |                       | 384                                                                                 | 420                                                                                 |
|                 | 63                          | 22,284      | 3,40           | 2212                         | 53000            |                           |                       |                                                                                     |                                                                                     |
|                 | 71                          | 19,609      | 3,70           | 1947                         | 53000            |                           |                       |                                                                                     |                                                                                     |
|                 | 33                          | 42,69       | 0,99           | 4175                         | 23100            | <b>YPM</b><br><b>YPFM</b> | <b>103 / 160 L 4a</b> |                                                                                     |                                                                                     |
|                 | 40                          | 35,28       | 1,17           | 3449                         | 22850            |                           |                       |                                                                                     |                                                                                     |
|                 | 43                          | 32,20       | 1,27           | 3149                         | 22500            |                           |                       | 381                                                                                 | 273                                                                                 |
|                 | 49                          | 28,84       | 1,42           | 2820                         | 21950            |                           |                       | 382                                                                                 | 293                                                                                 |
|                 | 58                          | 24,18       | 1,70           | 2365                         | 21650            |                           |                       |                                                                                     |                                                                                     |
|                 | 69                          | 20,39       | 2,00           | 1994                         | 21300            |                           |                       |                                                                                     |                                                                                     |
|                 | 53                          | 26,38       | 1,62           | 2619                         | 22450            | <b>YPM</b><br><b>YPFM</b> | <b>102 / 160 L 4a</b> | 381                                                                                 | 268                                                                                 |
|                 | 58                          | 24,31       | 1,80           | 2413                         | 22100            |                           |                       | 382                                                                                 | 288                                                                                 |
|                 | 67                          | 20,78       | 2,10           | 2063                         | 21800            |                           |                       |                                                                                     |                                                                                     |
|                 | 76                          | 18,48       | 2,30           | 1834                         | 21650            |                           |                       |                                                                                     |                                                                                     |
|                 | 85                          | 16,55       | 2,60           | 1643                         | 21250            | <b>YPM</b><br><b>YPFM</b> | <b>102 / 160 L 4a</b> |                                                                                     |                                                                                     |
|                 | 94                          | 14,90       | 2,90           | 1479                         | 20800            |                           |                       |                                                                                     |                                                                                     |
|                 | 104                         | 13,48       | 3,20           | 1338                         | 20550            |                           |                       | 381                                                                                 | 268                                                                                 |
|                 | 114                         | 12,25       | 3,50           | 1216                         | 20350            |                           |                       | 382                                                                                 | 288                                                                                 |
|                 | 125                         | 11,16       | 3,80           | 1108                         | 20000            |                           |                       |                                                                                     |                                                                                     |
|                 | 137                         | 10,20       | 3,80           | 1013                         | 19800            |                           |                       |                                                                                     |                                                                                     |
|                 | 150                         | 9,32        | 3,90           | 925                          | 19600            |                           |                       |                                                                                     |                                                                                     |
|                 | 166                         | 8,41        | 3,90           | 835                          | 19450            |                           |                       |                                                                                     |                                                                                     |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                                                                                     |                                                                                           |            |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip         |                                                                                     |                                                                                           |            |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type        |                                                                                     |                                                                                           |            |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ         |                                                                                     |                                                                                           |            |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |  | <br>kg |            |
| 15<br>20       | 53                          | 26,185      | 1,03           | 2600                         | 13600            | YPM<br>YPFM | 92 / 160 L 4a                                                                       | 379<br>380                                                                                | 240<br>243 |
|                | 64                          | 21,903      | 1,14           | 2174                         | 13600            |             |                                                                                     |                                                                                           |            |
|                | 66                          | 21,343      | 1,40           | 2119                         | 13100            |             |                                                                                     |                                                                                           |            |
|                | 74                          | 18,809      | 1,55           | 1867                         | 13100            |             |                                                                                     |                                                                                           |            |
|                | 84                          | 16,715      | 1,70           | 1659                         | 12700            |             |                                                                                     |                                                                                           |            |
|                | 94                          | 14,957      | 1,90           | 1485                         | 12700            |             |                                                                                     |                                                                                           |            |
|                | 104                         | 13,459      | 2,20           | 1336                         | 12650            |             |                                                                                     |                                                                                           |            |
|                | 115                         | 12,167      | 2,40           | 1208                         | 12650            |             |                                                                                     |                                                                                           |            |
|                | 127                         | 11,043      | 2,60           | 1096                         | 12600            |             |                                                                                     |                                                                                           |            |
|                | 139                         | 10,054      | 2,80           | 998                          | 12600            |             |                                                                                     |                                                                                           |            |
|                | 153                         | 9,179       | 3,10           | 911                          | 12300            |             |                                                                                     |                                                                                           |            |
|                | 167                         | 8,398       | 3,10           | 834                          | 11550            |             |                                                                                     |                                                                                           |            |
|                | 182                         | 7,697       | 3,20           | 764                          | 11400            |             |                                                                                     |                                                                                           |            |
|                | 216                         | 6,491       | 3,30           | 644                          | 11150            |             |                                                                                     |                                                                                           |            |
|                | 235                         | 5,968       | 3,40           | 592                          | 11000            |             |                                                                                     |                                                                                           |            |
|                | 255                         | 5,490       | 3,50           | 545                          | 11000            |             |                                                                                     |                                                                                           |            |
| 340            | 4,115                       | 3,80        | 409            | 10500                        |                  |             |                                                                                     |                                                                                           |            |
| 18,5<br>25     | 22                          | 64,730      | 0,94           | 7807                         | 52000            | YPM<br>YPFM | 123 / 180 M 4b                                                                      | 383<br>384                                                                                | 415<br>445 |
|                | 24                          | 57,163      | 1,06           | 6894                         | 52000            |             |                                                                                     |                                                                                           |            |
|                | 28                          | 50,808      | 1,20           | 6128                         | 51500            |             |                                                                                     |                                                                                           |            |
|                | 31                          | 45,393      | 1,37           | 5475                         | 51500            |             |                                                                                     |                                                                                           |            |
|                | 34                          | 40,726      | 1,49           | 4912                         | 51200            |             |                                                                                     |                                                                                           |            |
|                | 38                          | 36,661      | 1,66           | 4421                         | 51090            |             |                                                                                     |                                                                                           |            |
|                | 42                          | 33,088      | 1,86           | 3990                         | 51000            |             |                                                                                     |                                                                                           |            |
|                | 47                          | 29,924      | 2,00           | 3609                         | 50500            |             |                                                                                     |                                                                                           |            |
|                | 52                          | 27,102      | 2,30           | 3269                         | 50500            |             |                                                                                     |                                                                                           |            |
|                | 57                          | 24,569      | 2,40           | 2963                         | 50000            |             |                                                                                     |                                                                                           |            |
|                | 47                          | 29,504      | 2,40           | 3612                         | 50000            | YPM<br>YPFM | 122 / C160 L 4                                                                      | 383<br>384                                                                                | 400<br>430 |
|                | 52                          | 26,680      | 2,30           | 3267                         | 50000            | YPM<br>YPFM | 122 / 180 M 4b                                                                      | 383<br>384                                                                                | 410<br>440 |
|                | 63                          | 22,284      | 2,70           | 2728                         | 49000            |             |                                                                                     |                                                                                           |            |
|                | 71                          | 19,609      | 3,00           | 2401                         | 48500            |             |                                                                                     |                                                                                           |            |
|                | 80                          | 17,400      | 3,30           | 2130                         | 48000            |             |                                                                                     |                                                                                           |            |
|                | 90                          | 15,544      | 3,70           | 1903                         | 47000            |             |                                                                                     |                                                                                           |            |
|                | 100                         | 13,962      | 4,00           | 1709                         | 47000            |             |                                                                                     |                                                                                           |            |
|                | 58                          | 24,18       | 1,38           | 2917                         | 20300            | YPM<br>YPFM | 103 / 180 M 4b                                                                      | 381<br>382                                                                                | 295<br>315 |
|                | 69                          | 20,39       | 1,62           | 2460                         | 20000            |             |                                                                                     |                                                                                           |            |
|                | 53                          | 26,38       | 1,31           | 3230                         | 20300            | YPM<br>YPFM | 102 / 180 M 4b                                                                      | 381<br>382                                                                                | 290<br>310 |
|                | 58                          | 24,31       | 1,46           | 2977                         | 20000            |             |                                                                                     |                                                                                           |            |
|                | 67                          | 20,78       | 1,72           | 2544                         | 19750            |             |                                                                                     |                                                                                           |            |
|                | 76                          | 18,48       | 1,92           | 2262                         | 19600            |             |                                                                                     |                                                                                           |            |
|                | 85                          | 16,55       | 2,10           | 2026                         | 19500            |             |                                                                                     |                                                                                           |            |
|                | 94                          | 14,90       | 2,30           | 1824                         | 19400            |             |                                                                                     |                                                                                           |            |
|                | 104                         | 13,48       | 2,60           | 1651                         | 19300            |             |                                                                                     |                                                                                           |            |
|                | 114                         | 12,25       | 2,80           | 1500                         | 19150            |             |                                                                                     |                                                                                           |            |
|                | 125                         | 11,16       | 3,00           | 1367                         | 19000            |             |                                                                                     |                                                                                           |            |
|                | 137                         | 10,20       | 3,00           | 1249                         | 19000            |             |                                                                                     |                                                                                           |            |
|                | 150                         | 9,32        | 3,20           | 1141                         | 18850            |             |                                                                                     |                                                                                           |            |
|                | 166                         | 8,41        | 3,20           | 1030                         | 18700            |             |                                                                                     |                                                                                           |            |
|                | 184                         | 7,61        | 3,30           | 932                          | 18650            |             |                                                                                     |                                                                                           |            |
|                | 203                         | 6,89        | 3,20           | 844                          | 18600            |             |                                                                                     |                                                                                           |            |
|                | 224                         | 6,25        | 3,50           | 765                          | 18300            |             |                                                                                     |                                                                                           |            |



| P <sub>1</sub>    | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |      | Tip                   |                                                                                     |                                                                                     |
|-------------------|-----------------------------|-------------|----------------|------------------------------|------------------|------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ               | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |      | Type                  |                                                                                     |                                                                                     |
| Power             | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |      | Typ                   |                                                                                     |                                                                                     |
| Leistung          | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |      |                       |  |  |
| [kW]<br>Hp        | [r.p.m]                     |             |                | [Nm]                         | [N]              |      |                       |                                                                                     | kg                                                                                  |
| <b>18,5</b><br>25 | 245                         | 5,72        | 3,70           | 701                          | 18200            | YPM  | <b>102 / 180 M 4b</b> | 381                                                                                 | 290                                                                                 |
|                   | 270                         | 5,18        | 4,00           | 635                          | 18000            | YPFM |                       | 382                                                                                 | 310                                                                                 |
|                   | 74                          | 18,809      | 1,26           | 2303                         | 11300            |      |                       |                                                                                     |                                                                                     |
|                   | 84                          | 16,715      | 1,38           | 2047                         | 10900            |      |                       |                                                                                     |                                                                                     |
|                   | 94                          | 14,957      | 1,54           | 1831                         | 10900            |      |                       |                                                                                     |                                                                                     |
|                   | 104                         | 13,459      | 1,74           | 1648                         | 10800            |      |                       |                                                                                     |                                                                                     |
|                   | 115                         | 12,167      | 1,91           | 1490                         | 10800            |      |                       |                                                                                     |                                                                                     |
|                   | 127                         | 11,043      | 2,10           | 1352                         | 10700            |      |                       |                                                                                     |                                                                                     |
|                   | 139                         | 10,054      | 2,30           | 1231                         | 10700            | YPM  | <b>92 / 180 M 4b</b>  | 379                                                                                 | 260                                                                                 |
|                   | 153                         | 9,179       | 2,50           | 1124                         | 10500            | YPFM |                       | 380                                                                                 | 263                                                                                 |
|                   | 167                         | 8,398       | 2,50           | 1028                         | 10000            |      |                       |                                                                                     |                                                                                     |
|                   | 182                         | 7,697       | 2,60           | 942                          | 9600             |      |                       |                                                                                     |                                                                                     |
|                   | 216                         | 6,491       | 2,70           | 795                          | 9600             |      |                       |                                                                                     |                                                                                     |
|                   | 235                         | 5,968       | 2,80           | 731                          | 9250             |      |                       |                                                                                     |                                                                                     |
|                   | 255                         | 5,490       | 2,80           | 672                          | 9250             |      |                       |                                                                                     |                                                                                     |
|                   | 340                         | 4,115       | 3,10           | 504                          | 9000             |      |                       |                                                                                     |                                                                                     |
| <b>22</b><br>30   | 24                          | 57,163      | 0,90           | 8198                         | 50330            |      | <b>123 / 180 L 4b</b> |                                                                                     |                                                                                     |
|                   | 28                          | 50,808      | 1,00           | 7287                         | 49830            |      |                       |                                                                                     |                                                                                     |
|                   | 31                          | 45,393      | 1,15           | 6510                         | 49830            |      |                       |                                                                                     |                                                                                     |
|                   | 34                          | 40,726      | 1,25           | 5841                         | 49530            | YPM  |                       | 383                                                                                 | 440                                                                                 |
|                   | 38                          | 36,661      | 1,40           | 5258                         | 49420            | YPFM |                       | 384                                                                                 | 470                                                                                 |
|                   | 42                          | 33,088      | 1,57           | 4745                         | 49330            |      |                       |                                                                                     |                                                                                     |
|                   | 47                          | 29,924      | 1,70           | 4292                         | 48830            |      |                       |                                                                                     |                                                                                     |
|                   | 52                          | 27,102      | 1,90           | 3887                         | 48830            |      |                       |                                                                                     |                                                                                     |
|                   | 57                          | 24,569      | 2,00           | 3524                         | 48330            |      | <b>122 / 180 L 4b</b> |                                                                                     |                                                                                     |
|                   | 52                          | 26,680      | 1,95           | 3885                         | 48030            |      |                       |                                                                                     |                                                                                     |
|                   | 63                          | 22,284      | 2,30           | 3245                         | 47030            |      |                       |                                                                                     |                                                                                     |
|                   | 71                          | 19,609      | 2,60           | 2855                         | 46530            |      |                       |                                                                                     |                                                                                     |
|                   | 80                          | 17,400      | 2,80           | 2533                         | 46030            | YPM  |                       | 383                                                                                 | 435                                                                                 |
|                   | 90                          | 15,544      | 3,10           | 2263                         | 45030            | YPFM |                       | 384                                                                                 | 465                                                                                 |
|                   | 100                         | 13,962      | 3,40           | 2033                         | 45030            |      |                       |                                                                                     |                                                                                     |
|                   | 111                         | 12,600      | 4,00           | 1835                         | 44000            |      |                       |                                                                                     |                                                                                     |
|                   | 123                         | 11,412      | 4,40           | 1662                         | 43200            |      | <b>102 / 180 L 4b</b> |                                                                                     |                                                                                     |
|                   | 135                         | 10,369      | 4,90           | 1510                         | 43000            |      |                       |                                                                                     |                                                                                     |
|                   | 67                          | 20,78       | 1,45           | 3025                         | 18800            |      |                       |                                                                                     |                                                                                     |
|                   | 76                          | 18,48       | 1,62           | 2690                         | 18600            |      |                       |                                                                                     |                                                                                     |
|                   | 85                          | 16,55       | 1,81           | 2409                         | 18400            |      |                       |                                                                                     |                                                                                     |
|                   | 94                          | 14,90       | 2,00           | 2170                         | 18150            |      |                       |                                                                                     |                                                                                     |
|                   | 104                         | 13,48       | 2,20           | 1963                         | 18000            |      |                       |                                                                                     |                                                                                     |
|                   | 114                         | 12,25       | 2,40           | 1783                         | 17900            |      |                       |                                                                                     |                                                                                     |
|                   | 125                         | 11,16       | 2,60           | 1625                         | 17750            |      |                       |                                                                                     |                                                                                     |
|                   | 137                         | 10,20       | 2,60           | 1485                         | 17450            | YPM  |                       | 381                                                                                 | 304                                                                                 |
|                   | 150                         | 9,32        | 2,70           | 1357                         | 17200            | YPFM |                       | 382                                                                                 | 324                                                                                 |
|                   | 166                         | 8,41        | 2,70           | 1225                         | 17000            |      |                       |                                                                                     |                                                                                     |
|                   | 184                         | 7,61        | 2,80           | 1108                         | 16850            |      |                       |                                                                                     |                                                                                     |
|                   | 203                         | 6,89        | 2,70           | 1003                         | 16600            |      |                       |                                                                                     |                                                                                     |
|                   | 224                         | 6,25        | 3,00           | 910                          | 16400            |      |                       |                                                                                     |                                                                                     |
|                   | 245                         | 5,72        | 3,10           | 833                          | 16150            |      |                       |                                                                                     |                                                                                     |
|                   | 270                         | 5,18        | 3,40           | 755                          | 16000            |      |                       |                                                                                     |                                                                                     |
|                   | 298                         | 4,70        | 3,80           | 684                          | 16000            |      |                       |                                                                                     |                                                                                     |
|                   | 94                          | 14,957      | 1,30           | 2178                         | 9700             | YPM  | <b>92 / 180 L 4b</b>  | 379                                                                                 | 285                                                                                 |
|                   | 104                         | 13,459      | 1,47           | 1960                         | 9600             | YPFM |                       | 380                                                                                 | 288                                                                                 |

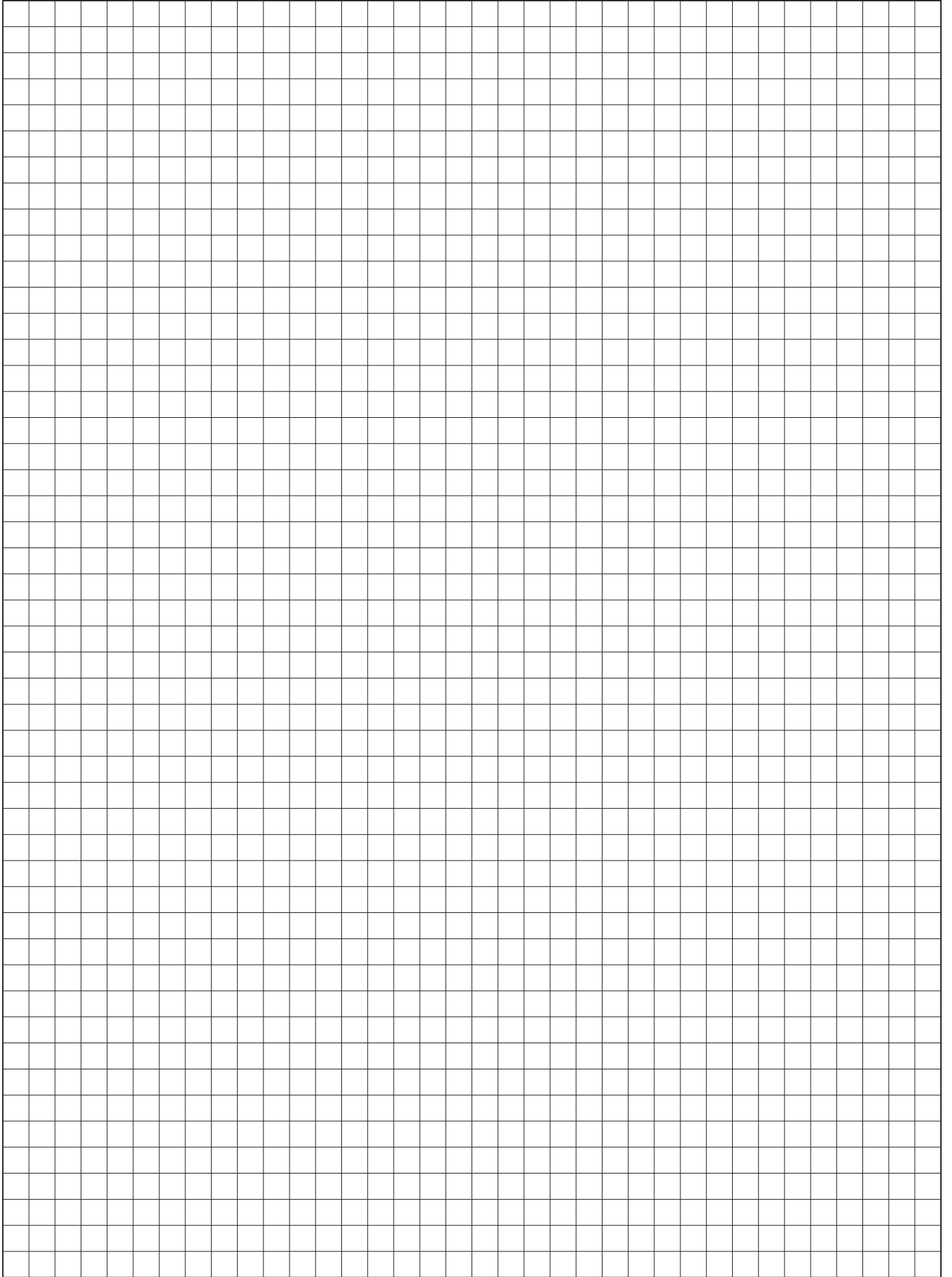


| P <sub>1</sub>  | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                       | Tip<br>Type<br>Typ |            |            |
|-----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-----------------------|--------------------|------------|------------|
| GÜÇ             | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         |             |                       |                    |            |            |
| Power           | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       |             |                       |                    |            |            |
| Leistung        | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       |             |                       |                    |            |            |
| [kW]<br>Hp      | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |                       |                    | kg         |            |
| <b>22</b><br>30 | 115                         | 12,167      | 1,60           | 1772                         | 9600             | YPM<br>YPFM | <b>92 / 180 L 4b</b>  |                    | 379<br>380 | 285<br>288 |
|                 | 127                         | 11,043      | 1,77           | 1608                         | 9500             |             |                       |                    |            |            |
|                 | 139                         | 10,054      | 1,91           | 1464                         | 9500             |             |                       |                    |            |            |
|                 | 153                         | 9,179       | 2,10           | 1336                         | 9300             |             |                       |                    |            |            |
|                 | 167                         | 8,398       | 2,10           | 1223                         | 8800             |             |                       |                    |            |            |
|                 | 182                         | 7,697       | 2,20           | 1121                         | 8400             |             |                       |                    |            |            |
|                 | 216                         | 6,491       | 2,30           | 945                          | 8400             |             |                       |                    |            |            |
|                 | 235                         | 5,968       | 2,30           | 869                          | 8200             |             |                       |                    |            |            |
|                 | 255                         | 5,490       | 2,40           | 799                          | 8050             |             |                       |                    |            |            |
|                 | 340                         | 4,115       | 2,60           | 599                          | 8000             |             |                       |                    |            |            |
| <b>30</b><br>40 | 34                          | 40,726      | 0,92           | 7965                         | 47530            | YPM<br>YPFM | <b>123 / 200 L 4c</b> |                    | 383<br>384 | 495<br>525 |
|                 | 38                          | 36,661      | 1,03           | 7170                         | 47420            |             |                       |                    |            |            |
|                 | 42                          | 33,088      | 1,15           | 6471                         | 47330            |             |                       |                    |            |            |
|                 | 47                          | 29,924      | 1,25           | 5852                         | 46830            |             |                       |                    |            |            |
|                 | 52                          | 27,102      | 1,40           | 5300                         | 46830            |             |                       |                    |            |            |
|                 | 57                          | 24,569      | 1,50           | 4805                         | 46330            |             |                       |                    |            |            |
|                 | 71                          | 19,609      | 1,87           | 3893                         | 45960            | YPM<br>YPFM | <b>122 / 200 L 4c</b> |                    | 383<br>384 | 490<br>520 |
|                 | 80                          | 17,400      | 2,10           | 3455                         | 45460            |             |                       |                    |            |            |
|                 | 90                          | 15,544      | 2,30           | 3086                         | 44460            |             |                       |                    |            |            |
|                 | 100                         | 13,962      | 2,50           | 2772                         | 44460            |             |                       |                    |            |            |
|                 | 111                         | 12,600      | 2,90           | 2502                         | 43430            |             |                       |                    |            |            |
|                 | 123                         | 11,412      | 3,20           | 2266                         | 42630            |             |                       |                    |            |            |
|                 | 135                         | 10,369      | 3,60           | 2059                         | 42430            |             |                       |                    |            |            |
|                 | 148                         | 9,445       | 3,90           | 1875                         | 42400            |             |                       |                    |            |            |
|                 | 162                         | 8,621       | 4,20           | 1712                         | 42000            |             |                       |                    |            |            |
|                 | 169                         | 8,268       | 4,20           | 1642                         | 42000            |             |                       |                    |            |            |
|                 | 188                         | 7,461       | 4,70           | 1481                         | 42000            |             |                       |                    |            |            |
|                 | 207                         | 6,758       | 5,10           | 1342                         | 41300            |             |                       |                    |            |            |
|                 | 228                         | 6,140       | 5,10           | 1219                         | 41100            |             |                       |                    |            |            |
|                 | 250                         | 5,593       | 5,10           | 1110                         | 40500            |             |                       |                    |            |            |
|                 | 274                         | 5,105       | 5,10           | 1014                         | 40500            |             |                       |                    |            |            |
|                 | 300                         | 4,667       | 5,20           | 927                          | 40000            |             |                       |                    |            |            |
|                 | 328                         | 4,272       | 5,20           | 848                          | 40000            |             |                       |                    |            |            |
|                 | 358                         | 3,914       | 5,20           | 777                          | 40000            |             |                       |                    |            |            |
|                 | 94                          | 14,90       | 1,46           | 2959                         | 15800            | YPM<br>YPFM | <b>102 / 200 L 4c</b> |                    | 381<br>382 | 336<br>356 |
|                 | 104                         | 13,48       | 1,61           | 2677                         | 15700            |             |                       |                    |            |            |
|                 | 114                         | 12,25       | 1,76           | 2432                         | 15450            |             |                       |                    |            |            |
|                 | 125                         | 11,16       | 1,90           | 2216                         | 15250            |             |                       |                    |            |            |
|                 | 137                         | 10,20       | 1,90           | 2025                         | 15000            |             |                       |                    |            |            |
|                 | 150                         | 9,32        | 1,98           | 1851                         | 14750            |             |                       |                    |            |            |
|                 | 166                         | 8,41        | 1,98           | 1671                         | 14600            |             |                       |                    |            |            |
|                 | 184                         | 7,61        | 2,00           | 1511                         | 14400            |             |                       |                    |            |            |
|                 | 203                         | 6,89        | 2,00           | 1368                         | 14100            |             |                       |                    |            |            |
|                 | 224                         | 6,25        | 2,20           | 1240                         | 13700            |             |                       |                    |            |            |
|                 | 245                         | 5,72        | 2,30           | 1136                         | 13550            |             |                       |                    |            |            |
|                 | 270                         | 5,18        | 2,50           | 1029                         | 13400            |             |                       |                    |            |            |
|                 | 298                         | 4,70        | 2,80           | 933                          | 13200            |             |                       |                    |            |            |
| <b>37</b><br>50 | 71                          | 19,609      | 1,52           | 4802                         | 37070            | YPM<br>YPFM | <b>122 / 225 S 4a</b> |                    | 383<br>384 | 525<br>555 |
|                 | 80                          | 17,400      | 1,66           | 4261                         | 37070            |             |                       |                    |            |            |
|                 | 90                          | 15,544      | 1,84           | 3806                         | 37070            |             |                       |                    |            |            |
|                 | 100                         | 13,962      | 2,00           | 3419                         | 35570            |             |                       |                    |            |            |
|                 | 111                         | 12,600      | 2,40           | 3085                         | 35570            |             |                       |                    |            |            |



| P <sub>1</sub> | n <sub>2</sub>              | i           | S <sub>f</sub> | M <sub>2</sub>               | F <sub>Q10</sub> |             |                                                                                     |                                                                                     |                                                                                     |
|----------------|-----------------------------|-------------|----------------|------------------------------|------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GÜÇ            | Çıkış Devri                 | Tahvil      | Servis Faktörü | Çıkış Momenti                | Rad. Yük         | Tip         |                                                                                     |                                                                                     |                                                                                     |
| Power          | Output Speeds               | Ratio       | Service Factor | Output Torque                | Over Loads       | Type        |                                                                                     |                                                                                     |                                                                                     |
| Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Betriebsfaktor | Abtriebswelle<br>Drehmomente | Querkräfte       | Typ         |                                                                                     |                                                                                     |                                                                                     |
| [kW]<br>Hp     | [r.p.m]                     |             |                | [Nm]                         | [N]              |             |  |  | kg                                                                                  |
| 37<br>50       | 123                         | 11,412      | 2,60           | 2795                         | 35570            | YPM<br>YPFM | 122 / 225 S 4a                                                                      |  |  |
|                | 135                         | 10,369      | 2,90           | 2539                         | 35570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 148                         | 9,445       | 3,20           | 2313                         | 34070            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 162                         | 8,621       | 3,40           | 2111                         | 34070            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 169                         | 8,268       | 3,40           | 2025                         | 34070            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 188                         | 7,461       | 3,80           | 1827                         | 34070            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 207                         | 6,758       | 4,10           | 1655                         | 34070            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 228                         | 6,140       | 4,10           | 1504                         | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 250                         | 5,593       | 4,10           | 1370                         | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 274                         | 5,105       | 4,10           | 1250                         | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 300                         | 4,667       | 4,20           | 1143                         | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 328                         | 4,272       | 4,20           | 1046                         | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 358                         | 3,914       | 4,20           | 958                          | 32570            |             |                                                                                     |                                                                                     |                                                                                     |
| 45<br>60       | 71                          | 19,609      | 1,25           | 5840                         | 34500            | YPM<br>YPFM | 122 / 225 M 4c                                                                      |  |  |
|                | 80                          | 17,400      | 1,37           | 5182                         | 34500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 90                          | 15,544      | 1,52           | 4629                         | 34500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 100                         | 13,962      | 1,66           | 4158                         | 33000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 111                         | 12,600      | 1,96           | 3753                         | 33000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 123                         | 11,412      | 2,20           | 3399                         | 33000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 135                         | 10,369      | 2,40           | 3088                         | 33000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 148                         | 9,445       | 2,60           | 2813                         | 31500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 162                         | 8,621       | 2,80           | 2568                         | 31500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 169                         | 8,268       | 2,80           | 2462                         | 31500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 188                         | 7,461       | 3,10           | 2222                         | 31500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 207                         | 6,758       | 3,40           | 2013                         | 31500            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 228                         | 6,140       | 3,40           | 1829                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 250                         | 5,593       | 3,40           | 1666                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 274                         | 5,105       | 3,40           | 1520                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 300                         | 4,667       | 3,50           | 1390                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 328                         | 4,272       | 3,50           | 1272                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |
|                | 358                         | 3,914       | 3,50           | 1166                         | 30000            |             |                                                                                     |                                                                                     |                                                                                     |

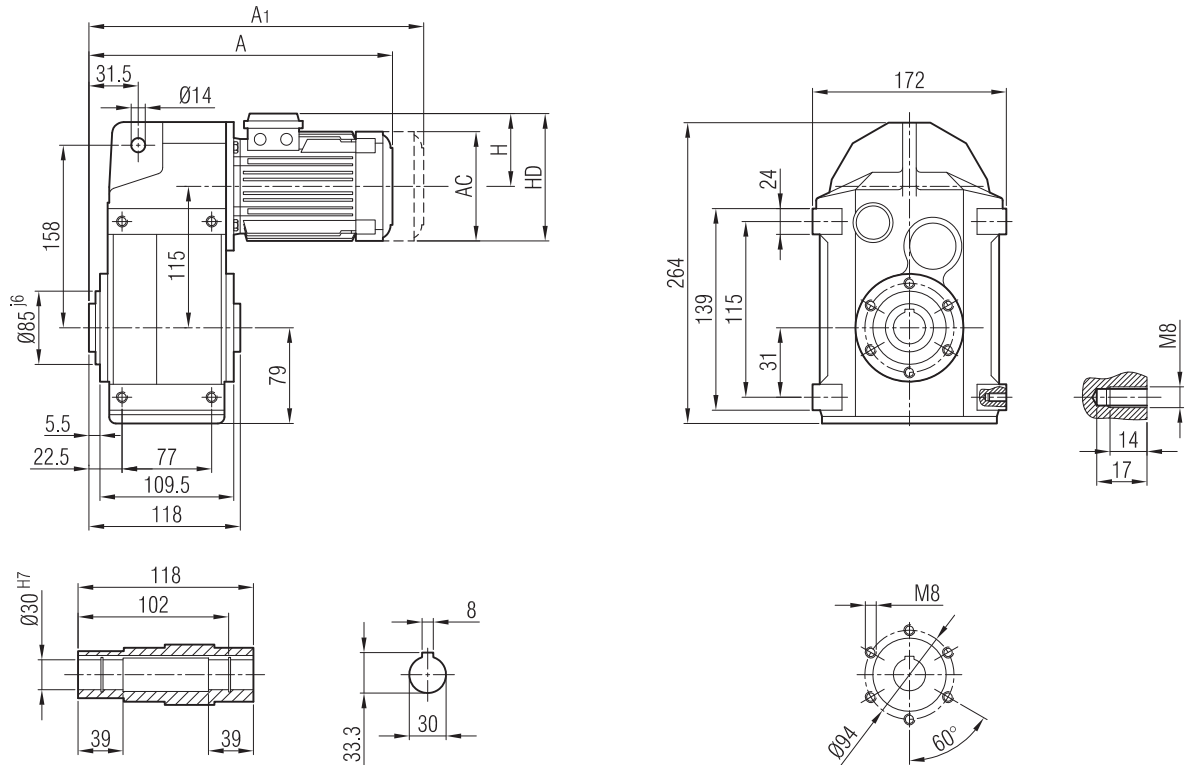




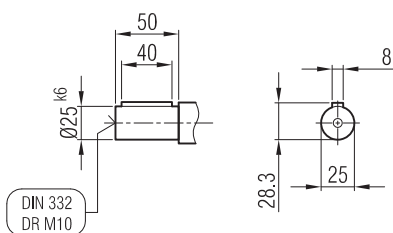
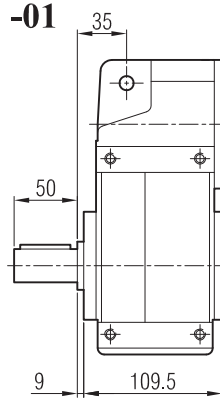


## YPM 52

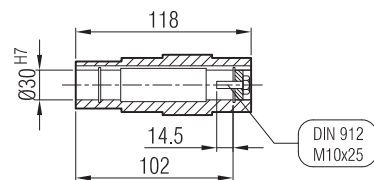
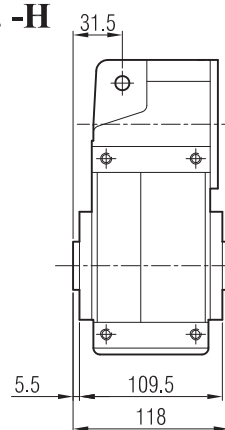
## YPM 53



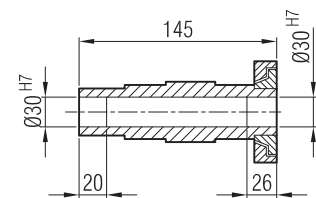
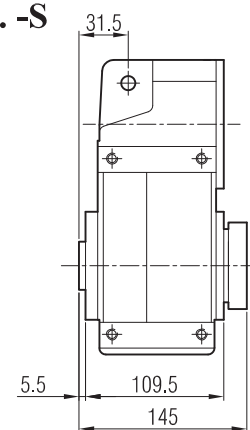
### ... -01



### ... -H



### ... -S



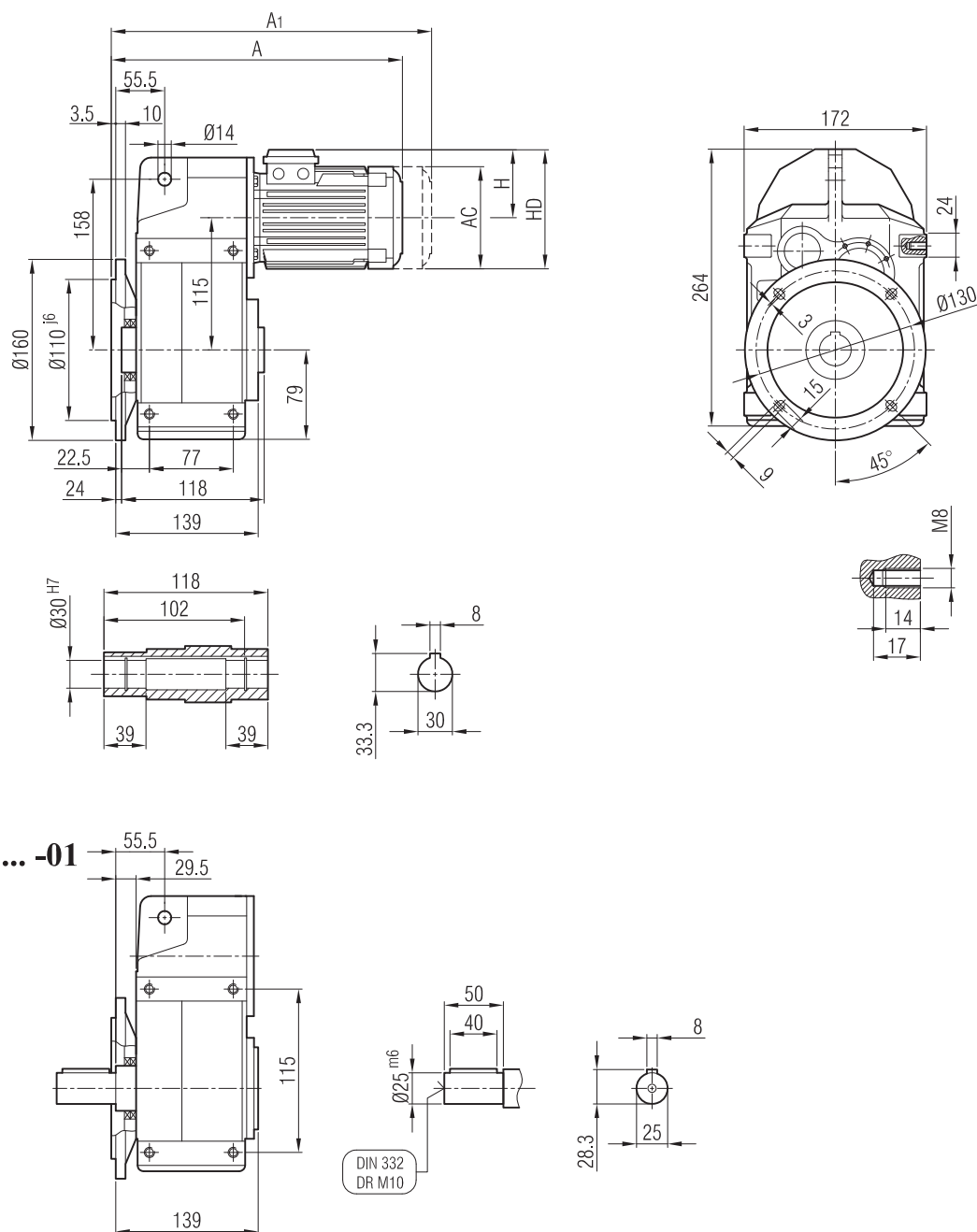
|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 |  |  |  |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|--|--|--|--|--|--|--|--|--|
| A              |    |    | 329 | 359 | 380  | 405  | 436 |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 402 | 442 | 465  | 490  | 538 |  |  |  |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 |  |  |  |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 |  |  |  |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse





**YPFM 52**  
**YPFM 53**



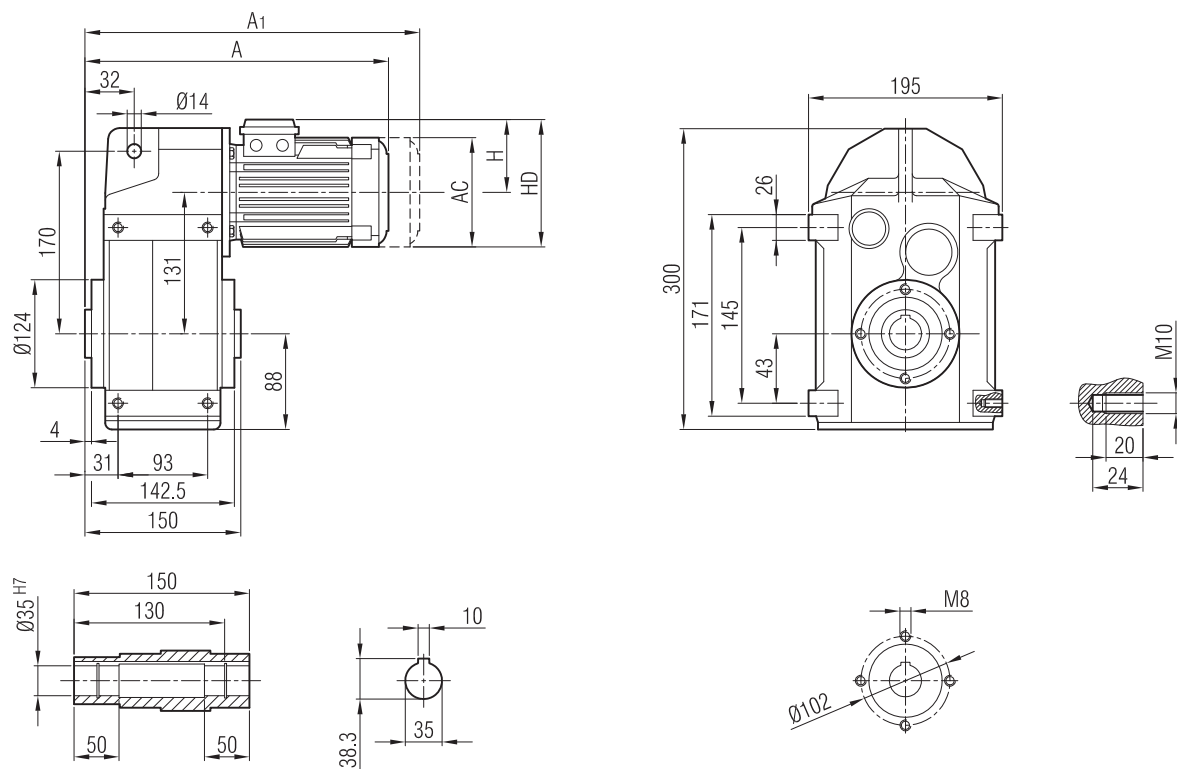
|                |    |     |     |     |      |      |     |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|------|------|-----|--|--|--|--|--|--|--|--|--|
|                | 56 | 63  | 71  | 80  | 90 S | 90 L | 100 |  |  |  |  |  |  |  |  |  |
| A              |    | 370 | 356 | 387 | 407  | 432  | 464 |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 428 | 429 | 470 | 492  | 517  | 566 |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 | 132  | 132  | 141 |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 | 222  | 222  | 241 |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 | 193  | 193  | 217 |  |  |  |  |  |  |  |  |  |

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

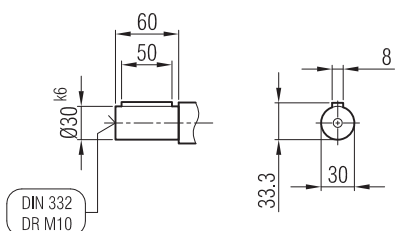
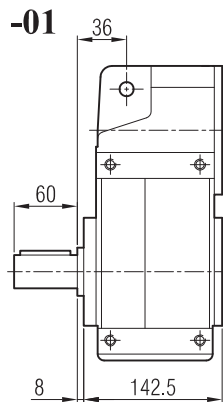




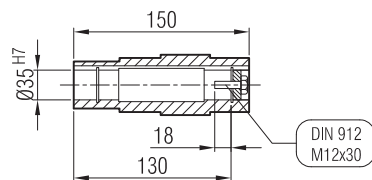
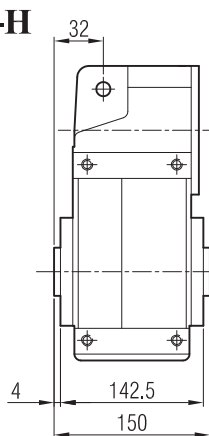
**YPM 62**  
**YPM 63**



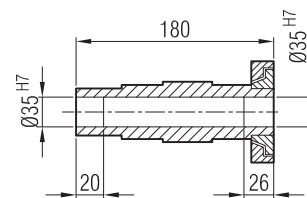
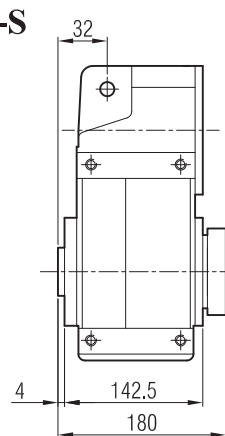
**... -01**



**... -H**



**... -S**



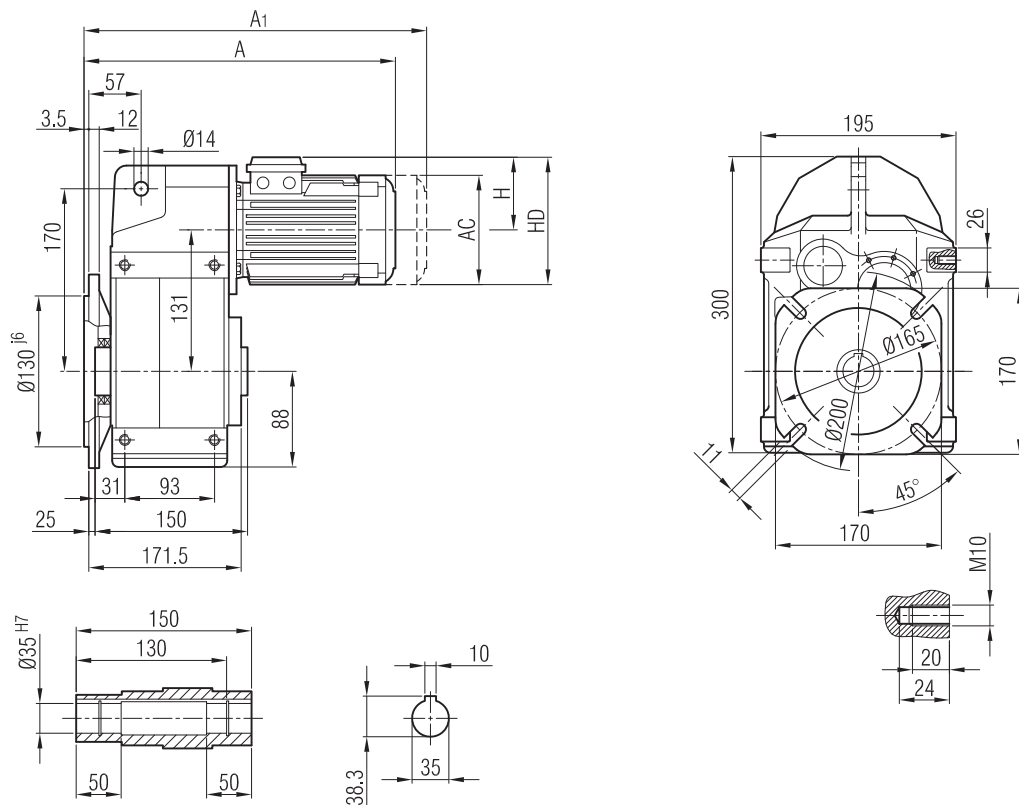
|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 | 112 |  |  |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|-----|--|--|--|--|--|--|--|--|
| A              |    |    | 349 | 379 | 407  | 432  | 471 | 494 |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 422 | 462 | 492  | 517  | 573 | 619 |  |  |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 | 149 |  |  |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 | 261 |  |  |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 | 232 |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

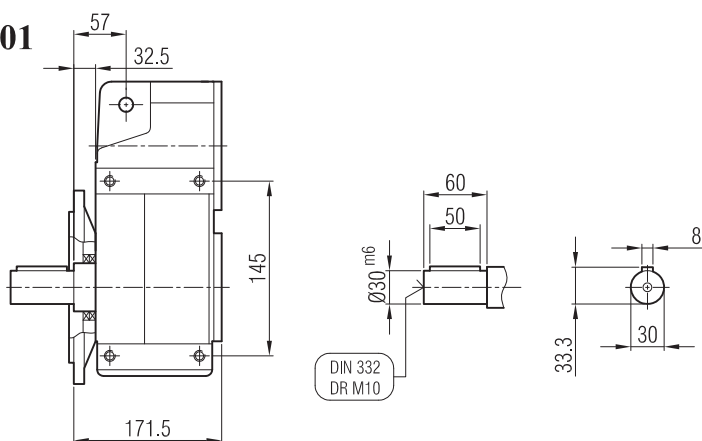




**YPFM 62**  
**YPFM 63**



**... -01**



|                | 56 | 63  | 71  | 80  | 90 S | 90 L | 100 | 112 |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|------|------|-----|-----|--|--|--|--|--|--|--|--|
| A              |    | 398 | 377 | 407 | 436  | 461  | 500 | 523 |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 456 | 450 | 490 | 521  | 546  | 602 | 648 |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 | 132  | 132  | 141 | 149 |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 | 222  | 222  | 241 | 261 |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 | 193  | 193  | 217 | 232 |  |  |  |  |  |  |  |  |

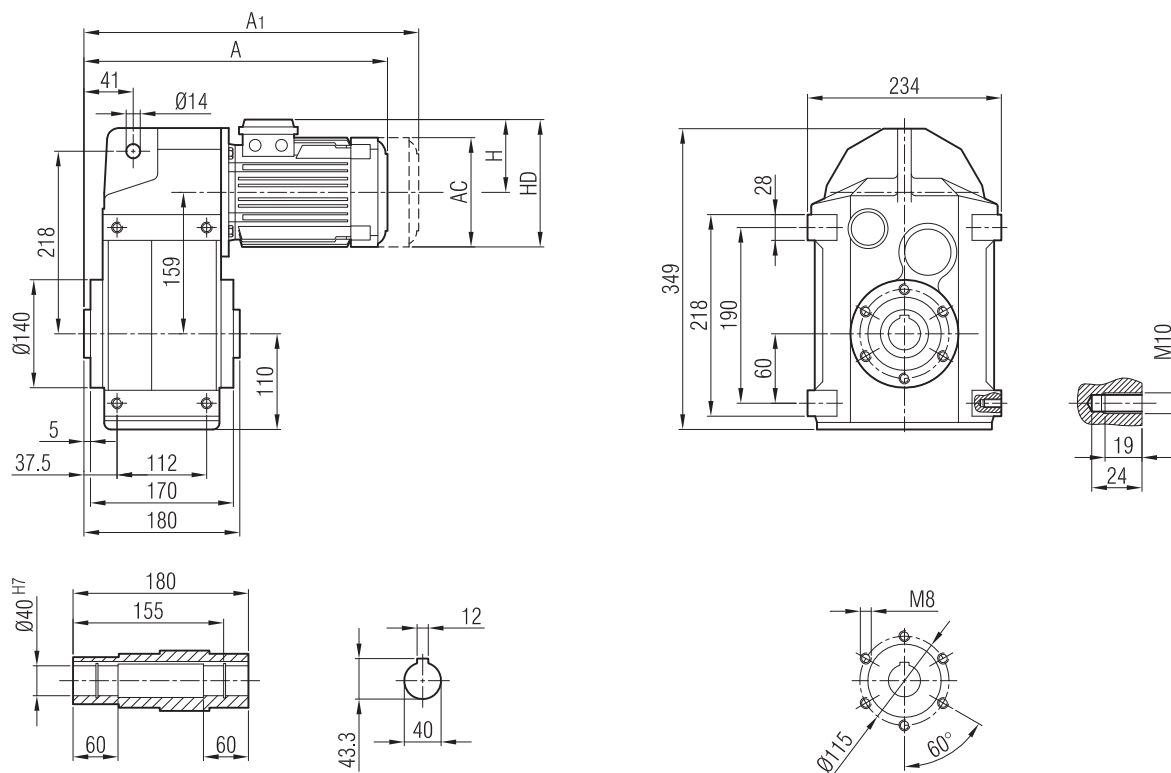
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse



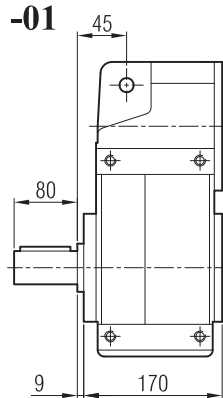


## YPM 72

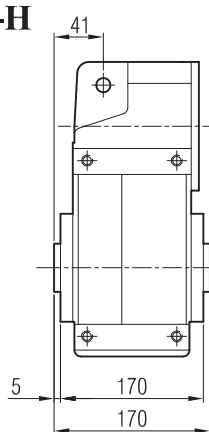
## YPM 73



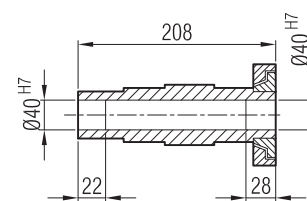
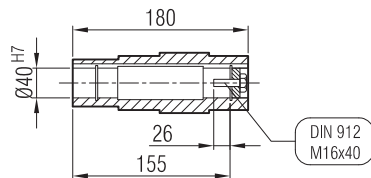
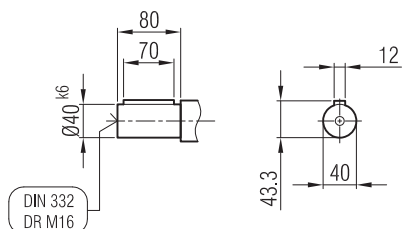
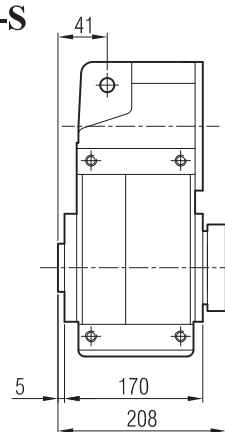
### ... -01



### ... -H



### ... -S



|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|-----|-------|-------|--|--|--|--|--|--|
| A              |    |    | 373 | 403 | 428  | 453  | 495 | 518 | 561   | 599   |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 446 | 486 | 513  | 538  | 597 | 643 | 703   | 741   |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 | 149 | 182   | 182   |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 | 261 | 314   | 314   |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 | 232 | 279   | 279   |  |  |  |  |  |  |

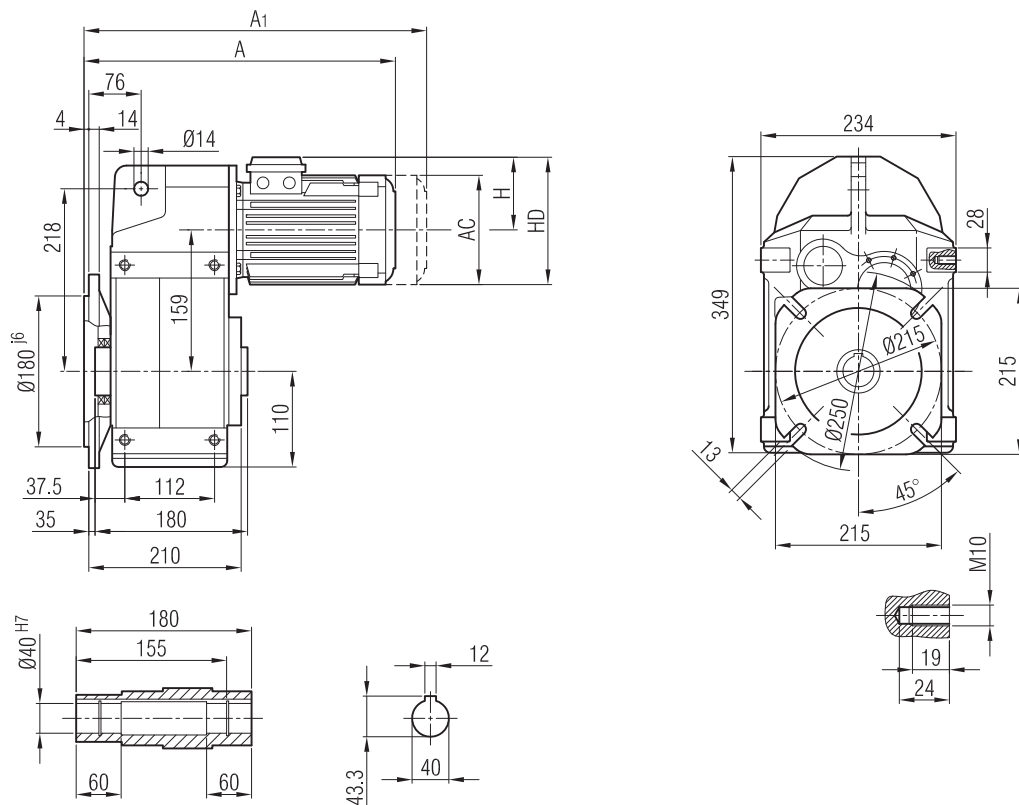
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse



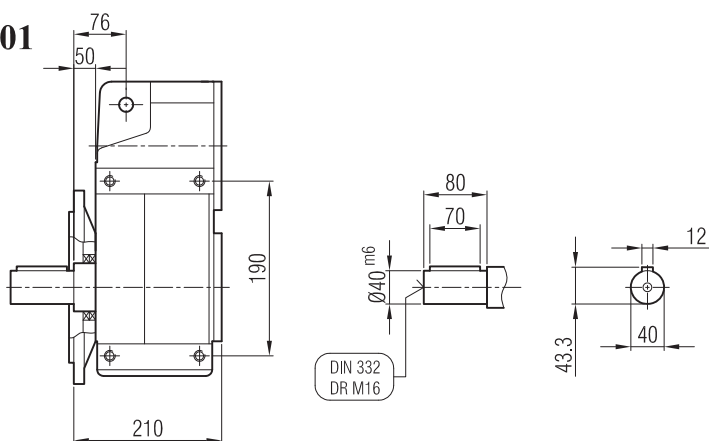




**YPFM 72**  
**YPFM 73**



**... -01**



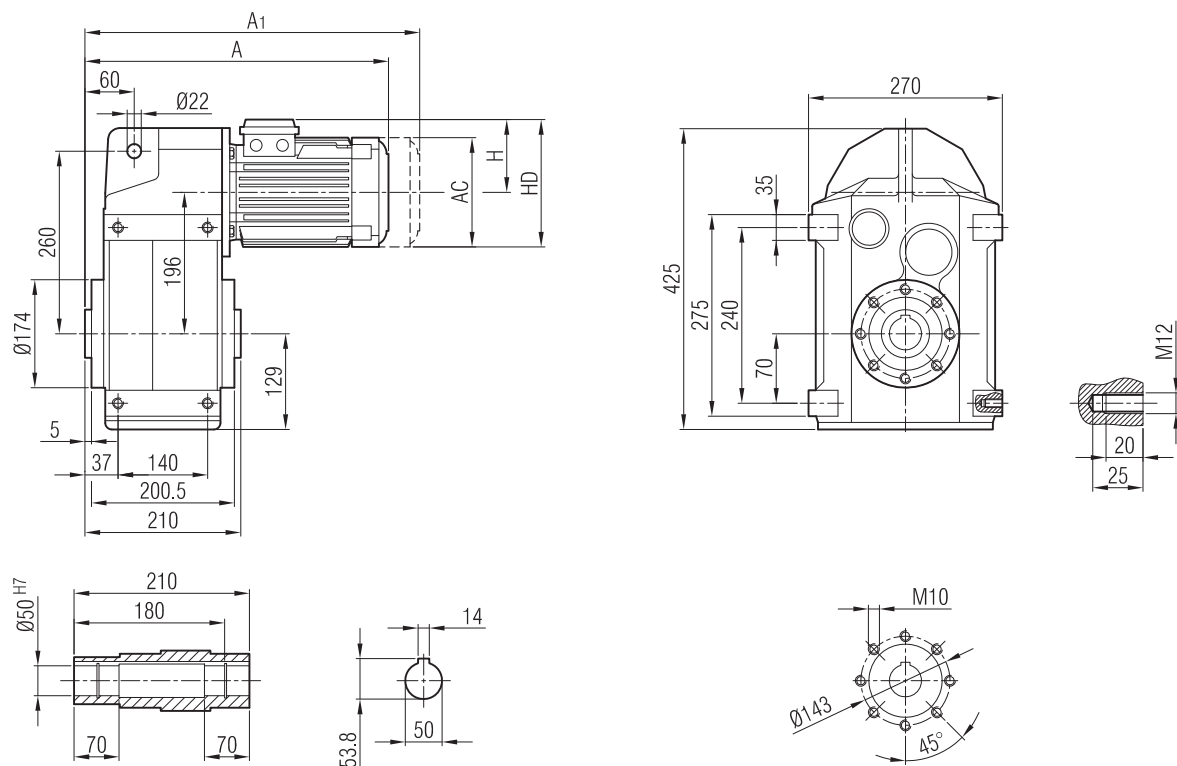
|                | 56 | 63  | 71  | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|------|------|-----|-----|-------|-------|--|--|--|--|--|--|
| A              |    | 431 | 412 | 442 | 467  | 492  | 534 | 557 | 600   | 638   |  |  |  |  |  |  |
| A <sub>1</sub> |    | 412 | 485 | 525 | 552  | 577  | 636 | 682 | 742   | 780   |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 | 132  | 132  | 141 | 149 | 182   | 182   |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 | 222  | 222  | 241 | 261 | 314   | 314   |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 | 193  | 193  | 217 | 232 | 279   | 279   |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

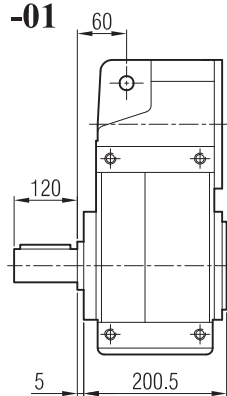




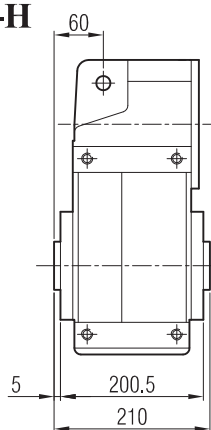
**YPM 82**  
**YPM 83**



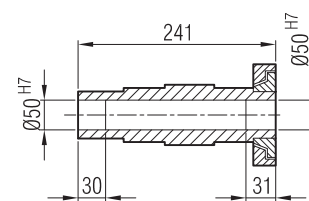
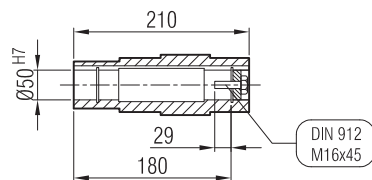
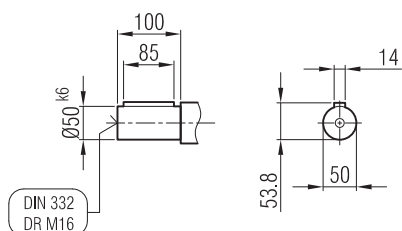
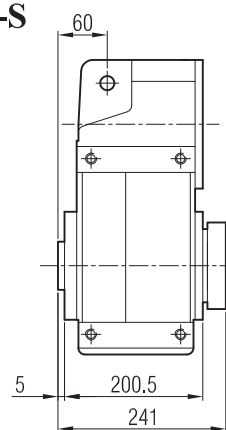
**... -01**



**... -H**



**... -S**



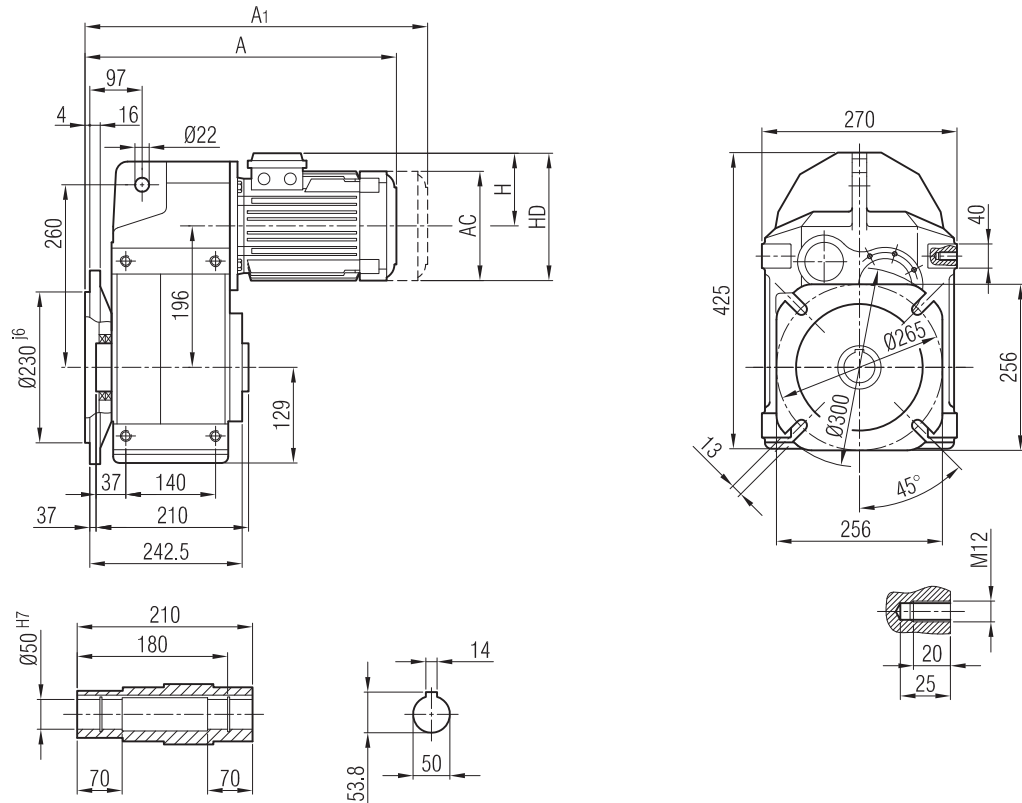
|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|-----|-------|-------|--|--|--|--|--|--|
| A              |    |    | 395 | 426 | 453  | 478  | 516 | 541 | 588   | 626   |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 468 | 509 | 538  | 563  | 618 | 666 | 730   | 768   |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 | 149 | 182   | 182   |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 | 261 | 314   | 314   |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 | 232 | 279   | 279   |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

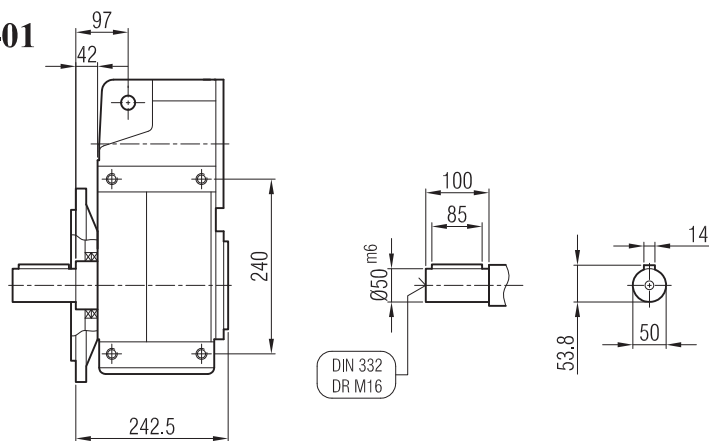




**YPFM 82**  
**YPFM 83**



**... -01**



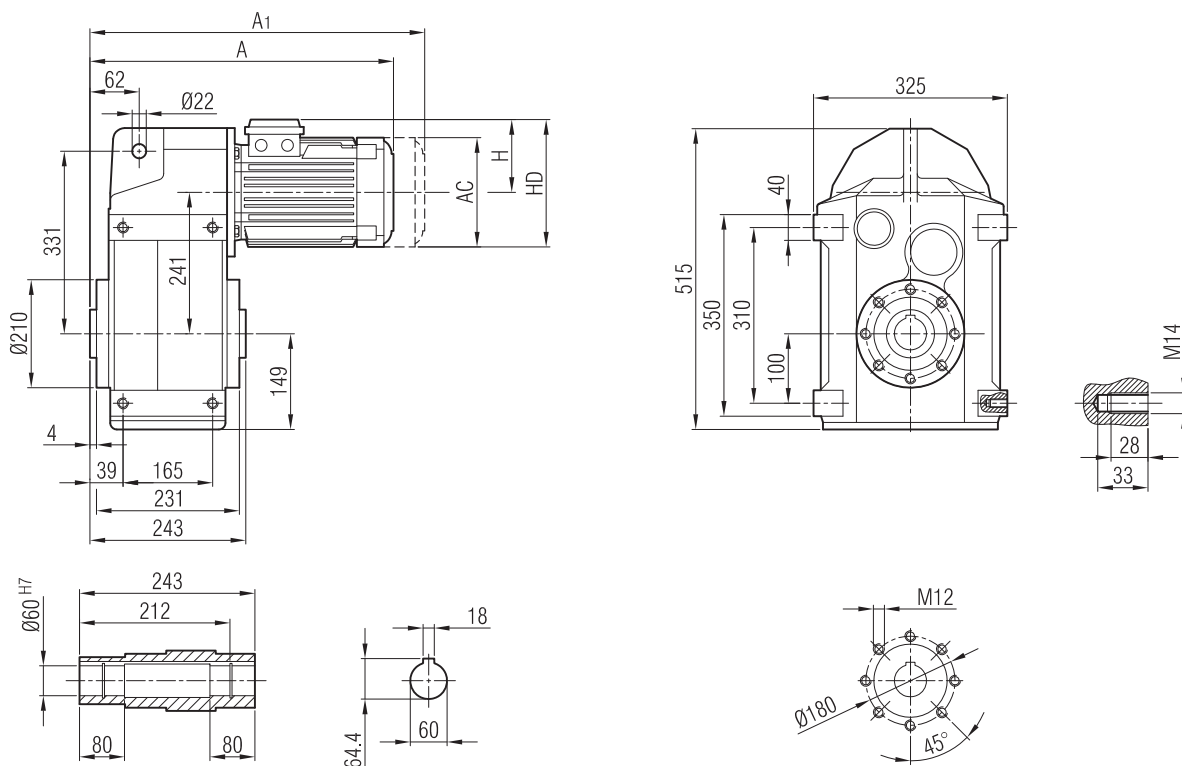
|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|-----|-------|-------|--|--|--|--|--|--|
| A              |    |    | 436 | 467 | 494  | 519  | 557 | 582 | 629   | 667   |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 509 | 550 | 579  | 604  | 659 | 707 | 771   | 809   |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 | 149 | 182   | 182   |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 | 261 | 314   | 314   |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 | 232 | 279   | 279   |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

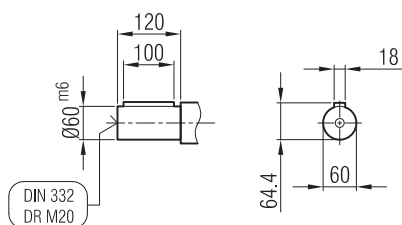
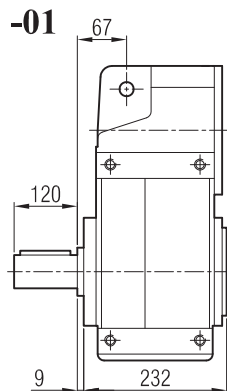




**YPM 92**  
**YPM 93**

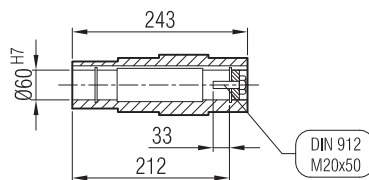
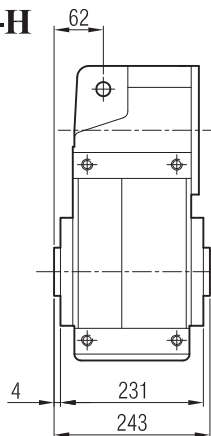


**... -01**



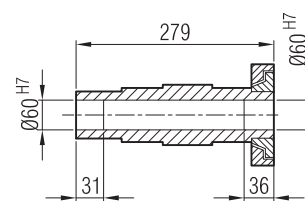
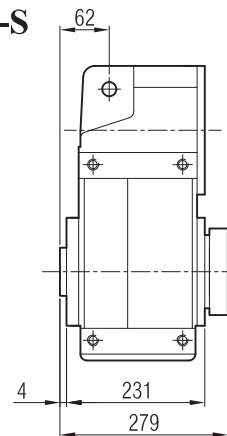
DIN 332  
DR M20

**... -H**



DIN 912  
M20x50

**... -S**



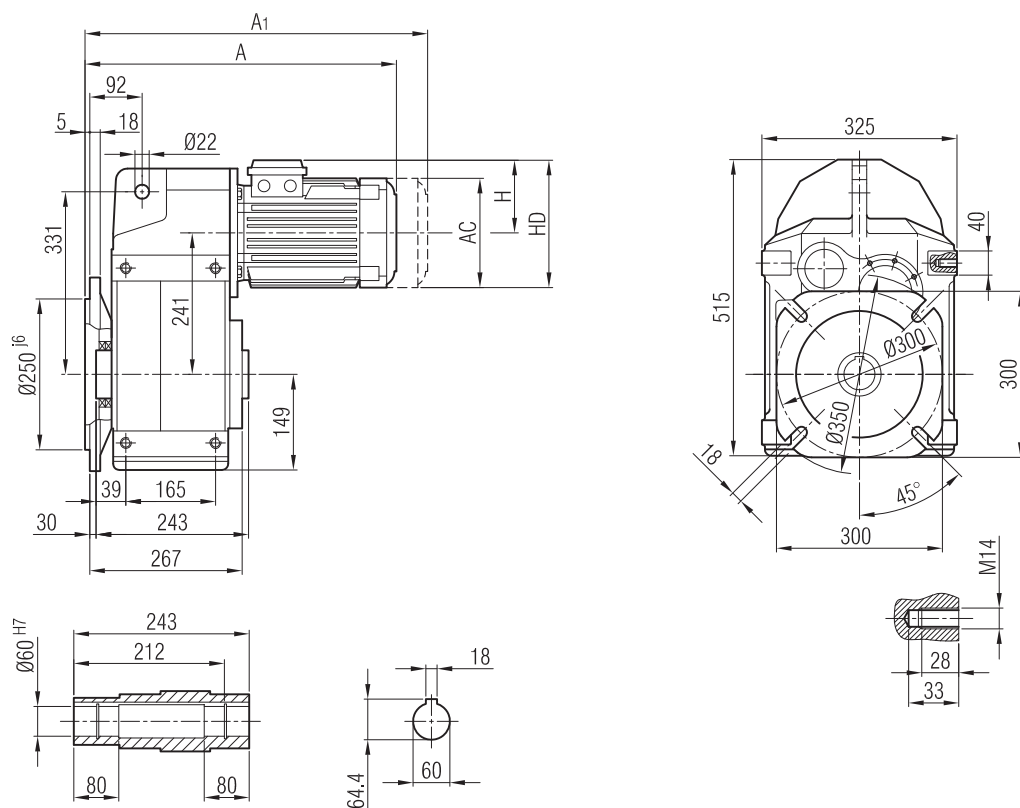
|                | 56 | 63 | 71 | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |  |  |  |
|----------------|----|----|----|-----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|--|--|--|
| A              |    |    |    | 508 | 533  | 558  | 600 | 620 | 684   | 722   | 825   | 869   | 883   | 921   |  |  |  |
| A <sub>1</sub> |    |    |    | 591 | 618  | 643  | 702 | 745 | 826   | 864   | 1015  | 1059  | 1078  | 1116  |  |  |  |
| H              |    |    |    | 118 | 132  | 132  | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   |  |  |  |
| HD             |    |    |    | 198 | 222  | 222  | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   |  |  |  |
| AC             |    |    |    | 158 | 193  | 193  | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

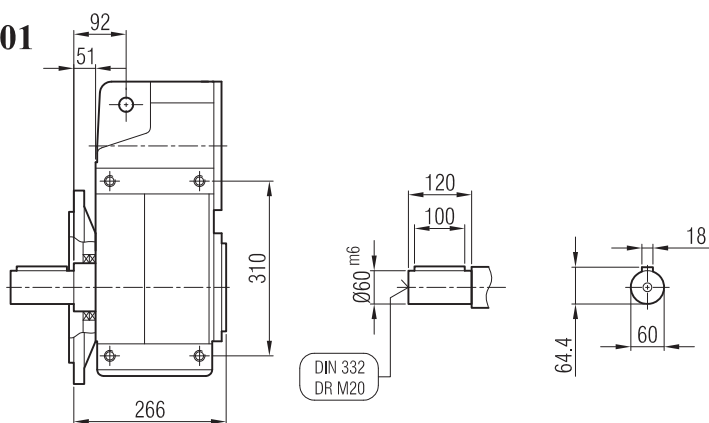




YPFM 92  
YPFM 93



... -01



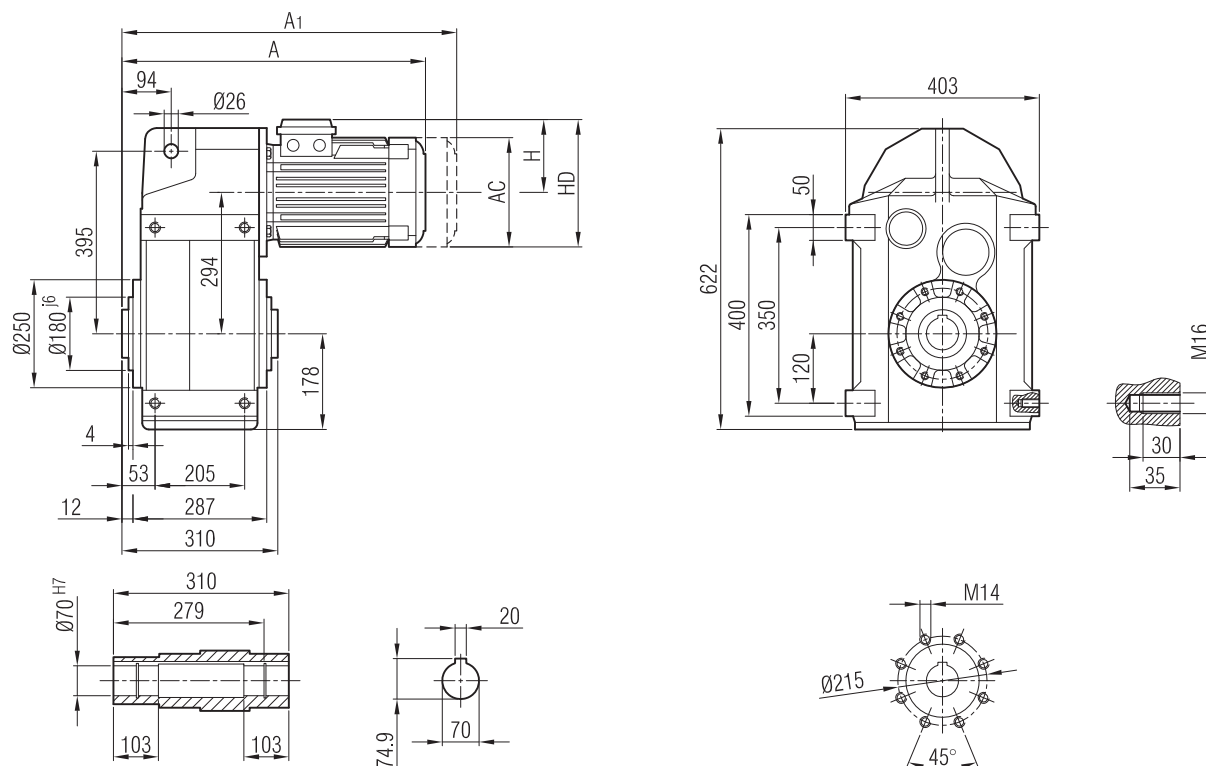
|                | 56 | 63 | 71 | 80  | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L |  |  |  |
|----------------|----|----|----|-----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|--|--|--|
| A              |    |    |    | 484 | 509  | 534  | 576 | 596 | 655   | 693   | 762   | 804   | 816   | 854   |  |  |  |
| A <sub>1</sub> |    |    |    | 567 | 594  | 619  | 678 | 721 | 797   | 835   | 952   | 994   | 1011  | 1049  |  |  |  |
| H              |    |    |    | 118 | 132  | 132  | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   |  |  |  |
| HD             |    |    |    | 198 | 222  | 222  | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   |  |  |  |
| AC             |    |    |    | 158 | 193  | 193  | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   |  |  |  |

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

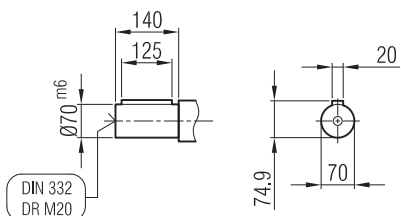
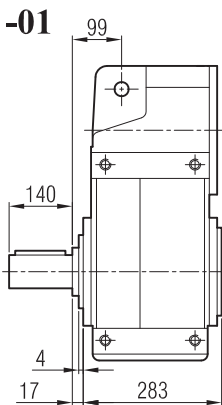




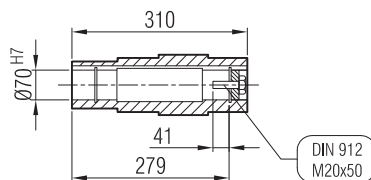
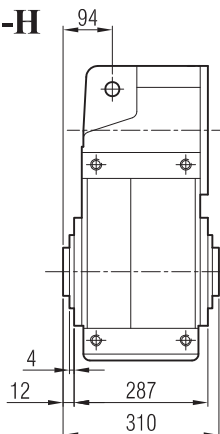
**YPM 102**  
**YPM 103**



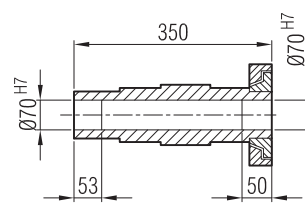
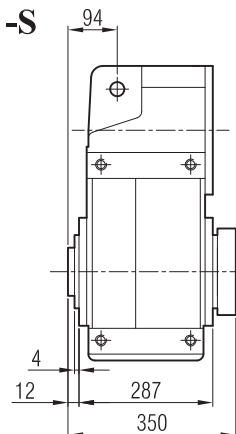
**... -01**



**... -H**



**... -S**



|                | 56 | 63 | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 |  |  |
|----------------|----|----|----|----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|-----|--|--|
| A              |    |    |    |    | 584  | 609  | 582 | 604 | 656   | 694   | 784   | 828   | 842   | 880   | 919 |  |  |
| A <sub>1</sub> |    |    |    |    | 669  | 694  | 684 | 729 | 798   | 836   | 974   | 1018  | 1037  | 1075  | -   |  |  |
| H              |    |    |    |    | 132  | 132  | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   | 275 |  |  |
| HD             |    |    |    |    | 222  | 222  | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   | 425 |  |  |
| AC             |    |    |    |    | 193  | 193  | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   | 415 |  |  |

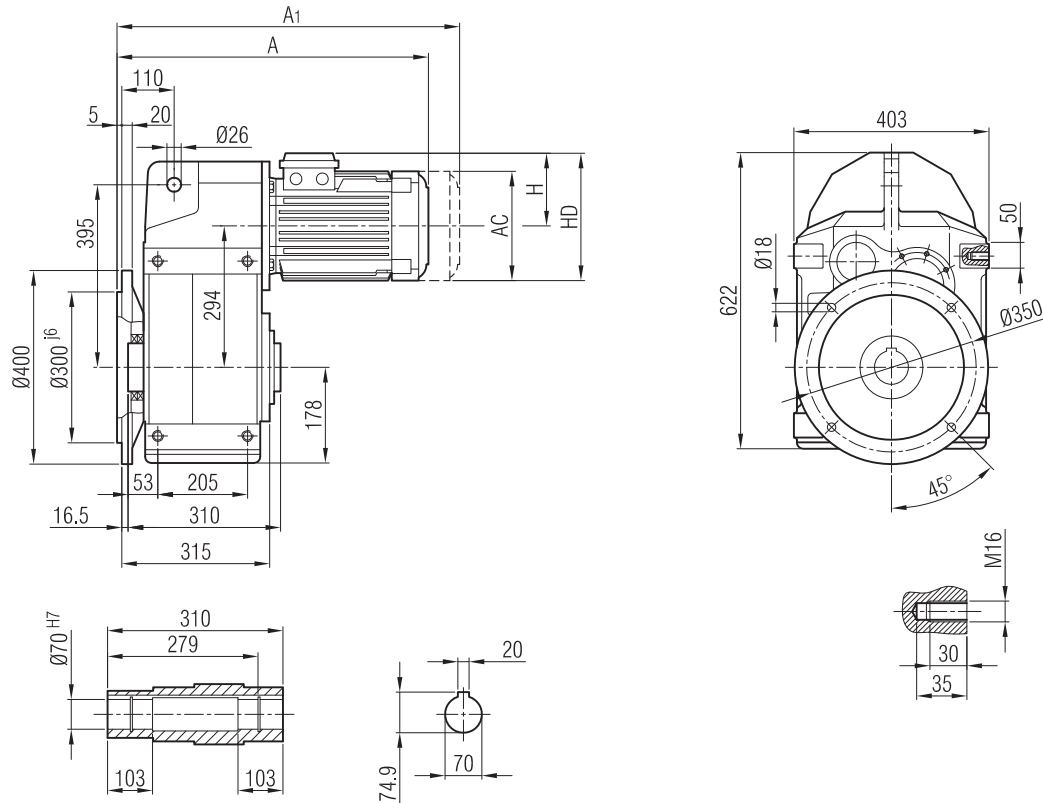
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse



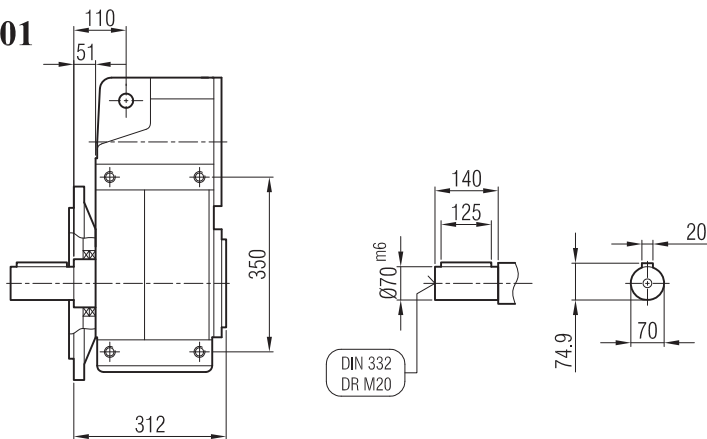


## YPFM 102

## YPFM 103



... -01



|                | 56 | 63 | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 |  |  |
|----------------|----|----|----|----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|-----|--|--|
| A              |    |    |    |    | 584  | 609  | 603 | 625 | 677   | 715   | 805   | 849   | 863   | 901   | 940 |  |  |
| A <sub>1</sub> |    |    |    |    | 669  | 694  | 705 | 750 | 819   | 857   | 995   | 1039  | 1058  | 1096  | -   |  |  |
| H              |    |    |    |    | 132  | 132  | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   | 275 |  |  |
| HD             |    |    |    |    | 222  | 222  | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   | 425 |  |  |
| AC             |    |    |    |    | 193  | 193  | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   | 415 |  |  |

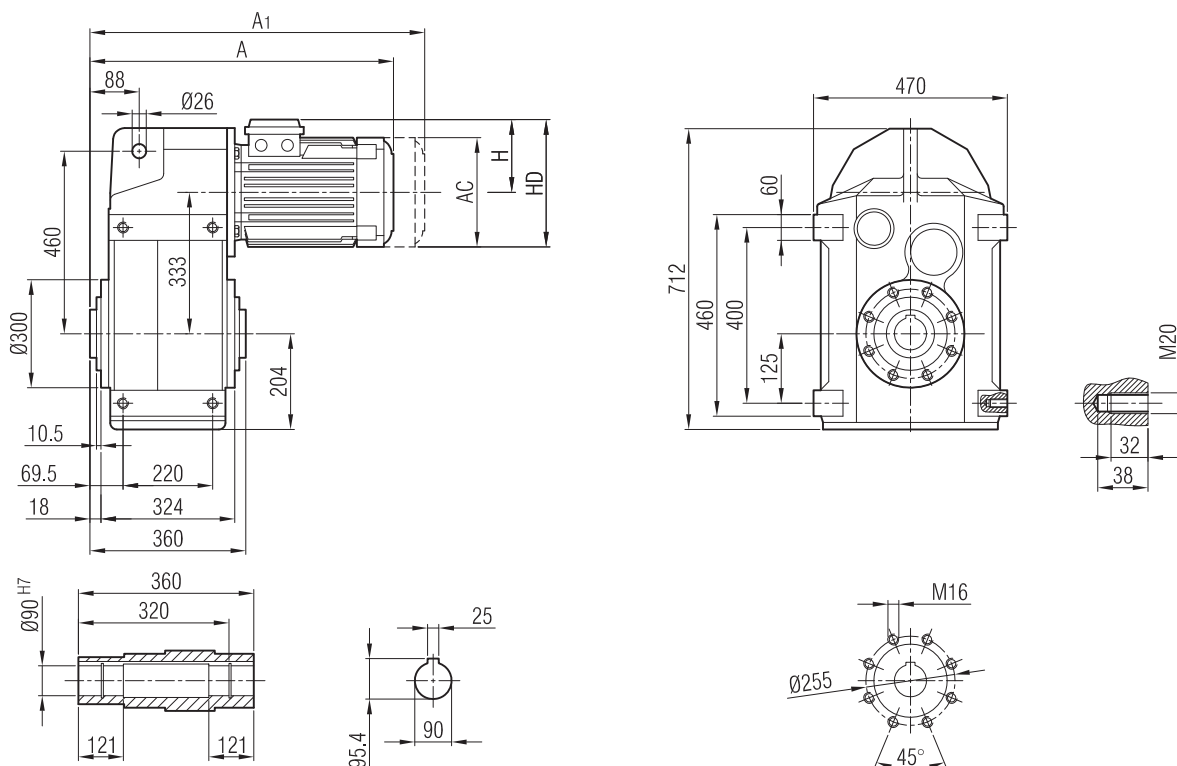
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse



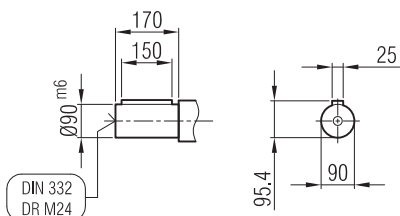
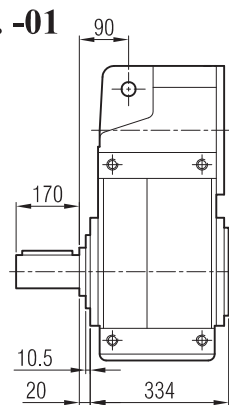




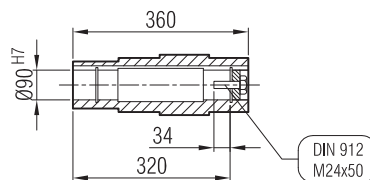
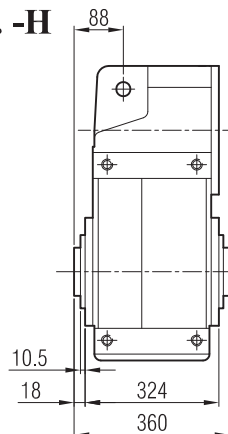
**YPM 122**  
**YPM 123**



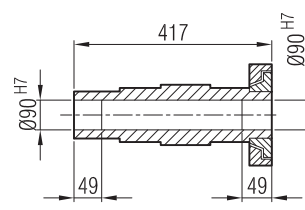
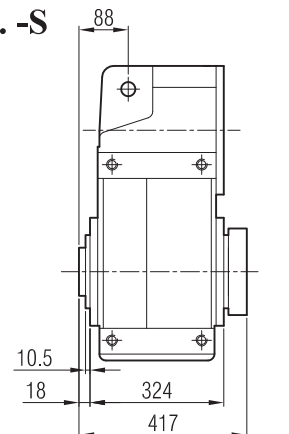
**... -01**



**... -H**



**... -S**



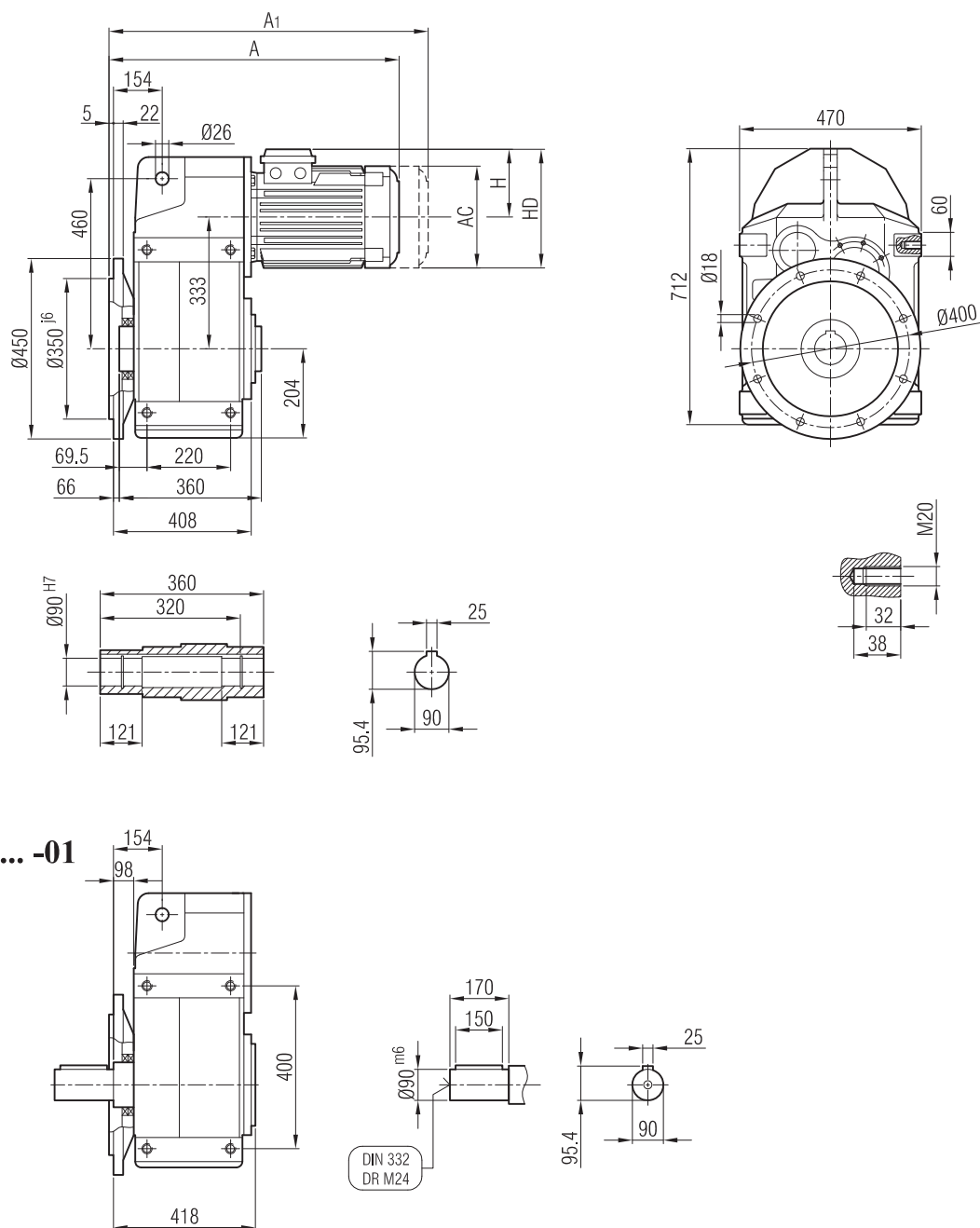
|                | 56 | 63 | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200 | 225 S | 225 M |
|----------------|----|----|----|----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|
| A              |    |    |    |    |      |      | 626 | 640 | 693   | 731   | 830   | 874   | 861   | 899   | 966 | 993   | 998   |
| A <sub>1</sub> |    |    |    |    |      |      | 728 | 765 | 835   | 873   | 1020  | 1064  | 1056  | 1094  | -   | -     | -     |
| H              |    |    |    |    |      |      | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   | 275 | 285   | 285   |
| HD             |    |    |    |    |      |      | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   | 475 | 510   | 510   |
| AC             |    |    |    |    |      |      | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   | 415 | 456   | 456   |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse





**YPFM 122**  
**YPFM 123**



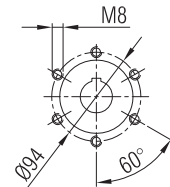
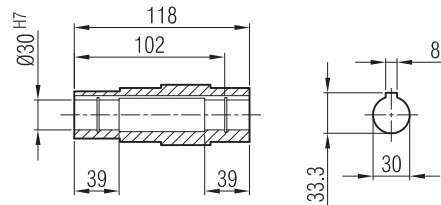
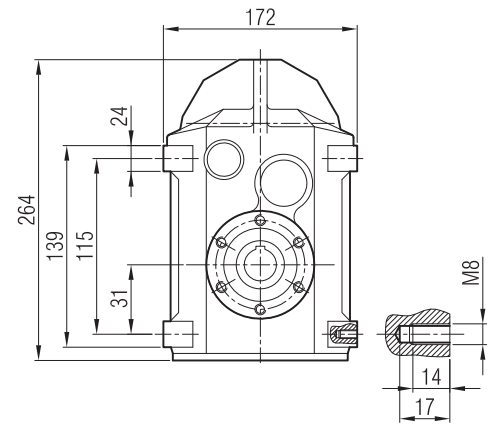
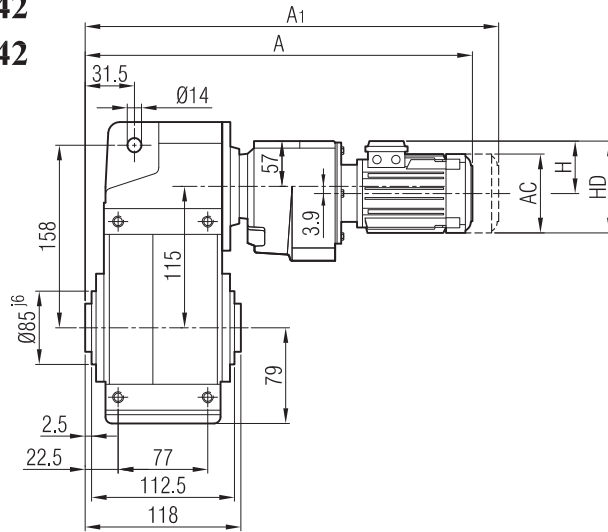
|                | 56 | 63 | 71 | 80 | 90 S | 90 L | 100 | 112 | 132 S | 132 M | 160 M | 160 L | 180 M | 180 L | 200  | 225 S | 225 M |
|----------------|----|----|----|----|------|------|-----|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|
| A              |    |    |    |    |      |      | 697 | 711 | 764   | 802   | 885   | 885   | 945   | 983   | 1037 | 1064  | 1069  |
| A <sub>1</sub> |    |    |    |    |      |      | 799 | 836 | 906   | 944   | 1075  | 1075  | 1140  | 1178  | -    | -     | -     |
| H              |    |    |    |    |      |      | 141 | 149 | 182   | 182   | 225   | 225   | 248   | 248   | 275  | 285   | 285   |
| HD             |    |    |    |    |      |      | 241 | 261 | 314   | 314   | 385   | 385   | 428   | 428   | 475  | 510   | 510   |
| AC             |    |    |    |    |      |      | 217 | 232 | 279   | 279   | 325   | 325   | 370   | 370   | 415  | 456   | 456   |

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

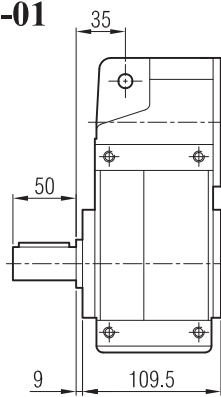




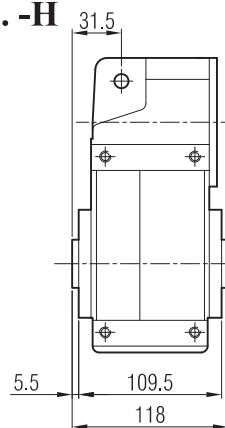
**YPM 52 İR 42**  
**YPM 53 İR 42**



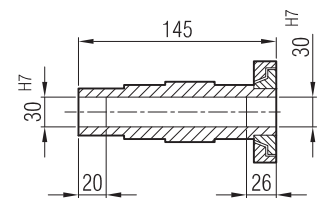
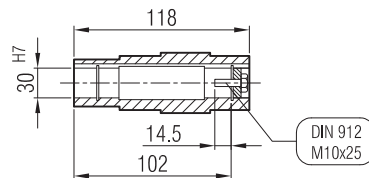
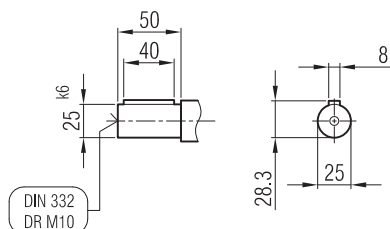
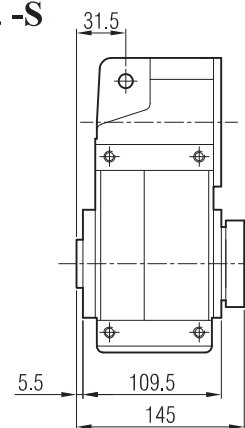
**... -01**



**... -H**



**... -S**



|                | 56 | 63  | 71  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 426 | 454 |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 484 | 527 |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 |  |  |  |  |  |  |  |  |  |  |  |

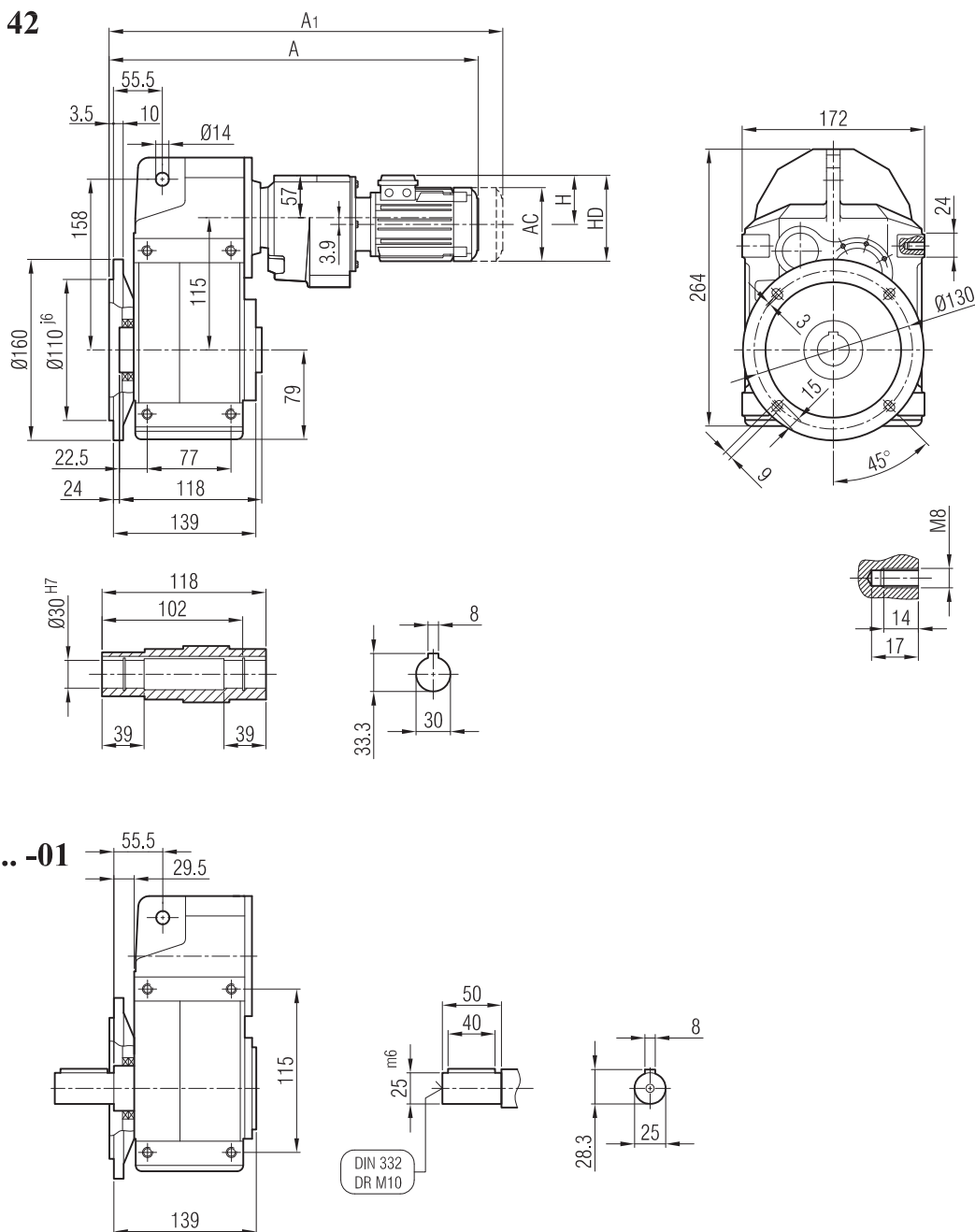
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse





**YPFM 52 İR 42**

**YPFM 53 İR 42**

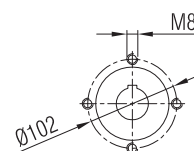
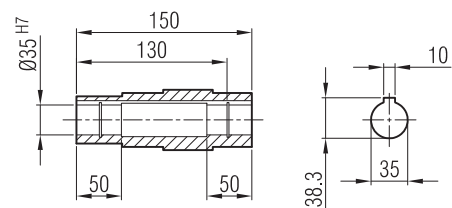
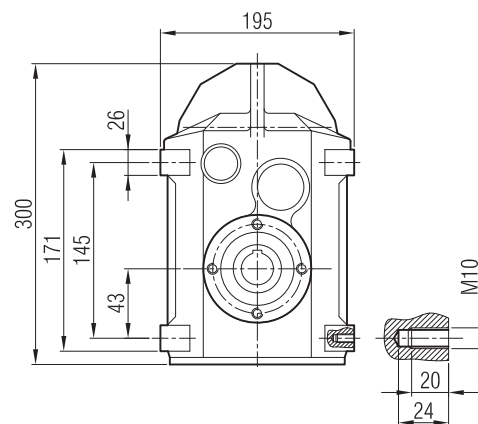
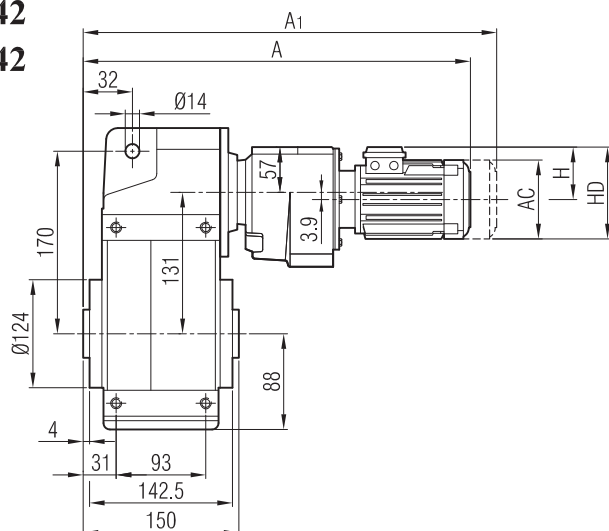
[illegible]

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

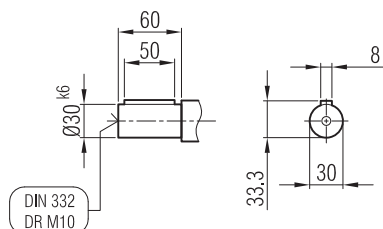
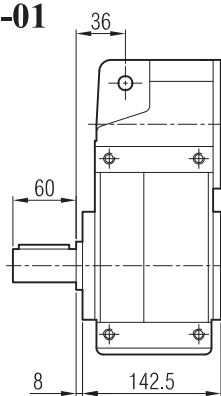




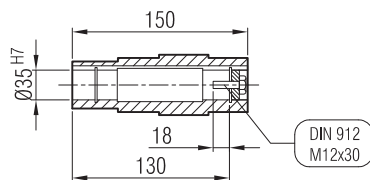
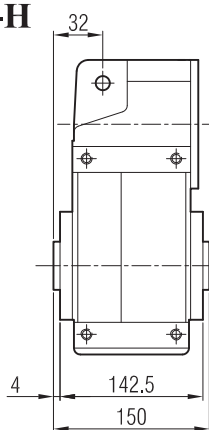
**YPM 62 İR 42**  
**YPM 63 İR 42**



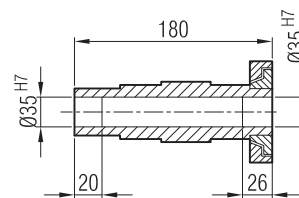
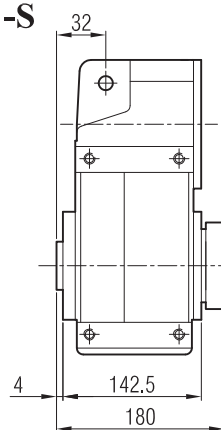
**... -01**



**... -H**



**... -S**



|                | 56 | 63  | 71  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 453 | 481 |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 511 | 554 |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 |  |  |  |  |  |  |  |  |  |  |  |

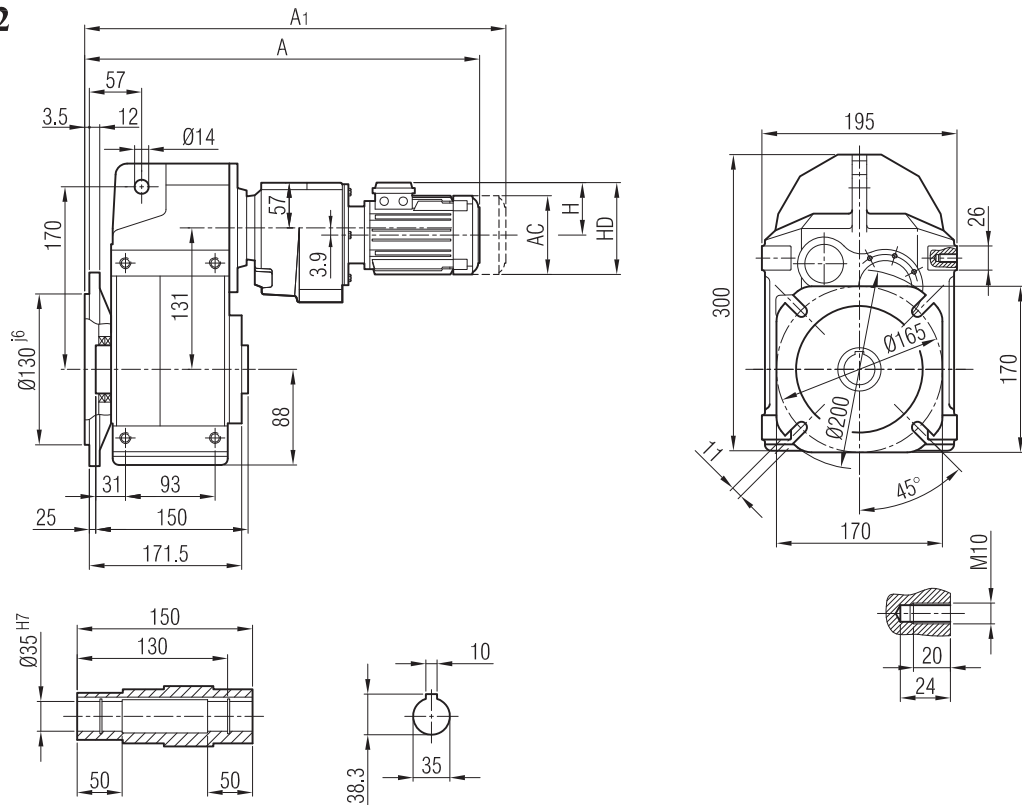
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse



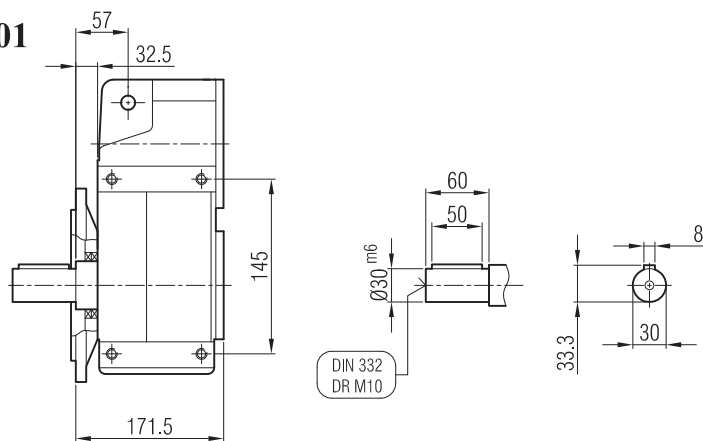


**YPFM 62 İR 42**

**YPFM 63 İR 42**



...-01

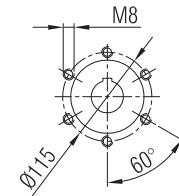
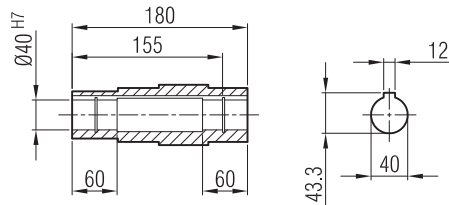
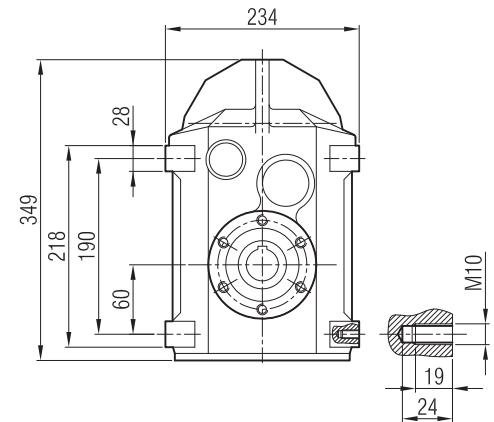
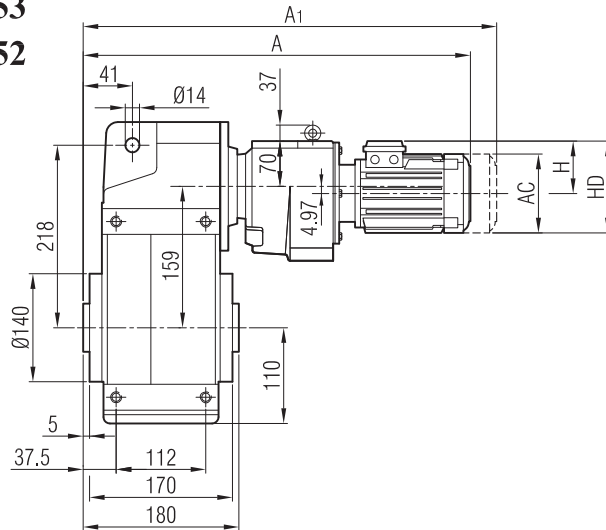
[illegible]

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

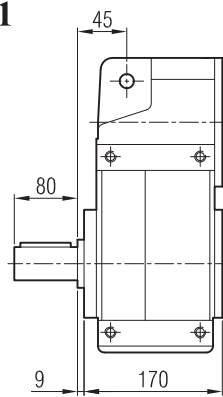




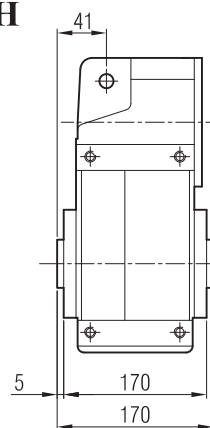
**YPM 72 İR 53**  
**YPM 73 İR 52**



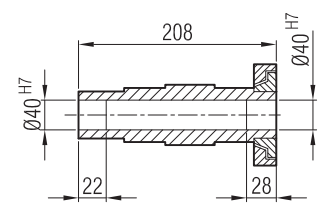
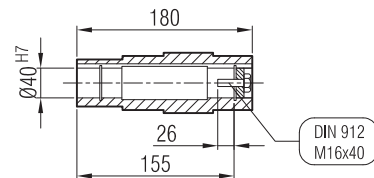
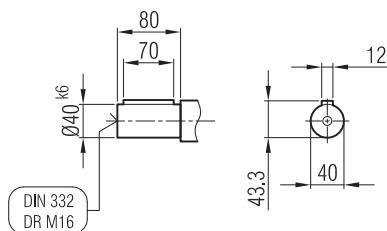
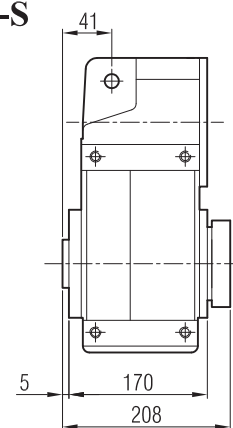
**... -01**



**... -H**



**... -S**



|                | 56 | 63  | 71  | 80  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 541 | 527 | 557 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 597 | 598 | 638 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

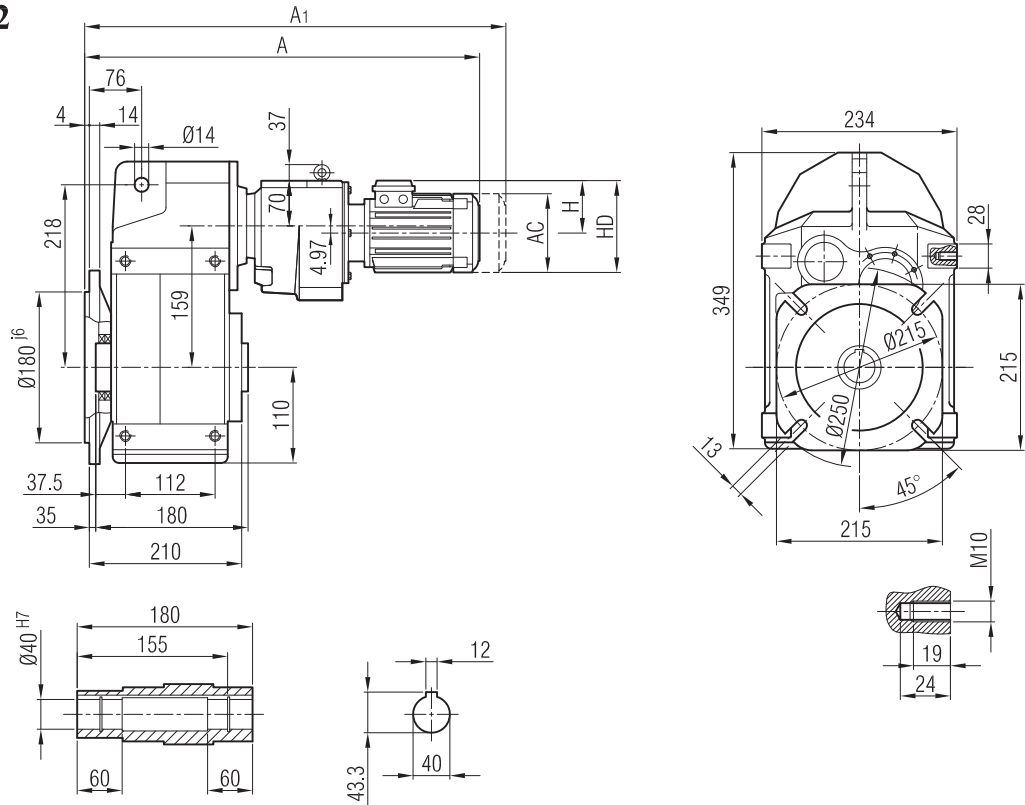




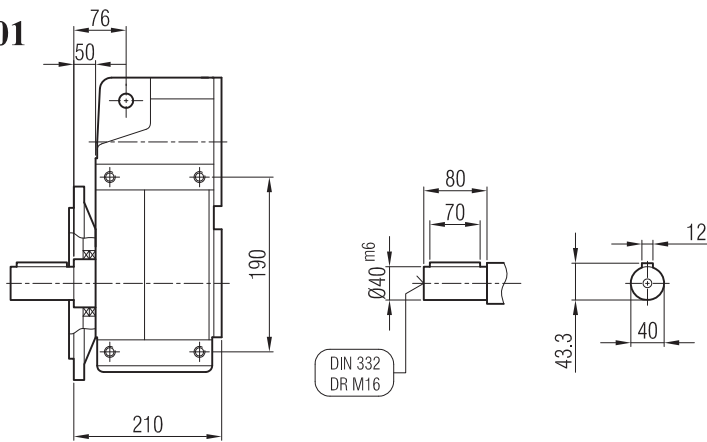


## YPFM 72 IR 53

## YPFM 73 IR 52



... -01



|    | 56 | 63  | 71  | 80  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A  |    | 580 | 566 | 596 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A1 |    | 638 | 639 | 679 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H  |    | 99  | 111 | 118 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HD |    | 162 | 182 | 198 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AC |    | 123 | 138 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |

"A1" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A1" is for motors with brake  
 Maß "A1" ist für Motoren mit Bremse

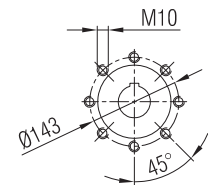
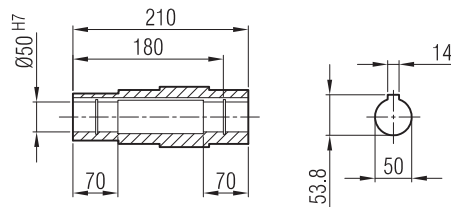
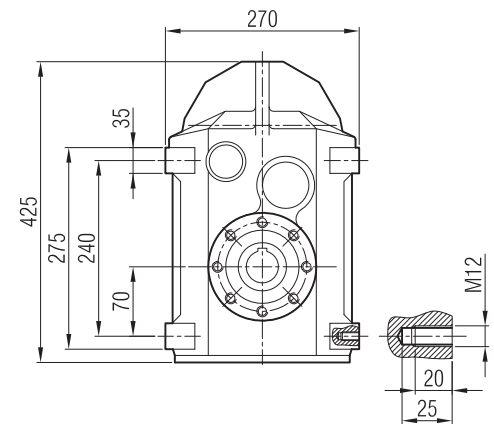
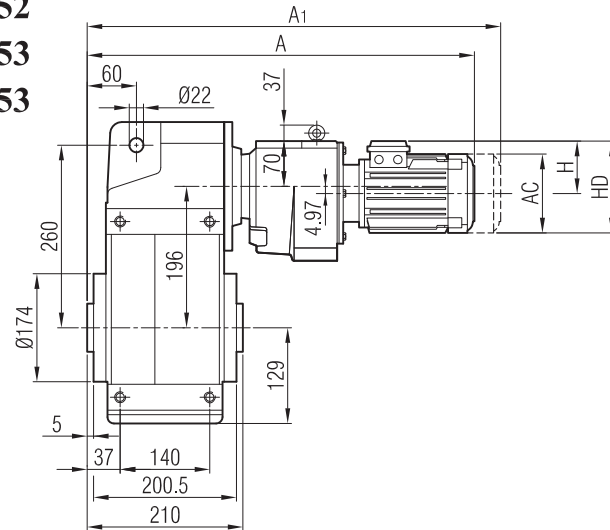




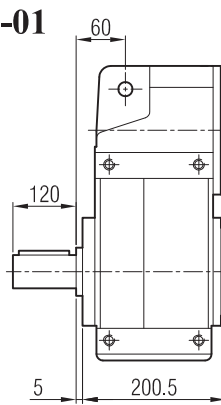
**YPM 82 İR 52**

**YPM 82 İR 53**

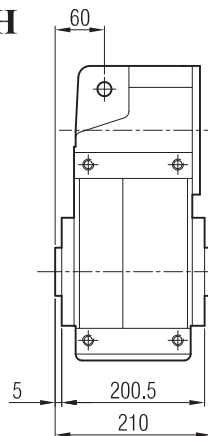
**YPM 83 İR 53**



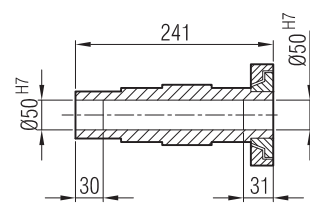
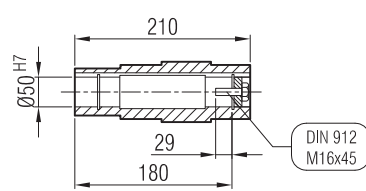
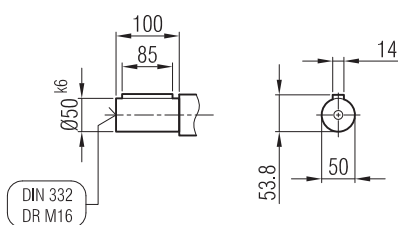
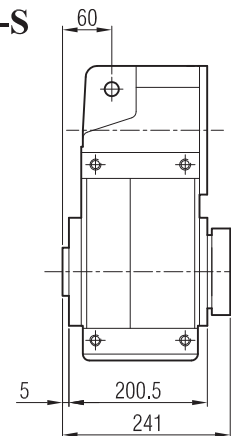
**... -01**



**... -H**



**... -S**



|                | 56 | 63  | 71  | 80  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 574 | 560 | 590 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 632 | 633 | 673 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

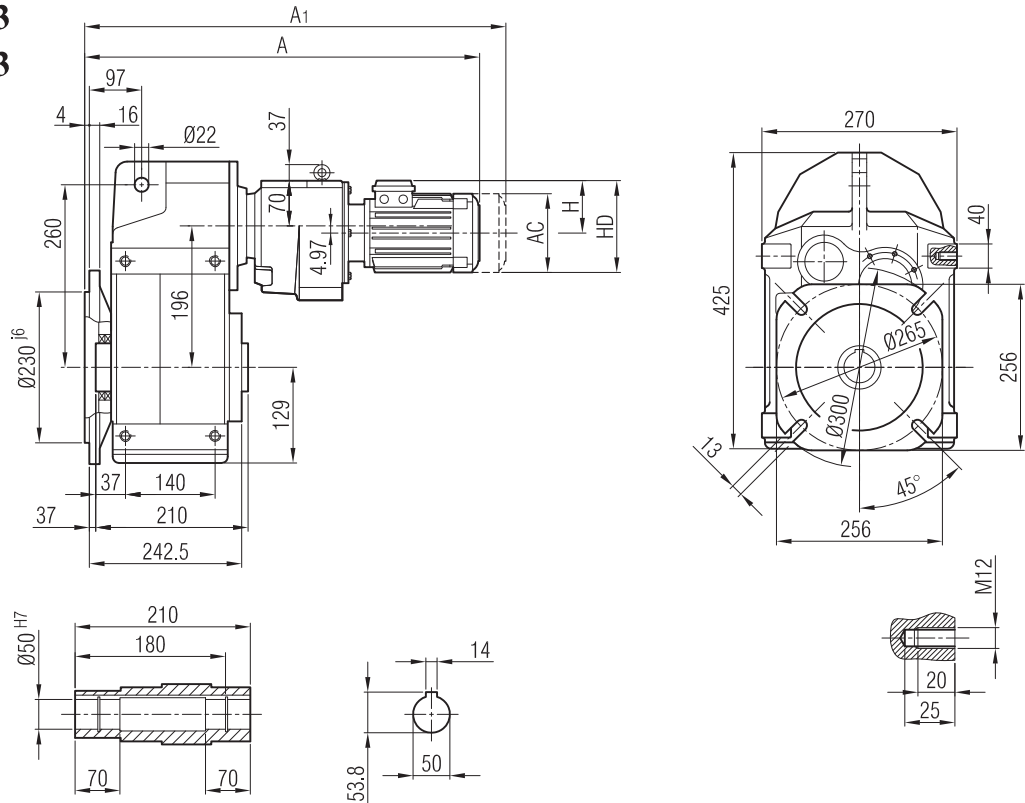




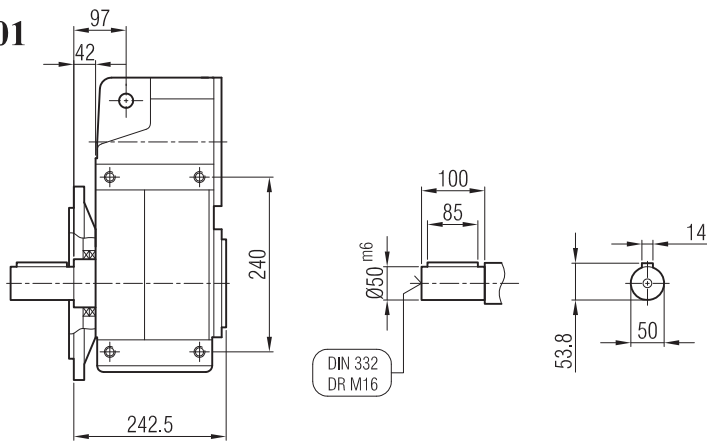
**YPFM 82 İR 52**

**YPFM 82 İR 53**

**YPFM 83 İR 53**



**... -01**



|                | 56 | 63  | 71  | 80  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 615 | 601 | 631 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 673 | 674 | 714 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99  | 111 | 118 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162 | 182 | 198 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123 | 138 | 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

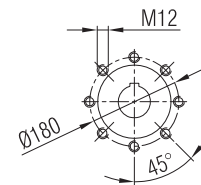
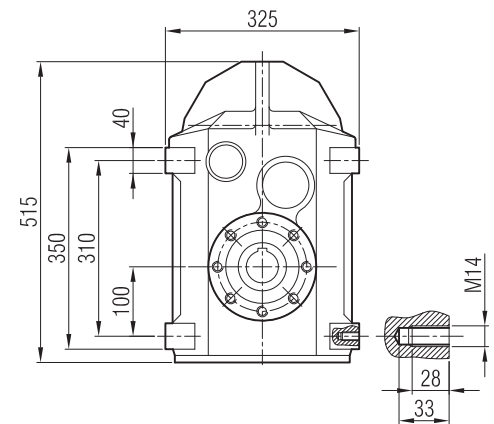
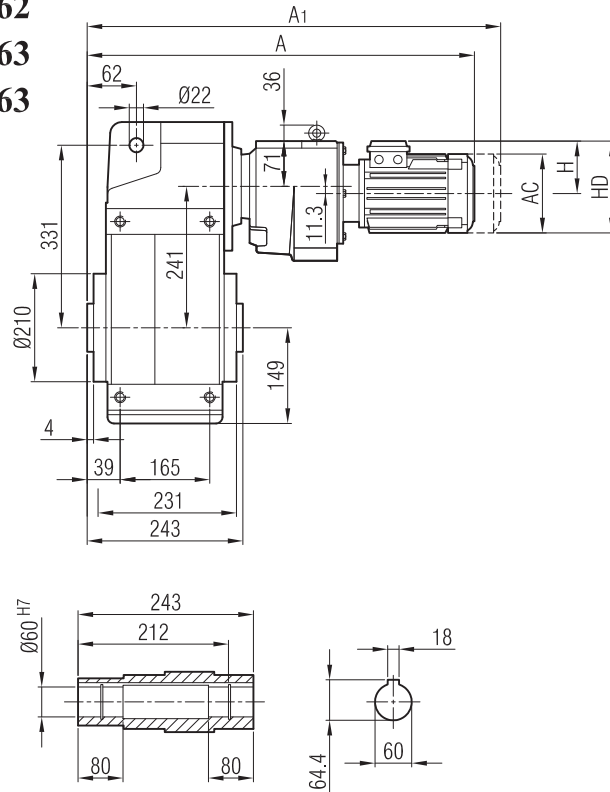




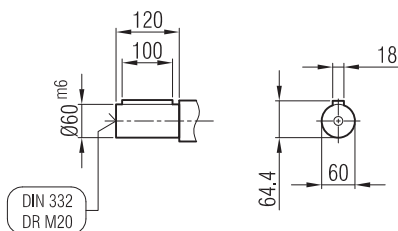
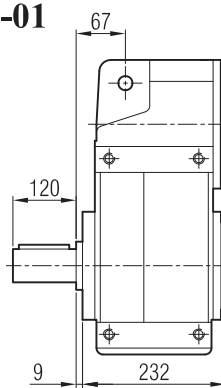
**YPM 92 İR 62**

**YPM 92 İR 63**

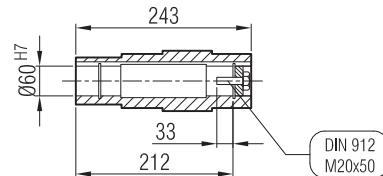
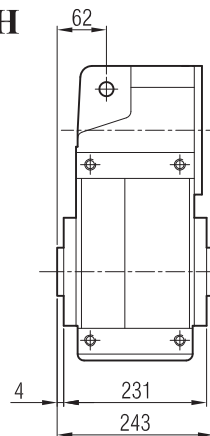
**YPM 93 İR 63**



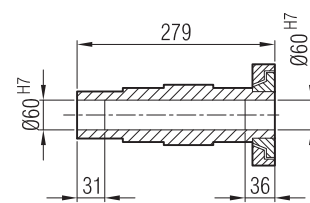
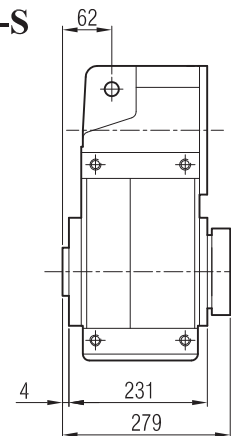
**... -01**



**... -H**



**... -S**



|    | 56 | 63  | 71  | 80  | 90 S | 90 L |  |  |  |  |  |  |  |  |  |  |
|----|----|-----|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|
| A  |    | 638 | 616 | 646 | 671  | 696  |  |  |  |  |  |  |  |  |  |  |
| A1 |    | 695 | 689 | 729 | 756  | 781  |  |  |  |  |  |  |  |  |  |  |
| H  |    | 99  | 111 | 118 | 132  | 132  |  |  |  |  |  |  |  |  |  |  |
| HD |    | 162 | 182 | 198 | 222  | 222  |  |  |  |  |  |  |  |  |  |  |
| AC |    | 123 | 138 | 158 | 193  | 193  |  |  |  |  |  |  |  |  |  |  |

"A1" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A1" is for motors with brake  
 Maß "A1" ist für Motoren mit Bremse

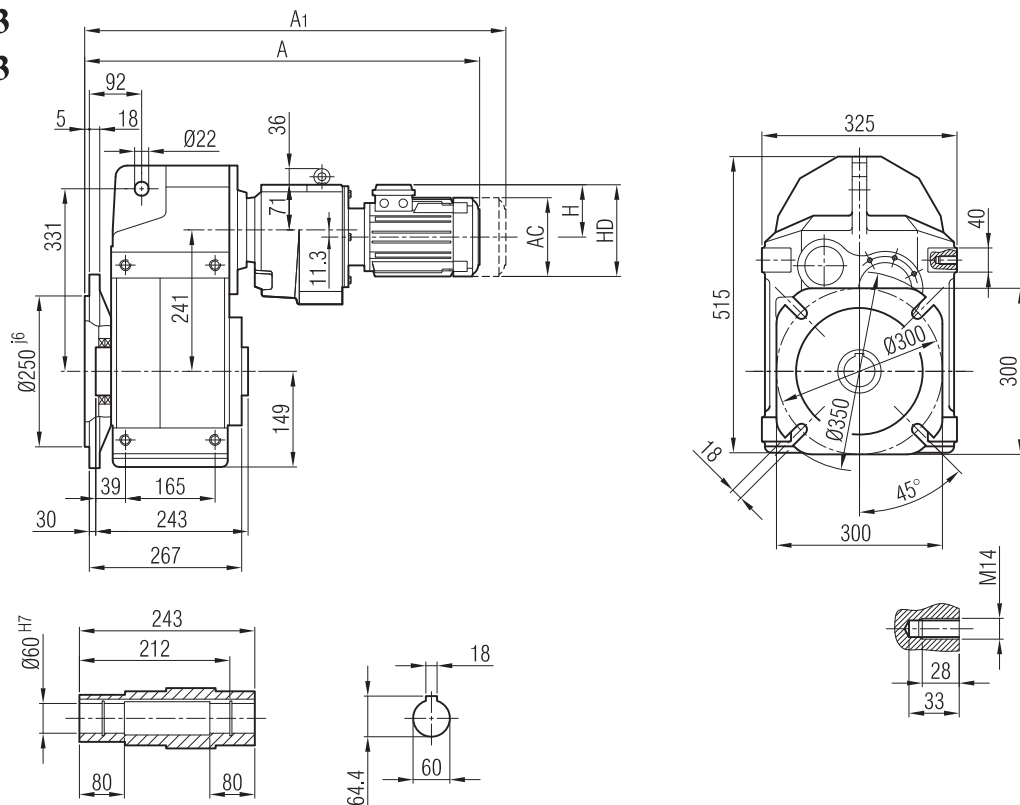




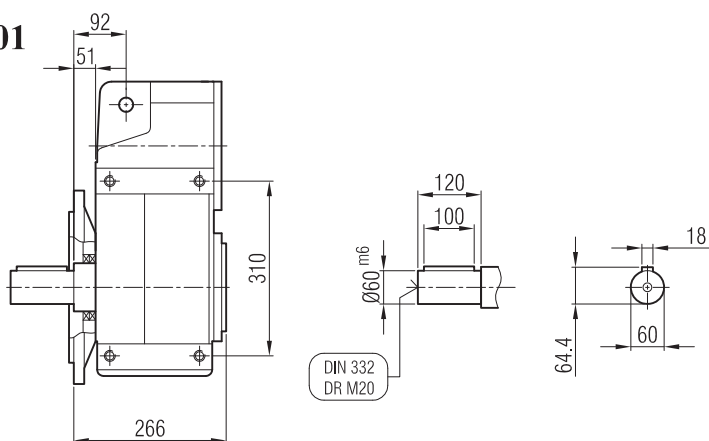
**YPFM 92 İR 62**

**YPFM 92 İR 63**

**YPFM 93 İR 63**



...-01

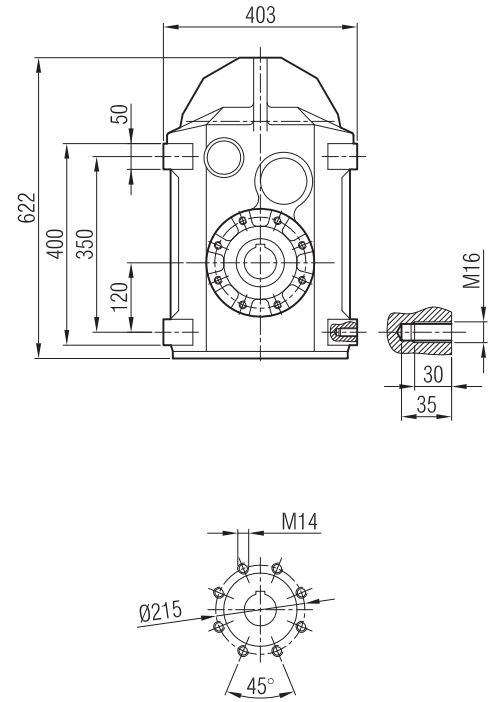
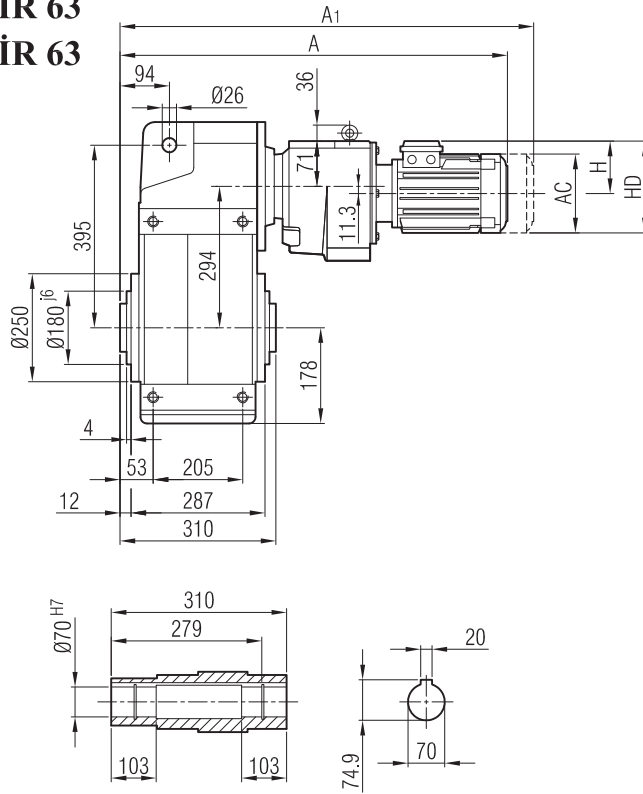
[illegible]

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

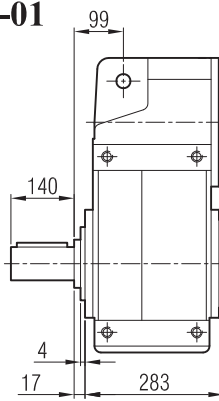




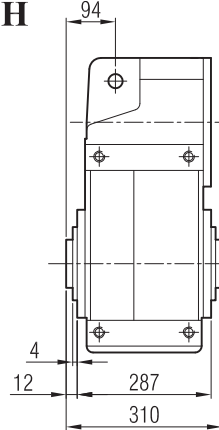
**YPM 102 İR 63**  
**YPM 103 İR 63**



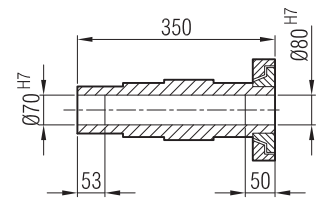
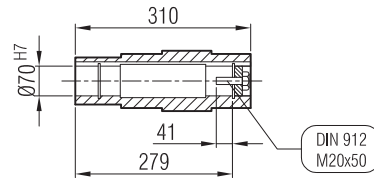
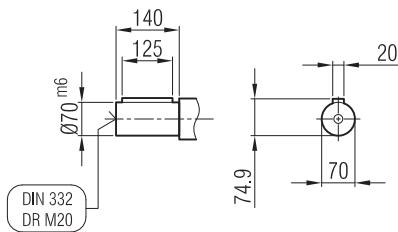
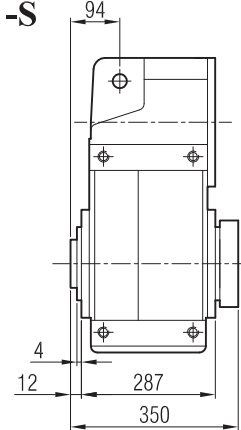
**... -01**



**... -H**



**... -S**



|                | 56 | 63   | 71  | 80  | 90 S | 90 L |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|----|------|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| A              |    | 688  | 668 | 698 | 713  | 733  |  |  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 1018 | 728 | 758 | 783  | 803  |  |  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99   | 111 | 118 | 132  | 132  |  |  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162  | 182 | 198 | 222  | 222  |  |  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123  | 138 | 158 | 193  | 193  |  |  |  |  |  |  |  |  |  |  |  |  |

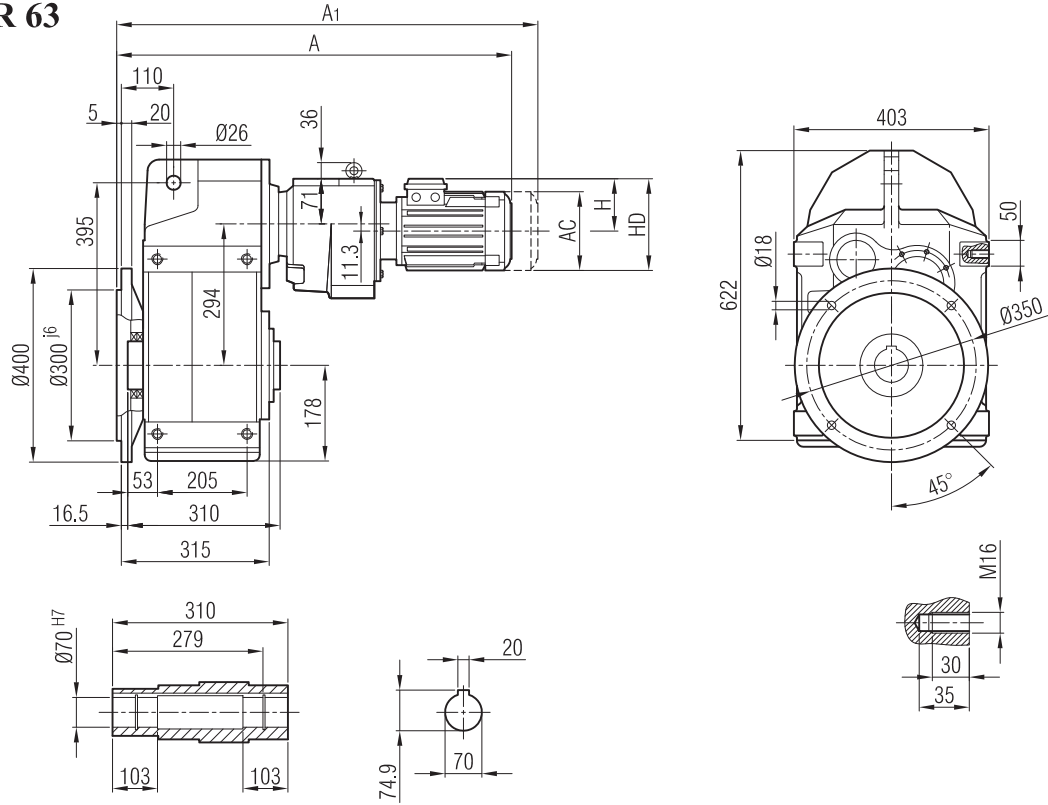
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse



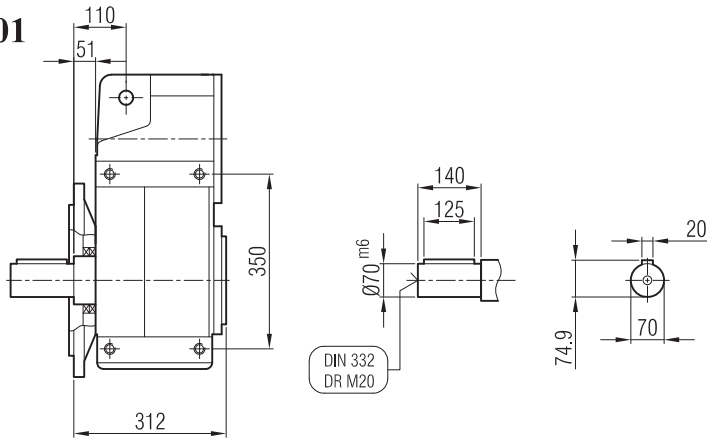


## YPFM 102 İR 63

## YPFM 103 İR 63



... -01



|                | 56 | 63   | 71  | 80  | 90 S | 90 L |  |  |  |  |  |  |  |  |  |  |
|----------------|----|------|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|
| A              |    | 713  | 693 | 723 | 738  | 758  |  |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    | 1043 | 743 | 783 | 808  | 828  |  |  |  |  |  |  |  |  |  |  |
| H              |    | 99   | 111 | 118 | 132  | 132  |  |  |  |  |  |  |  |  |  |  |
| HD             |    | 162  | 182 | 198 | 222  | 222  |  |  |  |  |  |  |  |  |  |  |
| AC             |    | 123  | 138 | 158 | 193  | 193  |  |  |  |  |  |  |  |  |  |  |

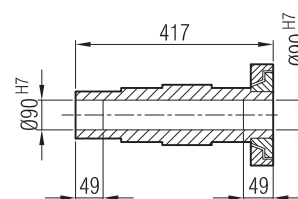
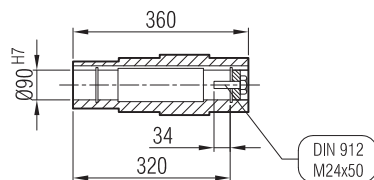
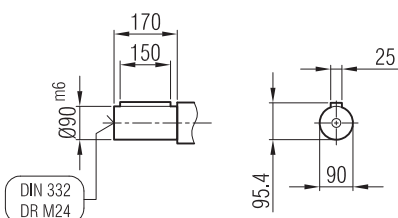
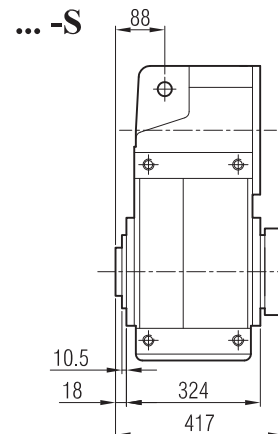
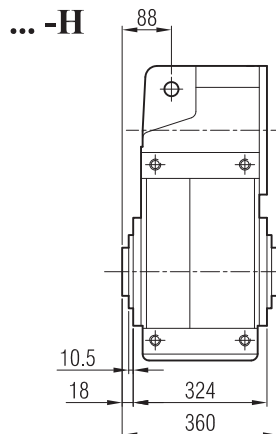
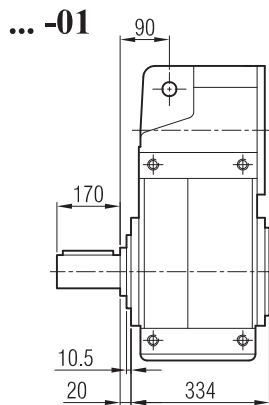
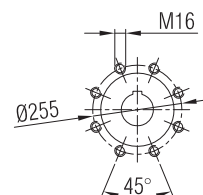
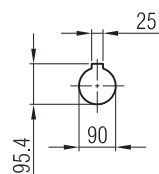
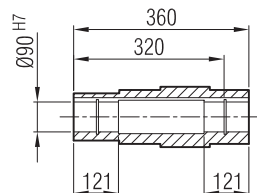
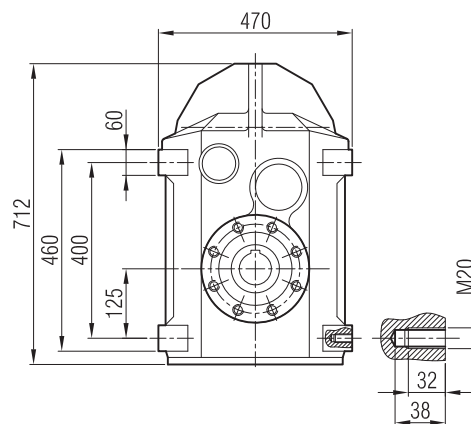
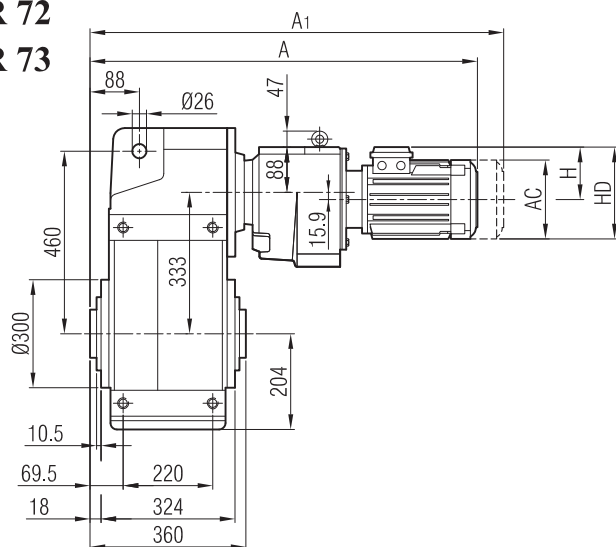
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse







YPM 123 İR 72  
YPM 123 İR 73



|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100 | 112  |  |  |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|-----|------|--|--|--|--|--|--|--|--|
| A              |    |    | 747 | 778 | 802  | 827  | 869 | 890  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 820 | 861 | 887  | 912  | 971 | 1015 |  |  |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141 | 149  |  |  |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241 | 261  |  |  |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217 | 232  |  |  |  |  |  |  |  |  |

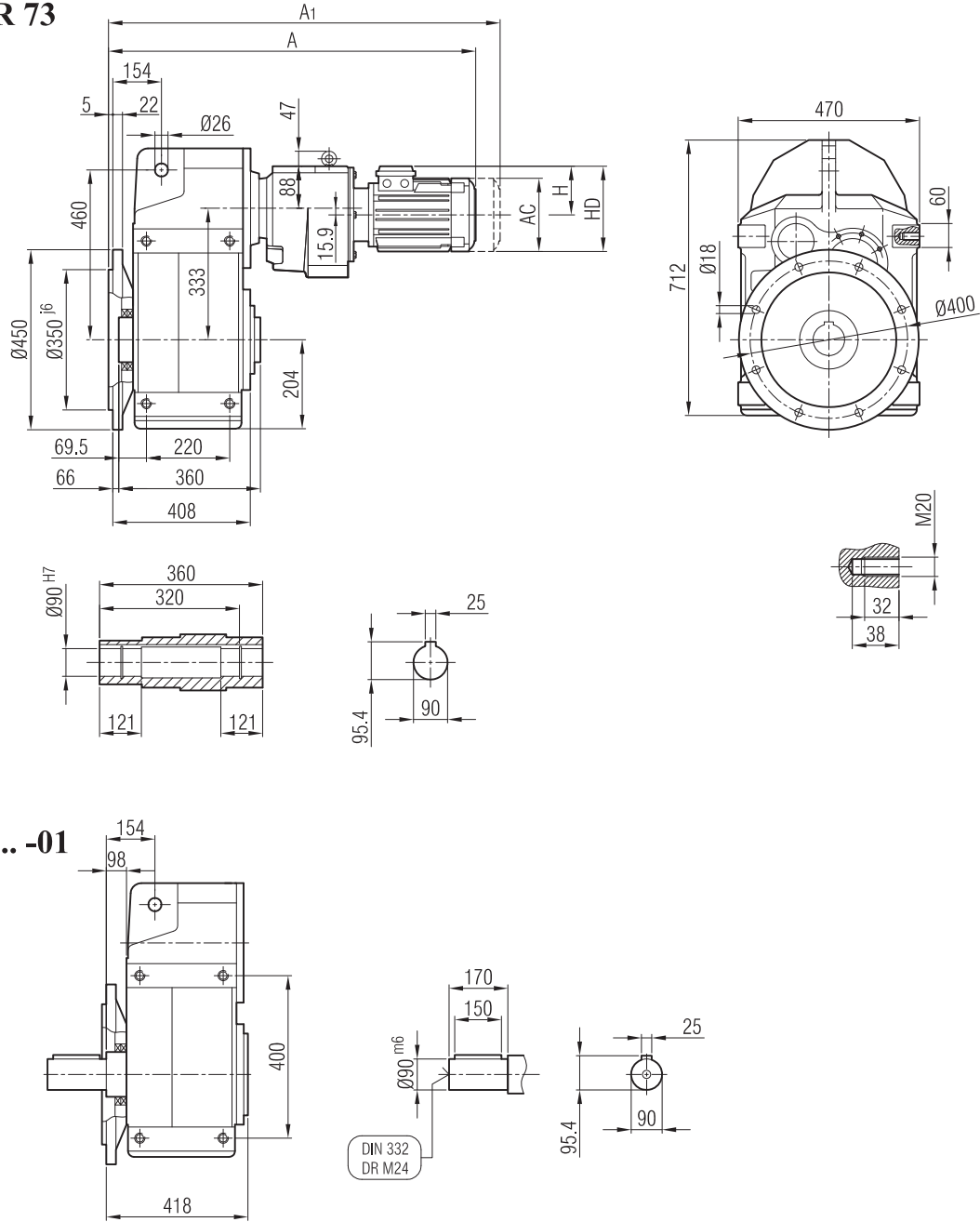
**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*





## YPFM 123 İR 72

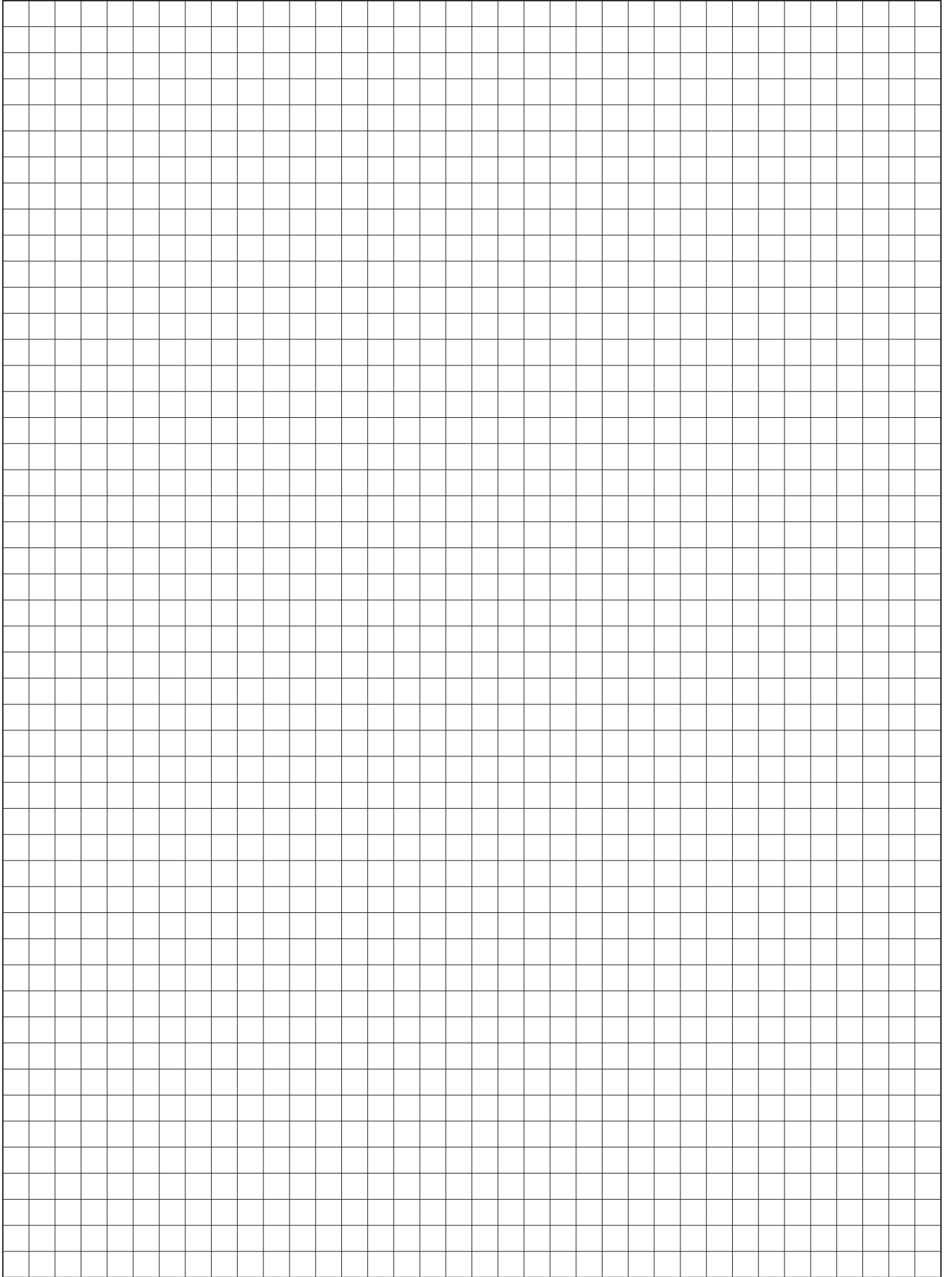
## YPFM 123 İR 73

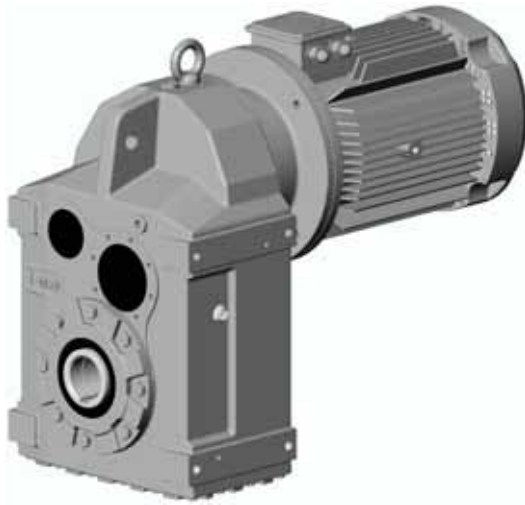


|                | 56 | 63 | 71  | 80  | 90 S | 90 L | 100  | 112  |  |  |  |  |  |  |  |  |
|----------------|----|----|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|
| A              |    |    | 818 | 849 | 873  | 898  | 940  | 961  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |    |    | 891 | 932 | 958  | 983  | 1042 | 1086 |  |  |  |  |  |  |  |  |
| H              |    |    | 111 | 118 | 132  | 132  | 141  | 149  |  |  |  |  |  |  |  |  |
| HD             |    |    | 182 | 198 | 222  | 222  | 241  | 261  |  |  |  |  |  |  |  |  |
| AC             |    |    | 138 | 158 | 193  | 193  | 217  | 232  |  |  |  |  |  |  |  |  |

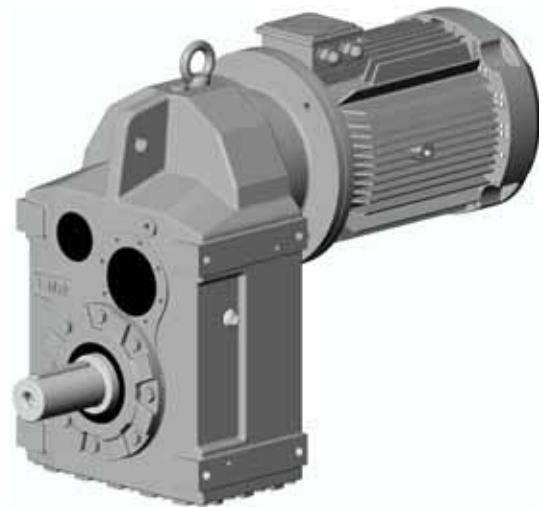
"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse







**YPPM ...**



**YPPM ... - 01**



**YPFPM ...**

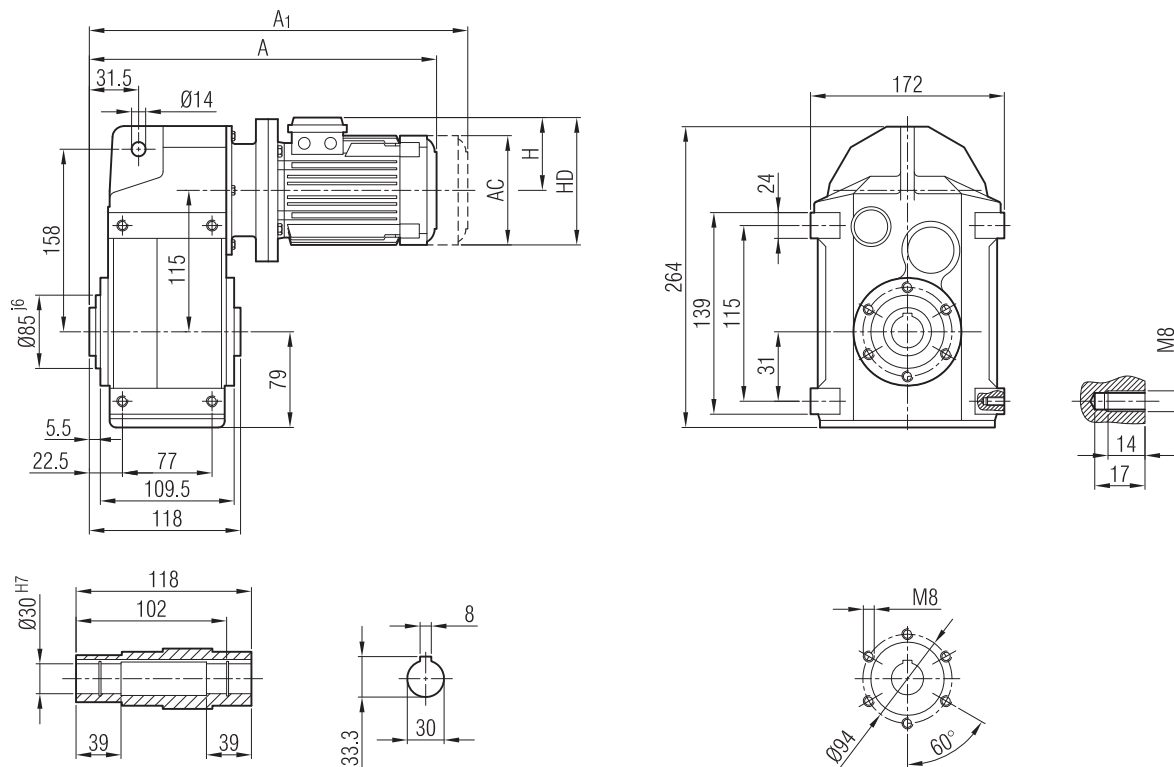


**YPFPM ... - 01**

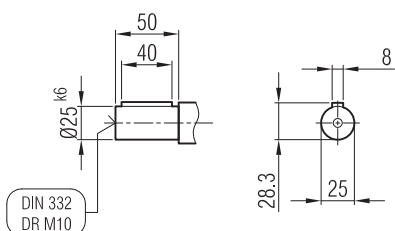
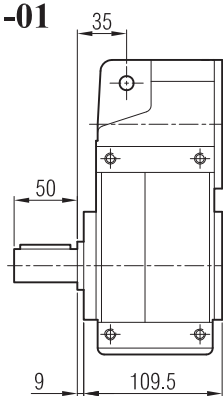


## YPPM 52

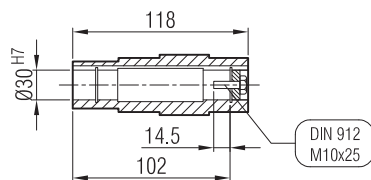
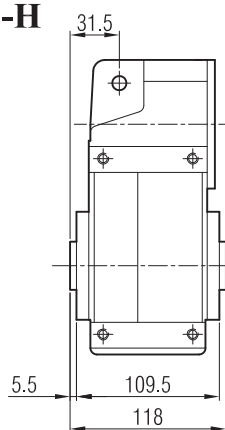
## YPPM 53



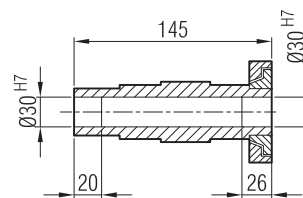
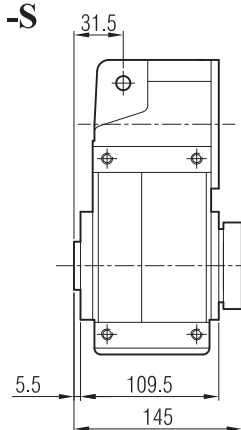
### ... -01



### ... -H



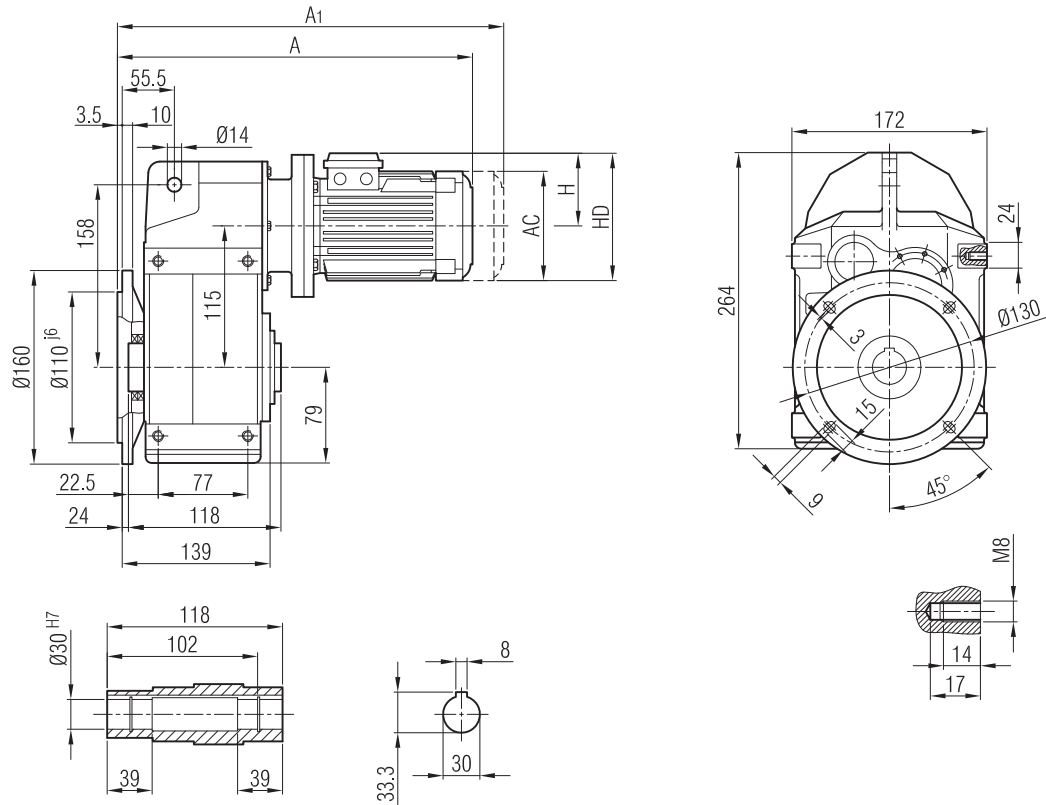
### ... -S



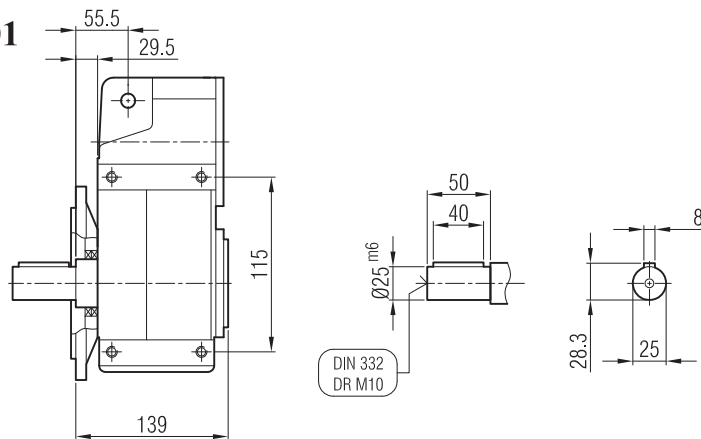
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |  |  |  |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--|--|--|--|--|--|--|--|--|
| A              |       | 342   | 377   | 400   | 415     | 440     | 486    |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |       | 400   | 450   | 483   | 500     | 525     | 588    |  |  |  |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    |  |  |  |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    |  |  |  |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse




**YPFPM 52**
**YPFPM 53**


... -01



|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 |  |  |  |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--|--|--|--|--|--|--|--|--|
| A              |       | 370   | 404   | 427   | 443     | 468     | 514    |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |       | 428   | 477   | 510   | 528     | 553     | 616    |  |  |  |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    |  |  |  |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    |  |  |  |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    |  |  |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.

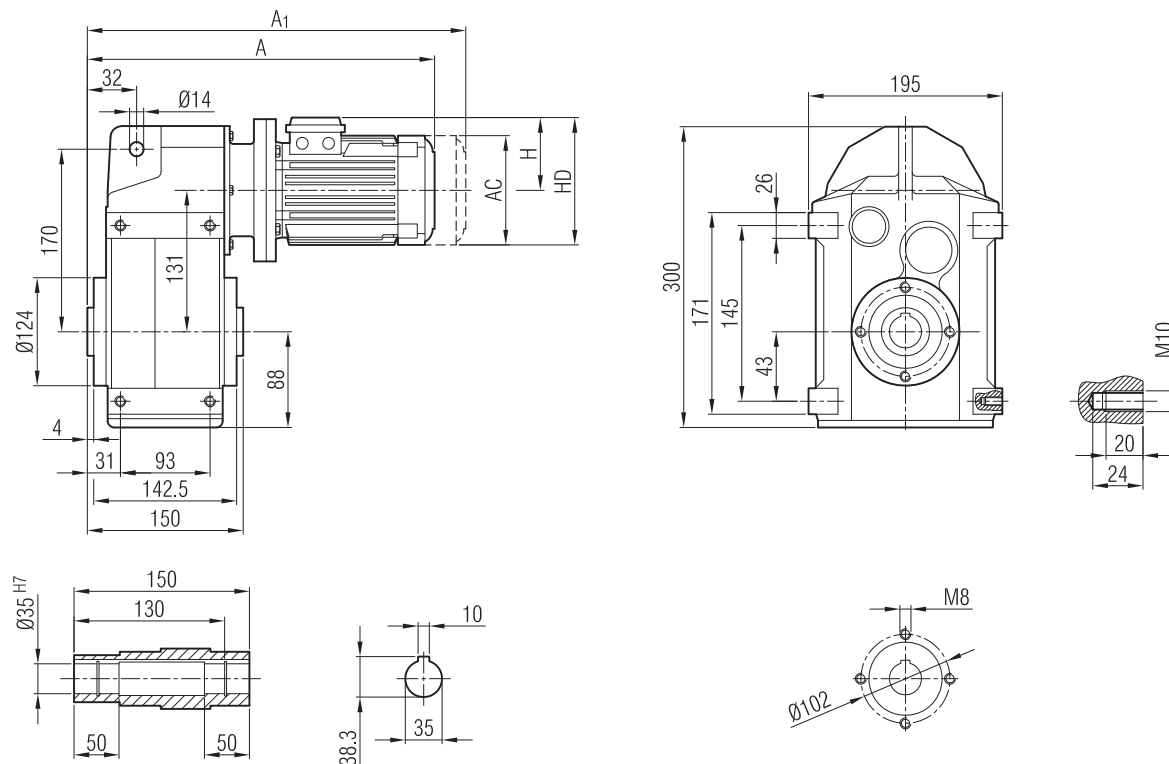
Dimension "A<sub>1</sub>" is for motors with brake

Maß "A<sub>1</sub>" ist für Motoren mit Bremse

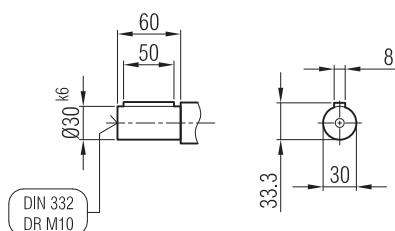
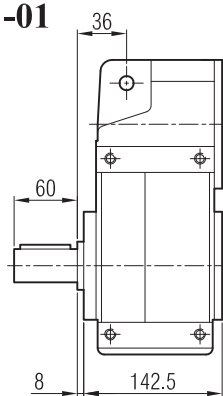




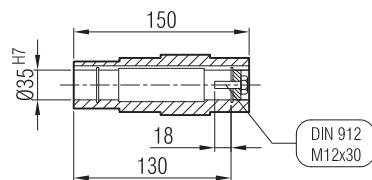
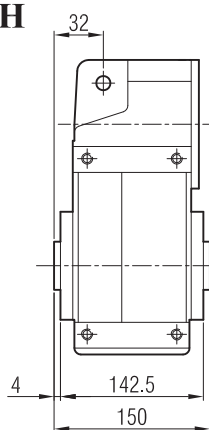
YPPM 62  
YPPM 63



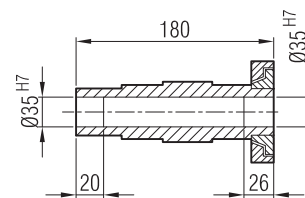
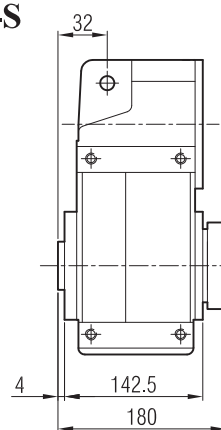
...-01



...-H



...-S



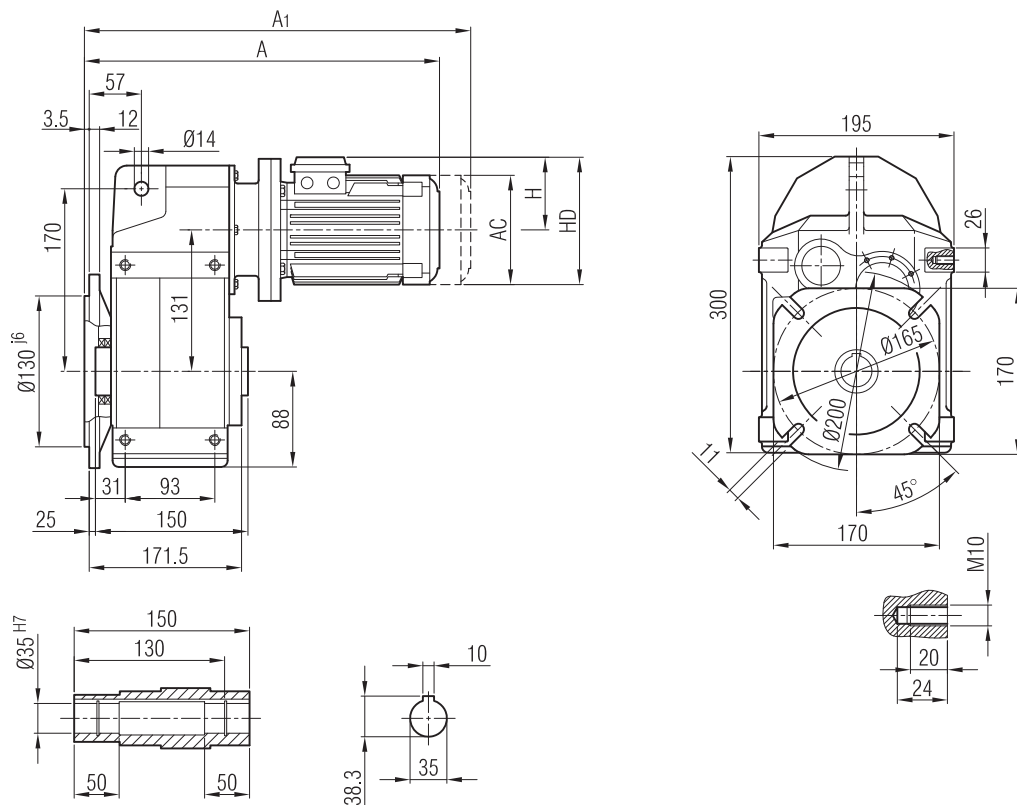
|                |       |       |       |       |         |         |        |        |  |  |  |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--------|--|--|--|--|--|--|--|--|--|
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 |  |  |  |  |  |  |  |  |  |
| A              |       | 369   | 405   | 431   | 446     | 471     | 516    | 536    |  |  |  |  |  |  |  |  |  |
| A <sub>1</sub> |       | 427   | 478   | 514   | 531     | 556     | 618    | 661    |  |  |  |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    | 149    |  |  |  |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    | 261    |  |  |  |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    | 232    |  |  |  |  |  |  |  |  |  |

**"A1" Ölçüsü Frenli Motorlar içindir.**  
Dimension "A1" is for motors with brake  
*Maß "A1" ist für Motoren mit Bremse*

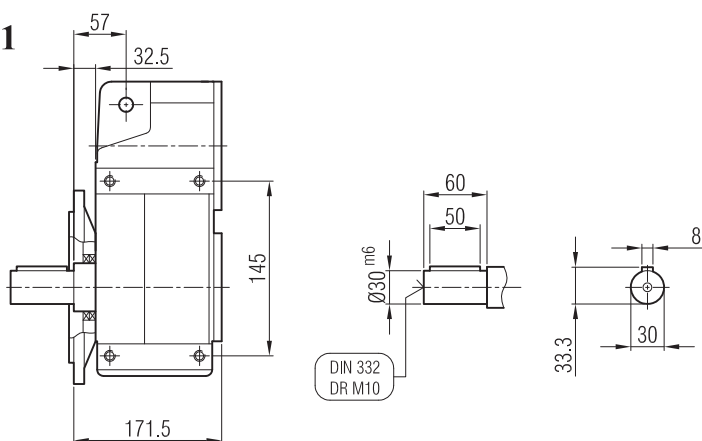




**YPFPM 62**  
**YPFPM 63**



**... -01**



|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 |  |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--------|--|--|--|--|--|--|--|
| A              |       | 398   | 433   | 459   | 475     | 500     | 545    | 565    |  |  |  |  |  |  |  |
| A <sub>1</sub> |       | 456   | 506   | 542   | 560     | 585     | 647    | 690    |  |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    | 149    |  |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    | 261    |  |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    | 232    |  |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

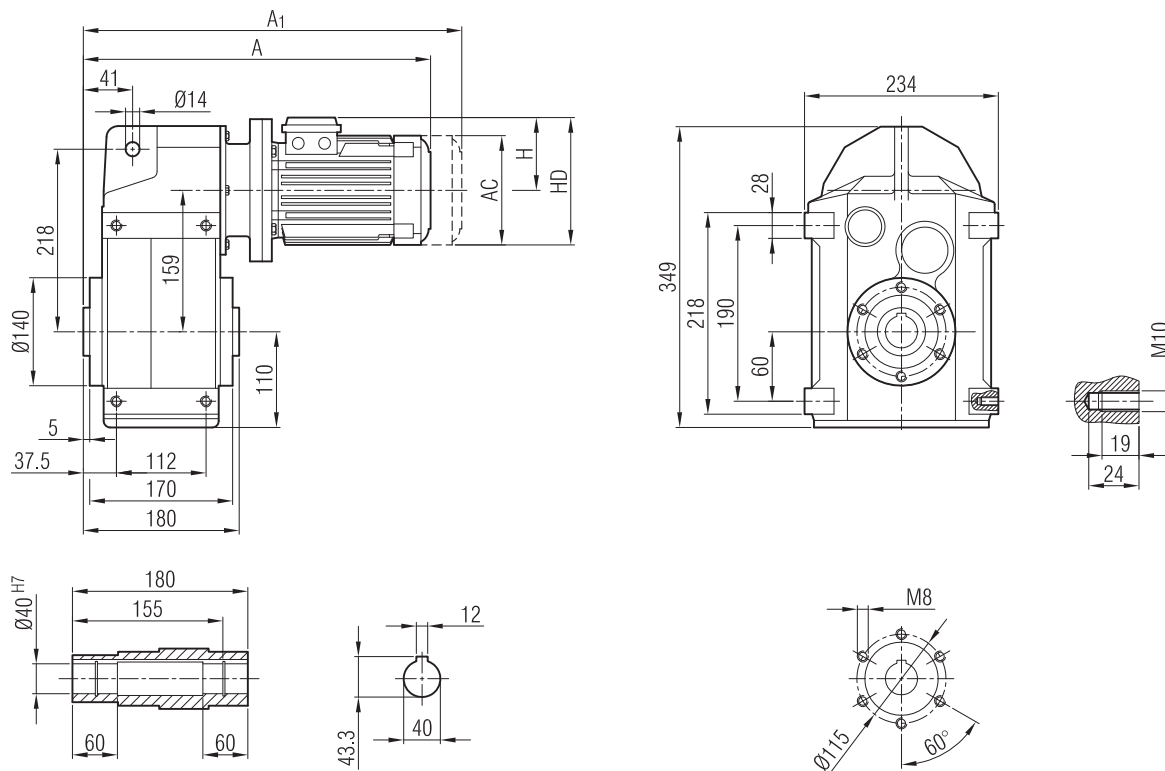




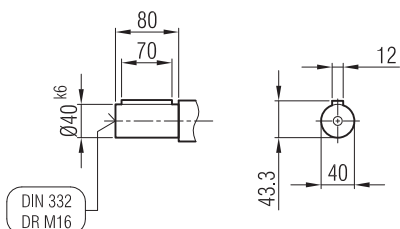
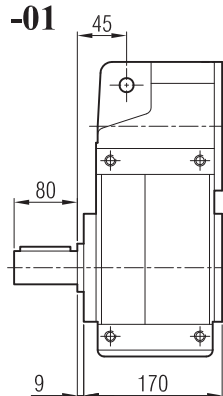


## YPPM 72

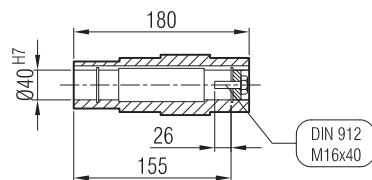
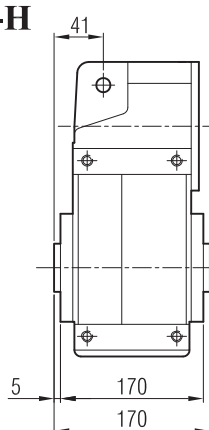
## YPPM 73



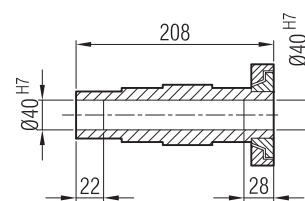
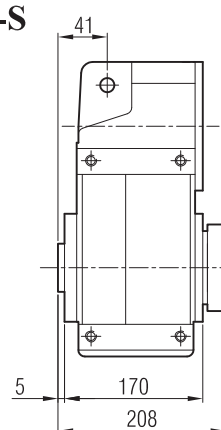
### ... -01



### ... -H



### ... -S



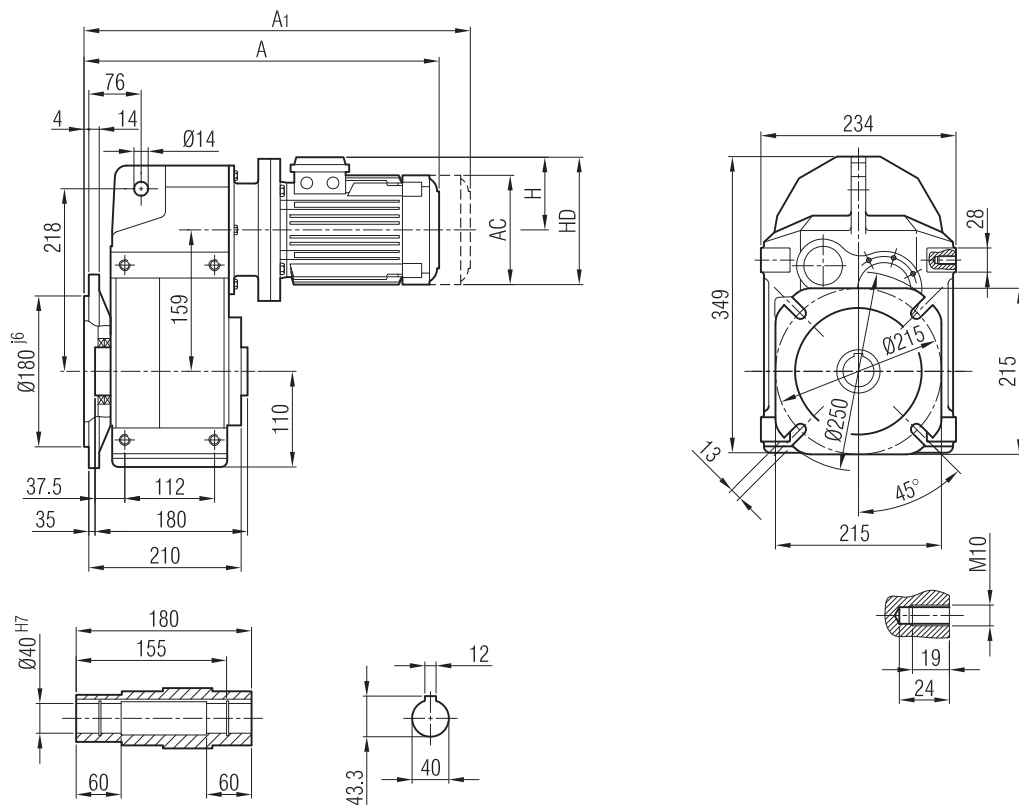
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--------|----------|----------|--|--|--|--|--|--|
| A              |       | 393   | 429   | 455   | 470     | 495     | 540    | 560    | 620      | 658      |  |  |  |  |  |  |
| A <sub>1</sub> |       | 451   | 502   | 538   | 555     | 580     | 642    | 685    | 762      | 800      |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    | 149    | 182      | 182      |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    | 261    | 314      | 314      |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    | 232    | 279      | 279      |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

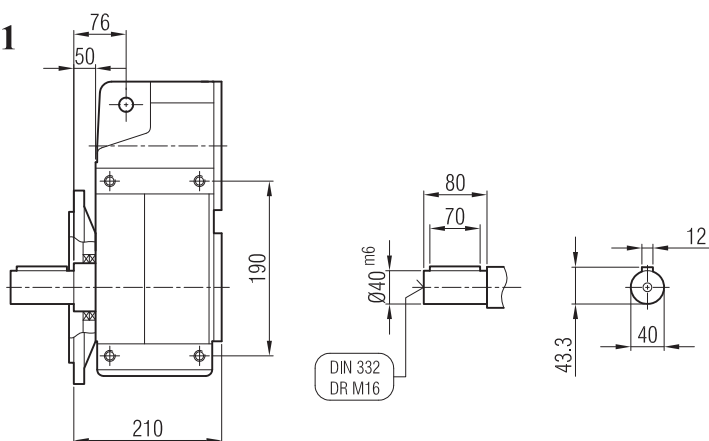




**YPFPM 72**  
**YPFPM 73**



**... -01**



|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--------|----------|----------|--|--|--|--|--|--|
| A              |       | 431   | 468   | 494   | 509     | 534     | 579    | 599    | 659      | 697      |  |  |  |  |  |  |
| A <sub>1</sub> |       | 489   | 541   | 577   | 594     | 619     | 681    | 724    | 801      | 839      |  |  |  |  |  |  |
| H              |       | 99    | 111   | 118   | 132     | 132     | 141    | 149    | 182      | 182      |  |  |  |  |  |  |
| HD             |       | 162   | 182   | 198   | 222     | 222     | 241    | 261    | 314      | 314      |  |  |  |  |  |  |
| AC             |       | 123   | 138   | 158   | 193     | 193     | 217    | 232    | 279      | 279      |  |  |  |  |  |  |

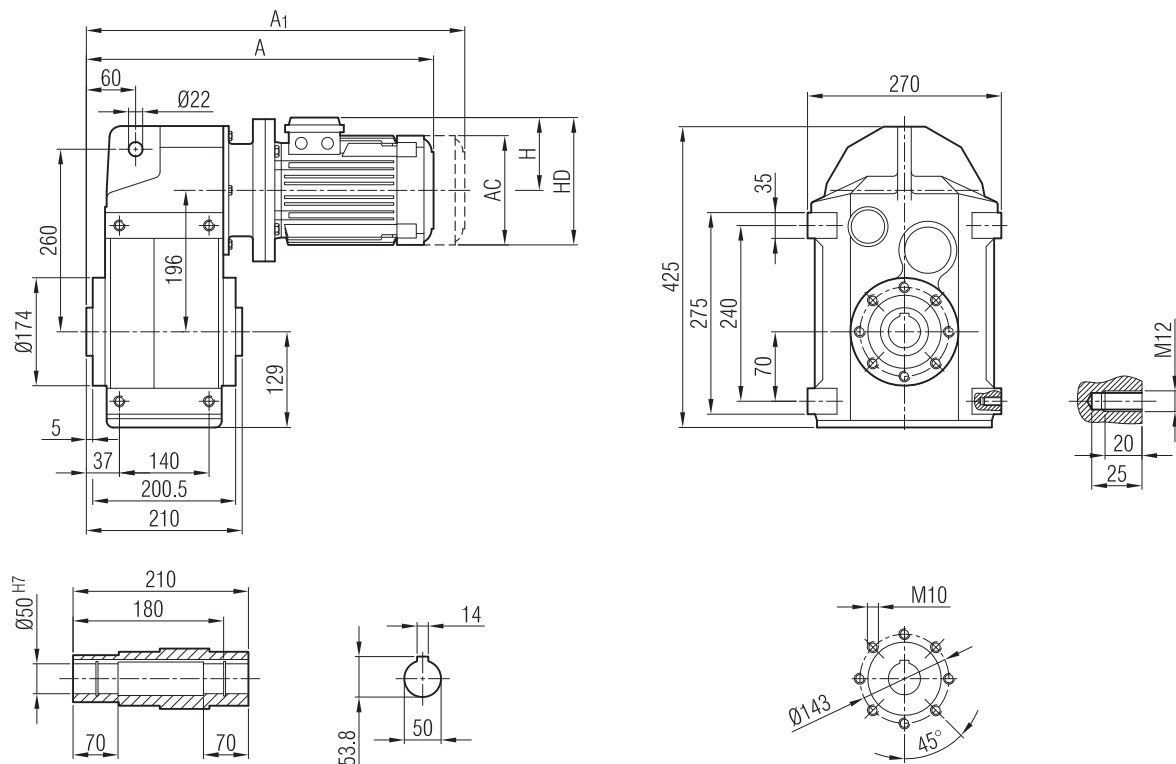
**"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.**  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse



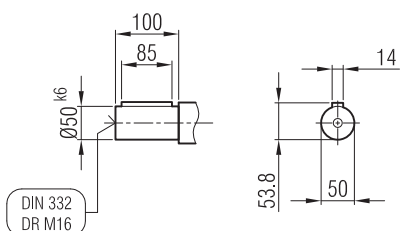
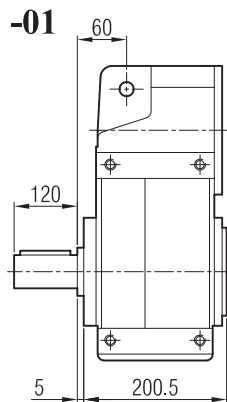


## YPPM 82

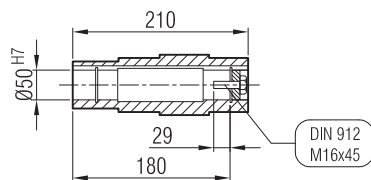
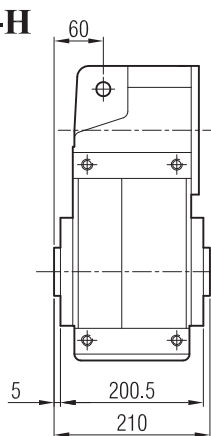
## YPPM 83



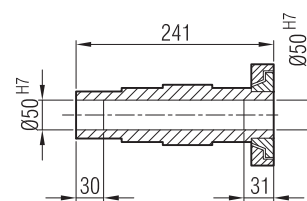
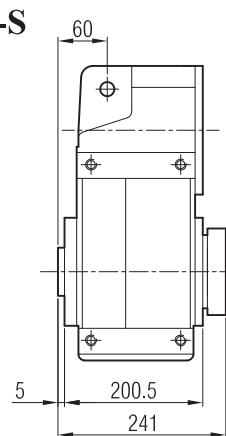
### ... -01



### ... -H



### ... -S



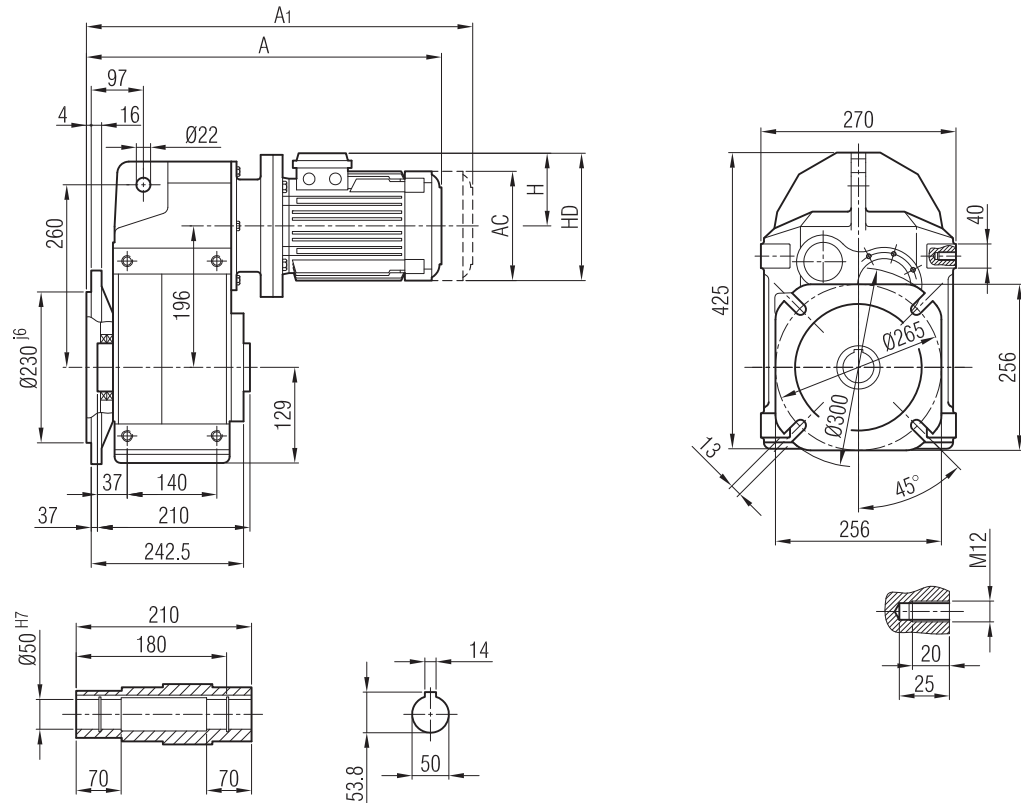
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/B5 | 132 S/B5 | 132 M/B5 |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|--------|----------|----------|--|--|--|--|--|--|
| A              |       |       | 470   | 503   | 519     | 544     | 580    | 600    | 668      | 706      |  |  |  |  |  |  |
| A <sub>1</sub> |       |       | 543   | 586   | 604     | 629     | 682    | 725    | 810      | 848      |  |  |  |  |  |  |
| H              |       |       | 111   | 118   | 132     | 132     | 141    | 149    | 182      | 182      |  |  |  |  |  |  |
| HD             |       |       | 182   | 198   | 222     | 222     | 241    | 261    | 314      | 314      |  |  |  |  |  |  |
| AC             |       |       | 138   | 158   | 193     | 193     | 217    | 232    | 279      | 279      |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse

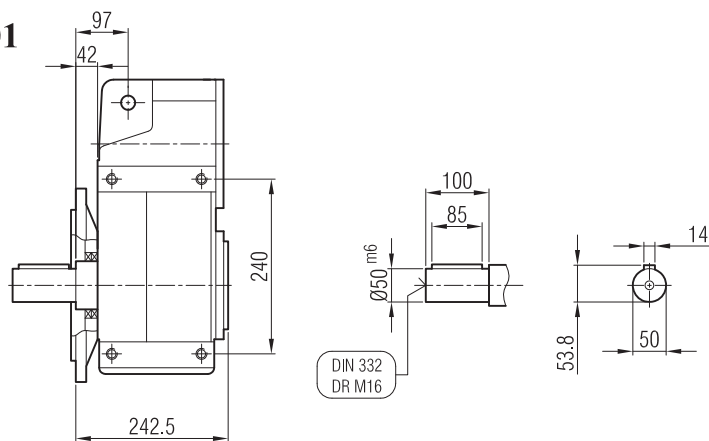




**YPFPM 82**  
**YPFPM 83**



... -01



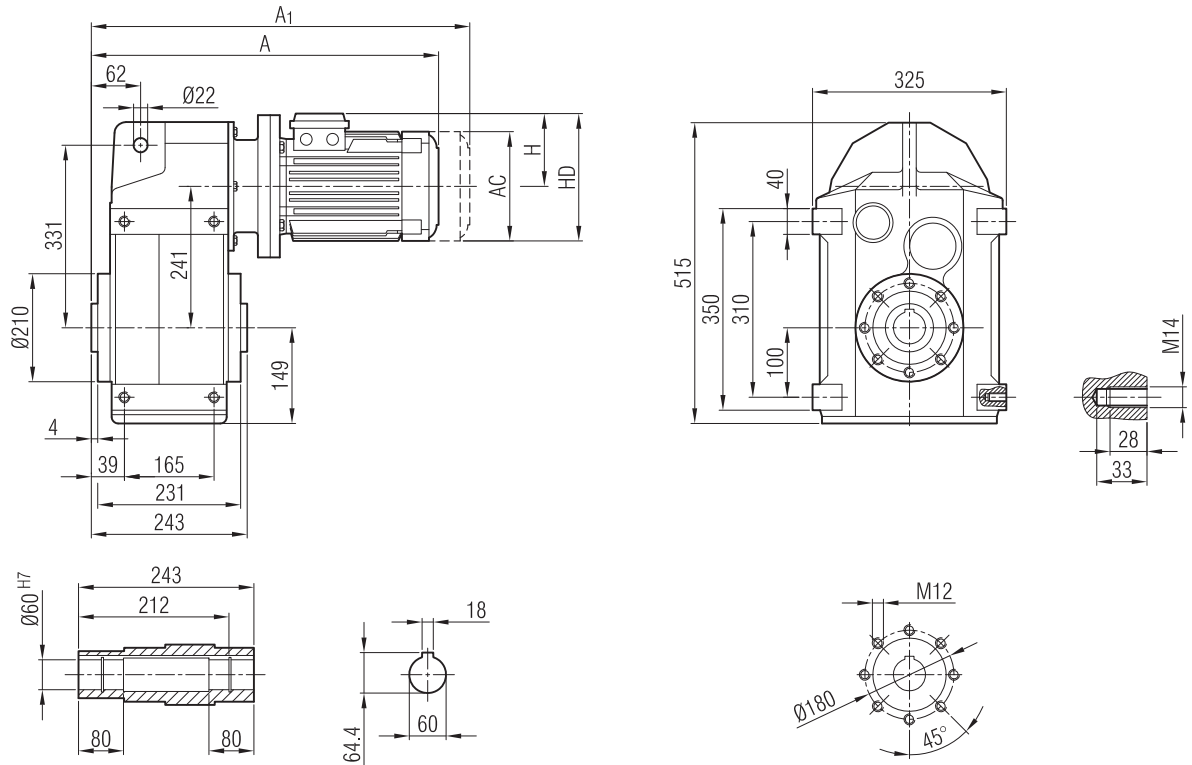
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 |  |  |  |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|--|--|--|--|--|--|
| A              |       |       | 511   | 544   | 560     | 585     | 621    | 641     | 709      | 747      |  |  |  |  |  |  |
| A <sub>1</sub> |       |       | 584   | 627   | 645     | 670     | 723    | 766     | 851      | 889      |  |  |  |  |  |  |
| H              |       |       | 111   | 118   | 132     | 132     | 141    | 149     | 182      | 182      |  |  |  |  |  |  |
| HD             |       |       | 182   | 198   | 222     | 222     | 241    | 261     | 314      | 314      |  |  |  |  |  |  |
| AC             |       |       | 138   | 158   | 193     | 193     | 217    | 232     | 279      | 279      |  |  |  |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

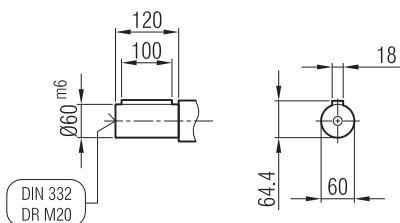
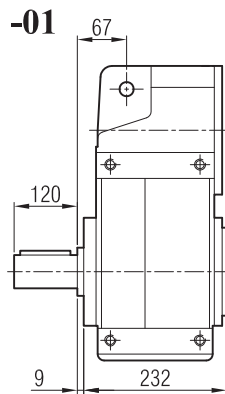




**YPPM 92**  
**YPPM 93**

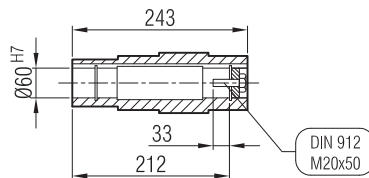
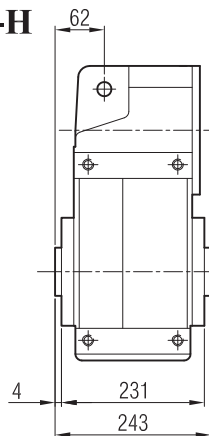


**... -01**



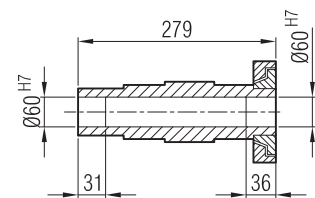
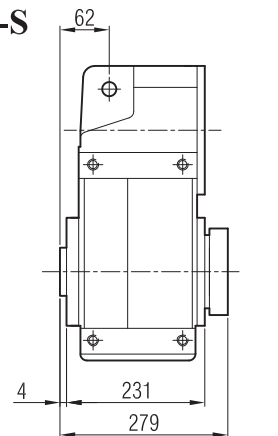
DIN 332  
DR M20

**... -H**



DIN 912  
M20x50

**... -S**



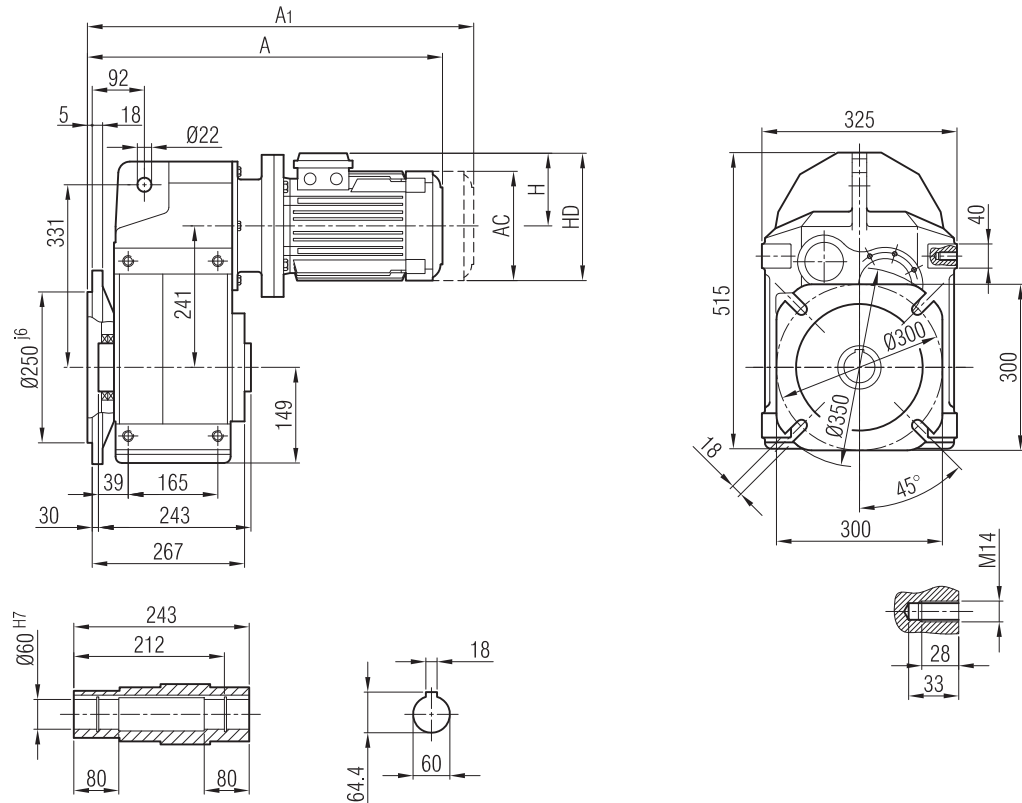
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|--|--|--|
| A              |       |       |       | 534   | 549     | 574     | 614    | 634     | 699      | 737      | 825      | 825      | 882      | 882      |  |  |  |
| A <sub>1</sub> |       |       |       | 617   | 634     | 659     | 716    | 759     | 841      | 879      | 1015     | 1015     | 1077     | 1077     |  |  |  |
| H              |       |       |       | 118   | 132     | 132     | 141    | 149     | 182      | 182      | 225      | 225      | 248      | 248      |  |  |  |
| HD             |       |       |       | 198   | 222     | 222     | 241    | 261     | 314      | 314      | 385      | 385      | 428      | 428      |  |  |  |
| AC             |       |       |       | 158   | 193     | 193     | 217    | 232     | 279      | 279      | 325      | 325      | 370      | 370      |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
 Dimension "A<sub>1</sub>" is for motors with brake  
 Maß "A<sub>1</sub>" ist für Motoren mit Bremse

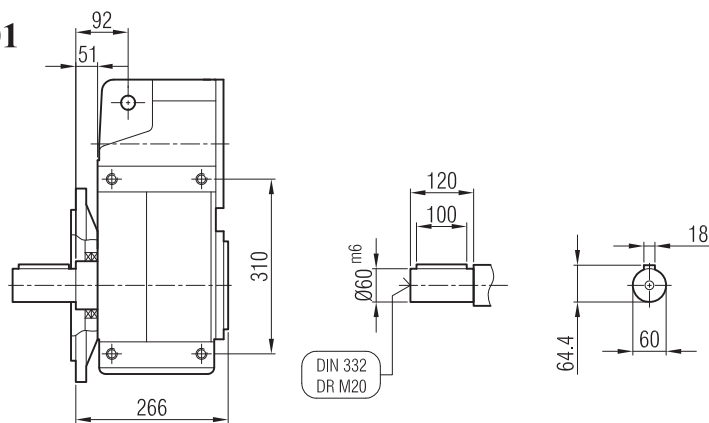




**YPFPM 92**  
**YPFPM 93**



**... -01**



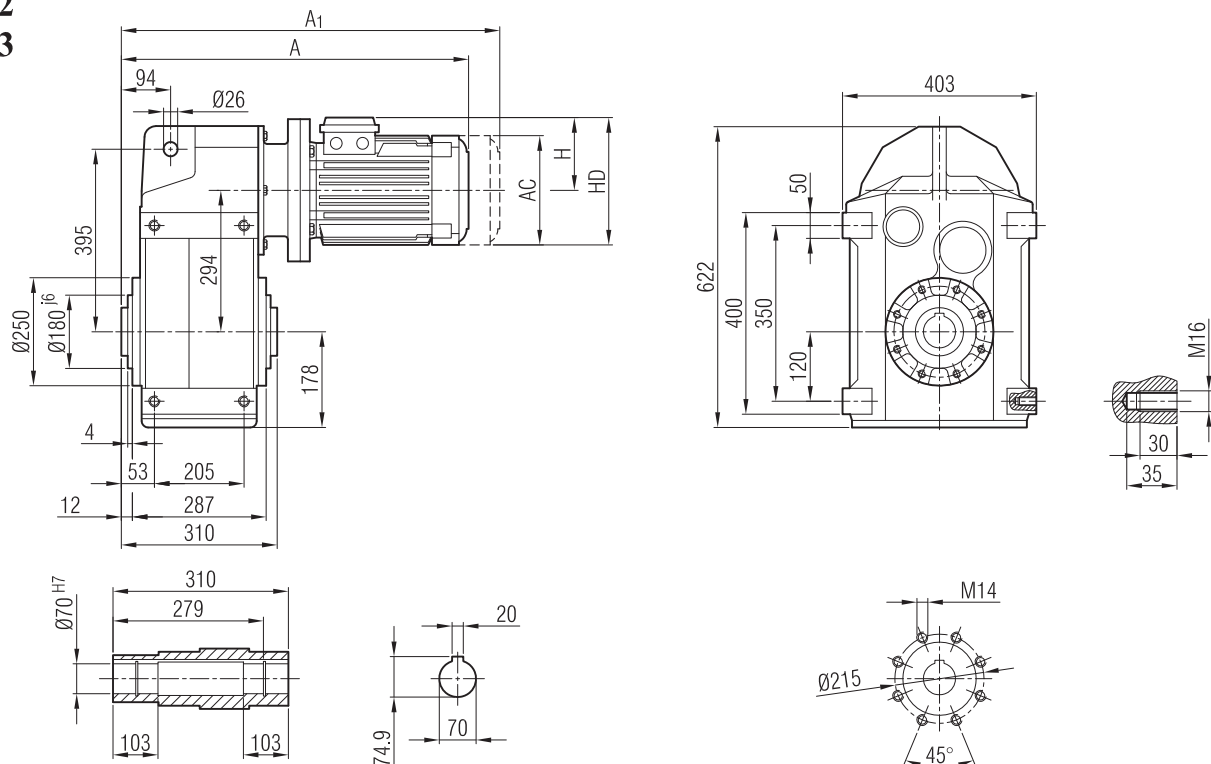
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 |  |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|--|--|--|
| A              |       |       |       | 569   | 584     | 609     | 649    | 669     | 734      | 772      | 860      | 860      | 917      | 917      |  |  |  |
| A <sub>1</sub> |       |       |       | 652   | 669     | 694     | 751    | 794     | 876      | 914      | 1050     | 1050     | 1112     | 1112     |  |  |  |
| H              |       |       |       | 118   | 132     | 132     | 141    | 149     | 182      | 182      | 225      | 225      | 248      | 248      |  |  |  |
| HD             |       |       |       | 198   | 222     | 222     | 241    | 261     | 314      | 314      | 385      | 385      | 428      | 428      |  |  |  |
| AC             |       |       |       | 158   | 193     | 193     | 217    | 232     | 279      | 279      | 325      | 325      | 370      | 370      |  |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
*Maß "A<sub>1</sub>" ist für Motoren mit Bremse*

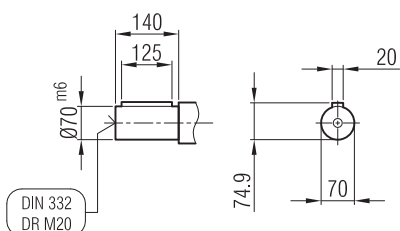
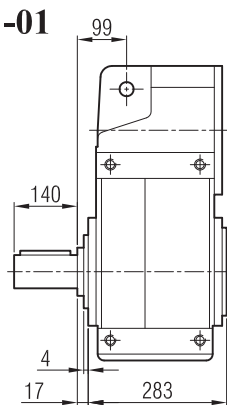




**YPPM 102**  
**YPPM 103**

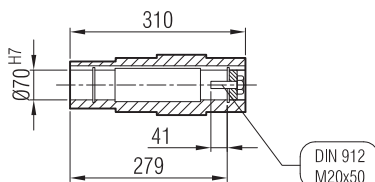
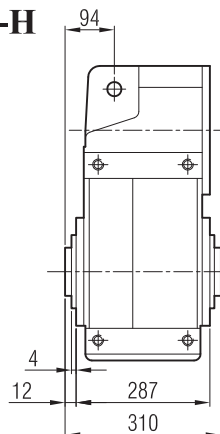


... -01



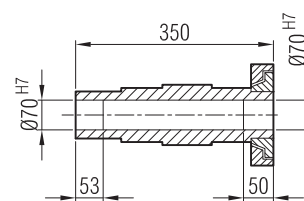
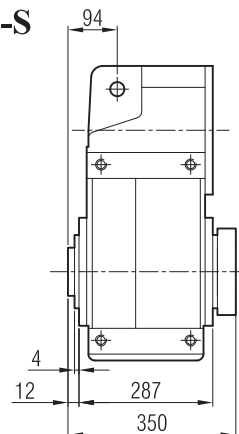
DIN 332  
DR M20

... -H



DIN 912  
M20x50

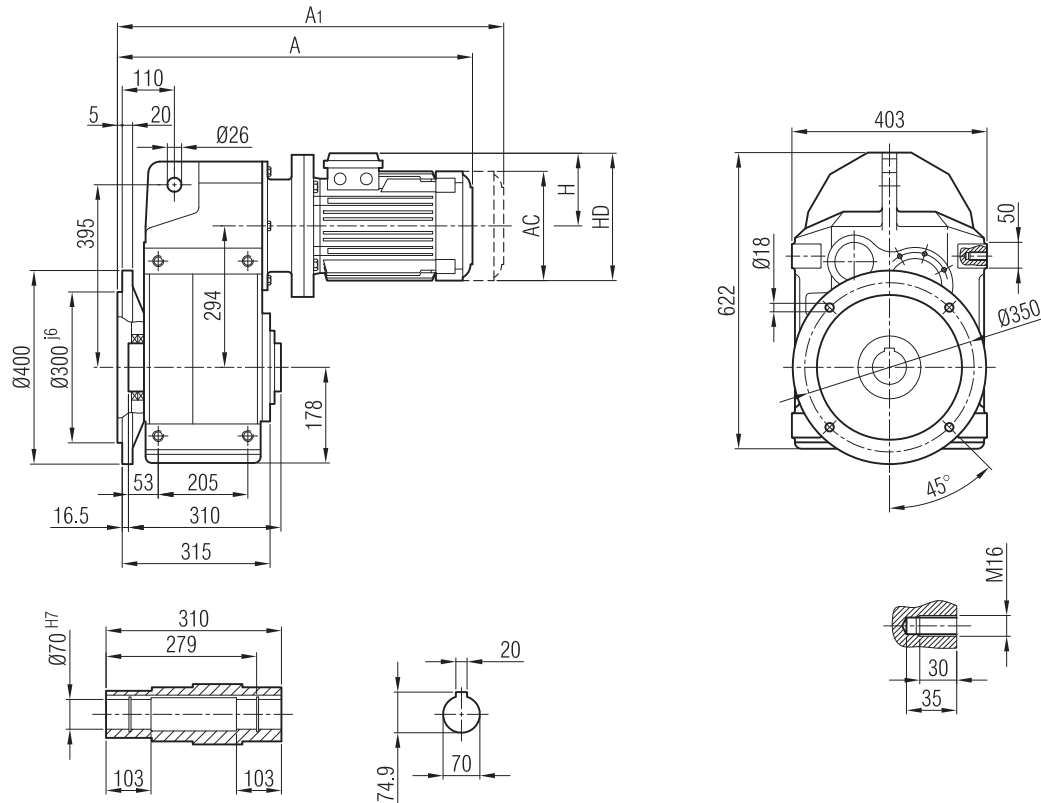
... -S



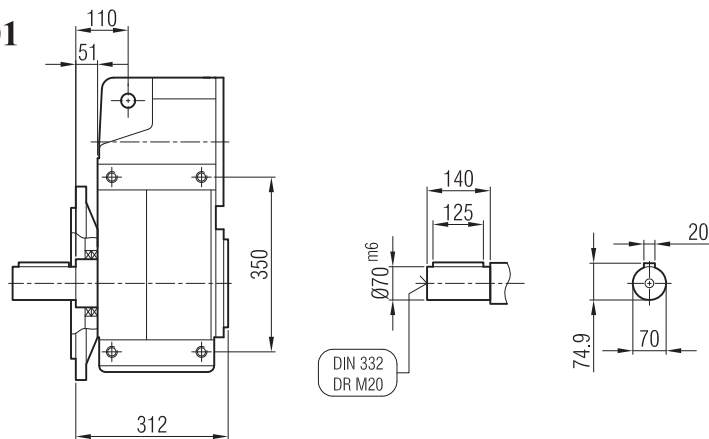
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|--------|--|--|
| A              |       |       |       |       | 584     | 609     | 650    | 670     | 751      | 789      | 877      | 877      | 934      | 934      | 1072   |  |  |
| A <sub>1</sub> |       |       |       |       | 669     | 694     | 752    | 795     | 893      | 931      | 1067     | 1067     | 1129     | 1129     | -      |  |  |
| H              |       |       |       |       | 132     | 132     | 141    | 149     | 182      | 182      | 225      | 225      | 248      | 248      | 275    |  |  |
| HD             |       |       |       |       | 222     | 222     | 241    | 261     | 314      | 314      | 385      | 385      | 428      | 428      | 425    |  |  |
| AC             |       |       |       |       | 193     | 193     | 217    | 232     | 279      | 279      | 325      | 325      | 370      | 370      | 415    |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse




**YPFPM 102**
**YPFPM 103**


**... -01**



|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 |  |  |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|--------|--|--|
| A              |       |       |       |       | 605     | 630     | 671    | 691     | 772      | 810      | 898      | 898      | 955      | 955      | 1093   |  |  |
| A <sub>1</sub> |       |       |       |       | 690     | 715     | 773    | 816     | 914      | 952      | 1088     | 1088     | 1150     | 1150     | -      |  |  |
| H              |       |       |       |       | 132     | 132     | 141    | 149     | 182      | 182      | 225      | 225      | 248      | 248      | 275    |  |  |
| HD             |       |       |       |       | 222     | 222     | 241    | 261     | 314      | 314      | 385      | 385      | 428      | 428      | 425    |  |  |
| AC             |       |       |       |       | 193     | 193     | 217    | 232     | 279      | 279      | 325      | 325      | 370      | 370      | 415    |  |  |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.

Dimension "A<sub>1</sub>" is for motors with brake

Maß "A<sub>1</sub>" ist für Motoren mit Bremse

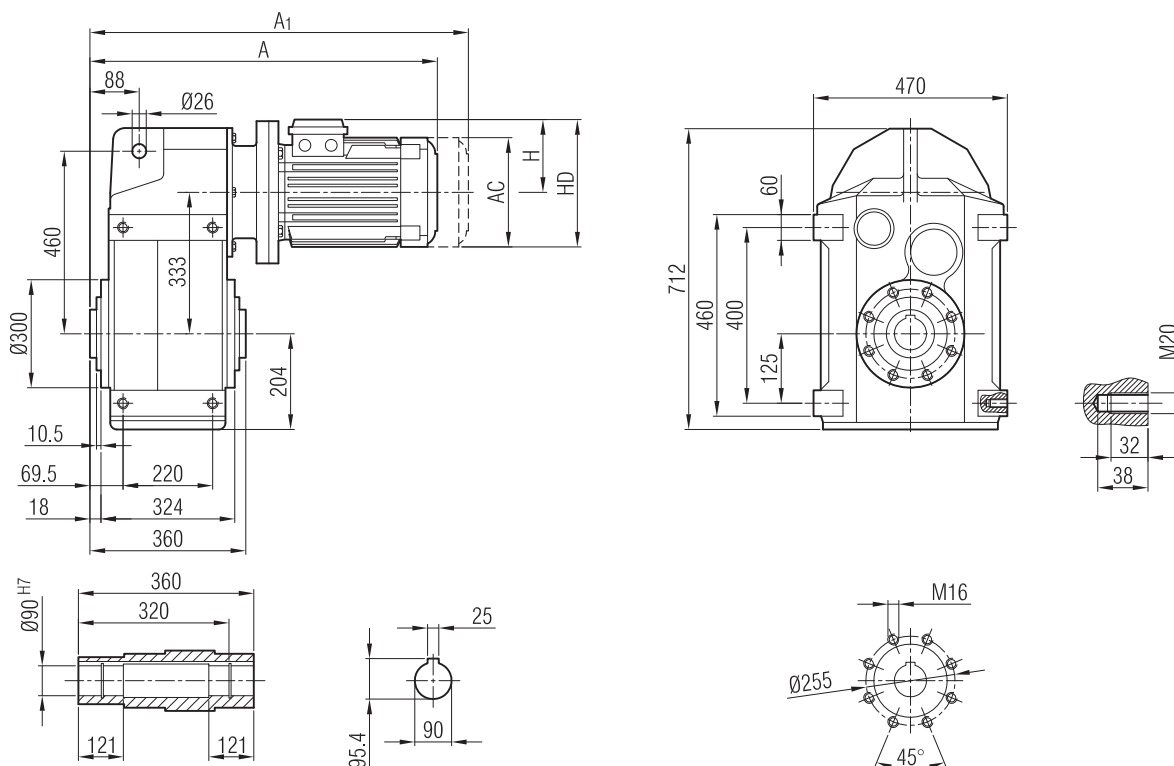




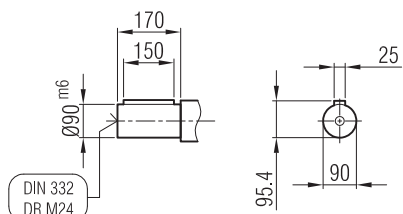
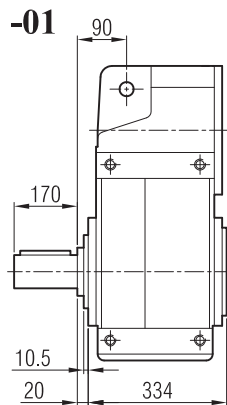


## YPPM 122

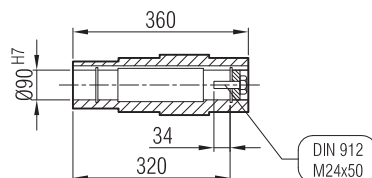
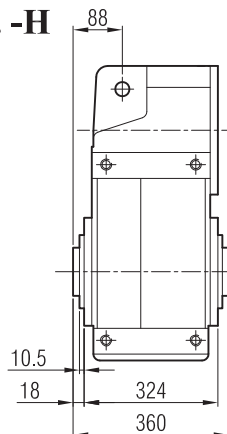
## YPPM 123



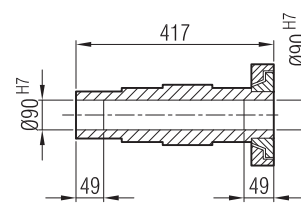
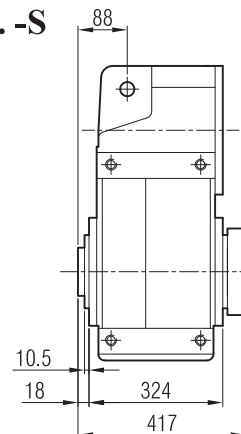
### ... -01



### ... -H



### ... -S



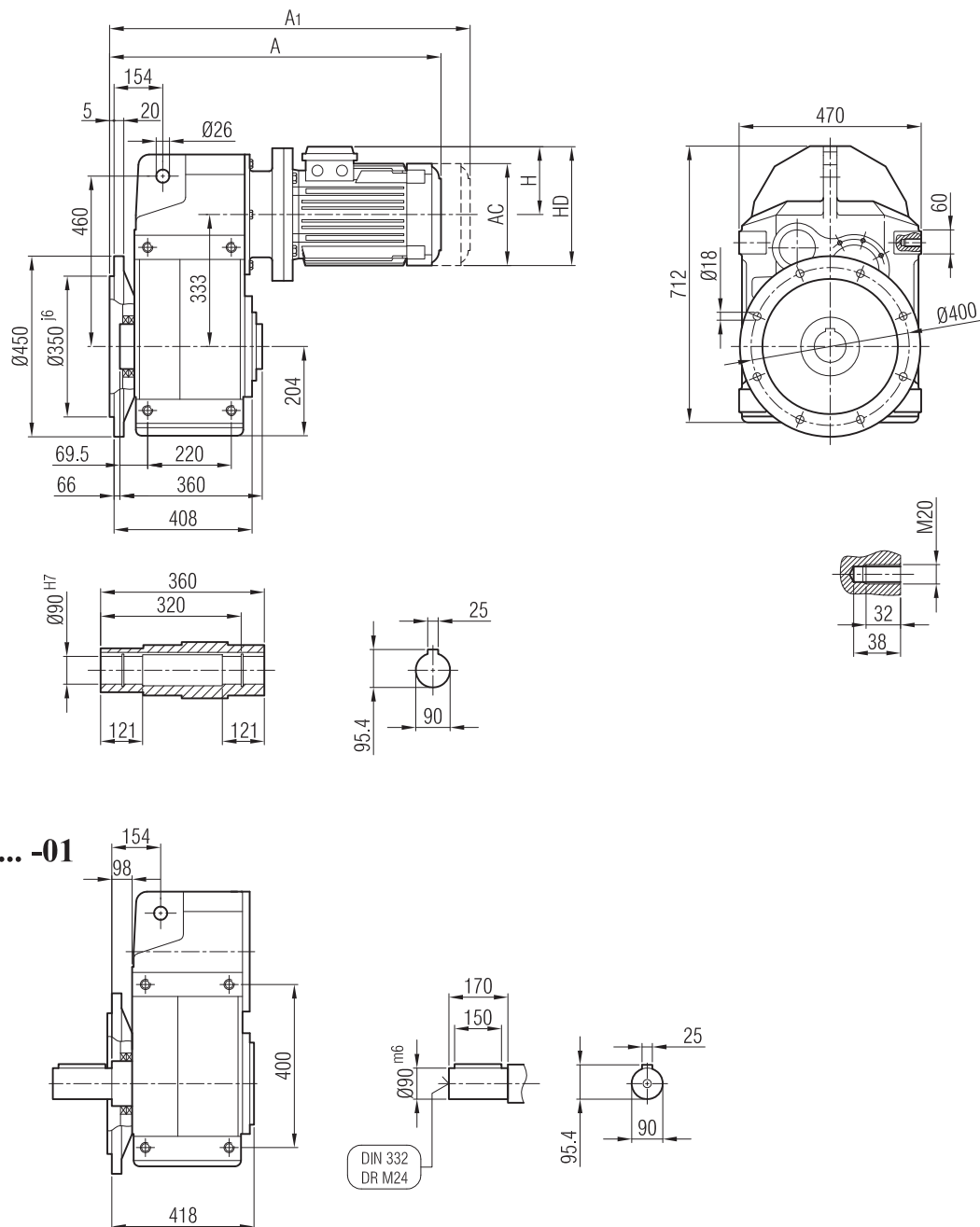
|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112 / B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 |
|----------------|-------|-------|-------|-------|---------|---------|--------|----------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| A              |       |       |       |       |         |         | 694    | 714      | 785      | 823      | 902      | 902      | 959      | 959      | 1117   | 1142     | 1167     |
| A <sub>1</sub> |       |       |       |       |         |         | 796    | 839      | 927      | 965      | 1092     | 1092     | 1154     | 1154     | -      | -        | -        |
| H              |       |       |       |       |         |         | 141    | 149      | 182      | 182      | 225      | 225      | 248      | 248      | 275    | 285      | 285      |
| HD             |       |       |       |       |         |         | 241    | 261      | 314      | 314      | 385      | 385      | 428      | 428      | 425    | 510      | 510      |
| AC             |       |       |       |       |         |         | 217    | 232      | 279      | 279      | 325      | 325      | 370      | 370      | 415    | 456      | 456      |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse





**YPFPM 122**  
**YPFPM 123**



|                | 56/B5 | 63/B5 | 71/B5 | 80/B5 | 90 S/B5 | 90 L/B5 | 100/B5 | 112/ B5 | 132 S/B5 | 132 M/B5 | 160 M/B5 | 160 L/B5 | 180 M/B5 | 180 L/B5 | 200/B5 | 225 S/B5 | 225 M/B5 |
|----------------|-------|-------|-------|-------|---------|---------|--------|---------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| A              |       |       |       |       |         |         | 765    | 785     | 856      | 894      | 973      | 973      | 1030     | 1030     | 1188   | 1213     | 1238     |
| A <sub>1</sub> |       |       |       |       |         |         | 867    | 910     | 998      | 1036     | 1163     | 1163     | 1225     | 1225     | -      | -        | -        |
| H              |       |       |       |       |         |         | 141    | 149     | 182      | 182      | 225      | 225      | 248      | 248      | 275    | 285      | 285      |
| HD             |       |       |       |       |         |         | 241    | 261     | 314      | 314      | 385      | 385      | 428      | 428      | 425    | 510      | 510      |
| AC             |       |       |       |       |         |         | 217    | 232     | 279      | 279      | 325      | 325      | 370      | 370      | 415    | 456      | 456      |

"A<sub>1</sub>" Ölçüsü Frenli Motorlar içindir.  
Dimension "A<sub>1</sub>" is for motors with brake  
Maß "A<sub>1</sub>" ist für Motoren mit Bremse





**YP ...**



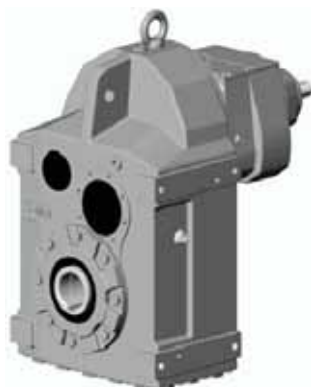
**YPF ...**



**YP ... - 01**



**YPF ... - 01**



**YP ... - ...**



**YPF ... - ...**



**YP ... - ... - 01**



**YPF ... - ... - 01**


 $n_1 = 1400$ 

 d/d  
r.p.m

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | $S_f = 1$<br>$S_f = 1$<br>$S_f = 1$ | $P_1$    | $n_2$                       | $i$         | $M_2$                        | $F_{Q1}$   | $F_{Q10}$  | Tip<br>Type<br>Typ |  |  | kg |
|----------------------------------------------------|-------------------------------------|----------|-----------------------------|-------------|------------------------------|------------|------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|                                                    |                                     | GÜÇ      | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük   | Rad. Yük   |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | Power    | Output Speeds               | Ratio       | Output Torque                | Over Loads | Over Loads |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | Leistung | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte | Querkräfte |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | [kW]     | [r.p.m]                     |             | [Nm]                         | [N]        | [N]        |                    |                                                                                     |                                                                                     |    |
| 200 Nm                                             |                                     | 0,004    | 0,19                        | 7251        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,005    | 0,22                        | 6352        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,006    | 0,24                        | 5772        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,006    | 0,27                        | 5097        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,007    | 0,31                        | 4530        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,008    | 0,35                        | 4048        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,009    | 0,39                        | 3631        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,010    | 0,43                        | 3269        | 200                          | 390        | 4500       | YP                 | 53 İR 43                                                                            | 447                                                                                 | 28 |
|                                                    |                                     | 0,011    | 0,47                        | 2950        | 200                          | 390        | 4500       | YPF                |                                                                                     | 448                                                                                 | 29 |
|                                                    |                                     | 0,012    | 0,52                        | 2668        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,013    | 0,58                        | 2403        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,015    | 0,66                        | 2136        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,017    | 0,73                        | 1908        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,019    | 0,82                        | 1712        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,021    | 0,91                        | 1541        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,023    | 1,01                        | 1391        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,023    | 1,0                         | 1360        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,027    | 1,2                         | 1191        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,030    | 1,3                         | 1052        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,034    | 1,5                         | 934         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,038    | 1,7                         | 835         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,042    | 1,9                         | 749         | 200                          | 390        | 4500       | YP                 | 52 İR 43                                                                            | 447                                                                                 | 28 |
|                                                    |                                     | 0,047    | 2,1                         | 675         | 200                          | 390        | 4500       | YPF                |                                                                                     | 448                                                                                 | 29 |
|                                                    |                                     | 0,052    | 2,3                         | 609         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,057    | 2,5                         | 551         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,060    | 2,7                         | 523         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,068    | 3,0                         | 463         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,080    | 3,6                         | 394         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,099    | 4,4                         | 318         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,024    | 1,0                         | 1339        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,027    | 1,2                         | 1173        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,030    | 1,3                         | 1066        | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,034    | 1,5                         | 941         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,038    | 1,7                         | 836         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,042    | 1,9                         | 747         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,048    | 2,1                         | 654         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,054    | 2,4                         | 587         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,061    | 2,7                         | 517         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,075    | 3,3                         | 420         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,083    | 3,7                         | 380         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,090    | 4,0                         | 352         | 200                          | 390        | 4500       | YP                 | 53 İR 42                                                                            | 447                                                                                 | 27 |
|                                                    |                                     | 0,100    | 4,4                         | 316         | 200                          | 390        | 4500       | YPF                |                                                                                     | 448                                                                                 | 28 |
|                                                    |                                     | 0,111    | 4,9                         | 284         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,123    | 5,4                         | 257         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,127    | 5,6                         | 249         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,141    | 6,2                         | 225         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,160    | 7,1                         | 198         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,185    | 8,2                         | 171         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,205    | 9,1                         | 154         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,231    | 10                          | 137         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,257    | 11                          | 123         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,287    | 13                          | 110         | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                     | 0,323    | 14                          | 98          | 200                          | 390        | 4500       |                    |                                                                                     |                                                                                     |    |


**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | i           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg       |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |          |
| <b>200 Nm</b>                                      |                                                             | 0,12           | 5,6                         | 251         | 200                          | 390             | 4500             | YP<br>YPF          | <b>52 İR 42</b>                                                                     | 447<br>448                                                                          | 27<br>28 |
|                                                    |                                                             | 0,14           | 6,4                         | 220         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,16           | 7,2                         | 194         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,18           | 8,1                         | 173         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,20           | 9,1                         | 154         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,23           | 10                          | 138         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,25           | 11                          | 125         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,28           | 13                          | 112         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,31           | 14                          | 102         | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,32           | 14                          | 97          | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,37           | 16                          | 85          | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,22           | 10                          | 137,307     | 200                          | 390             | 4500             | YP<br>YPF          | <b>53</b>                                                                           | 433<br>434                                                                          | 18<br>20 |
|                                                    |                                                             | 0,26           | 12                          | 119,073     | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,29           | 13                          | 104,313     | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,32           | 15                          | 94,784      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,37           | 17                          | 83,705      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,41           | 19                          | 74,398      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,46           | 21                          | 66,470      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,51           | 23                          | 59,635      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,57           | 26                          | 53,682      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,63           | 29                          | 48,451      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,70           | 32                          | 43,813      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,78           | 35                          | 39,456      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,87           | 40                          | 35,069      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,98           | 45                          | 31,332      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,1            | 50                          | 28,110      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,2            | 55                          | 25,304      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,3            | 61                          | 22,838      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,2            | 54                          | 25,745      | 200                          | 390             | 4500             | YP<br>YPF          | <b>52</b>                                                                           | 433<br>434                                                                          | 16<br>18 |
|                                                    |                                                             | 1,4            | 63                          | 22,326      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,5            | 72                          | 19,558      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,7            | 81                          | 17,272      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,0            | 91                          | 15,352      | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,2            | 102                         | 13,716      | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,5            | 114                         | 12,305      | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,7            | 126                         | 11,077      | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,0            | 140                         | 9,997       | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,3            | 155                         | 9,041       | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,5            | 163                         | 8,590       | 200                          | 390             | 4000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 4,0            | 184                         | 7,602       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 4,2            | 193                         | 7,236       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 4,7            | 217                         | 6,465       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 5,2            | 241                         | 5,800       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 5,8            | 268                         | 5,221       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 6,4            | 297                         | 4,712       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 7,1            | 328                         | 4,262       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 7,5            | 346                         | 4,049       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 8,4            | 391                         | 3,583       | 200                          | 390             | 3500             |                    |                                                                                     |                                                                                     |          |
| <b>400 Nm</b>                                      |                                                             | 0,006          | 0,12                        | 11636       | 400                          | 390             | 7000             | YP<br>YPF          | <b>63 İR 43</b>                                                                     | 449<br>450                                                                          | 39<br>41 |
|                                                    |                                                             | 0,006          | 0,13                        | 11047       | 400                          | 390             | 7000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,007          | 0,15                        | 9603        | 400                          | 390             | 7000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,008          | 0,18                        | 7948        | 400                          | 390             | 7000             |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,009          | 0,19                        | 7409        | 400                          | 390             | 7000             |                    |                                                                                     |                                                                                     |          |


**n<sub>1</sub> = 1400**
**d/d**  
**r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ         |  |  | kg |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                            |                                                                                     |                                                                                     |    |
| <b>400 Nm</b>                                      |                                                             | 0,010             | 0,22                                         | 6489                 | 400                                           | 390                      | 7000                     | <b>YP<br/>YPF 63 İR 43</b> |  |  |    |
|                                                    |                                                             | 0,011             | 0,25                                         | 5626                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,013             | 0,29                                         | 4838                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,015             | 0,32                                         | 4400                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,017             | 0,36                                         | 3876                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,020             | 0,43                                         | 3237                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,021             | 0,46                                         | 3060                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,024             | 0,51                                         | 2729                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,026             | 0,57                                         | 2473                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,032             | 0,70                                         | 1996                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,02              | 0,55                                         | 2566                 | 400                                           | 390                      | 7000                     | <b>YP<br/>YPF 62 İR 43</b> |  |  |    |
|                                                    |                                                             | 0,03              | 0,63                                         | 2209                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,03              | 0,73                                         | 1920                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,04              | 0,83                                         | 1682                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,04              | 0,93                                         | 1509                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,04              | 1,0                                          | 1407                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,05              | 1,1                                          | 1220                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,06              | 1,3                                          | 1105                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,06              | 1,4                                          | 1005                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,07              | 1,6                                          | 893                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,08              | 1,7                                          | 809                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,09              | 2,0                                          | 707                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,10              | 2,3                                          | 619                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,12              | 2,6                                          | 538                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,13              | 2,9                                          | 491                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,15              | 3,2                                          | 433                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,17              | 3,7                                          | 382                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,19              | 4,1                                          | 338                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,21              | 4,7                                          | 300                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,24              | 5,2                                          | 267                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,03              | 0,75                                         | 1867                 | 400                                           | 390                      | 7000                     | <b>YP<br/>YPF 63 İR 42</b> |  |  |    |
|                                                    |                                                             | 0,04              | 0,79                                         | 1773                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,04              | 0,95                                         | 1467                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,05              | 1,02                                         | 1368                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,05              | 1,2                                          | 1198                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,06              | 1,3                                          | 1055                 | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,07              | 1,5                                          | 915                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,08              | 1,8                                          | 787                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,09              | 2,0                                          | 715                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,11              | 2,3                                          | 598                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,11              | 2,5                                          | 552                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,14              | 3,1                                          | 457                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,17              | 3,8                                          | 366                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,19              | 4,2                                          | 333                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,23              | 5,0                                          | 278                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,27              | 6,0                                          | 234                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,30              | 6,7                                          | 210                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,34              | 7,5                                          | 186                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,37              | 8,3                                          | 169                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,42              | 9,3                                          | 150                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,48              | 11                                           | 133                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,54              | 12                                           | 118                  | 400                                           | 390                      | 7000                     |                            |                                                                                     |                                                                                     |    |


**n<sub>1</sub> = 1400**
**d/d**  
**r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ |  |  | kg       |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |          |
| <b>400 Nm</b>                                      |                                                             | 0,18              | 3,9                                          | 355                  | 400                                           | 390                      | 7000                     | YP<br>YPF          | 62 İR 42                                                                            | 449<br>450                                                                          | 35<br>37 |
|                                                    |                                                             | 0,22              | 5,0                                          | 279                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,24              | 5,4                                          | 260                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,28              | 6,2                                          | 225                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,31              | 6,9                                          | 204                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,35              | 7,8                                          | 179                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,38              | 8,6                                          | 162                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,43              | 9,7                                          | 144                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,48              | 11                                           | 131                  | 400                                           | 390                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,32              | 7,4                                          | 190,171              | 400                                           | 475                      | 7000                     | YP<br>YPF          | 63                                                                                  | 435<br>436                                                                          | 32<br>34 |
|                                                    |                                                             | 0,35              | 7,9                                          | 177,468              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,37              | 8,4                                          | 166,102              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,39              | 8,9                                          | 157,692              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,47              | 11                                           | 130,521              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,50              | 12                                           | 121,671              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,58              | 13                                           | 105,483              | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,68              | 15                                           | 90,716               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,74              | 17                                           | 82,506               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,89              | 20                                           | 68,901               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,94              | 21                                           | 65,138               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,96              | 22                                           | 63,659               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,1               | 24                                           | 58,086               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,2               | 27                                           | 52,643               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,3               | 29                                           | 47,687               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,4               | 32                                           | 43,372               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,7               | 39                                           | 36,220               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,0               | 46                                           | 30,535               | 400                                           | 475                      | 7000                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 1,9               | 44                                           | 31,538               | 400                                           | 475                      | 6350                     | YP<br>YPF          | 62                                                                                  | 435<br>436                                                                          | 29<br>31 |
|                                                    |                                                             | 2,4               | 56                                           | 24,782               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 2,6               | 61                                           | 23,102               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,0               | 70                                           | 20,028               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,3               | 77                                           | 18,153               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 3,7               | 85                                           | 16,501               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 4,1               | 95                                           | 14,671               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 4,5               | 105                                          | 13,290               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 5,0               | 116                                          | 12,087               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 5,2               | 121                                          | 11,617               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 6,0               | 139                                          | 10,094               | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 6,6               | 152                                          | 9,207                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 7,1               | 165                                          | 8,509                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 7,4               | 172                                          | 8,128                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 8,4               | 194                                          | 7,198                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 9,5               | 219                                          | 6,388                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 10,7              | 247                                          | 5,667                | 400                                           | 475                      | 6350                     |                    |                                                                                     |                                                                                     |          |
| <b>800 Nm</b>                                      |                                                             | 0,01              | 0,07                                         | 19587                | 800                                           | 475                      | 13500                    | YP<br>YPF          | 73 İR 53                                                                            | 451<br>452                                                                          | 66<br>70 |
|                                                    |                                                             | 0,01              | 0,08                                         | 16495                | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,01              | 0,10                                         | 14304                | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,01              | 0,11                                         | 12691                | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,01              | 0,12                                         | 11240                | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,01              | 0,14                                         | 9972                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,01              | 0,16                                         | 8621                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,02              | 0,20                                         | 6967                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,02              | 0,24                                         | 5921                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |




**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ |  |  | kg       |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |          |
| <b>800 Nm</b>                                      |                                                             | 0,02              | 0,26                                         | 5364                 | 800                                           | 475                      | 13500                    | YP<br>YPF          | 73 İR 53                                                                            | 451<br>452                                                                          | 66<br>70 |
|                                                    |                                                             | 0,03              | 0,28                                         | 4914                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,03              | 0,35                                         | 3972                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,04              | 0,41                                         | 3375                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,04              | 0,46                                         | 3058                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,05              | 0,50                                         | 2781                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,06              | 0,60                                         | 2322                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,06              | 0,64                                         | 2178                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,06              | 0,71                                         | 1981                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,08              | 0,85                                         | 1654                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,04              | 0,40                                         | 3481                 | 800                                           | 475                      | 13500                    | YP<br>YPF          | 72 İR 53                                                                            | 451<br>452                                                                          | 63<br>67 |
|                                                    |                                                             | 0,04              | 0,47                                         | 2958                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,05              | 0,54                                         | 2609                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,05              | 0,60                                         | 2320                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,06              | 0,65                                         | 2160                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,07              | 0,73                                         | 1905                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,07              | 0,83                                         | 1694                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,08              | 0,91                                         | 1534                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,09              | 1,0                                          | 1355                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,11              | 1,2                                          | 1204                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,12              | 1,3                                          | 1076                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,13              | 1,5                                          | 965                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,14              | 1,6                                          | 875                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,16              | 1,8                                          | 772                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,18              | 2,0                                          | 686                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,21              | 2,3                                          | 613                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,23              | 2,5                                          | 550                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,26              | 2,8                                          | 495                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,28              | 3,1                                          | 447                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,31              | 3,5                                          | 404                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,05              | 0,56                                         | 2503                 | 800                                           | 475                      | 13500                    | YP<br>YPF          | 73 İR 52                                                                            | 451<br>452                                                                          | 65<br>69 |
|                                                    |                                                             | 0,06              | 0,63                                         | 2220                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,07              | 0,73                                         | 1919                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,08              | 0,90                                         | 1551                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,10              | 1,1                                          | 1318                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,11              | 1,2                                          | 1194                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,12              | 1,3                                          | 1086                 | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,14              | 1,5                                          | 907                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,15              | 1,7                                          | 840                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,18              | 2,0                                          | 702                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,19              | 2,1                                          | 665                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,21              | 2,4                                          | 591                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,22              | 2,5                                          | 565                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,25              | 2,8                                          | 500                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,28              | 3,2                                          | 444                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,32              | 3,5                                          | 395                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,35              | 3,9                                          | 357                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,40              | 4,4                                          | 316                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,45              | 5,0                                          | 281                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,47              | 5,2                                          | 270                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,53              | 5,8                                          | 240                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,59              | 6,6                                          | 213                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,65              | 7,2                                          | 194                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |
|                                                    |                                                             | 0,74              | 8,1                                          | 172                  | 800                                           | 475                      | 13500                    |                    |                                                                                     |                                                                                     |          |






**n<sub>1</sub> = 1400**
**d/d**  
**r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | i           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |    |
| <b>800 Nm</b>                                      |                                                             | 0,22           | 2,5                         | 566         | 800                          | 475             | 13500            | YP<br>YPF          | 72 İR 52                                                                            |                                                                                     |    |
|                                                    |                                                             | 0,30           | 3,3                         | 421         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,38           | 4,3                         | 328         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,43           | 4,8                         | 292         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,47           | 5,3                         | 264         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,53           | 6,0                         | 233         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,60           | 6,8                         | 207         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,67           | 7,6                         | 185         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,75           | 8,4                         | 166         | 800                          | 475             | 13500            | YP<br>YPF          | 73                                                                                  |                                                                                     |    |
|                                                    |                                                             | 0,83           | 9,3                         | 150         | 800                          | 475             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,58           | 6,6                         | 212,231     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,62           | 7,1                         | 198,053     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,66           | 7,6                         | 185,369     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,75           | 8,5                         | 164,458     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,84           | 9,6                         | 145,661     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,95           | 11                          | 129,229     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 1,1            | 13                          | 111,720     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 1,4            | 16                          | 90,289      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 1,6            | 18                          | 76,731      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 1,8            | 20                          | 69,508      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 1,9            | 22                          | 63,217      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 2,3            | 27                          | 52,793      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 2,5            | 28                          | 50,025      | 800                          | 590             | 12500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 2,8            | 31                          | 44,507      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 2,9            | 33                          | 42,513      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 3,3            | 37                          | 37,650      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 3,7            | 42                          | 33,415      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 4,1            | 47                          | 29,693      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 3,7            | 42                          | 32,943      | 800                          | 590             | 12000            | YP<br>YPF          | 72                                                                                  |                                                                                     |    |
|                                                    |                                                             | 4,3            | 50                          | 27,996      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 4,9            | 57                          | 24,688      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 5,5            | 64                          | 21,956      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 6,1            | 70                          | 19,886      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 6,9            | 80                          | 17,561      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 7,7            | 90                          | 15,609      | 800                          | 590             | 12000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 8,7            | 100                         | 13,945      | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 9,7            | 112                         | 12,511      | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 10,7           | 124                         | 11,263      | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 11,9           | 138                         | 10,165      | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 13,1           | 152                         | 9,193       | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 14,5           | 168                         | 8,326       | 800                          | 590             | 11000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 15,4           | 179                         | 7,831       | 800                          | 590             | 10500            | YP<br>YPF          | 83 İR 53                                                                            |                                                                                     |    |
|                                                    |                                                             | 16,0           | 185                         | 7,548       | 800                          | 590             | 10500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 17,3           | 200                         | 6,996       | 800                          | 590             | 10500            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 19,3           | 223                         | 6,277       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 21,4           | 248                         | 5,650       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 23,7           | 275                         | 5,100       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 26,2           | 304                         | 4,612       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 28,9           | 335                         | 4,177       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 31,9           | 370                         | 3,787       | 800                          | 590             | 10000            |                    |                                                                                     |                                                                                     |    |
| <b>1500 Nm</b>                                     |                                                             | 0,01           | 0,07                        | 21318       | 1500                         | 550             | 17250            | YP<br>YPF          | 83 İR 53                                                                            |                                                                                     |    |
|                                                    |                                                             | 0,01           | 0,08                        | 18430       | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |    |
|                                                    |                                                             | 0,02           | 0,09                        | 15520       | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |    |




**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ |  |  | kg        |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |           |
| <b>1500 Nm</b>                                     |                                                             | 0,02              | 0,10                                         | 13459                | 1500                                          | 550                      | 17250                    | YP<br>YPF          | <b>83 İR 53</b>                                                                     | 453<br>454                                                                          | 95<br>101 |
|                                                    |                                                             | 0,02              | 0,12                                         | 11791                | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,02              | 0,13                                         | 10554                | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,03              | 0,15                                         | 9308                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,03              | 0,17                                         | 8437                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,03              | 0,19                                         | 7547                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,04              | 0,21                                         | 6712                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,04              | 0,23                                         | 6010                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,04              | 0,26                                         | 5420                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,05              | 0,29                                         | 4786                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,06              | 0,32                                         | 4349                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,06              | 0,35                                         | 3944                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,07              | 0,42                                         | 3302                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,08              | 0,48                                         | 2944                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,09              | 0,53                                         | 2643                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,10              | 0,59                                         | 2387                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,11              | 0,66                                         | 2121                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,09              | 0,51                                         | 2730                 | 1500                                          | 550                      | 17250                    | YP<br>YPF          | <b>82 İR 53</b>                                                                     | 453<br>454                                                                          | 92<br>98  |
|                                                    |                                                             | 0,10              | 0,61                                         | 2299                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,12              | 0,68                                         | 2050                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,13              | 0,79                                         | 1778                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,15              | 0,90                                         | 1558                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,19              | 1,11                                         | 1263                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,21              | 1,3                                          | 1115                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,23              | 1,4                                          | 1013                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,26              | 1,5                                          | 918                  | 1500                                          | 550                      | 17250                    | YP<br>YPF          | <b>83 İR 52</b>                                                                     | 453<br>454                                                                          | 94<br>100 |
|                                                    |                                                             | 0,29              | 1,7                                          | 822                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,13              | 0,74                                         | 1884                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,14              | 0,82                                         | 1699                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,15              | 0,91                                         | 1540                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,18              | 1,1                                          | 1290                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,21              | 1,2                                          | 1130                 | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,24              | 1,4                                          | 998                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,27              | 1,6                                          | 890                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,30              | 1,8                                          | 799                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,33              | 1,9                                          | 721                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,37              | 2,2                                          | 641                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,42              | 2,5                                          | 566                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,53              | 3,1                                          | 449                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,59              | 3,5                                          | 403                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,66              | 3,9                                          | 358                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,74              | 4,4                                          | 320                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,83              | 4,9                                          | 287                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,88              | 5,2                                          | 270                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,98              | 5,8                                          | 242                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 1,21              | 7,1                                          | 196                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 1,34              | 7,9                                          | 177                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 1,49              | 8,8                                          | 159                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,53              | 3,2                                          | 444                  | 1500                                          | 550                      | 17250                    | YP<br>YPF          | <b>82 İR 52</b>                                                                     | 453<br>454                                                                          | 91<br>97  |
|                                                    |                                                             | 0,60              | 3,6                                          | 389                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,68              | 4,1                                          | 343                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,76              | 4,6                                          | 306                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |
|                                                    |                                                             | 0,85              | 5,1                                          | 275                  | 1500                                          | 550                      | 17250                    |                    |                                                                                     |                                                                                     |           |


**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>r</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | İ           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg  |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |     |
| <b>1500 Nm</b>                                     |                                                             | 0,94           | 5,6                         | 248         | 1500                         | 550             | 17250            | YP                 | <b>82 İR 52</b>                                                                     | 453                                                                                 | 91  |
|                                                    |                                                             | 1,18           | 7,1                         | 198         | 1500                         | 550             | 17250            | YPF                |                                                                                     | 454                                                                                 | 97  |
|                                                    |                                                             | 0,95           | 5,8                         | 242,298     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,1            | 6,7                         | 209,469     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,1            | 6,9                         | 201,750     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,3            | 8,0                         | 174,415     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,5            | 9,0                         | 156,126     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,5            | 9,1                         | 153,809     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,7            | 10                          | 137,681     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,9            | 11                          | 122,443     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,1            | 13                          | 109,644     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,3            | 14                          | 98,855      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,6            | 16                          | 89,024      | 1500                         | 550             | 17250            | YP                 | <b>83</b>                                                                           | 439                                                                                 | 83  |
|                                                    |                                                             | 3,1            | 19                          | 75,066      | 1500                         | 550             | 17250            | YPF                |                                                                                     | 440                                                                                 | 89  |
|                                                    |                                                             | 3,4            | 21                          | 66,926      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,8            | 23                          | 60,088      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,2            | 26                          | 54,263      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,8            | 29                          | 48,219      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 5,4            | 33                          | 42,582      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,8            | 41                          | 33,814      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 7,6            | 46                          | 30,337      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 8,4            | 51                          | 27,309      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 9,3            | 57                          | 24,648      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 10,3           | 63                          | 22,291      | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 8,8            | 54                          | 25,842      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 9,8            | 61                          | 23,040      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 11,0           | 68                          | 20,686      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 12,1           | 75                          | 18,680      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 13,7           | 84                          | 16,600      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 15,2           | 94                          | 14,897      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 16,9           | 104                         | 13,429      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 18,7           | 115                         | 12,151      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 19,6           | 121                         | 11,571      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 20,6           | 127                         | 11,027      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 21,7           | 134                         | 10,449      | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 22,6           | 140                         | 10,032      | 1500                         | 550             | 14500            | YP                 | <b>82</b>                                                                           | 439                                                                                 | 80  |
|                                                    |                                                             | 24,4           | 151                         | 9,285       | 1500                         | 550             | 14500            | YPF                |                                                                                     | 440                                                                                 | 86  |
|                                                    |                                                             | 27,2           | 168                         | 8,333       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 30,2           | 186                         | 7,512       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 33,3           | 206                         | 6,797       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 36,7           | 227                         | 6,168       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 43,9           | 271                         | 5,162       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 44,3           | 274                         | 5,115       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 48,5           | 300                         | 4,670       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 53,1           | 328                         | 4,268       | 1500                         | 550             | 14500            |                    |                                                                                     |                                                                                     |     |
| <b>3000 Nm</b>                                     |                                                             | 0,02           | 0,06                        | 22924       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,02           | 0,07                        | 20793       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,03           | 0,08                        | 18471       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,03           | 0,09                        | 16468       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,03           | 0,10                        | 13798       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,04           | 0,11                        | 12460       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,04           | 0,13                        | 11072       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,05           | 0,14                        | 10315       | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             |                |                             |             |                              |                 |                  | YP                 | <b>93 İR 63</b>                                                                     | 455                                                                                 | 137 |
|                                                    |                                                             |                |                             |             |                              |                 |                  | YPF                |                                                                                     | 456                                                                                 | 140 |


**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ |  |  | kg         |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |            |
| <b>3000 Nm</b>                                     |                                                             | 0,05              | 0,15                                         | 9197                 | 3000                                          | 980                      | 25000                    | YP<br>YPF          | <b>93 İR 63</b>                                                                     | 455<br>456                                                                          | 137<br>140 |
|                                                    |                                                             | 0,06              | 0,17                                         | 8257                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,06              | 0,19                                         | 7457                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,08              | 0,22                                         | 6372                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,08              | 0,24                                         | 5744                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,09              | 0,27                                         | 5198                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,10              | 0,30                                         | 4717                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,11              | 0,32                                         | 4402                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,12              | 0,35                                         | 4005                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,13              | 0,38                                         | 3650                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,13              | 0,39                                         | 3571                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,14              | 0,42                                         | 3333                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,12              | 0,34                                         | 4089                 | 3000                                          | 980                      | 25000                    | YP<br>YPF          | <b>92 İR 63</b>                                                                     | 455<br>456                                                                          | 134<br>137 |
|                                                    |                                                             | 0,13              | 0,38                                         | 3690                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,14              | 0,42                                         | 3350                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,17              | 0,50                                         | 2802                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,17              | 0,51                                         | 2731                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,19              | 0,55                                         | 2548                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,21              | 0,62                                         | 2246                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,24              | 0,70                                         | 1996                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,27              | 0,78                                         | 1789                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,30              | 0,87                                         | 1607                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,33              | 0,96                                         | 1453                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,36              | 1,1                                          | 1319                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,40              | 1,2                                          | 1200                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,43              | 1,3                                          | 1096                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,55              | 1,6                                          | 863                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,61              | 1,8                                          | 772                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,68              | 2,0                                          | 695                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,76              | 2,2                                          | 628                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,83              | 2,5                                          | 570                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,91              | 2,7                                          | 519                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,01              | 3,0                                          | 470                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,11              | 3,3                                          | 429                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,21              | 3,6                                          | 393                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,32              | 3,9                                          | 360                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,44              | 4,2                                          | 330                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,58              | 4,7                                          | 300                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,73              | 5,1                                          | 274                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,89              | 5,6                                          | 251                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 2,06              | 6,1                                          | 230                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,12              | 0,36                                         | 3852                 | 3000                                          | 980                      | 25000                    | YP<br>YPF          | <b>93 İR 62</b>                                                                     | 455<br>456                                                                          | 132<br>135 |
|                                                    |                                                             | 0,14              | 0,41                                         | 3400                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,17              | 0,49                                         | 2870                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,18              | 0,52                                         | 2678                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,22              | 0,64                                         | 2190                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,24              | 0,72                                         | 1945                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,27              | 0,81                                         | 1734                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,30              | 0,9                                          | 1557                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,38              | 1,1                                          | 1249                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,41              | 1,2                                          | 1164                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,46              | 1,3                                          | 1038                 | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,51              | 1,5                                          | 932                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |




 $n_1 = 1400$ 

 d/d  
r.p.m

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | $S_f = 1$<br>$S_f = 1$<br>$S_f = 1$ | $P_1$             | $n_2$                                        | $i$                  | $M_2$                                         | $F_{Q1}$                 | $F_{Q10}$                | Tip<br>Type<br>Typ |  |  | kg         |
|----------------------------------------------------|-------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                                                    |                                     | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |            |
| <b>3000 Nm</b>                                     |                                     | 0,56              | 1,7                                          | 842                  | 3000                                          | 980                      | 25000                    | YP<br>YPF          | 93 İR 62                                                                            | 455<br>456                                                                          | 132<br>135 |
|                                                    |                                     | 0,63              | 1,9                                          | 748                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 0,71              | 2,1                                          | 671                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 0,79              | 2,3                                          | 604                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 0,87              | 2,6                                          | 547                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 0,95              | 2,8                                          | 497                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,05              | 3,1                                          | 452                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,15              | 3,4                                          | 412                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,20              | 3,6                                          | 394                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,26              | 3,7                                          | 376                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,34              | 4,0                                          | 354                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,49              | 4,4                                          | 319                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,64              | 4,8                                          | 289                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,81              | 5,3                                          | 262                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,99              | 5,9                                          | 238                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,19              | 6,5                                          | 217                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,40              | 7,1                                          | 198                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,1               | 3,2                                          | 431                  | 3000                                          | 980                      | 25000                    | YP<br>YPF          | 92 İR 62                                                                            | 455<br>456                                                                          | 129<br>132 |
|                                                    |                                     | 1,2               | 3,6                                          | 389                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,3               | 4,0                                          | 353                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,6               | 4,7                                          | 295                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,6               | 4,9                                          | 288                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,8               | 5,5                                          | 253                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,1               | 6,2                                          | 225                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,3               | 6,9                                          | 202                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,6               | 7,7                                          | 181                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,8               | 8,5                                          | 164                  | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 1,6               | 4,9                                          | 285,833              | 3000                                          | 980                      | 25000                    | YP<br>YPF          | 93                                                                                  | 441<br>442                                                                          | 115<br>118 |
|                                                    |                                     | 1,8               | 5,5                                          | 252,350              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,0               | 5,9                                          | 235,385              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,1               | 6,3                                          | 222,000              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,2               | 6,6                                          | 213,043              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,3               | 7,0                                          | 198,721              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,6               | 7,8                                          | 179,167              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 2,8               | 8,6                                          | 162,509              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 3,2               | 9,7                                          | 144,365              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 3,6               | 11                                           | 128,710              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 4,0               | 12                                           | 115,560              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 4,4               | 13                                           | 104,358              | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 5,0               | 15                                           | 92,730               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 5,3               | 16                                           | 86,391               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 6,0               | 18                                           | 77,023               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 6,7               | 20                                           | 69,154               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 7,4               | 22                                           | 62,450               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 8,3               | 25                                           | 55,494               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 9,2               | 28                                           | 49,802               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 10,3              | 31                                           | 44,895               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 11,3              | 34                                           | 40,622               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 12,5              | 38                                           | 36,866               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 13,7              | 42                                           | 33,540               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 15,1              | 46                                           | 30,573               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |
|                                                    |                                     | 16,5              | 50                                           | 27,911               | 3000                                          | 980                      | 25000                    |                    |                                                                                     |                                                                                     |            |






**n<sub>1</sub> = 1400**
**d/d**  
**r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | İ           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg  |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |     |
| <b>4300 Nm</b>                                     |                                                             | 0,19           | 0,38                        | 3640        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,20           | 0,41                        | 3395        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,23           | 0,47                        | 2983        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,26           | 0,53                        | 2649        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,28           | 0,57                        | 2436        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,31           | 0,65                        | 2163        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,35           | 0,72                        | 1938        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,39           | 0,80                        | 1749        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,43           | 0,88                        | 1588        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,50           | 1,0                         | 1347        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,56           | 1,2                         | 1206        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,67           | 1,4                         | 1009        | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,76           | 1,6                         | 889         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,86           | 1,8                         | 790         | 4300                         | 550             | 30000            | YP                 | 103 İR 62                                                                           | 457                                                                                 | 201 |
|                                                    |                                                             | 0,96           | 2,0                         | 707         | 4300                         | 550             | 30000            | YPF                |                                                                                     | 458                                                                                 | 221 |
|                                                    |                                                             | 1,1            | 2,2                         | 636         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,2            | 2,4                         | 575         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,3            | 2,6                         | 532         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,4            | 3,0                         | 469         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,6            | 3,4                         | 417         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,8            | 3,8                         | 373         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,0            | 4,2                         | 336         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,2            | 4,6                         | 303         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,7            | 5,6                         | 251         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,0            | 6,1                         | 229         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,3            | 6,8                         | 205         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,5            | 7,3                         | 193         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,9            | 8,1                         | 173         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,9            | 3,9                         | 355         | 4300                         | 550             | 30000            | YP                 | 102 İR 62                                                                           | 457                                                                                 | 196 |
|                                                    |                                                             | 2,0            | 4,3                         | 328         | 4300                         | 550             | 30000            | YPF                |                                                                                     | 458                                                                                 | 216 |
|                                                    |                                                             | 2,4            | 5,0                         | 280         | 4300                         | 550             | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,4            | 5,2                         | 270,11      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,6            | 5,6                         | 251,95      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,0            | 6,3                         | 221,36      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,4            | 7,1                         | 196,61      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,6            | 7,7                         | 180,74      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,1            | 8,7                         | 160,53      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,6            | 9,7                         | 143,83      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 5,1            | 11                          | 129,80      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 5,6            | 12                          | 117,85      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,6            | 14                          | 99,99       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 7,4            | 16                          | 89,47       | 4300                         | 2500            | 30000            | YP                 | 103                                                                                 | 443                                                                                 | 188 |
|                                                    |                                                             | 8,8            | 19                          | 74,88       | 4300                         | 2500            | 30000            | YPF                |                                                                                     | 444                                                                                 | 208 |
|                                                    |                                                             | 10,0           | 21                          | 65,99       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 11,2           | 24                          | 58,64       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 12,6           | 27                          | 52,47       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 14,0           | 30                          | 47,22       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 15,5           | 33                          | 42,69       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 18,7           | 40                          | 35,27       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 20,5           | 43                          | 32,20       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 22,9           | 49                          | 28,83       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 27,3           | 58                          | 24,18       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 32,3           | 69                          | 20,39       | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |






**n<sub>1</sub> = 1400**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | İ           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg         |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |            |
| <b>4300 Nm</b>                                     |                                                             | 24,6           | 53                          | 26,37       | 4300                         | 2500            | 29000            | YP<br>YPF          | 102                                                                                 | 443<br>444                                                                          | 183<br>203 |
|                                                    |                                                             | 26,7           | 58                          | 24,32       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 31,3           | 67                          | 20,77       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 35,2           | 76                          | 18,47       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 39,3           | 85                          | 16,54       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 43,6           | 94                          | 14,90       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 48,2           | 104                         | 13,48       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 53,1           | 114                         | 12,24       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 58,2           | 125                         | 11,16       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 63,7           | 137                         | 10,20       | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 69,7           | 150                         | 9,32        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 77,3           | 166                         | 8,41        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 85,5           | 184                         | 7,60        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 94,3           | 203                         | 6,89        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 104,1          | 224                         | 6,24        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 113,6          | 245                         | 5,72        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 125,4          | 270                         | 5,18        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 138,2          | 298                         | 4,70        | 4300                         | 2500            | 29000            |                    |                                                                                     |                                                                                     |            |
| <b>7800 Nm</b>                                     |                                                             | 0,05           | 0,05                        | 27038       | 7800                         | 1200            | 61000            | YP<br>YPF          | 123 İR 73                                                                           | 459<br>460                                                                          | 295<br>325 |
|                                                    |                                                             | 0,06           | 0,06                        | 22187       | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,06           | 0,07                        | 20263       | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,08           | 0,09                        | 16312       | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,08           | 0,10                        | 14732       | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,11           | 0,12                        | 11572       | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,13           | 0,14                        | 9695        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,14           | 0,16                        | 8644        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,16           | 0,18                        | 7633        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,18           | 0,21                        | 6784        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,21           | 0,23                        | 6061        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,23           | 0,26                        | 5438        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,26           | 0,29                        | 4895        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,28           | 0,32                        | 4418        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,32           | 0,36                        | 3884        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,35           | 0,39                        | 3619        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,38           | 0,43                        | 3281        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,49           | 0,55                        | 2545        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,56           | 0,62                        | 2245        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,24           | 0,28                        | 5076        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,28           | 0,32                        | 4389        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,30           | 0,34                        | 4120        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,32           | 0,37                        | 3826        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,35           | 0,39                        | 3563        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,41           | 0,47                        | 3003        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,51           | 0,57                        | 2437        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,61           | 0,69                        | 2036        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,69           | 0,78                        | 1792        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,72           | 0,81                        | 1724        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 0,88           | 1                           | 1400        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,05           | 1,2                         | 1169        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,20           | 1,4                         | 1029        | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,35           | 1,5                         | 913         | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,48           | 1,7                         | 831         | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 1,78           | 2,0                         | 694         | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |
|                                                    |                                                             | 2,02           | 2,3                         | 611         | 7800                         | 1200            | 61000            |                    |                                                                                     |                                                                                     |            |




**n<sub>1</sub> = 1400**
**d/d**  
r.p.m

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | İ                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ |  |  | kg  |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                    |                                                                                     |                                                                                     |     |
| <b>7800 Nm</b>                                     |                                                             | 0,36              | 0,41                                         | 3380                 | 7800                                          | 1200                     | 61000                    | <b>YP<br/>YPF</b>  | <b>123 İR 72</b>                                                                    | 459                                                                                 | 288 |
|                                                    |                                                             | 0,42              | 0,47                                         | 2971                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,47              | 0,53                                         | 2641                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,52              | 0,59                                         | 2368                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,58              | 0,65                                         | 2138                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,68              | 0,77                                         | 1821                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,76              | 0,86                                         | 1633                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,84              | 0,95                                         | 1475                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 0,94              | 1,1                                          | 1316                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,13              | 1,3                                          | 1092                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,23              | 1,4                                          | 1002                 | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,55              | 1,8                                          | 794                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,73              | 2,0                                          | 713                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 1,90              | 2,2                                          | 648                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,27              | 2,6                                          | 543                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,55              | 2,9                                          | 484                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,89              | 3,3                                          | 427                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,25              | 3,7                                          | 380                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,64              | 4,1                                          | 339                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,06              | 4,6                                          | 304                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,50              | 5,1                                          | 274                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,99              | 5,7                                          | 247                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 5,53              | 6,3                                          | 223                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,07              | 6,9                                          | 203                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,70              | 7,6                                          | 184                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 2,43              | 2,8                                          | 499                  | 7800                                          | 1200                     | 61000                    | <b>YP<br/>YPF</b>  | <b>122 İR 72</b>                                                                    | 459                                                                                 | 288 |
|                                                    |                                                             | 2,74              | 3,2                                          | 444                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,08              | 3,5                                          | 395                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,43              | 4,0                                          | 354                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 3,78              | 4,4                                          | 321                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,42              | 5,1                                          | 275                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,88              | 5,6                                          | 249                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 5,84              | 6,7                                          | 208                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,64              | 7,7                                          | 183                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 7,50              | 8,6                                          | 162                  | 7800                                          | 1200                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 4,79              | 5,6                                          | 249,866              | 7800                                          | 3750                     | 61000                    | <b>YP<br/>YPF</b>  | <b>123</b>                                                                          | 445                                                                                 | 287 |
|                                                    |                                                             | 5,45              | 6,4                                          | 219,677              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,13              | 7,2                                          | 195,237              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 6,84              | 8,0                                          | 175,048              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 7,57              | 8,9                                          | 158,089              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 8,33              | 9,7                                          | 143,643              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 9,12              | 11                                           | 131,189              | 7800                                          | 3750                     | 61000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 9,94              | 12                                           | 120,342              | 7800                                          | 3750                     | 60000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 11,3              | 13                                           | 105,607              | 7800                                          | 3750                     | 60000                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 12,5              | 15                                           | 95,376               | 7800                                          | 3750                     | 57700                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 13,8              | 16                                           | 86,660               | 7800                                          | 3750                     | 57700                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 15,1              | 18                                           | 79,147               | 7800                                          | 3750                     | 57700                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 16,5              | 19                                           | 72,603               | 7800                                          | 3750                     | 57700                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 18,5              | 22                                           | 64,730               | 7800                                          | 3750                     | 55500                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 20,9              | 24                                           | 57,163               | 7800                                          | 3750                     | 55500                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 23,5              | 28                                           | 50,808               | 7800                                          | 3750                     | 55500                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 26,4              | 31                                           | 45,393               | 7800                                          | 3750                     | 53500                    |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                             | 29,4              | 34                                           | 40,726               | 7800                                          | 3750                     | 50000                    |                    |                                                                                     |                                                                                     |     |


**n<sub>1</sub> = 1400**
**d/d**  
r.p.m

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub>    | n <sub>2</sub>                               | i                    | M <sub>2</sub>                                | F <sub>Q1</sub>          | F <sub>Q10</sub>         | Tip<br>Type<br>Typ    |  |  |
|----------------------------------------------------|-------------------------------------------------------------|-------------------|----------------------------------------------|----------------------|-----------------------------------------------|--------------------------|--------------------------|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                    |                                                             | GÜÇ               | Çıkış Devri                                  | Tahvil               | Çıkış Momenti                                 | Rad. Yük                 | Rad. Yük                 |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | Power<br>Leistung | Output Speeds<br>Abtriebswelle<br>Drehzahlen | Ratio<br>Übersetzung | Output Torque<br>Abtriebswelle<br>Drehmomente | Over Loads<br>Querkräfte | Over Loads<br>Querkräfte |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | [kW]              | [r.p.m]                                      |                      | [Nm]                                          | [N]                      | [N]                      |                       |                                                                                     | kg                                                                                  |
| <b>7800 Nm</b>                                     |                                                             | 32,6              | 38                                           | 36,661               | 7800                                          | 3750                     | 50000                    | <b>YP<br/>YPF 123</b> | 445                                                                                 | 287                                                                                 |
|                                                    |                                                             | 36,2              | 42                                           | 33,088               | 7800                                          | 3750                     | 48800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 40,0              | 47                                           | 29,924               | 7800                                          | 3750                     | 48800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 44,1              | 52                                           | 27,102               | 7800                                          | 3750                     | 47000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 48,7              | 57                                           | 24,569               | 7800                                          | 3750                     | 47000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 31,9              | 38                                           | 36,936               | 7800                                          | 3750                     | 50000                    | <b>YP<br/>YPF 122</b> | 445                                                                                 | 282                                                                                 |
|                                                    |                                                             | 35,9              | 43                                           | 32,866               | 7800                                          | 3750                     | 50000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 39,9              | 47                                           | 29,504               | 7800                                          | 3750                     | 48800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 44,2              | 52                                           | 26,680               | 7800                                          | 3750                     | 47000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 52,9              | 63                                           | 22,284               | 7800                                          | 3750                     | 47000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 60,1              | 71                                           | 19,609               | 7800                                          | 3750                     | 46500                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 67,7              | 80                                           | 17,400               | 7800                                          | 3750                     | 45000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 75,8              | 90                                           | 15,544               | 7800                                          | 3750                     | 42200                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 84,4              | 100                                          | 13,962               | 7800                                          | 3750                     | 40000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 93,5              | 111                                          | 12,600               | 7800                                          | 3750                     | 37000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 103,3             | 123                                          | 11,412               | 7800                                          | 3750                     | 36500                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 113,7             | 135                                          | 10,369               | 7800                                          | 3750                     | 36000                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 124,8             | 148                                          | 9,445                | 7800                                          | 3750                     | 33500                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 136,7             | 162                                          | 8,621                | 7800                                          | 3750                     | 31500                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 142,5             | 169                                          | 8,268                | 7800                                          | 3750                     | 29500                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 158,0             | 188                                          | 7,461                | 7800                                          | 3750                     | 28350                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 174,4             | 207                                          | 6,758                | 7800                                          | 3750                     | 28350                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 191,9             | 228                                          | 6,140                | 7800                                          | 3750                     | 26800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 210,7             | 250                                          | 5,593                | 7800                                          | 3750                     | 26800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 230,9             | 274                                          | 5,105                | 7800                                          | 3750                     | 26800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 252,5             | 300                                          | 4,667                | 7800                                          | 3750                     | 23800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 275,9             | 328                                          | 4,272                | 7800                                          | 3750                     | 23800                    |                       |                                                                                     |                                                                                     |
|                                                    |                                                             | 301,1             | 358                                          | 3,914                | 7800                                          | 3750                     | 23800                    |                       |                                                                                     |                                                                                     |


**n<sub>1</sub> = 900**
**d/d  
r.p.m**

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> =1<br>S <sub>f</sub> =1<br>S <sub>f</sub> =1 | P <sub>1</sub> | n <sub>2</sub>              | i           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  |
|----------------------------------------------------|-------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                    |                                                             | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     | kg                                                                                  |
| 200 Nm                                             |                                                             | 0,17           | 7,6                         | 119,073     | 200                          | 390             | 4500             | YP<br>YPF          | 53                                                                                  | 433<br>434<br>20                                                                    |
|                                                    |                                                             | 0,19           | 8,6                         | 104,313     | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,21           | 9,5                         | 94,784      | 200                          | 390             | 4500             |                    |                                                                                     |                                                                                     |
| 400 Nm                                             |                                                             | 0,21           | 4,7                         | 190,171     | 400                          | 475             | 7000             | YP<br>YPF          | 63                                                                                  | 435<br>436<br>32<br>34                                                              |
|                                                    |                                                             | 0,22           | 5,1                         | 177,468     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,24           | 5,4                         | 166,102     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,25           | 5,7                         | 157,692     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,30           | 6,9                         | 130,521     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,32           | 7,4                         | 121,671     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,37           | 8,5                         | 105,483     | 400                          | 475             | 7000             |                    |                                                                                     |                                                                                     |
| 800 Nm                                             |                                                             | 0,37           | 4,2                         | 212,231     | 800                          | 590             | 13500            | YP<br>YPF          | 73                                                                                  | 437<br>438<br>53<br>57                                                              |
|                                                    |                                                             | 0,40           | 4,5                         | 198,053     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,43           | 4,9                         | 185,369     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,48           | 5,5                         | 164,458     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,54           | 6,2                         | 145,661     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,61           | 7,0                         | 129,229     | 800                          | 590             | 13500            |                    |                                                                                     |                                                                                     |
| 1500 Nm                                            |                                                             | 0,61           | 3,7                         | 242,298     | 1500                         | 550             | 17250            | YP<br>YPF          | 83                                                                                  | 439<br>440<br>83<br>89                                                              |
|                                                    |                                                             | 0,71           | 4,3                         | 209,469     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,73           | 4,5                         | 201,750     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 0,85           | 5,2                         | 174,415     | 1500                         | 550             | 17250            |                    |                                                                                     |                                                                                     |
| 3000 Nm                                            |                                                             | 1,0            | 3,1                         | 285,833     | 3000                         | 980             | 25000            | YP<br>YPF          | 93                                                                                  | 441<br>442<br>115<br>118                                                            |
|                                                    |                                                             | 1,2            | 3,6                         | 252,350     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 1,3            | 3,8                         | 235,385     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 1,3            | 4,1                         | 222,000     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 1,4            | 4,2                         | 213,043     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 1,5            | 4,5                         | 198,721     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |
| 4300 Nm                                            |                                                             | 1,6            | 3,3                         | 270,11      | 4300                         | 2500            | 30000            | YP<br>YPF          | 103                                                                                 | 443<br>444<br>188<br>208                                                            |
|                                                    |                                                             | 1,7            | 3,6                         | 251,95      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 1,9            | 4,1                         | 221,36      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 2,2            | 4,6                         | 196,61      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 2,3            | 5,0                         | 180,74      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 2,6            | 5,6                         | 160,53      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |
| 7800 Nm                                            |                                                             | 3,1            | 3,6                         | 249,866     | 7800                         | 3750            | 61000            | YP<br>YPF          | 123                                                                                 | 445<br>446<br>287<br>317                                                            |
|                                                    |                                                             | 3,5            | 4,1                         | 219,677     | 7800                         | 3750            | 61000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 3,9            | 4,6                         | 195,237     | 7800                         | 3750            | 61000            |                    |                                                                                     |                                                                                     |
|                                                    |                                                             | 4,4            | 5,1                         | 175,048     | 7800                         | 3750            | 61000            |                    |                                                                                     |                                                                                     |

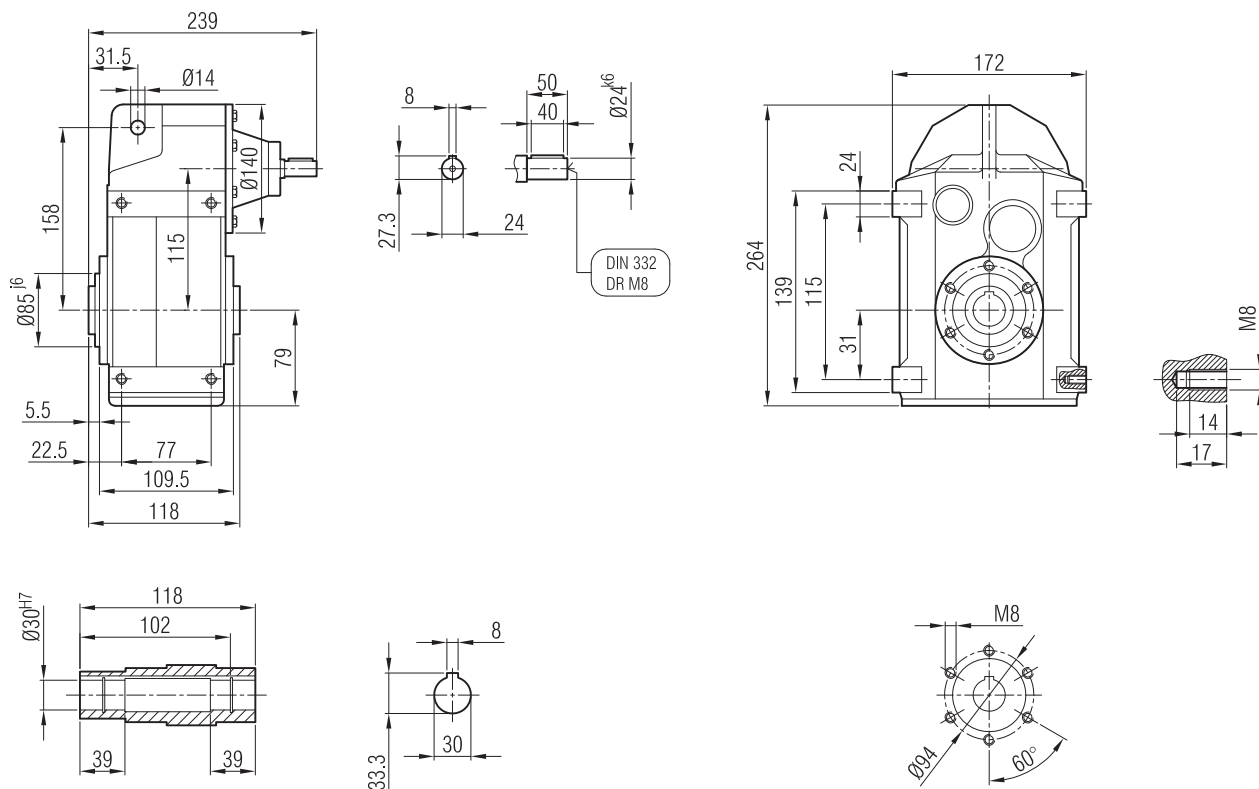

**n<sub>1</sub> = 700**
**d/d**  
r.p.m

| Servis Faktörü<br>Service Factor<br>Betriebsfaktor | S <sub>f</sub> = 1<br>S <sub>f</sub> = 1<br>S <sub>f</sub> = 1 | P <sub>1</sub> | n <sub>2</sub>              | i           | M <sub>2</sub>               | F <sub>Q1</sub> | F <sub>Q10</sub> | Tip<br>Type<br>Typ |  |  | kg  |
|----------------------------------------------------|----------------------------------------------------------------|----------------|-----------------------------|-------------|------------------------------|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
|                                                    |                                                                | GÜÇ            | Çıkış Devri                 | Tahvil      | Çıkış Momenti                | Rad. Yük        | Rad. Yük         |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                                | Power          | Output Speeds               | Ratio       | Output Torque                | Over Loads      | Over Loads       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                                | Leistung       | Abtriebswelle<br>Drehzahlen | Übersetzung | Abtriebswelle<br>Drehmomente | Querkräfte      | Querkräfte       |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                                | [kW]           | [r.p.m]                     |             | [Nm]                         | [N]             | [N]              |                    |                                                                                     |                                                                                     |     |
| <b>3000 Nm</b>                                     |                                                                | 0,80           | 2,4                         | 285,833     | 3000                         | 980             | 25000            | <b>YP<br/>YPF</b>  | <b>93</b>                                                                           | 441                                                                                 | 115 |
|                                                    |                                                                | 0,91           | 2,8                         | 252,350     | 3000                         | 980             | 25000            |                    |                                                                                     | 442                                                                                 | 118 |
|                                                    |                                                                | 0,98           | 3,0                         | 235,385     | 3000                         | 980             | 25000            |                    |                                                                                     |                                                                                     |     |
| <b>4300 Nm</b>                                     |                                                                | 1,2            | 2,6                         | 270,11      | 4300                         | 2500            | 30000            | <b>YP<br/>YPF</b>  | <b>103</b>                                                                          | 443                                                                                 | 188 |
|                                                    |                                                                | 1,3            | 2,8                         | 251,95      | 4300                         | 2500            | 30000            |                    |                                                                                     | 444                                                                                 | 208 |
|                                                    |                                                                | 1,5            | 3,2                         | 221,36      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
|                                                    |                                                                | 1,7            | 3,6                         | 196,61      | 4300                         | 2500            | 30000            |                    |                                                                                     |                                                                                     |     |
| <b>7800 Nm</b>                                     |                                                                | 2,4            | 2,8                         | 249,866     | 7800                         | 3750            | 61000            | <b>YP<br/>YPF</b>  | <b>123</b>                                                                          | 445                                                                                 | 287 |
|                                                    |                                                                | 2,7            | 3,2                         | 219,677     | 7800                         | 3750            | 61000            |                    |                                                                                     | 446                                                                                 | 317 |
|                                                    |                                                                | 3,1            | 3,6                         | 195,237     | 7800                         | 3750            | 61000            |                    |                                                                                     |                                                                                     |     |

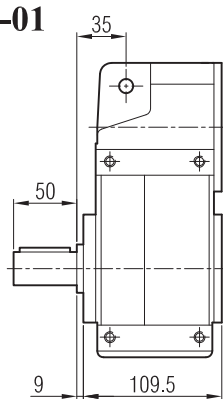


#### YP 52

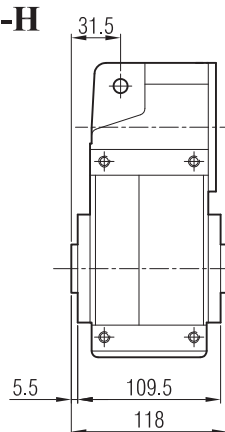
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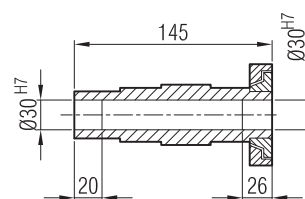
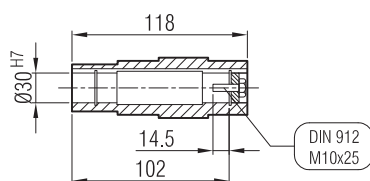
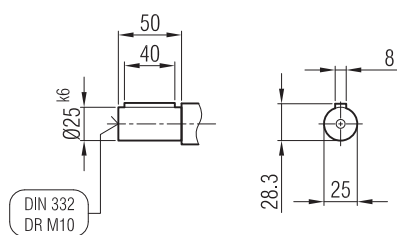
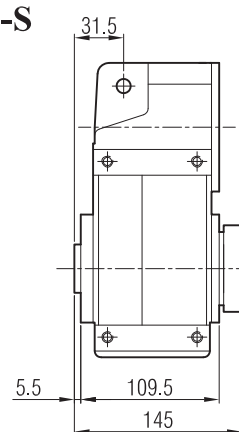
#### ... -01



#### ... -H



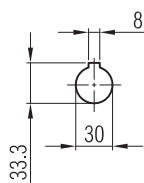
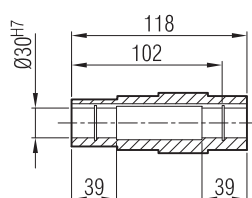
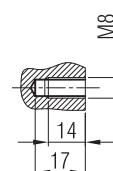
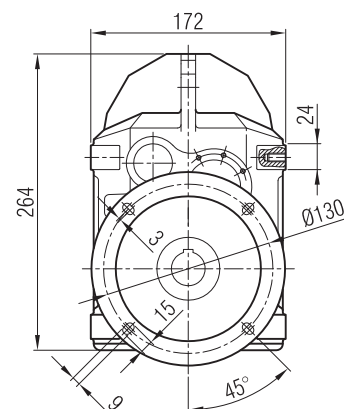
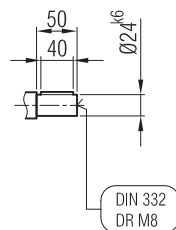
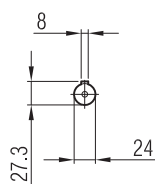
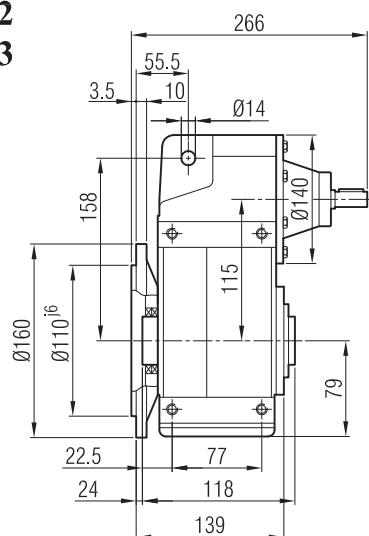
#### ... -S



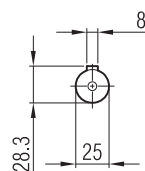
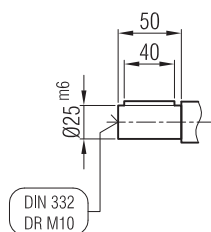
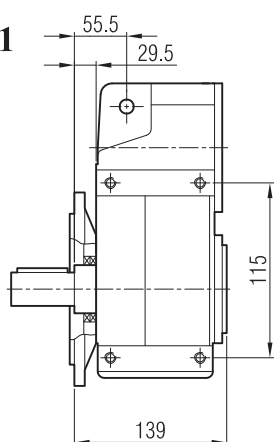


#### YPF 52

#### YPF 53

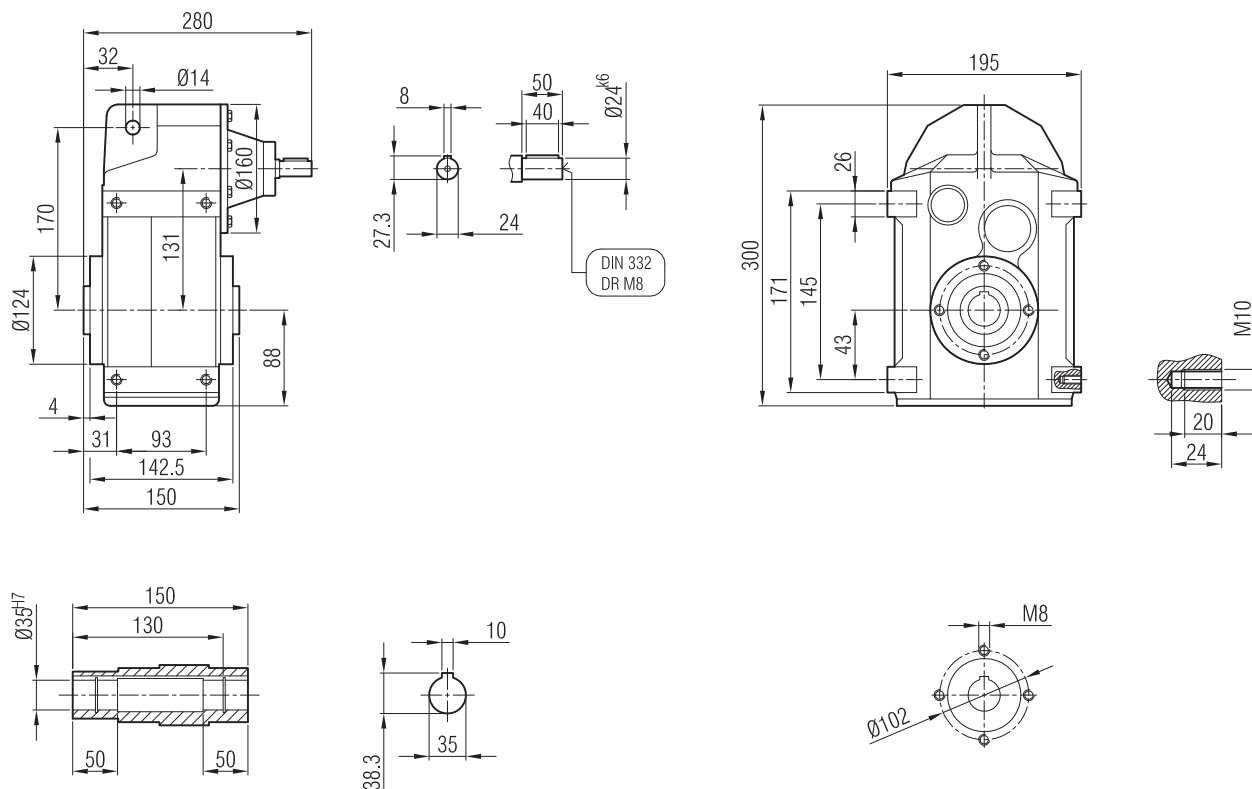


#### ... -01

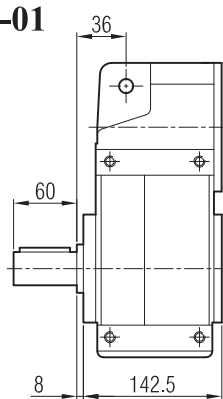




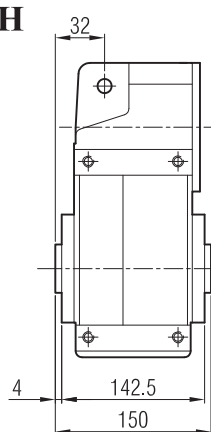
**YP 62**  
**YP 63**



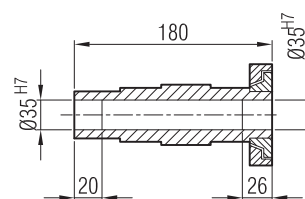
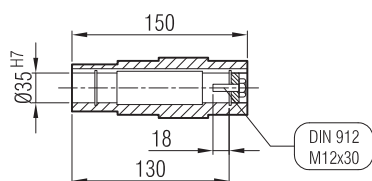
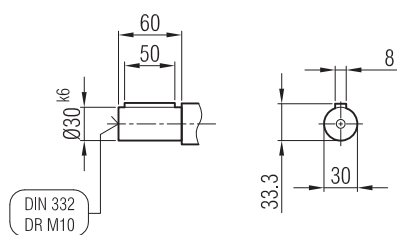
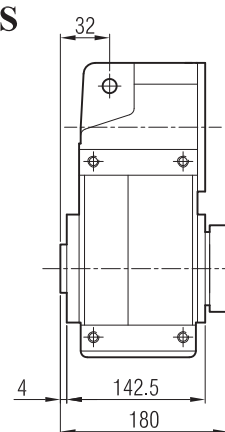
**... -01**



**... -H**

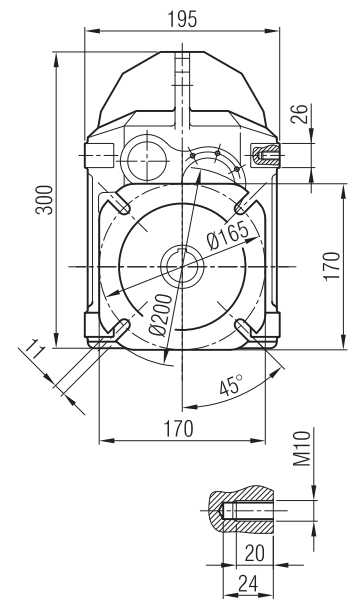
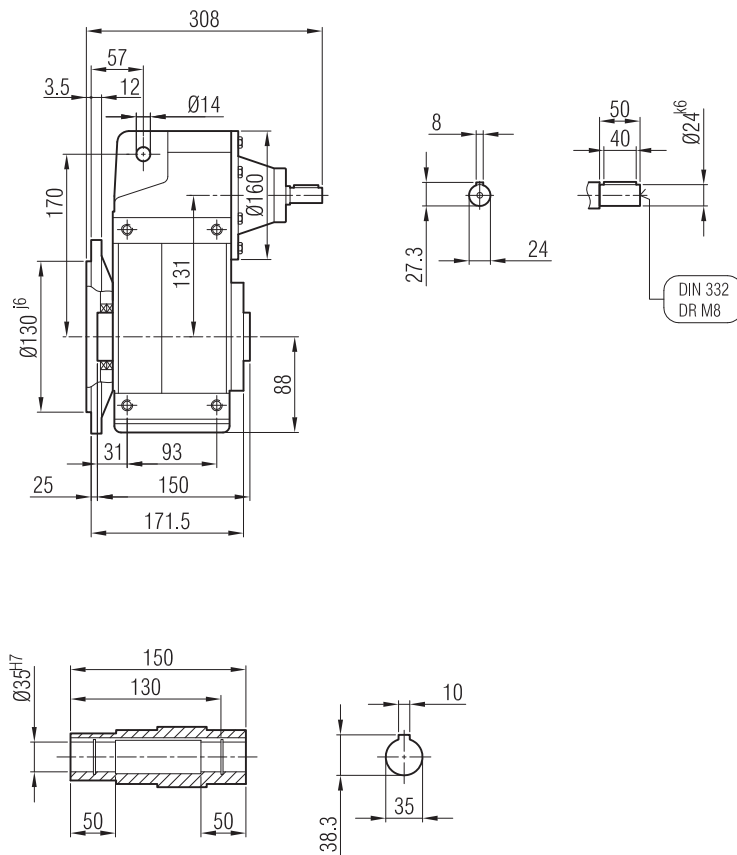


**... -S**

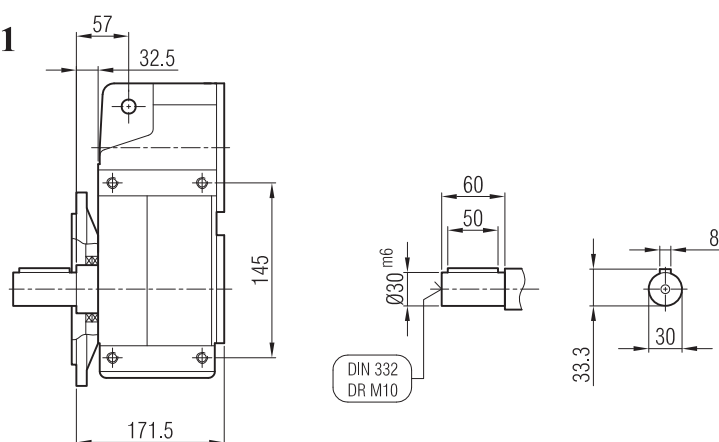




**YPF 62**  
**YPF 63**



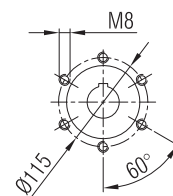
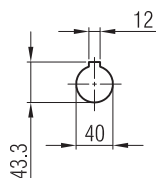
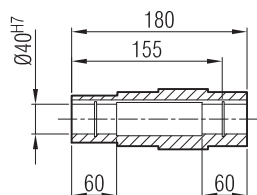
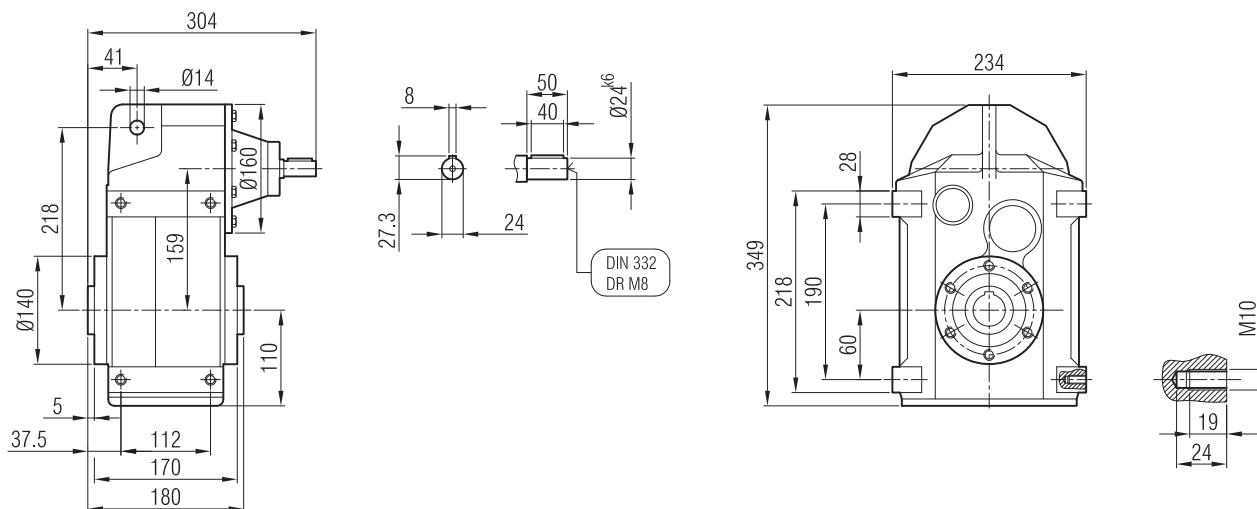
...-01



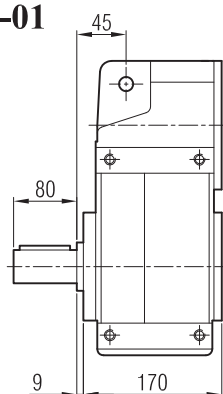




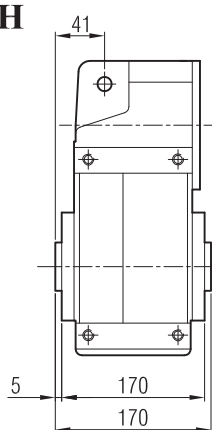
**YP 72**  
**YP 73**



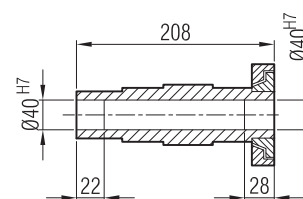
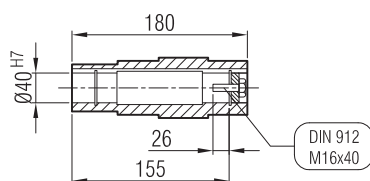
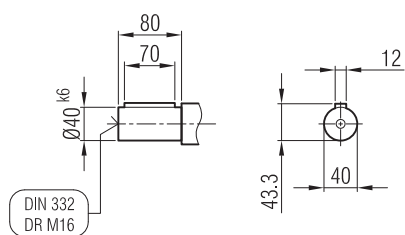
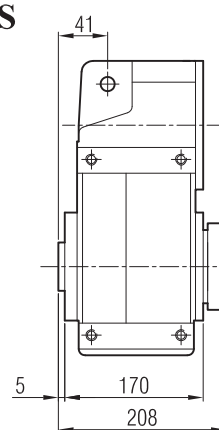
**... -01**



**... -H**



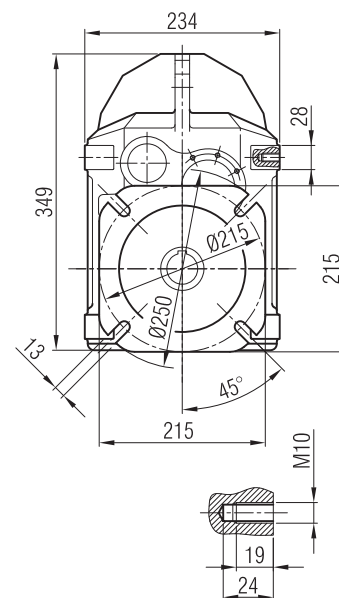
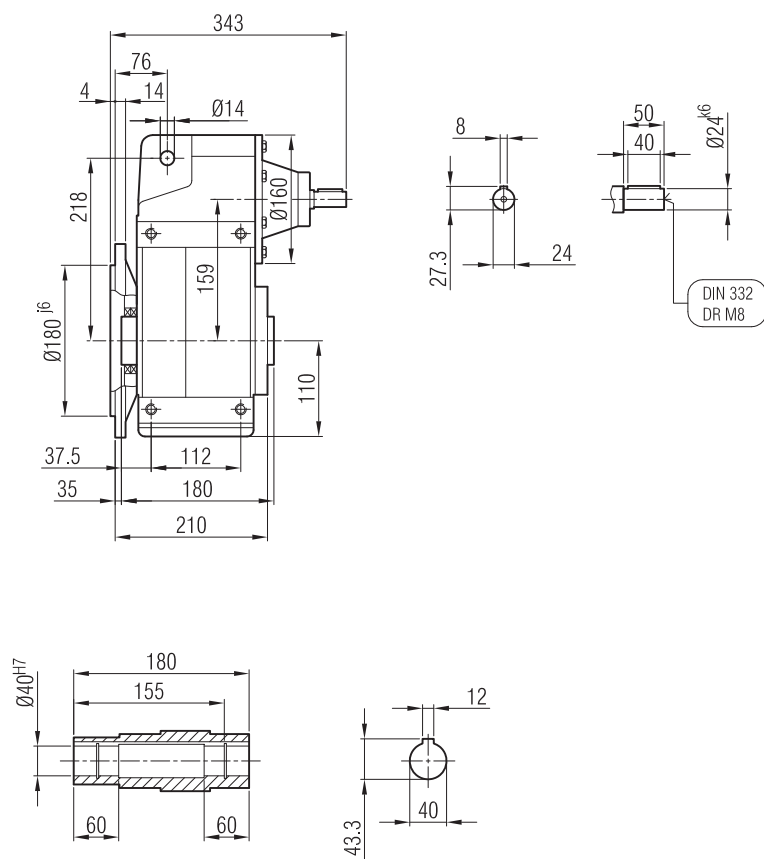
**... -S**



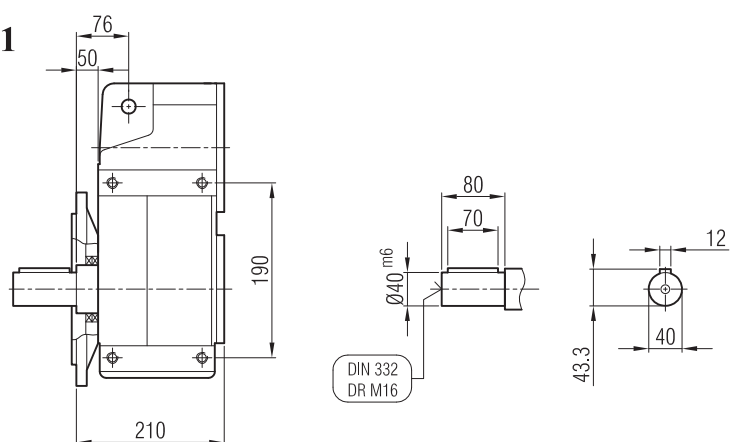


#### YPF 72

#### YPF 73



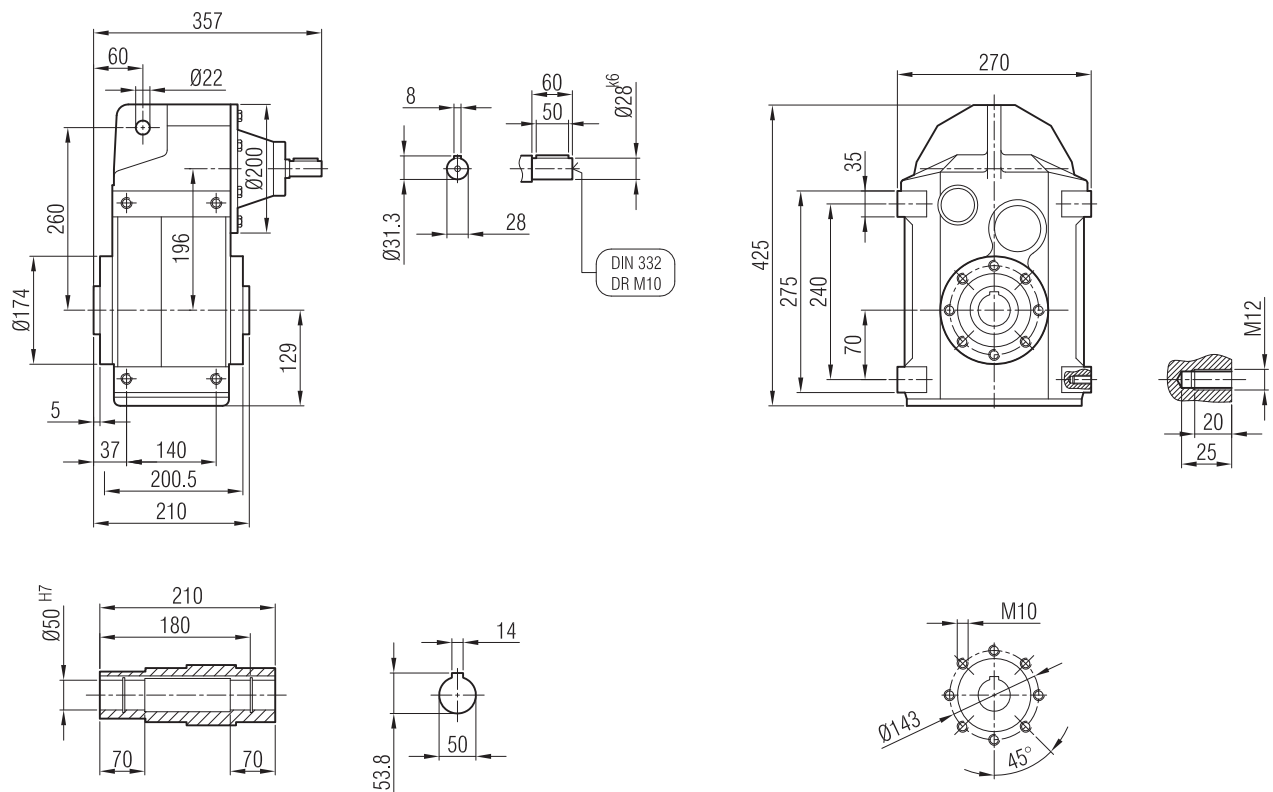
#### ... -01



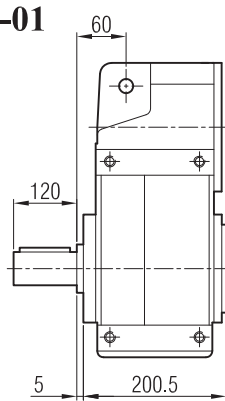


YP 82

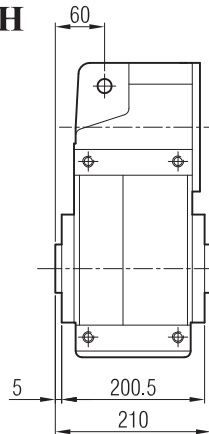
YP 83



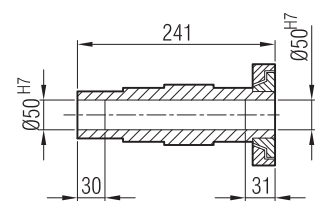
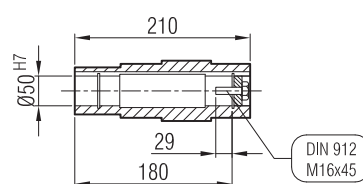
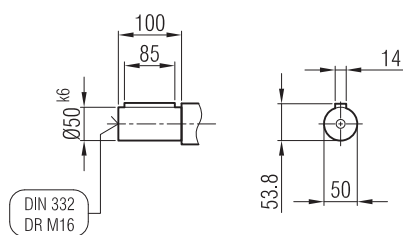
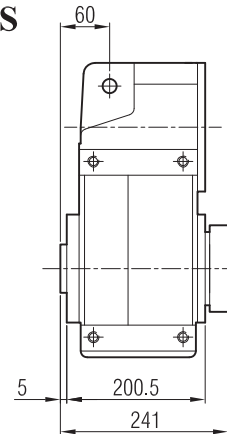
...-01



...-H



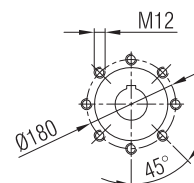
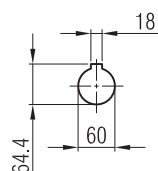
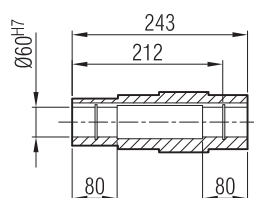
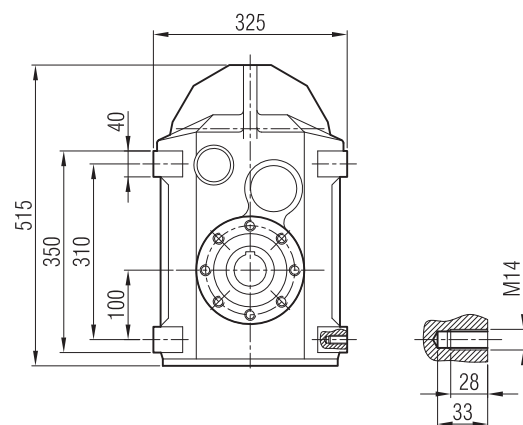
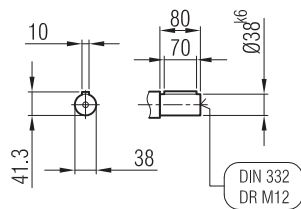
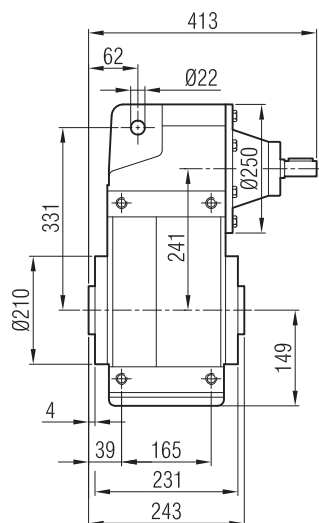
...-S



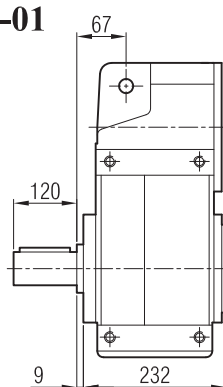




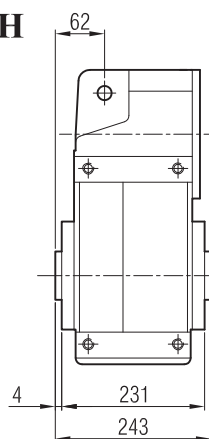
## YP 92 YP 93



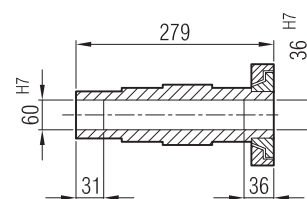
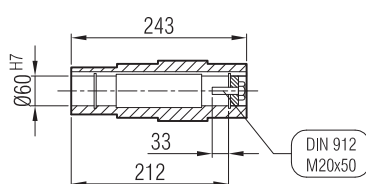
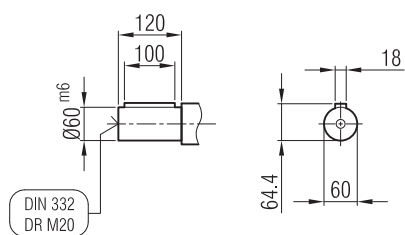
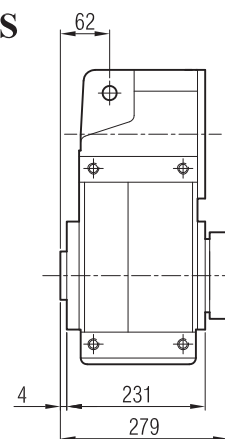
### ... -01



### ... -H



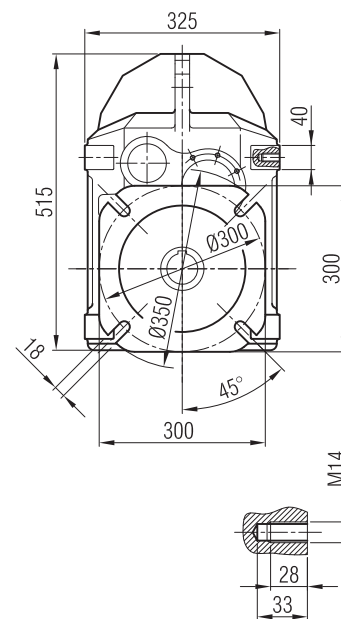
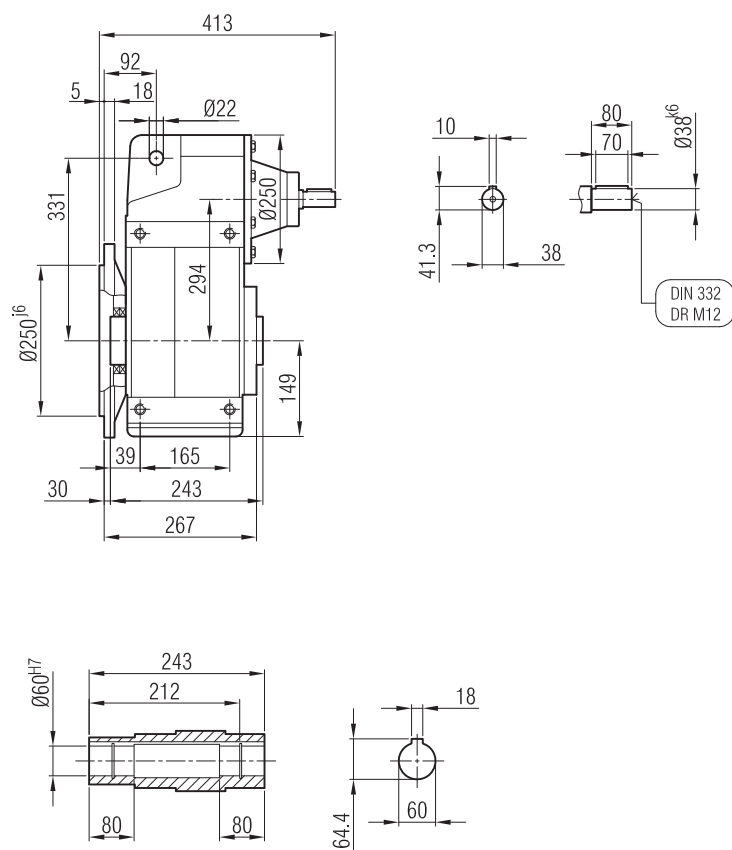
### ... -S



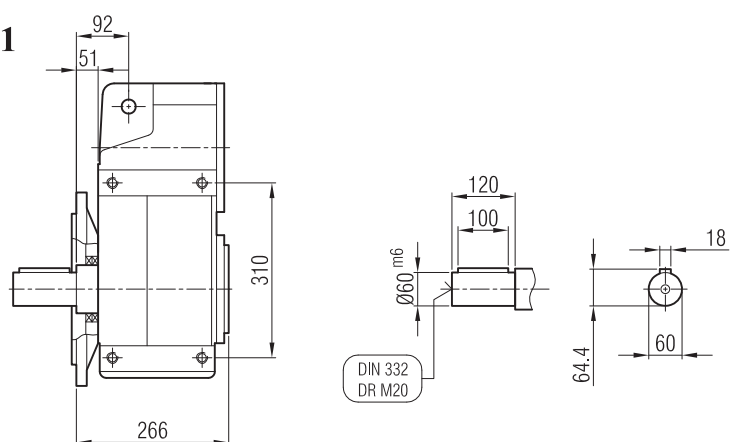


#### YPF 92

#### YPF 93



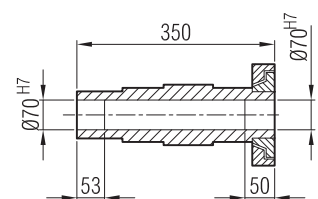
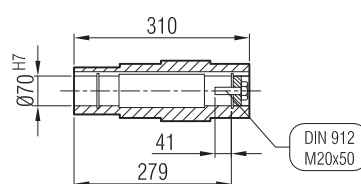
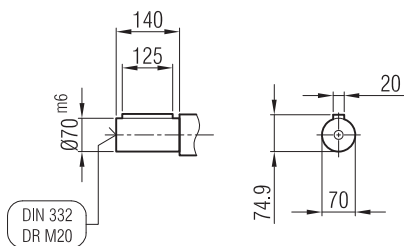
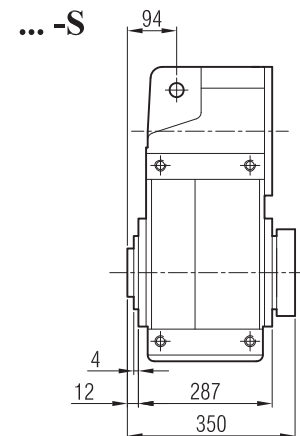
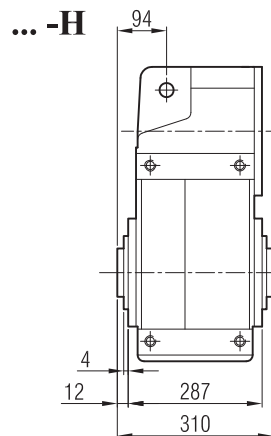
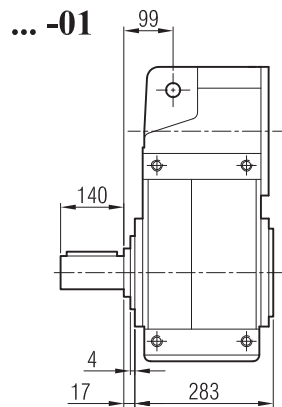
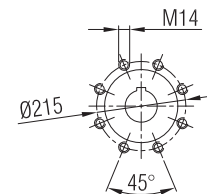
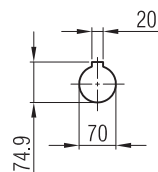
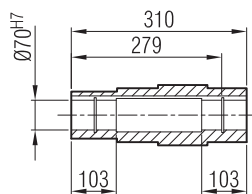
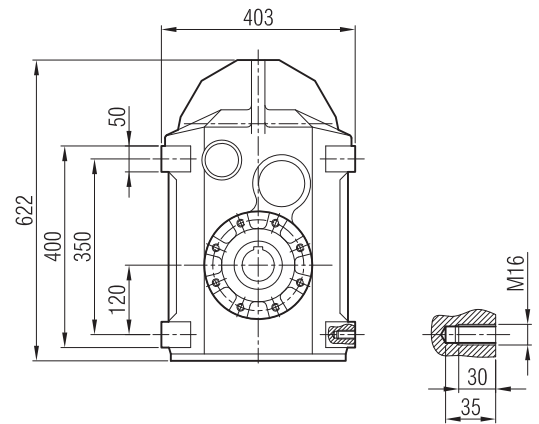
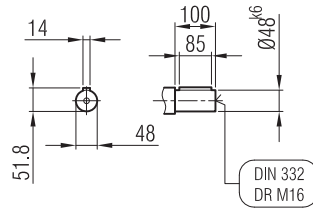
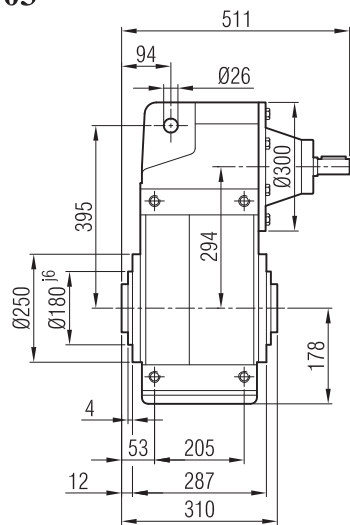
#### ... -01





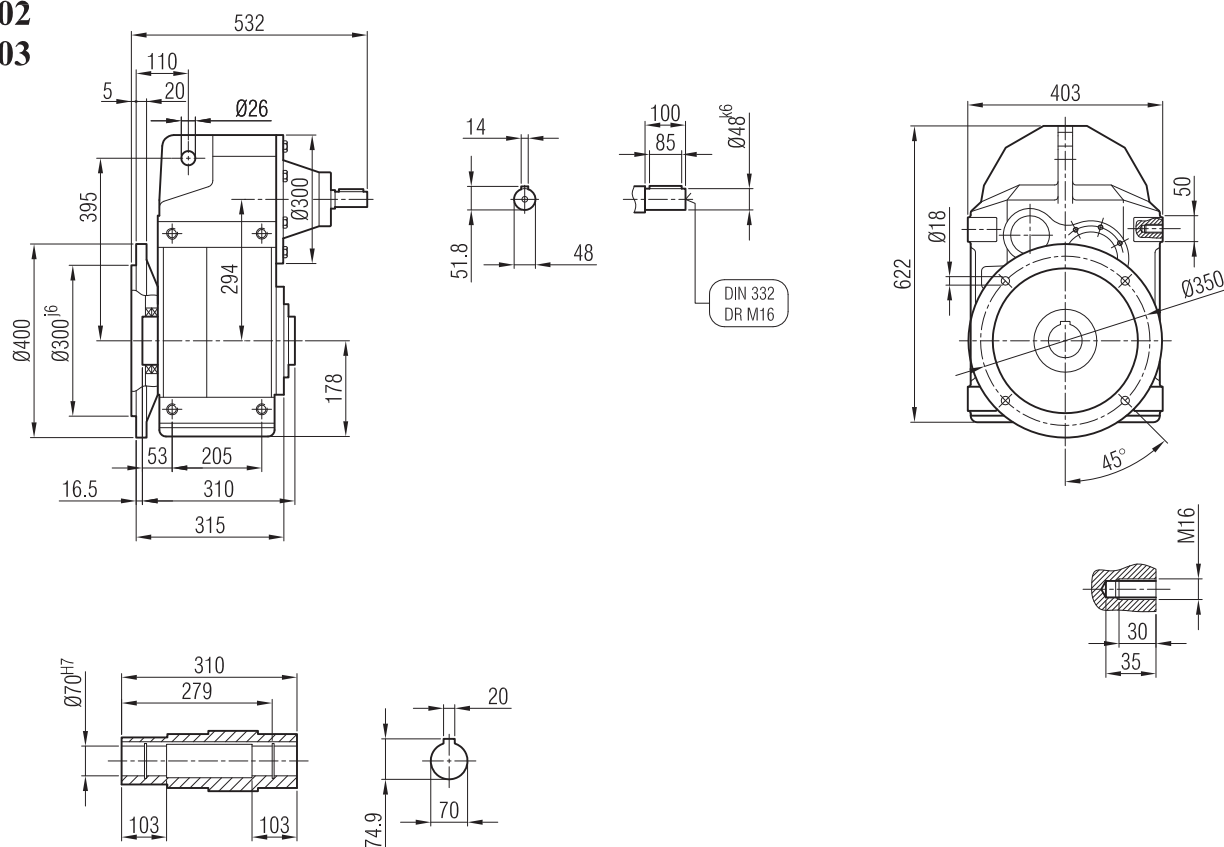
## YP 102

## YP 103

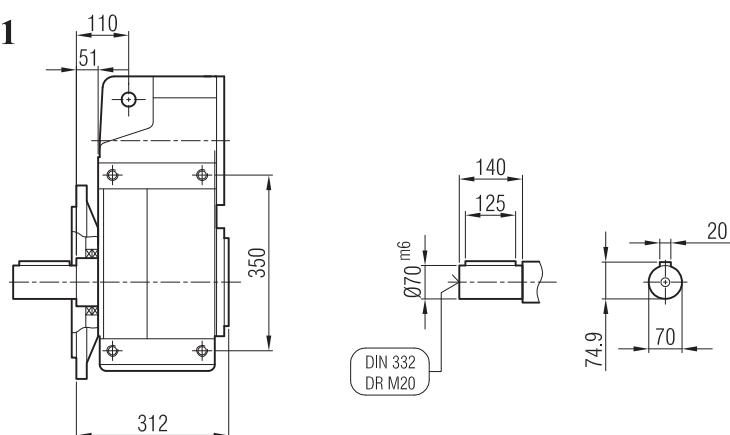




### YPF 102 YPF 103



### ... -01

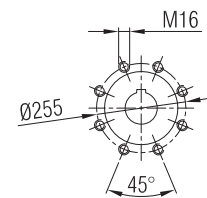
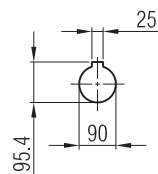
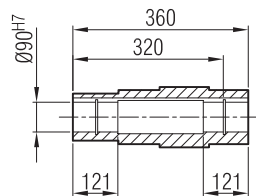
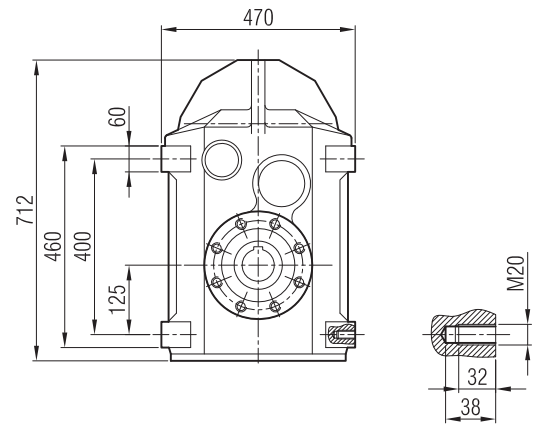
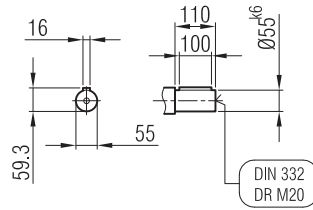
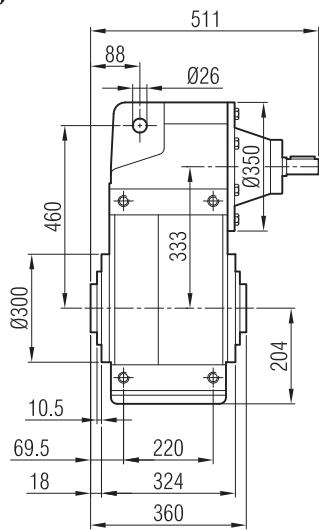




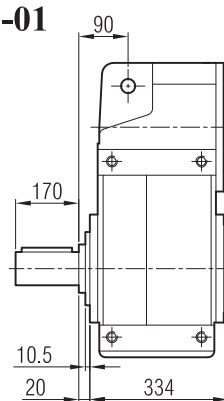


## YP 122

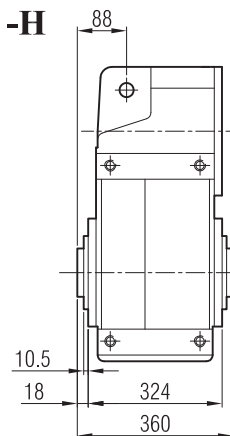
## YP 123



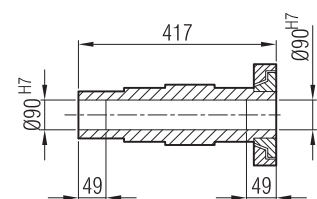
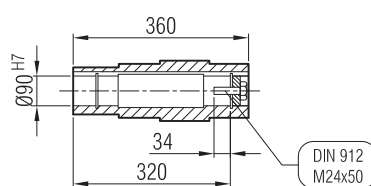
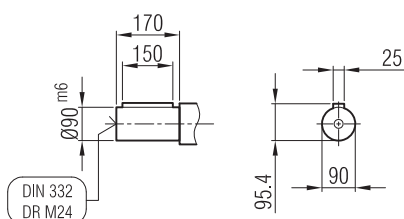
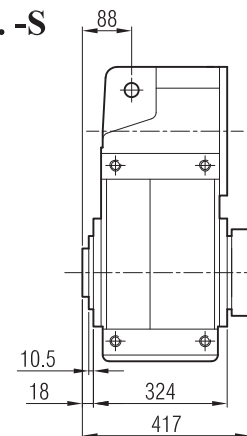
## ... -01



## ... -H



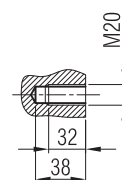
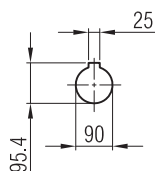
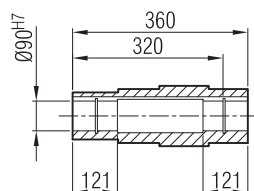
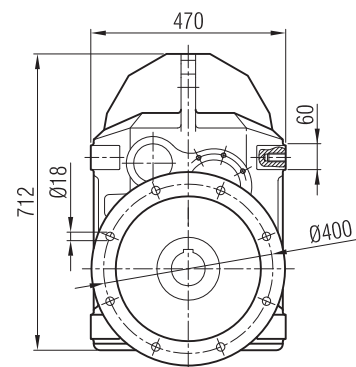
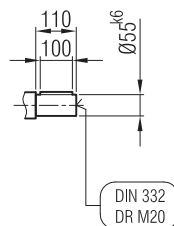
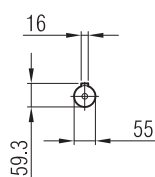
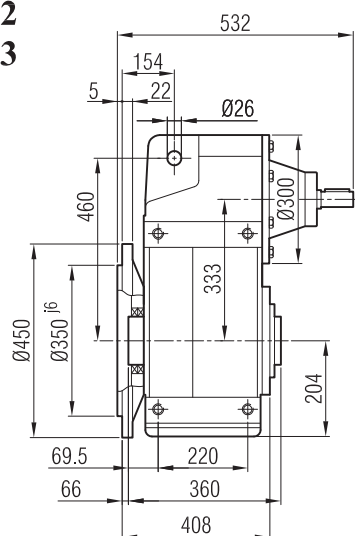
## ... -S



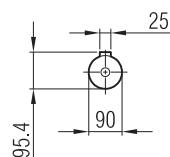
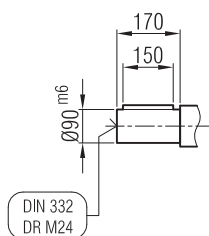
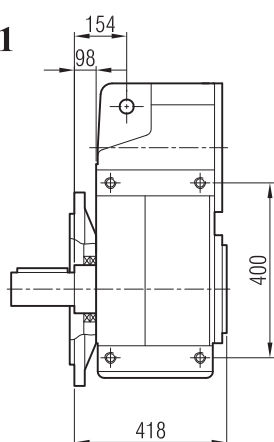


#### YPF 122

#### YPF 123



#### ... -01



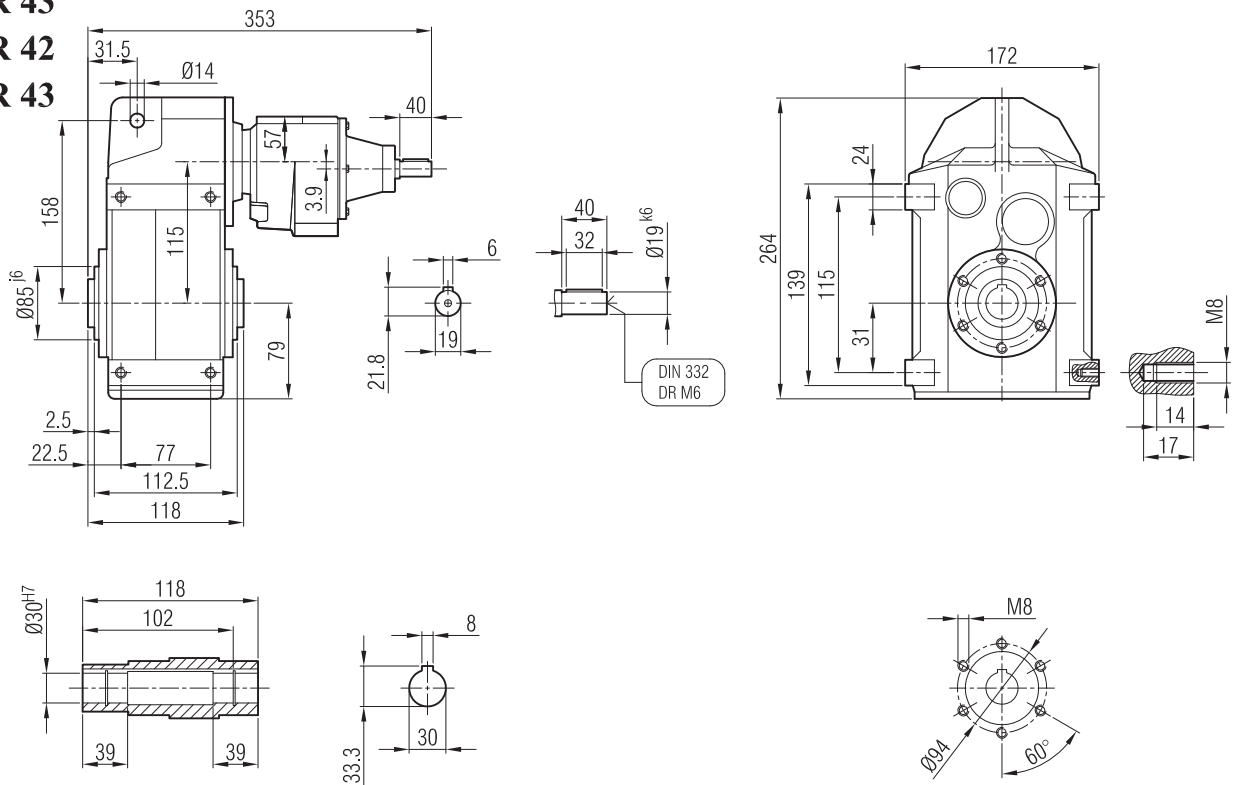


**YP 52 İR 42**

**YP 52 İR 43**

**YP 53 İR 42**

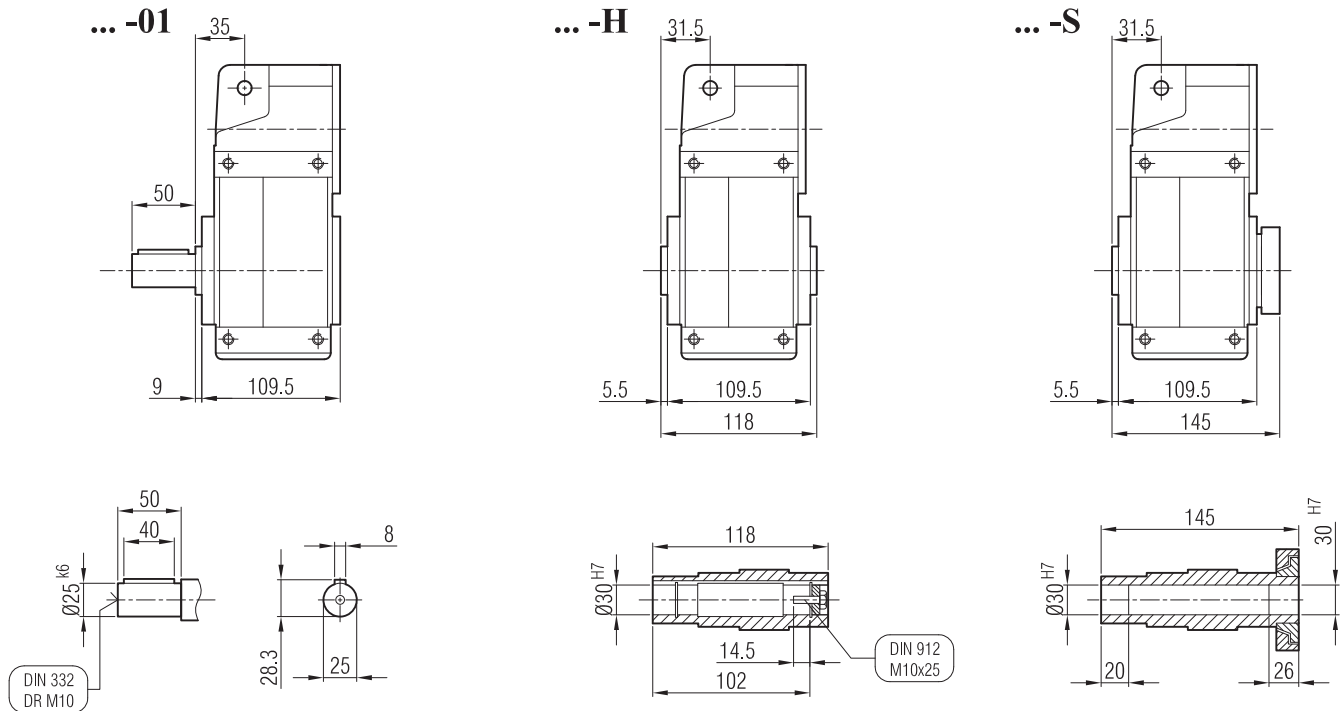
**YP 53 İR 43**



**... -01**

**... -H**

**... -S**



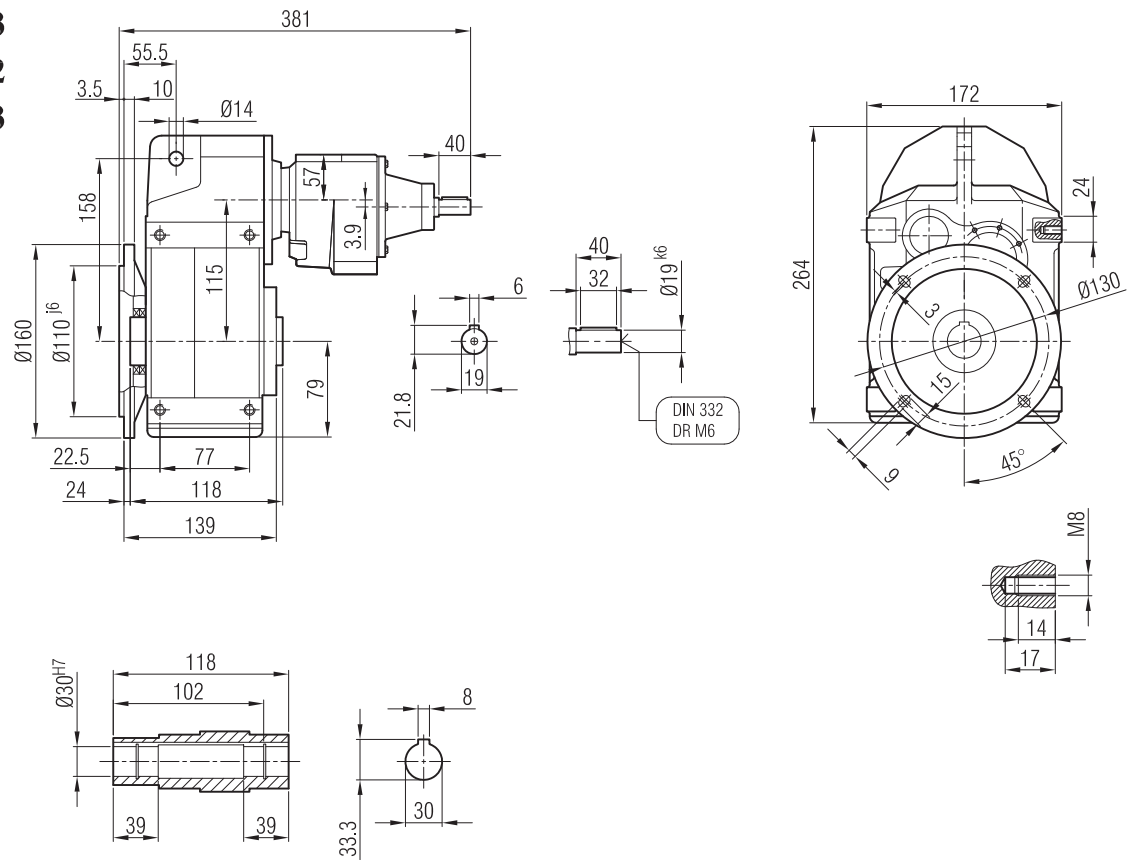


**YPF 52 İR 42**

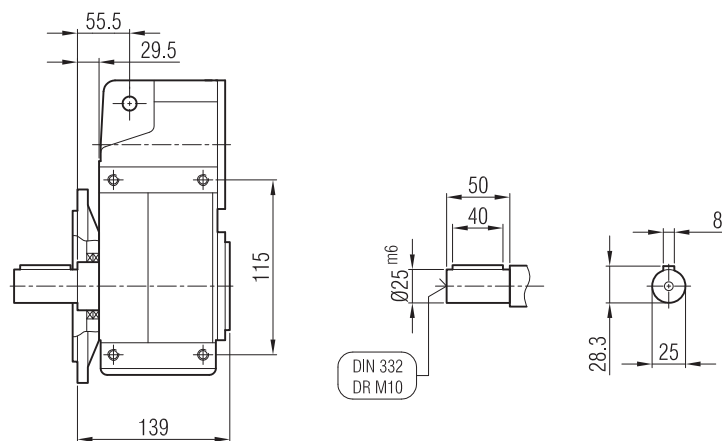
**YPF 52 İR 43**

**YPF 53 İR 42**

**YPF 53 IR 43**



...-01



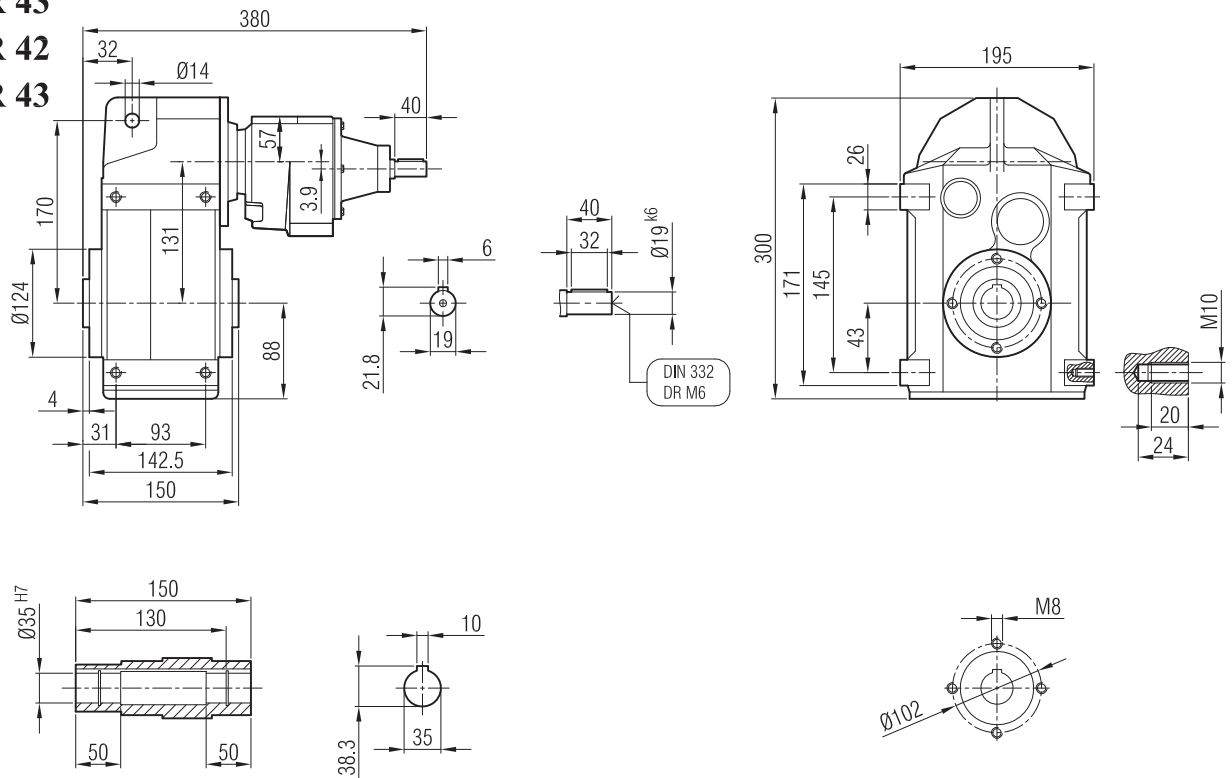


**YP 62 İR 42**

**YP 62 İR 43**

**YP 63 İR 42**

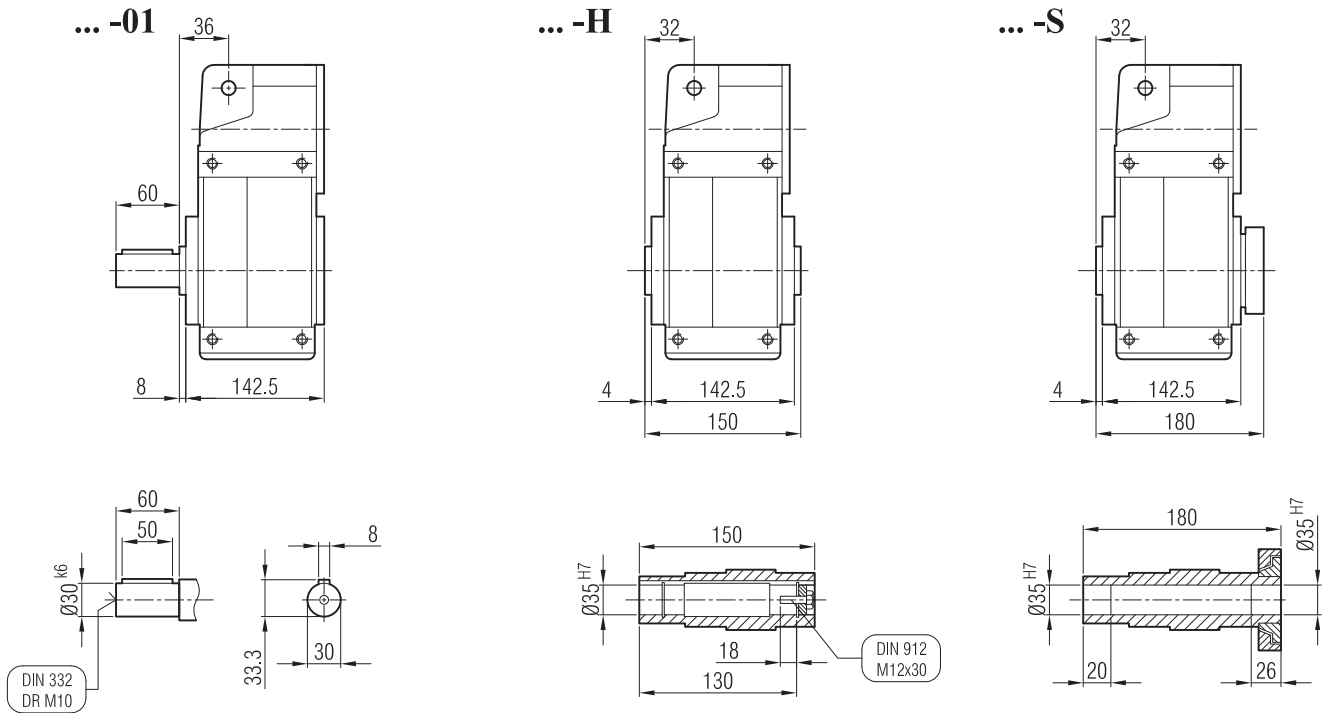
**YP 63 İR 43**



**... -01**

**... -H**

**... -S**



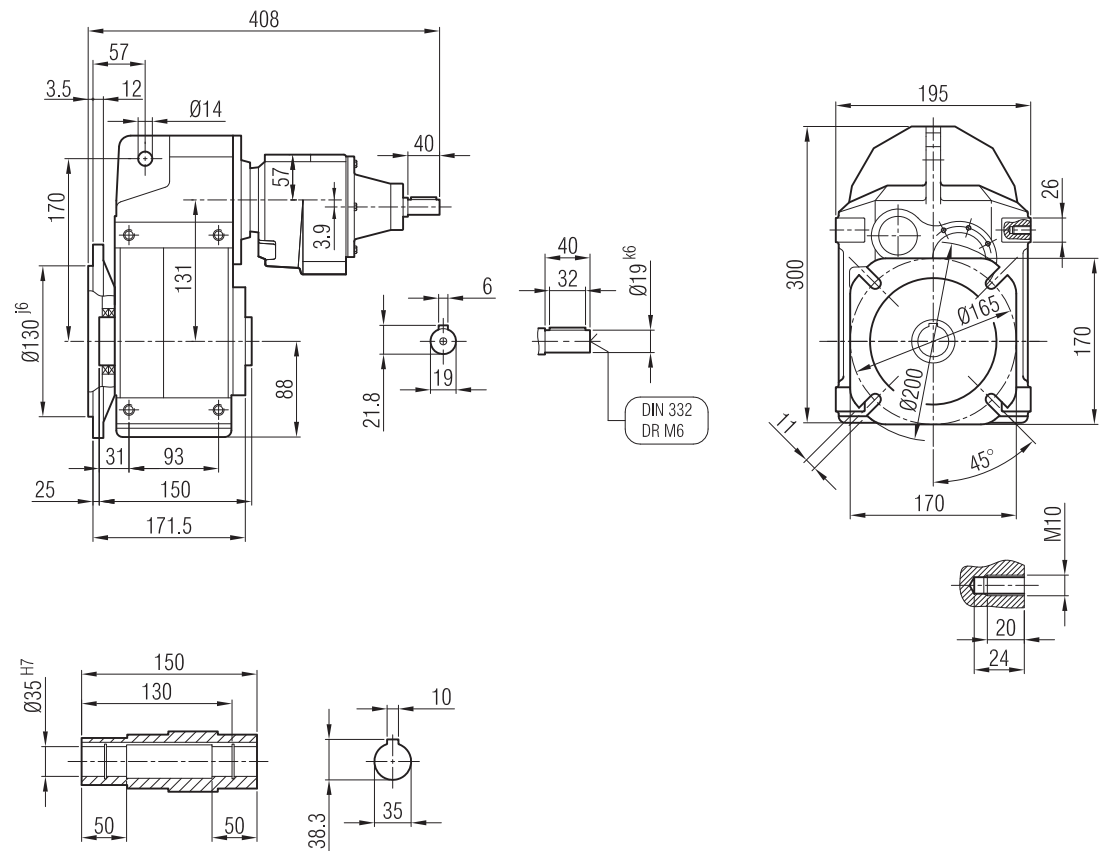


**YPF 62 İR 42**

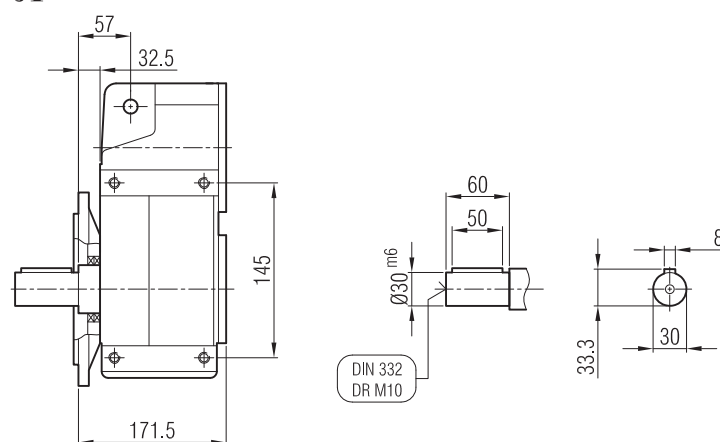
**YPF 62 İR 43**

**YPF 63 İR 42**

**YPF 63 İR 43**



...-01



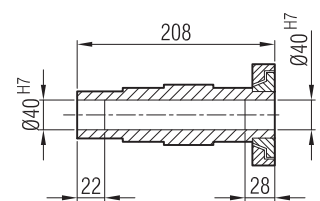
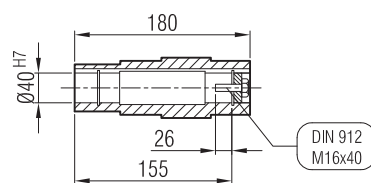
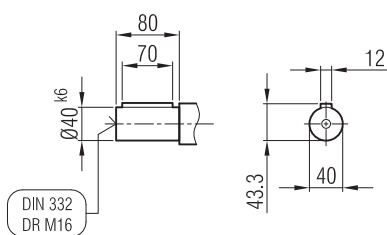
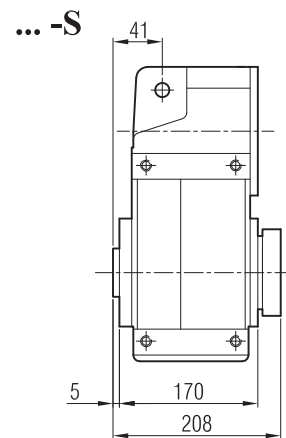
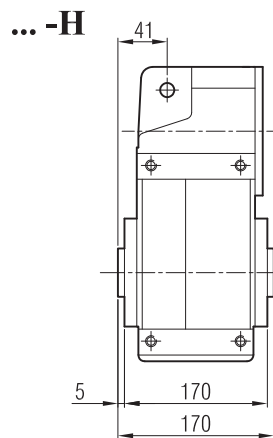
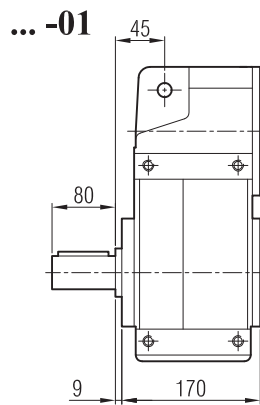
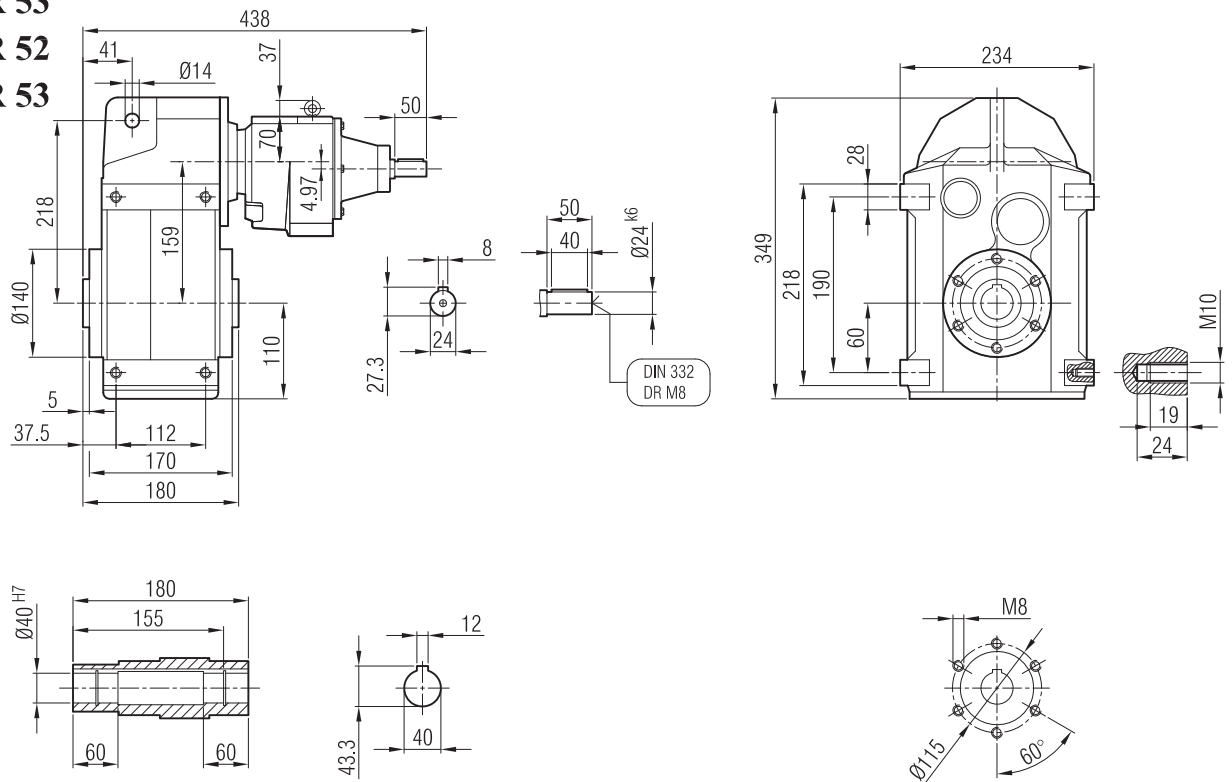


**YP 72 İR 52**

**YP 72 İR 53**

**YP 73 İR 52**

**YP 73 İR 53**



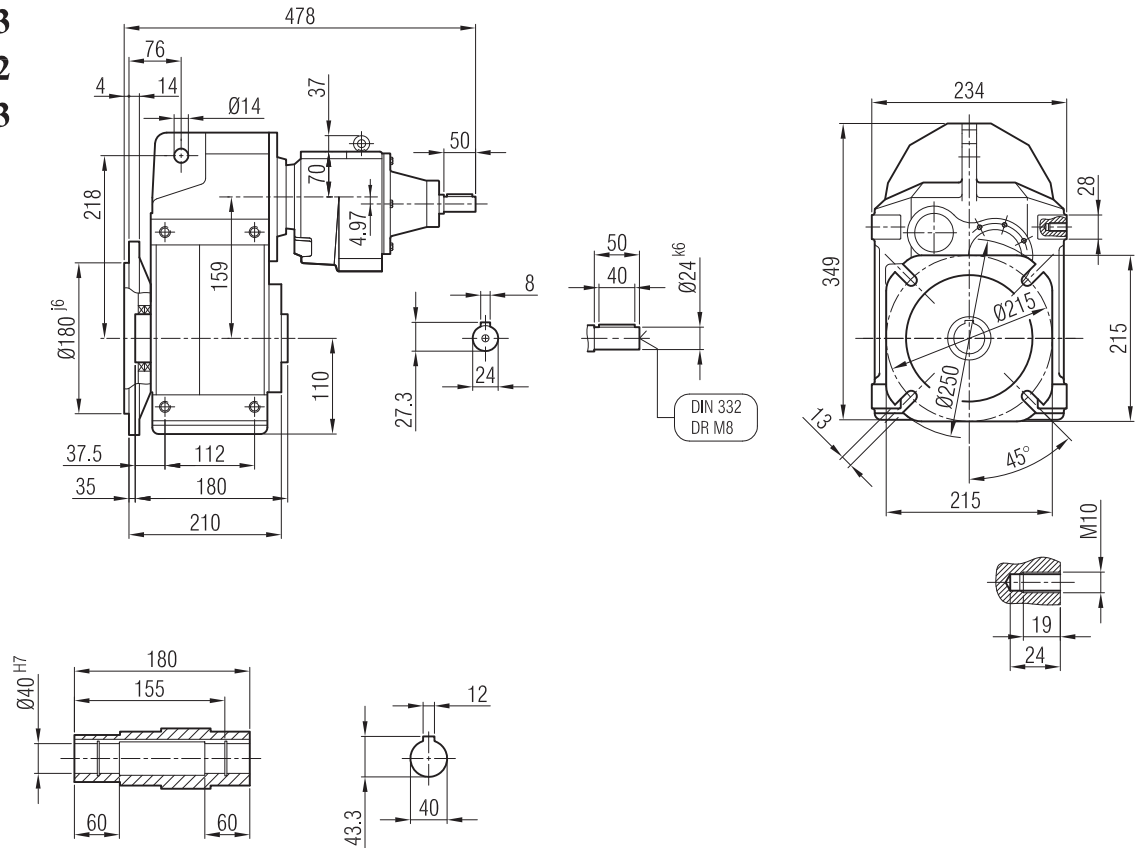


**YPF 72 İR 52**

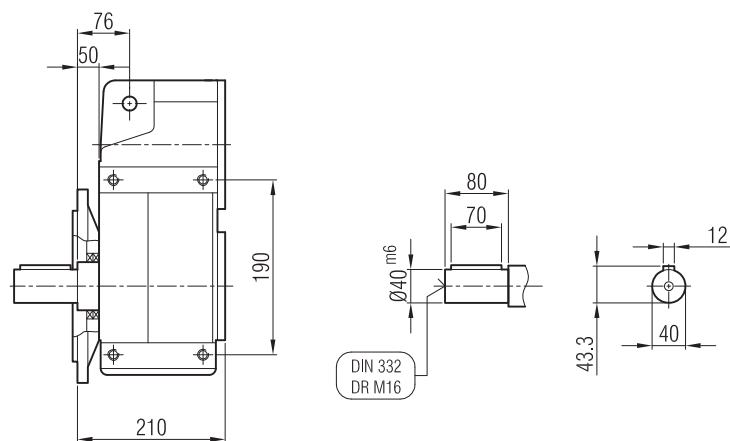
**YPF 72 İR 53**

**YPF 73 İR 52**

**YPF 73 İR 53**



**... -01**





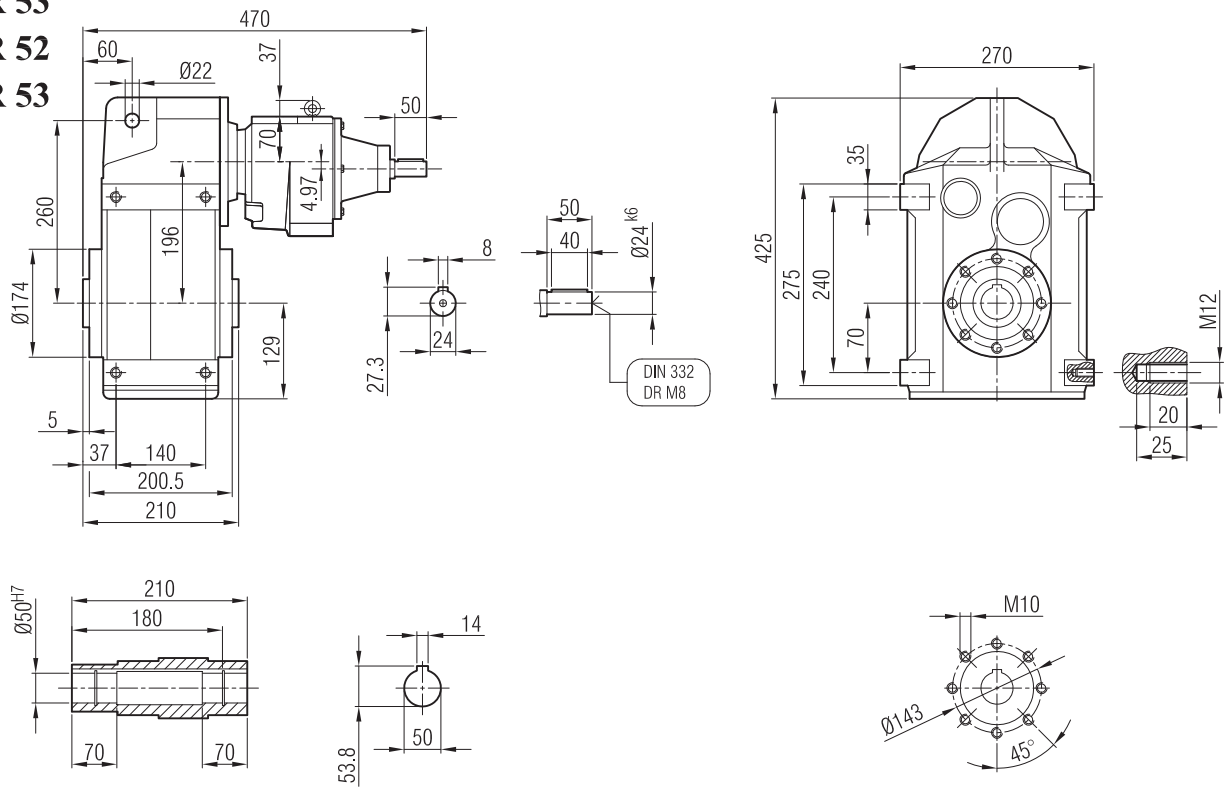


**YP 82 İR 52**

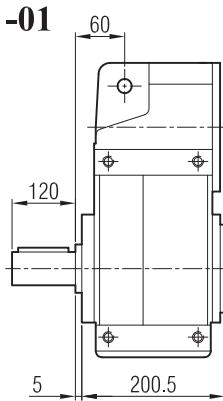
**YP 82 İR 53**

**YP 83 İR 52**

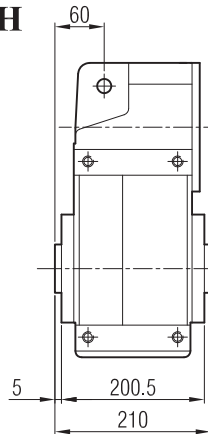
**YP 83 İR 53**



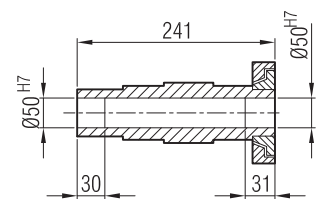
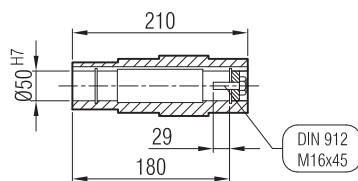
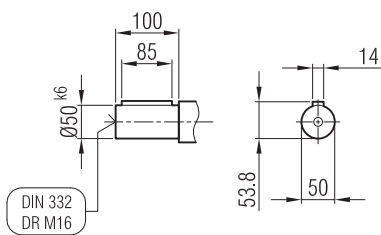
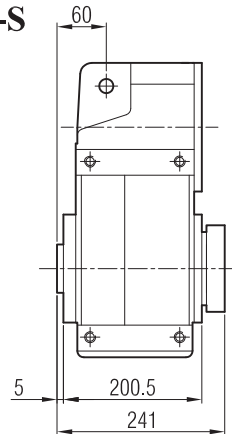
**... -01**



**... -H**



**... -S**



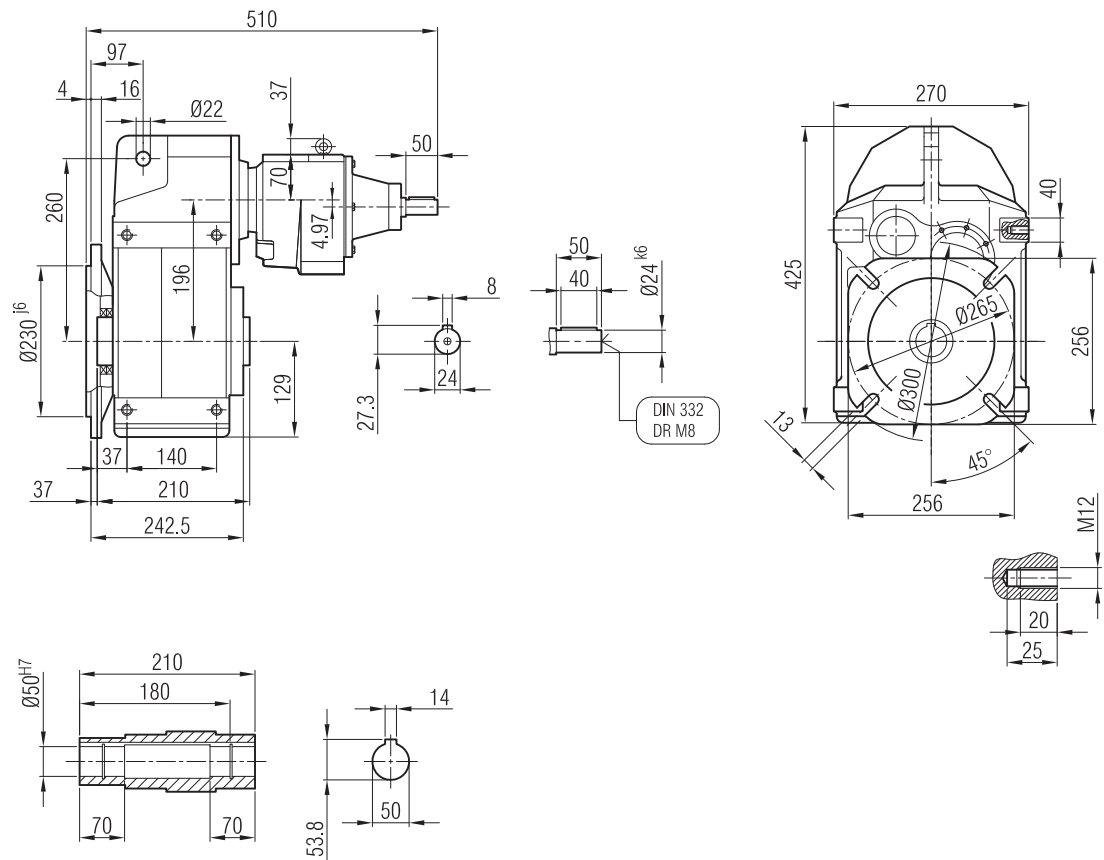


**YPF 82 İR 52**

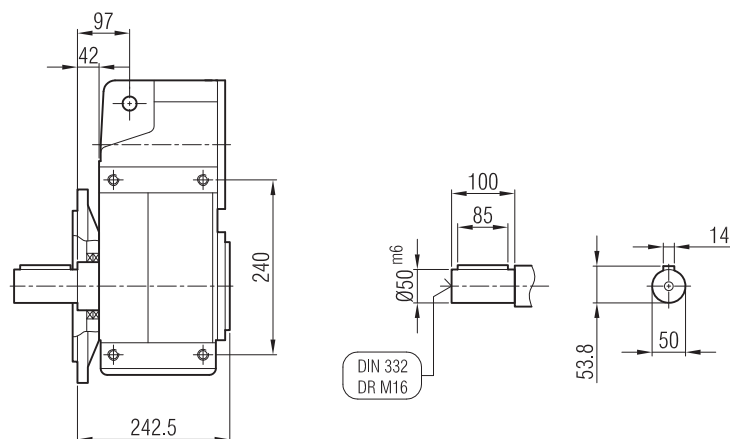
**YPF 82 İR 53**

**YPF 83 IR 52**

**YPF 83 IR 53**



...-01



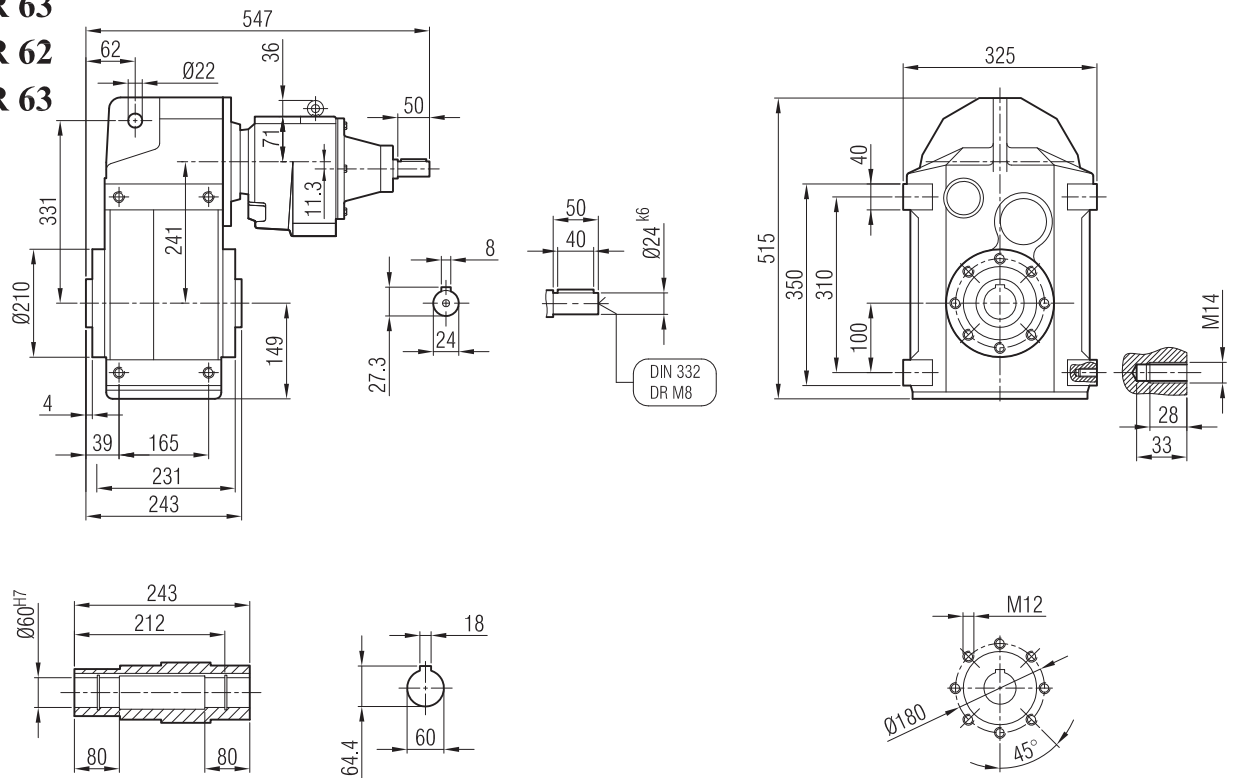


**YP 92 İR 62**

**YP 92 İR 63**

**YP 93 İR 62**

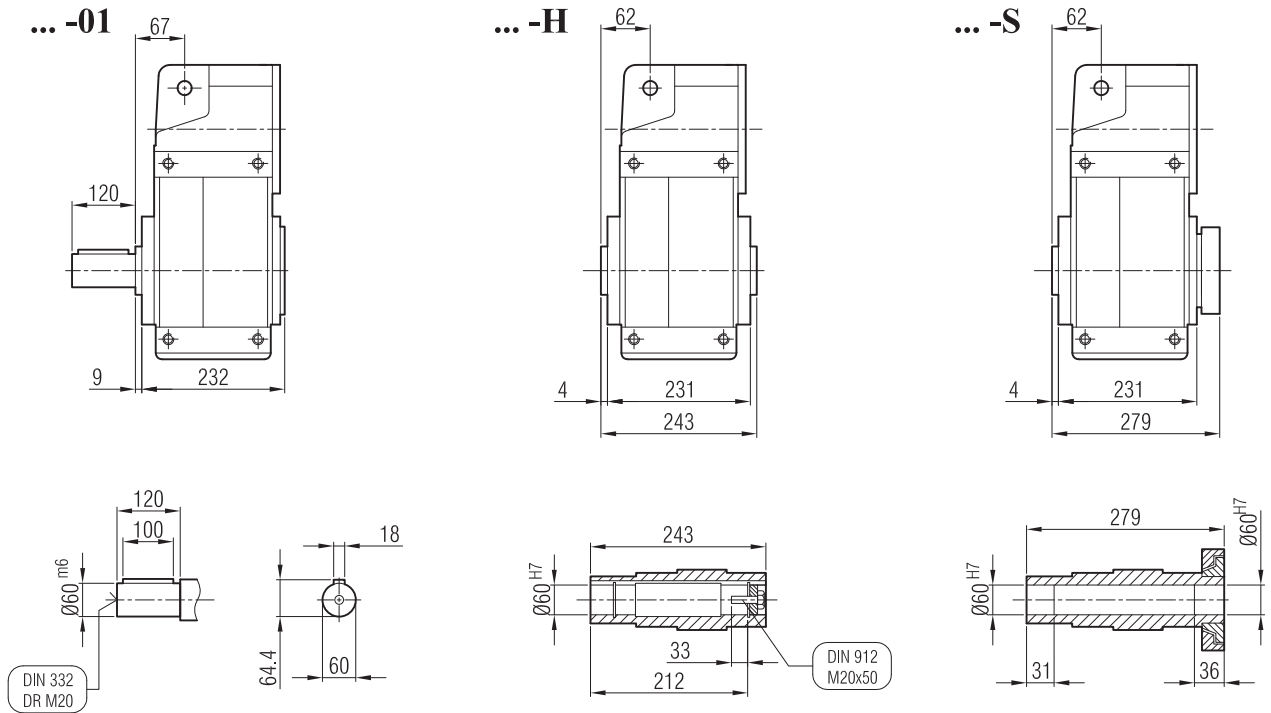
**YP 93 İR 63**



**... -01**

**... -H**

**... -S**



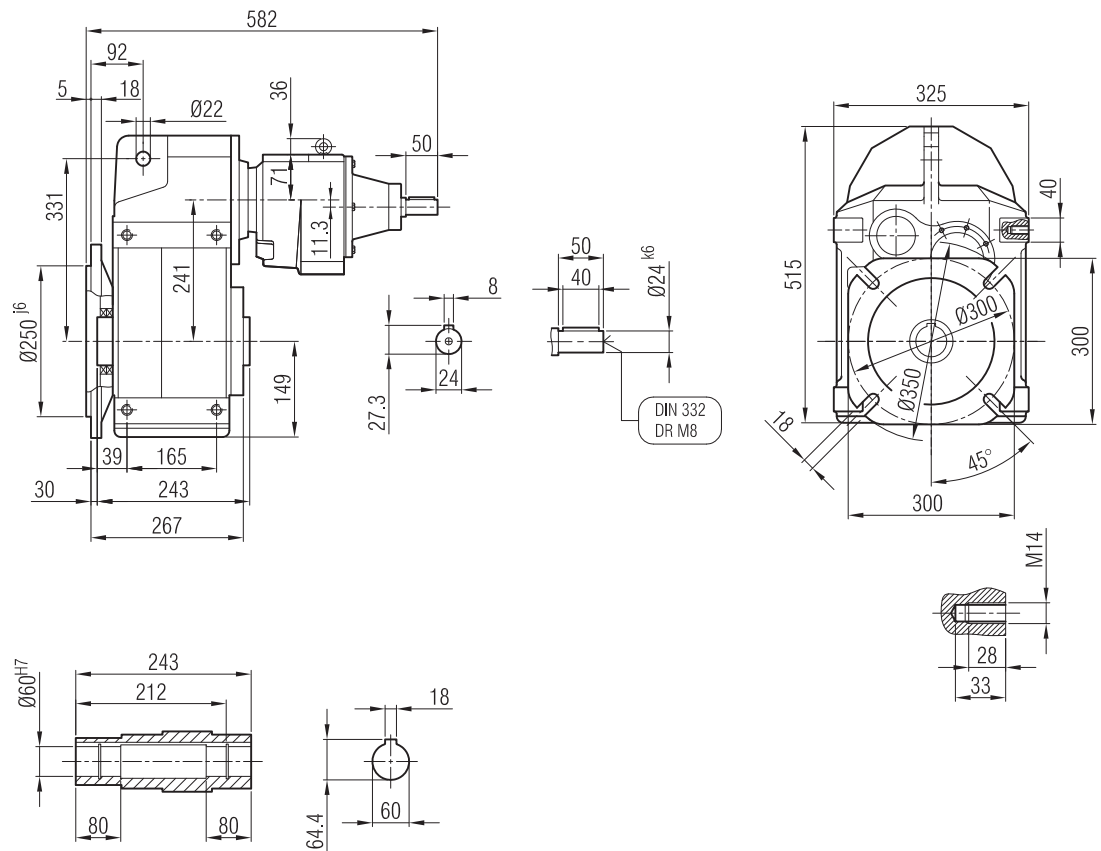


**YPF 92 İR 62**

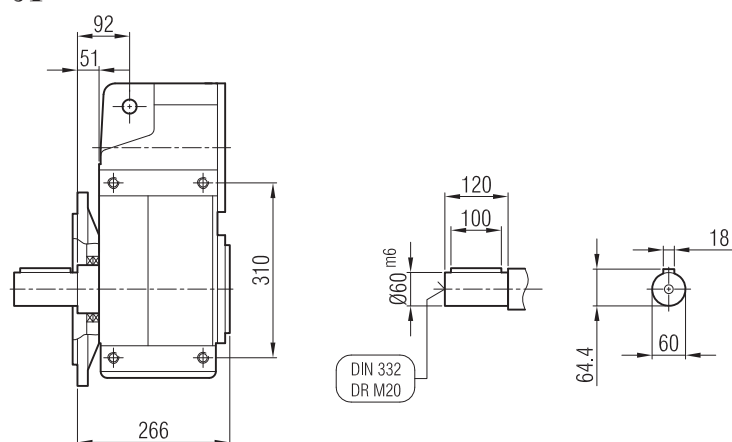
**YPF 92 İR 63**

**YPF 93 İR 62**

**YPF 93 İR 63**



**... -01**



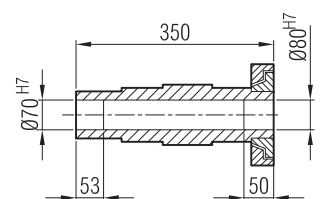
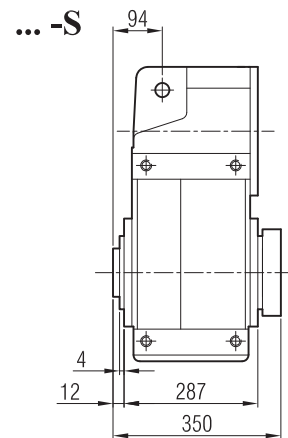
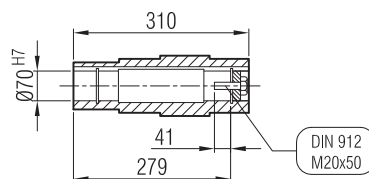
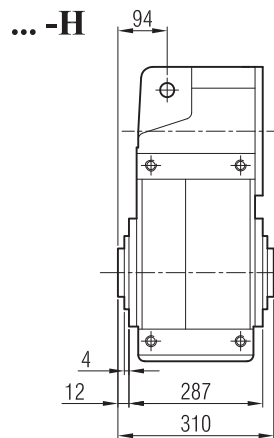
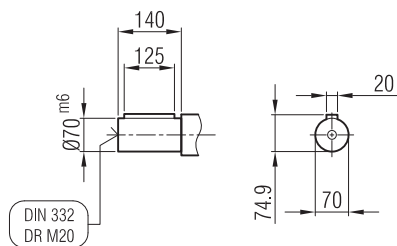
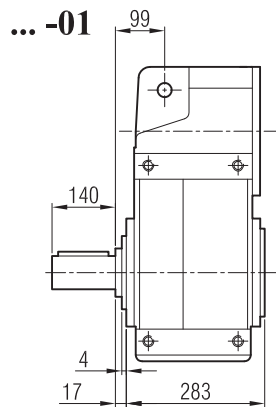
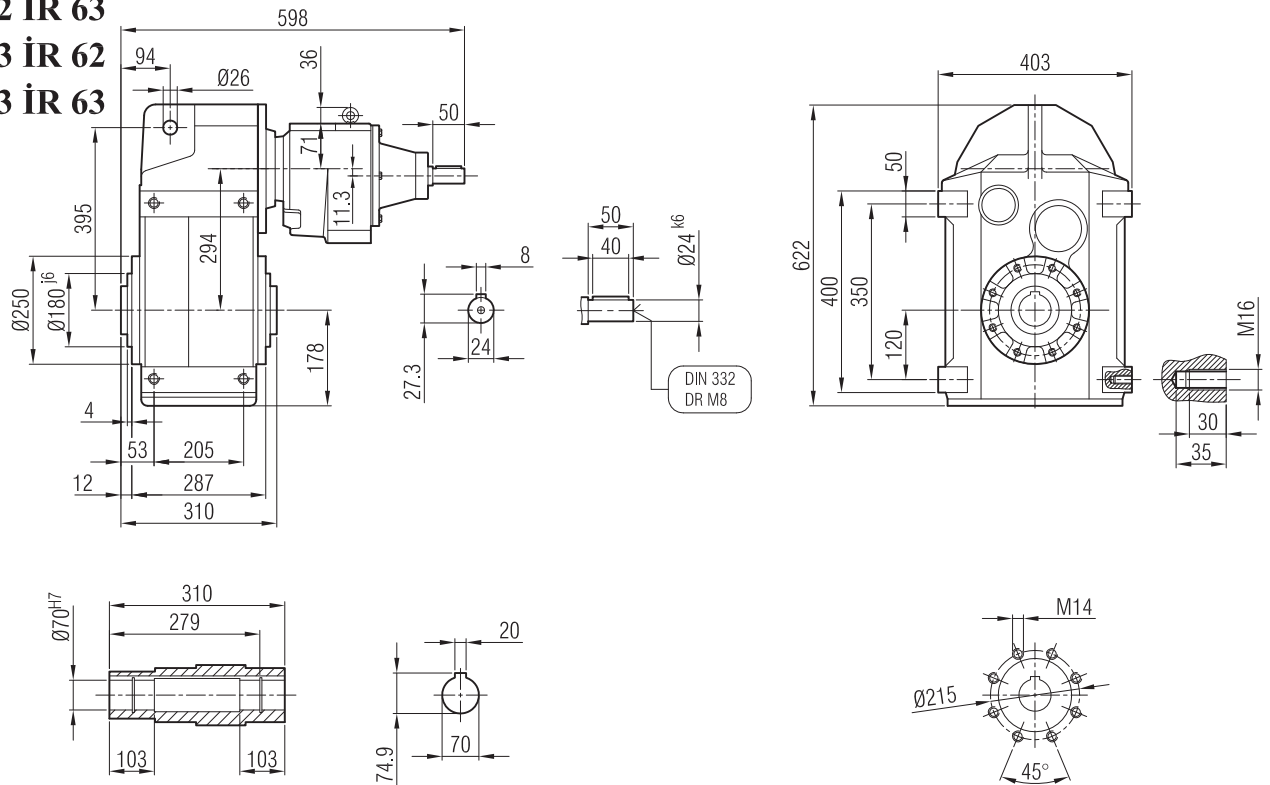


**YP 102 İR 62**

**YP 102 İR 63**

**YP 103 İR 62**

**YP 103 İR 63**



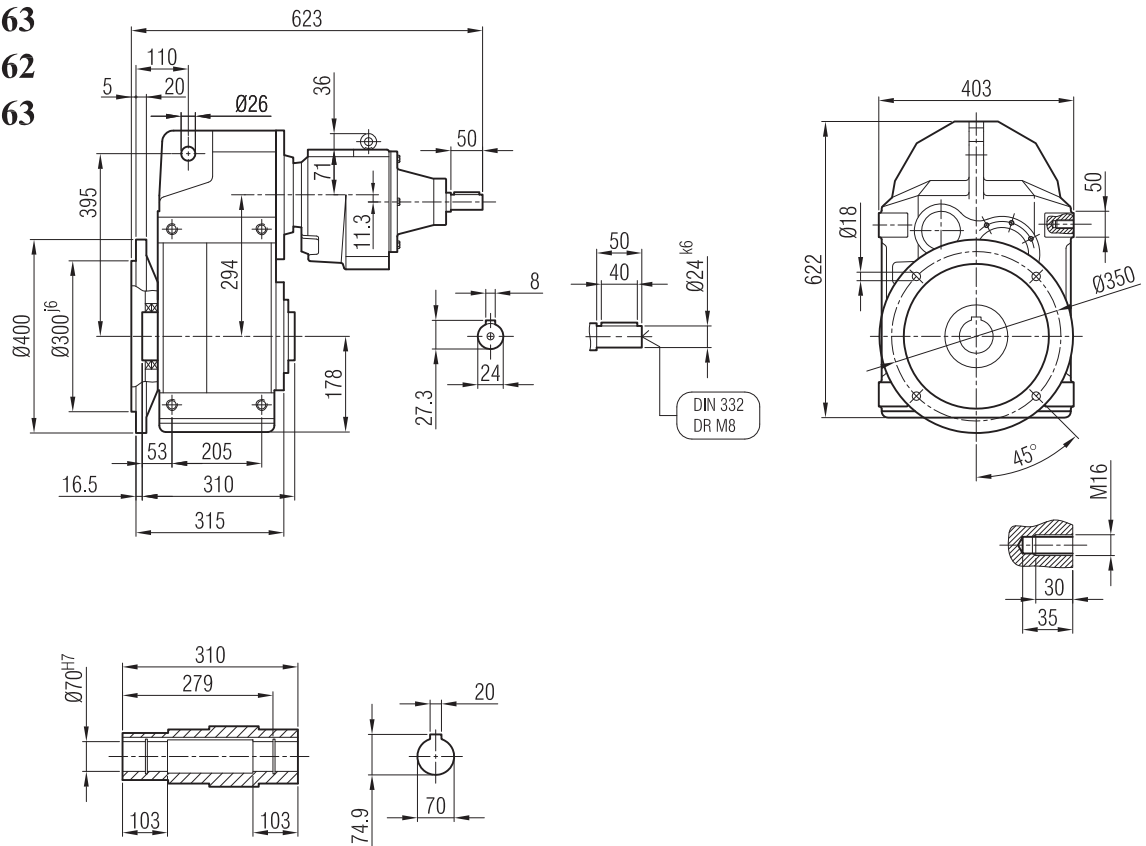


**YPF 102 İR 62**

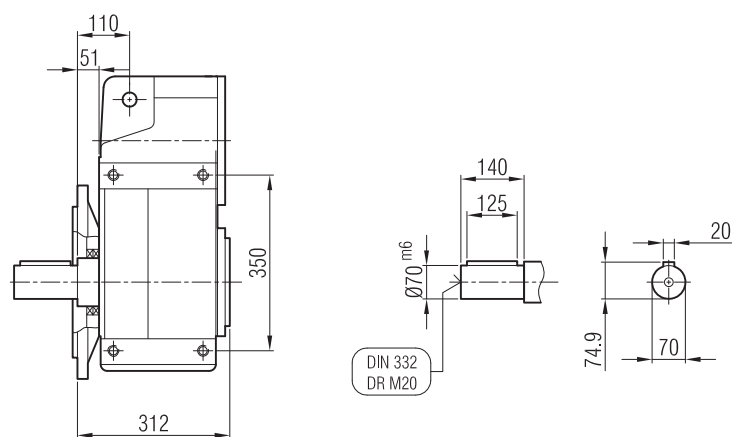
**YPF 102 İR 63**

**YPF 103 İR 62**

**YPF 103 İR 63**



...-01



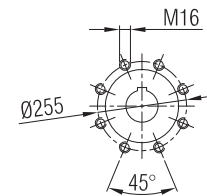
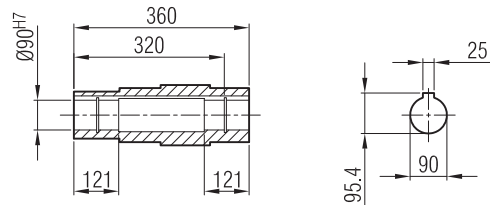
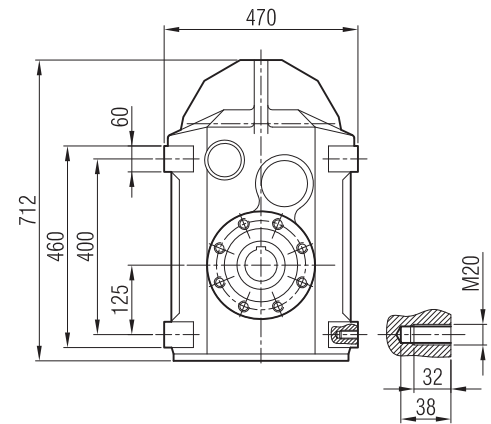
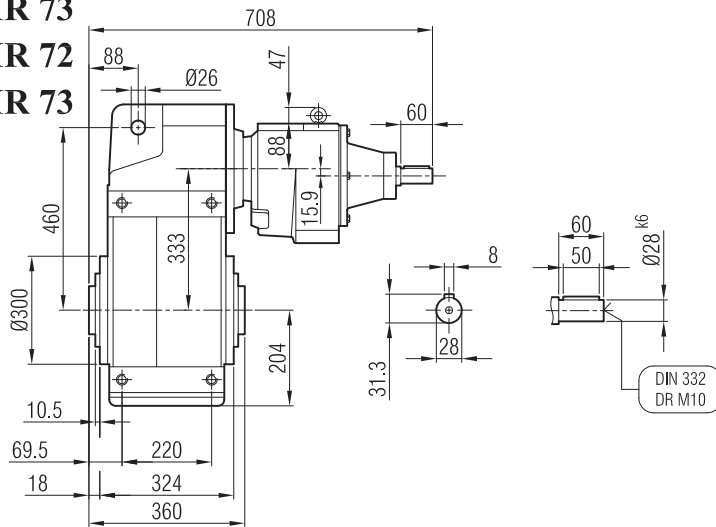


**YP 122 İR 72**

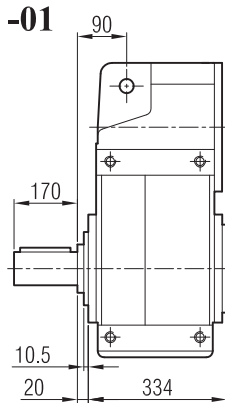
**YP 122 İR 73**

**YP 123 İR 72**

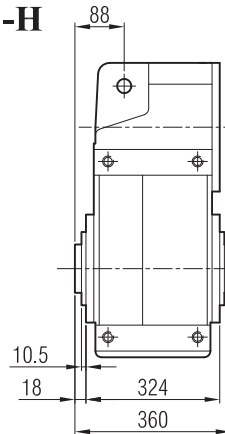
**YP 123 İR 73**



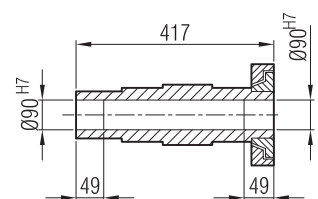
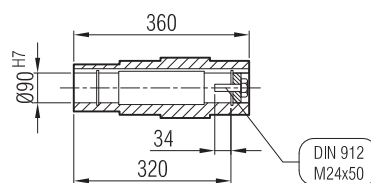
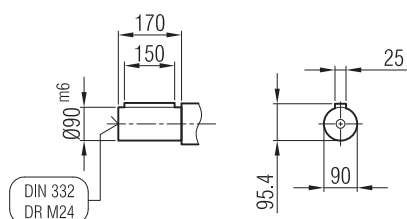
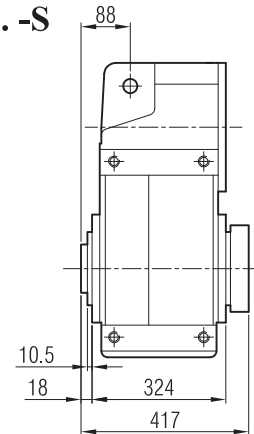
**... -01**



**... -H**



**... -S**



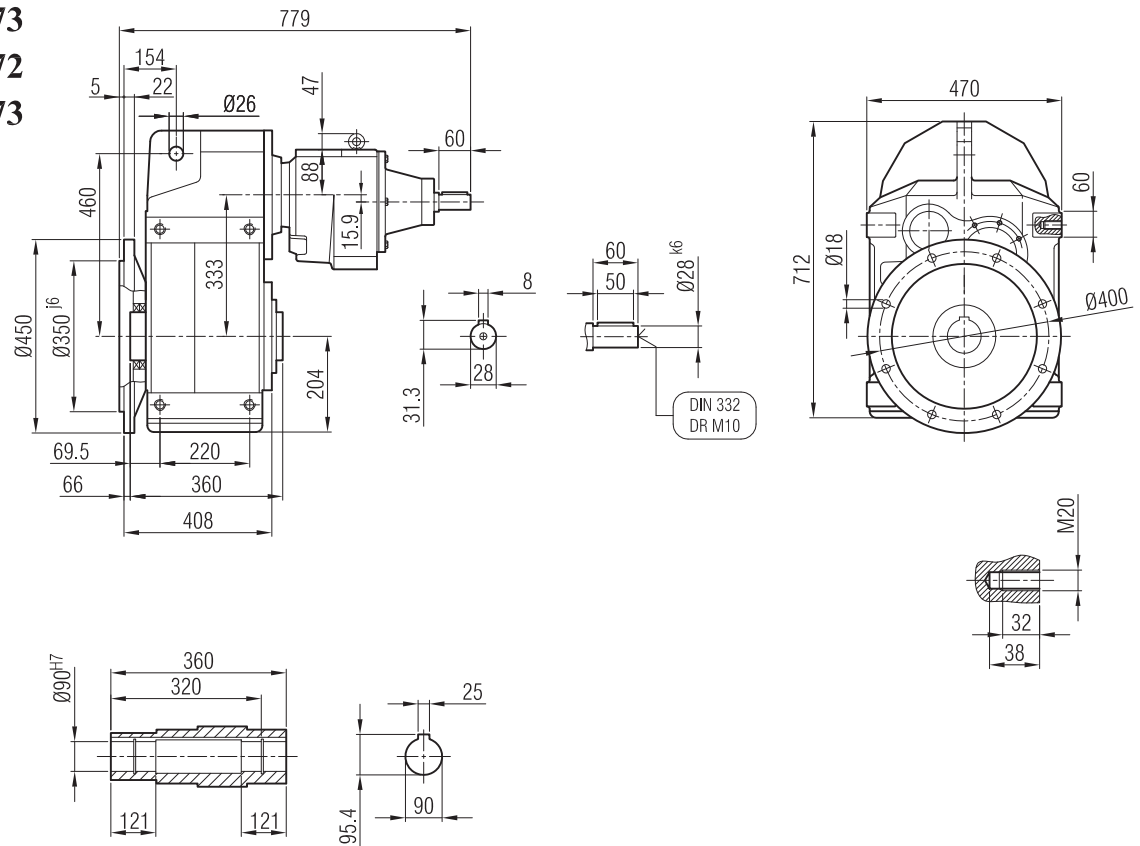


**YPF 122 İR 72**

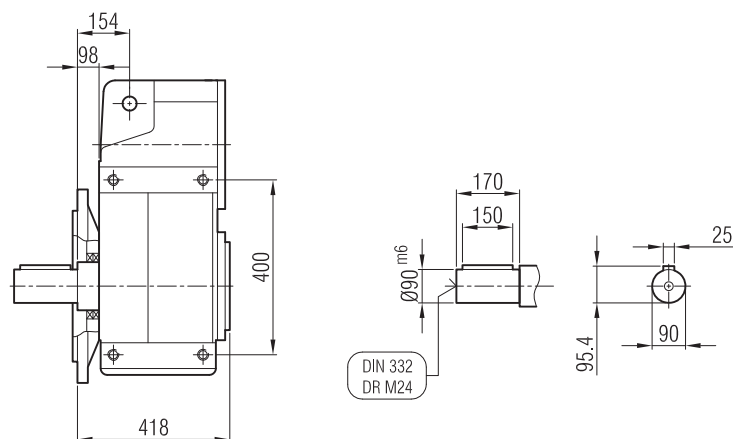
**YPF 122 İR 73**

**YPF 123 İR 72**

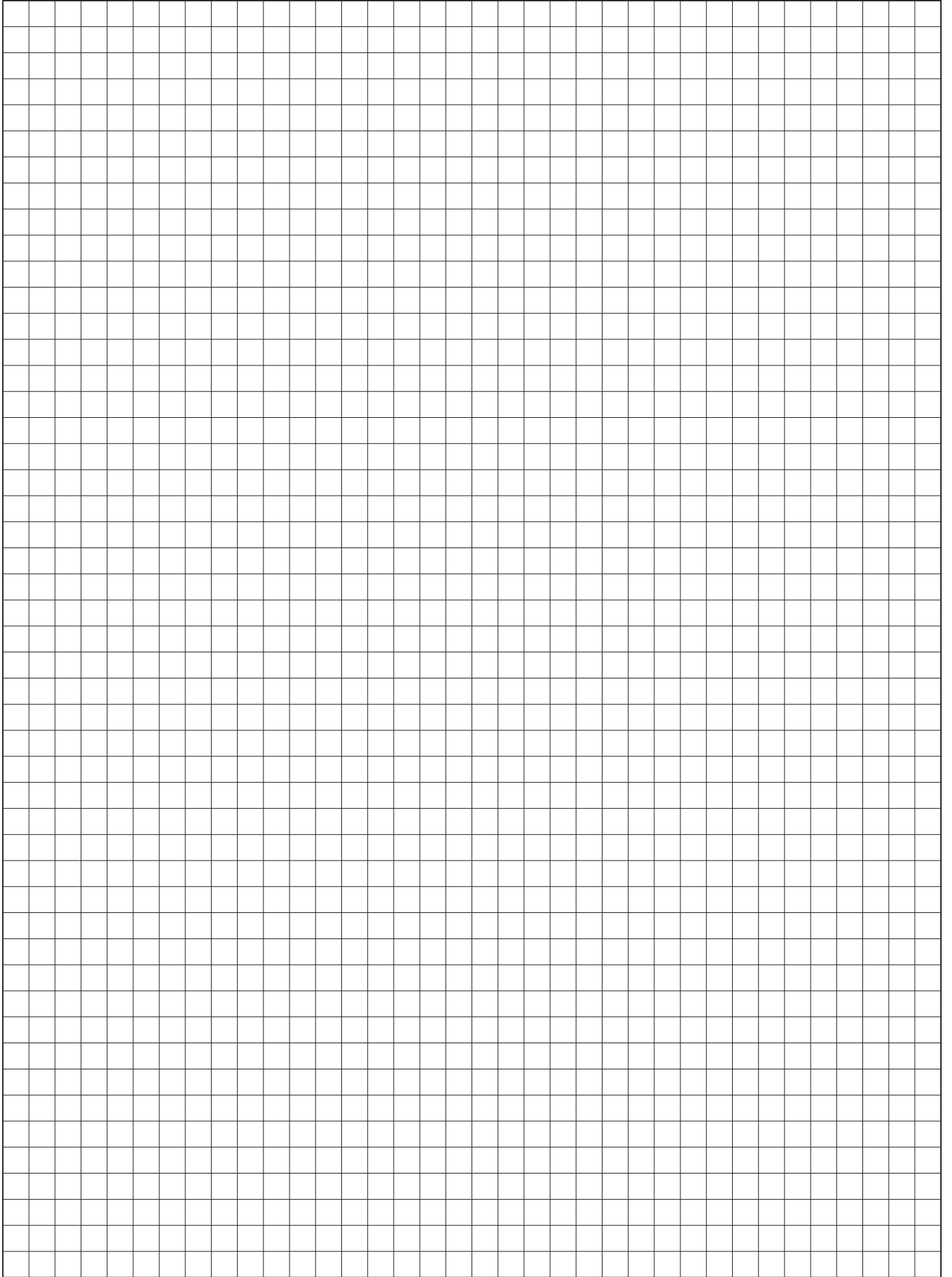
**YPF 123 İR 73**



**... -01**









**YPP ...**



**YPP ... - 01**



**YFPF ...**

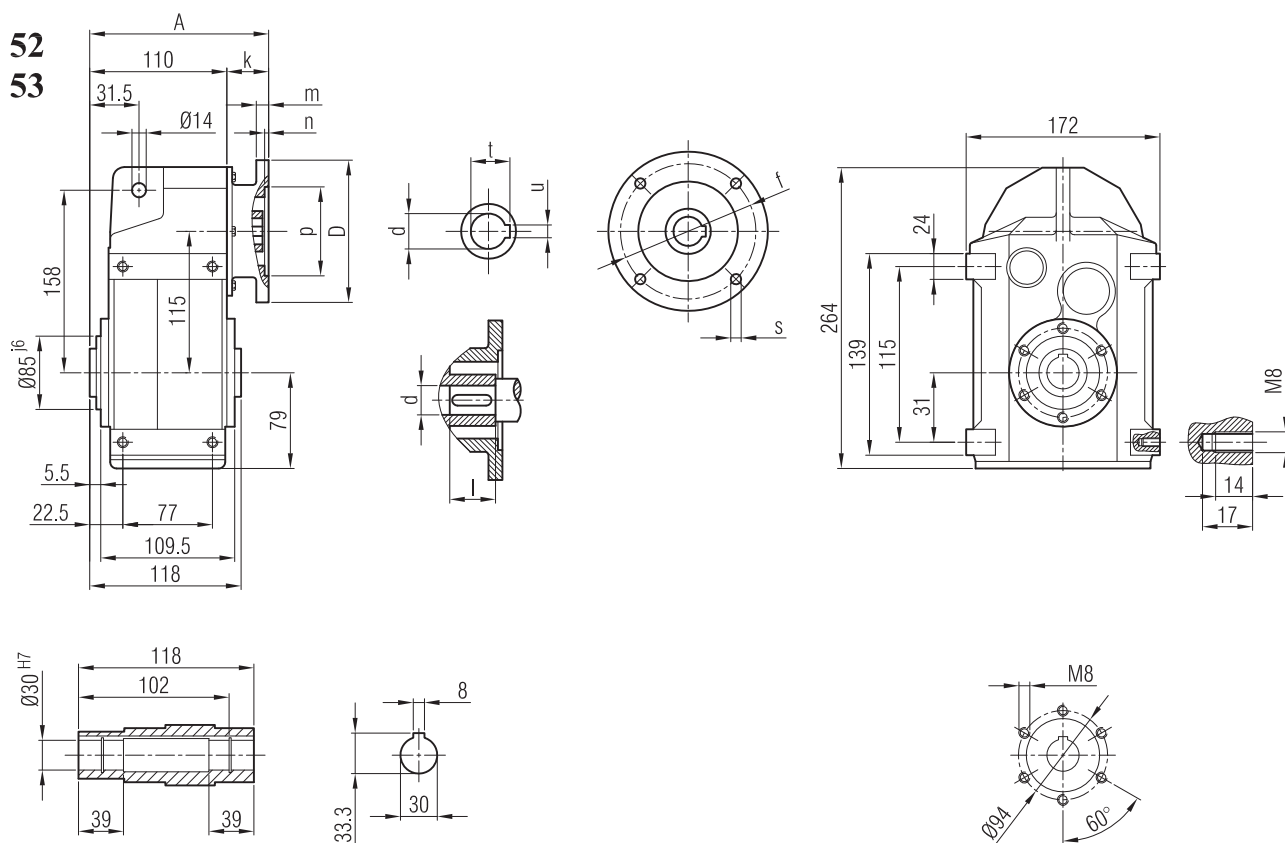


**YFPF ... - 01**

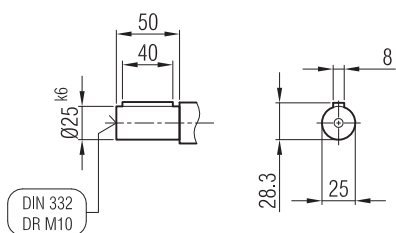
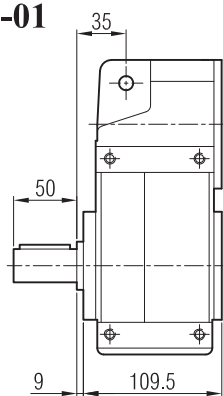


### YPP 52

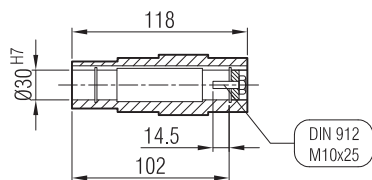
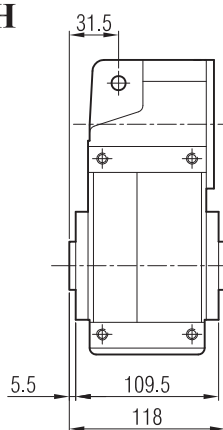
### YPP 53



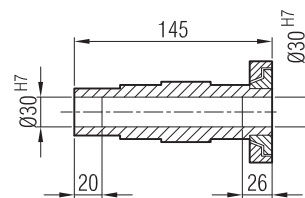
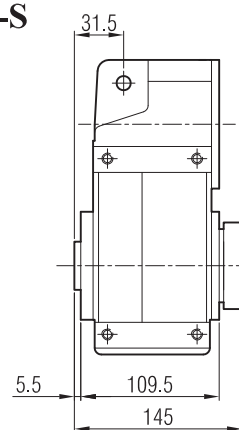
### ... -01



### ... -H



### ... -S



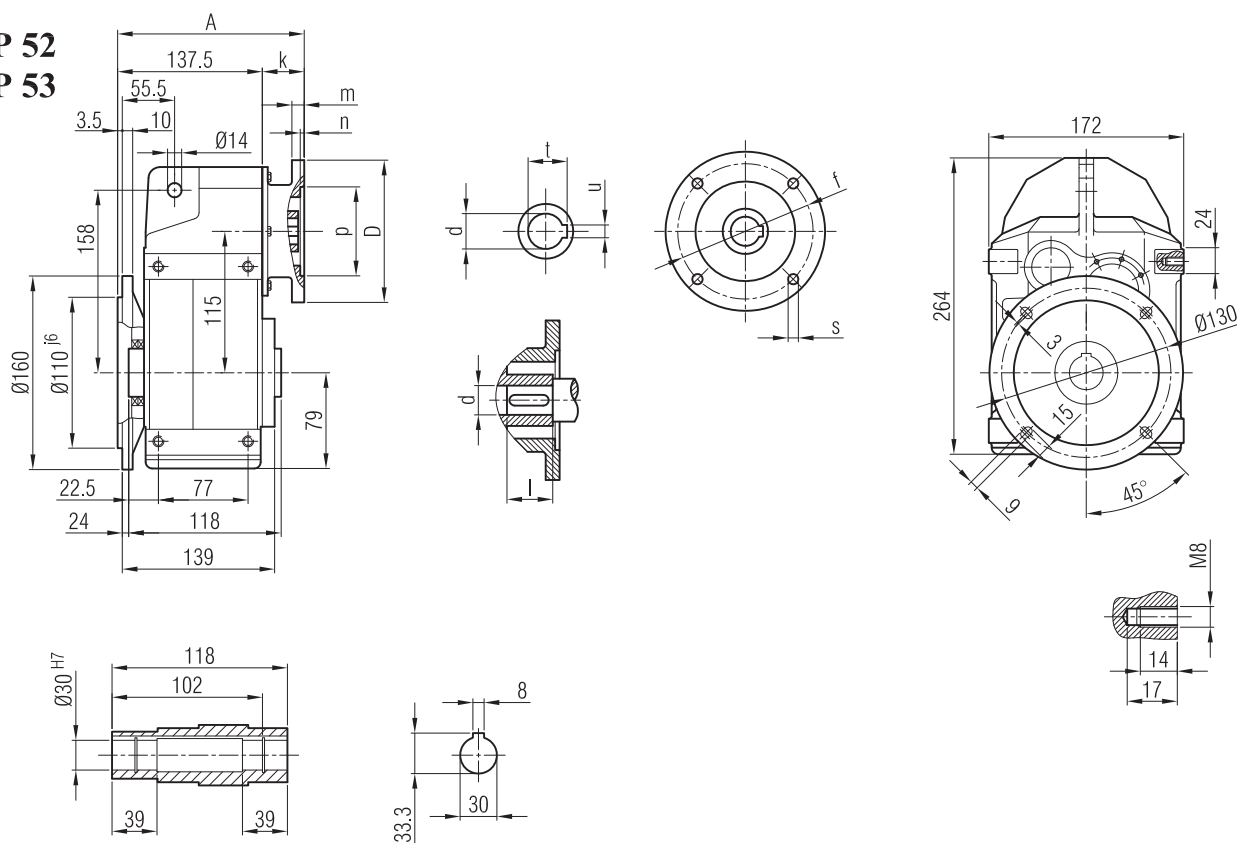
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|---|--|--|--|--|--|
| 63/B5  | 145.5 | 95  | 115 | 140 | M8  | 35.5 | 8  | 4 | 11 | 23 | 12.8 | 4 |  |  |  |  |  |
| 71/B5  | 154   | 110 | 130 | 160 | M8  | 44   | 9  | 4 | 14 | 30 | 16.3 | 5 |  |  |  |  |  |
| 80/B5  | 156   | 130 | 165 | 200 | M10 | 46   | 12 | 5 | 19 | 40 | 21.8 | 6 |  |  |  |  |  |
| 90/B5  | 156   | 130 | 165 | 200 | M10 | 46   | 12 | 5 | 24 | 50 | 27.3 | 8 |  |  |  |  |  |
| 100/B5 | 170   | 180 | 215 | 250 | M12 | 60   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |



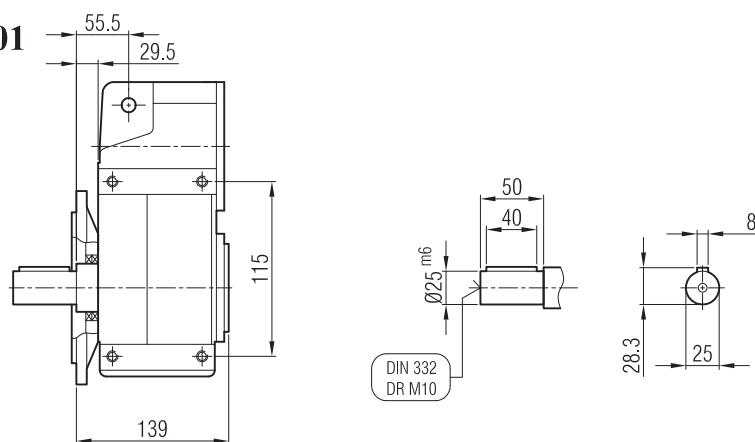


#### YPFP 52

#### YPFP 53



... -01



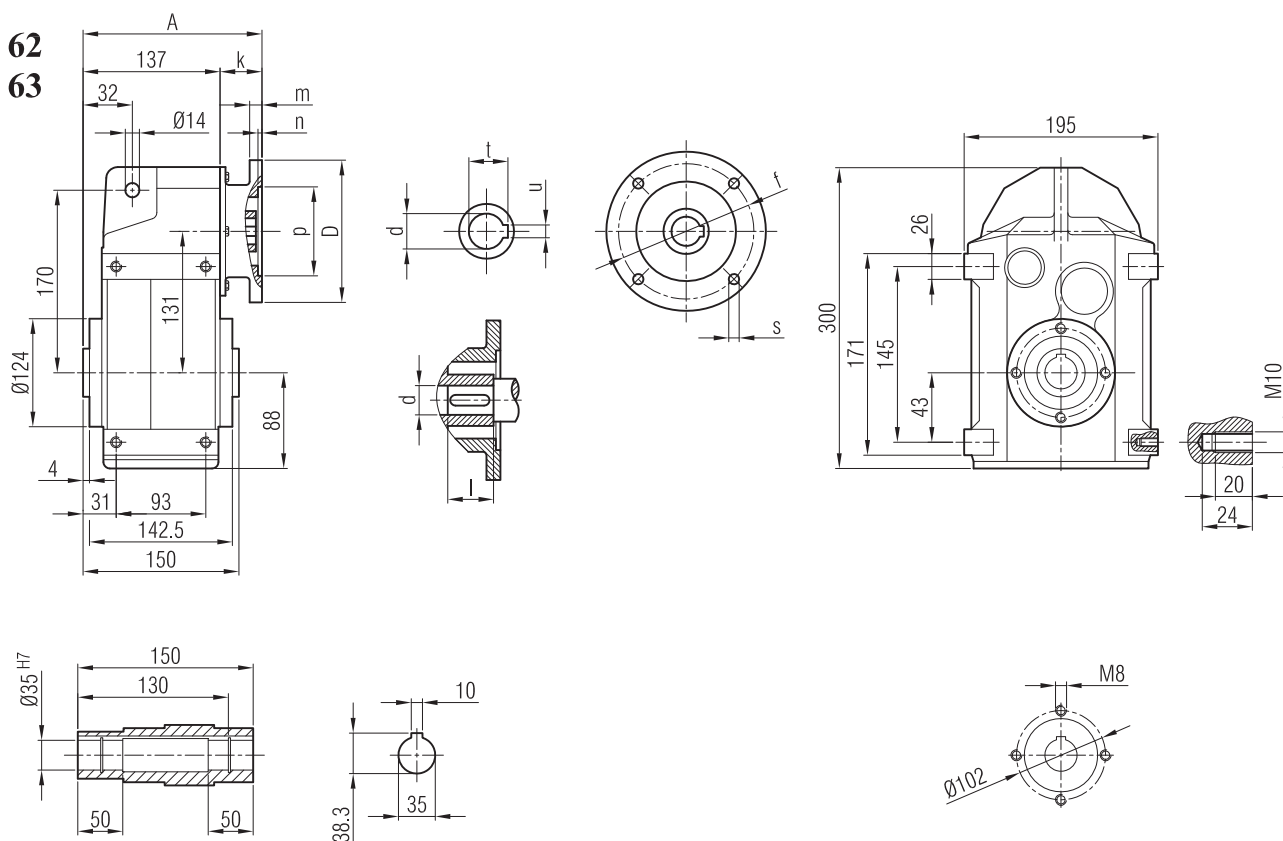
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|---|--|--|--|--|--|
| 63/B5  | 173   | 95  | 115 | 140 | M8  | 35.5 | 8  | 4 | 11 | 23 | 12.8 | 4 |  |  |  |  |  |
| 71/B5  | 181.5 | 110 | 130 | 160 | M8  | 44   | 9  | 4 | 14 | 30 | 16.3 | 5 |  |  |  |  |  |
| 80/B5  | 183.5 | 130 | 165 | 200 | M10 | 46   | 12 | 5 | 19 | 40 | 21.8 | 6 |  |  |  |  |  |
| 90/B5  | 183.5 | 130 | 165 | 200 | M10 | 46   | 12 | 5 | 24 | 50 | 27.3 | 8 |  |  |  |  |  |
| 100/B5 | 197.5 | 180 | 215 | 250 | M12 | 60   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |



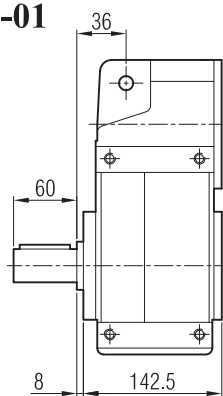


#### YPP 62

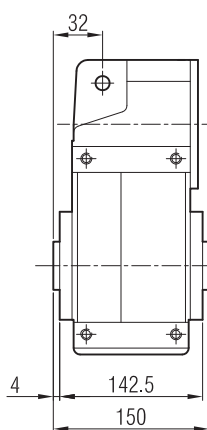
#### YPP 63



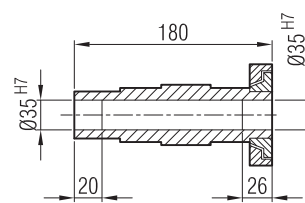
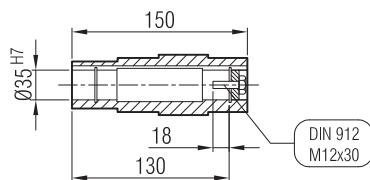
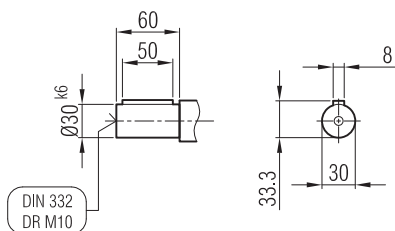
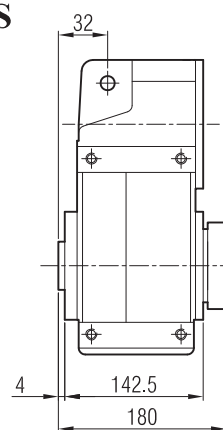
#### ... -01



#### ... -H



#### ... -S



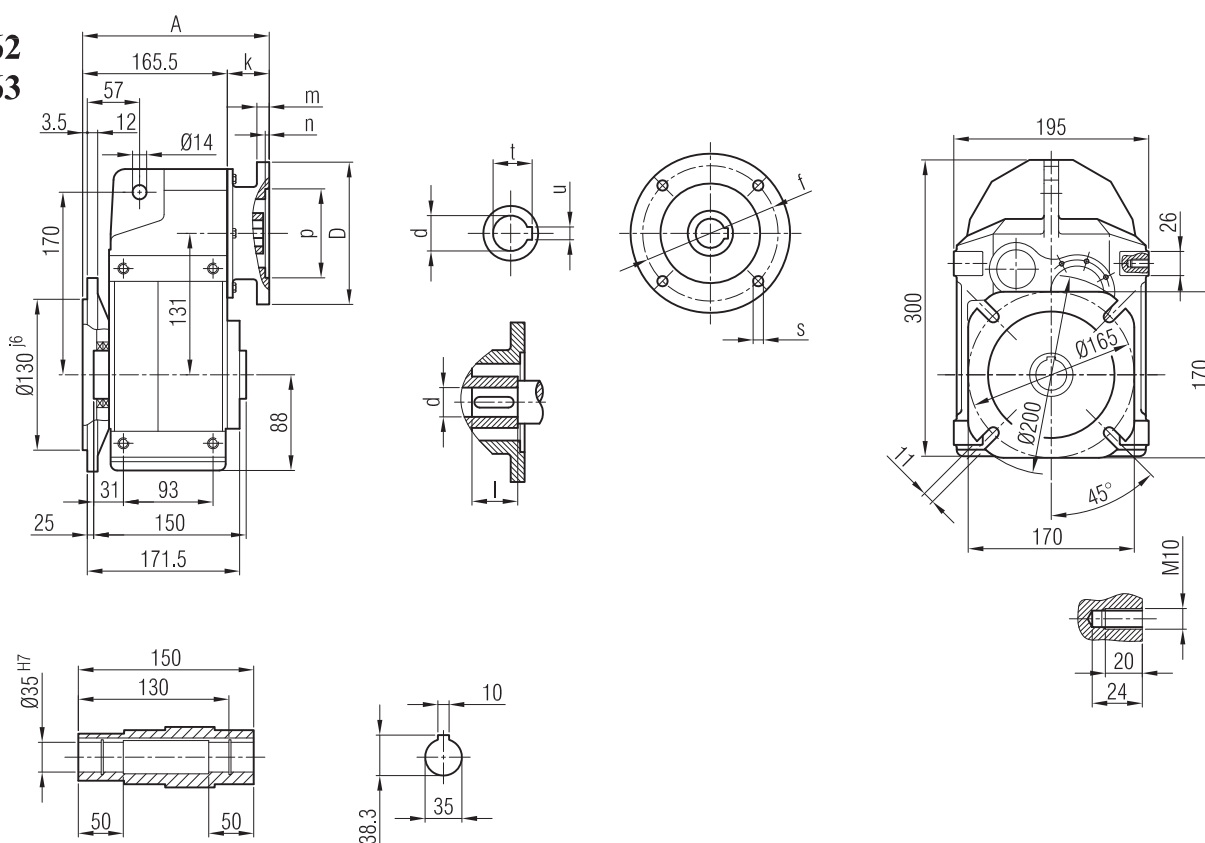
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|---|--|--|--|--|--|
| 63/B5  | 172.5 | 95  | 115 | 140 | M8  | 35.5 | 8  | 4 | 11 | 23 | 12.8 | 4 |  |  |  |  |  |
| 71/B5  | 182   | 110 | 130 | 160 | M8  | 45   | 9  | 4 | 14 | 30 | 16.3 | 5 |  |  |  |  |  |
| 80/B5  | 187   | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 19 | 40 | 21.8 | 6 |  |  |  |  |  |
| 90/B5  | 187   | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 24 | 50 | 27.3 | 8 |  |  |  |  |  |
| 100/B5 | 200   | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |
| 112/B5 | 200   | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |



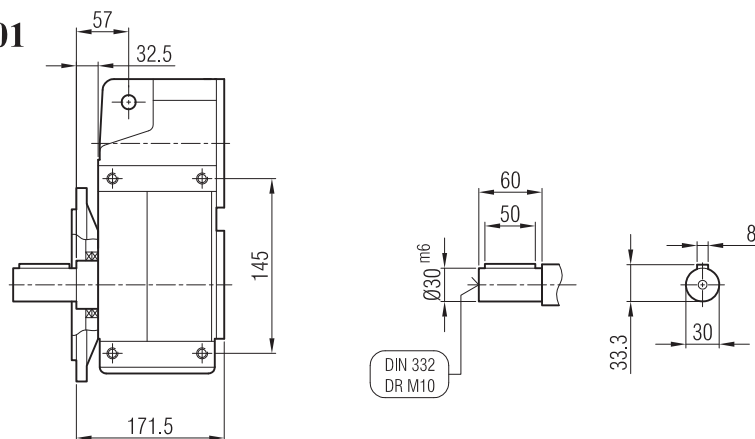


#### YPFP 62

#### YPFP 63



#### ... -01



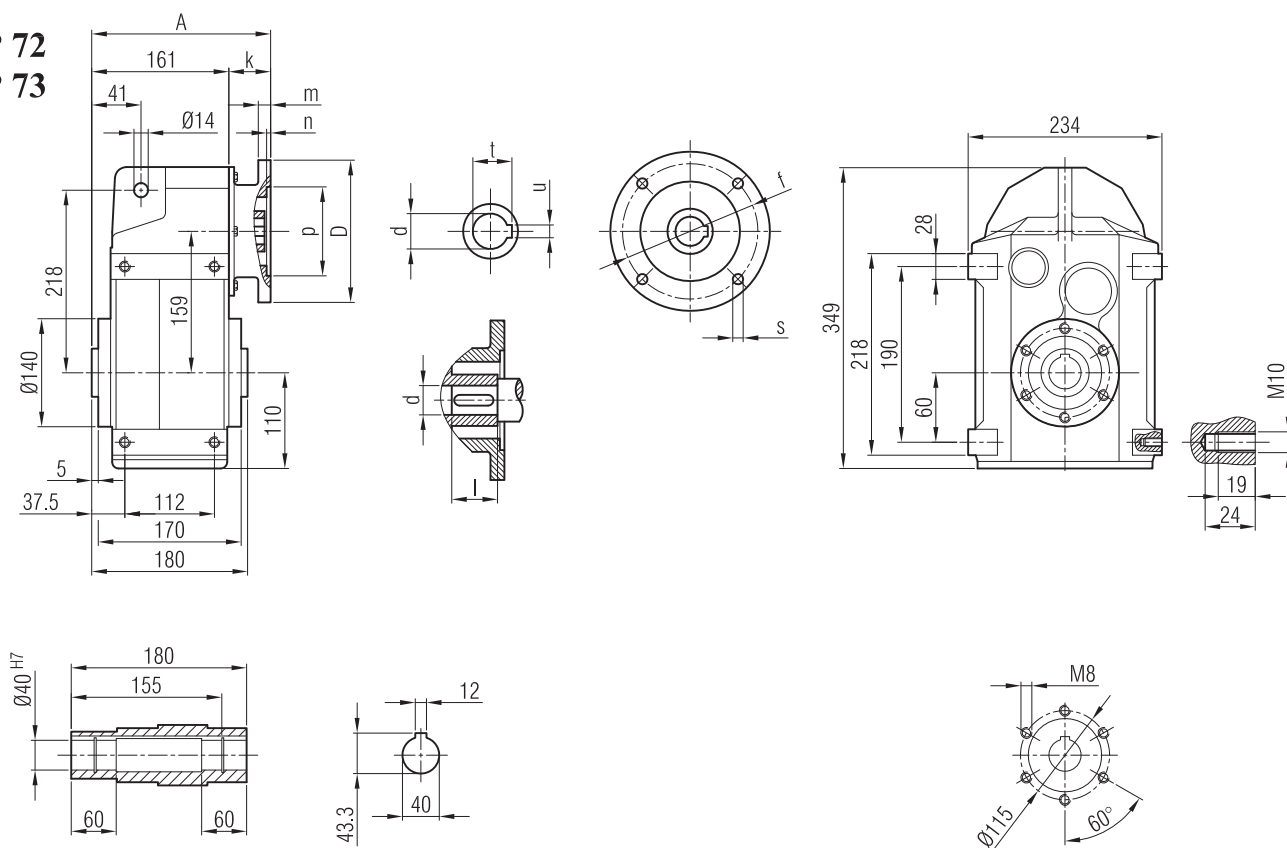
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|---|--|--|--|--|--|
| 63/B5  | 201   | 95  | 115 | 140 | M8  | 35.5 | 8  | 4 | 11 | 23 | 12.8 | 4 |  |  |  |  |  |
| 71/B5  | 210.5 | 110 | 130 | 160 | M8  | 45   | 9  | 4 | 14 | 30 | 16.3 | 5 |  |  |  |  |  |
| 80/B5  | 215.5 | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 19 | 40 | 21.8 | 6 |  |  |  |  |  |
| 90/B5  | 215.5 | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 24 | 50 | 27.3 | 8 |  |  |  |  |  |
| 100/B5 | 228.5 | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |
| 112/B5 | 228.5 | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8 |  |  |  |  |  |



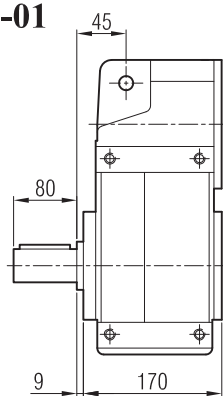


#### YPP 72

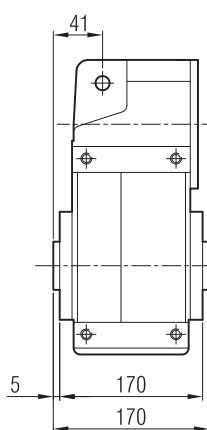
#### YPP 73



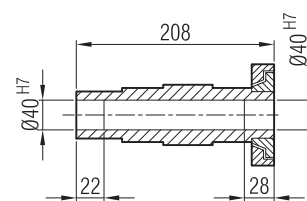
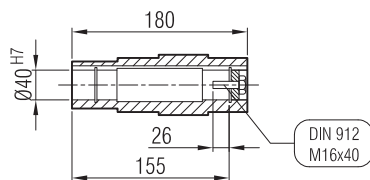
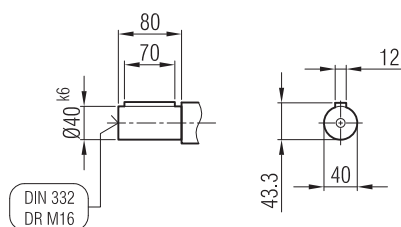
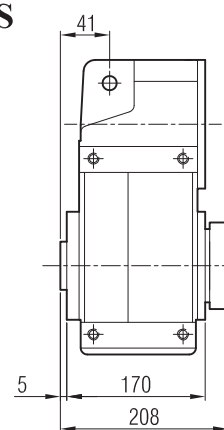
#### ... -01



#### ... -H



#### ... -S



|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u  |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|----|--|--|--|--|--|
| 63/B5  | 196.5 | 95  | 115 | 140 | M8  | 35.5 | 8  | 4 | 11 | 23 | 12.8 | 4  |  |  |  |  |  |
| 71/B5  | 206   | 110 | 130 | 160 | M8  | 45   | 9  | 4 | 14 | 30 | 16.3 | 5  |  |  |  |  |  |
| 80/B5  | 211   | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 19 | 40 | 21.8 | 6  |  |  |  |  |  |
| 90/B5  | 211   | 130 | 165 | 200 | M10 | 50   | 12 | 5 | 24 | 50 | 27.3 | 8  |  |  |  |  |  |
| 100/B5 | 224   | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 224   | 180 | 215 | 250 | M12 | 63   | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 240   | 230 | 265 | 300 | M12 | 79   | 17 | 5 | 38 | 80 | 41.3 | 10 |  |  |  |  |  |



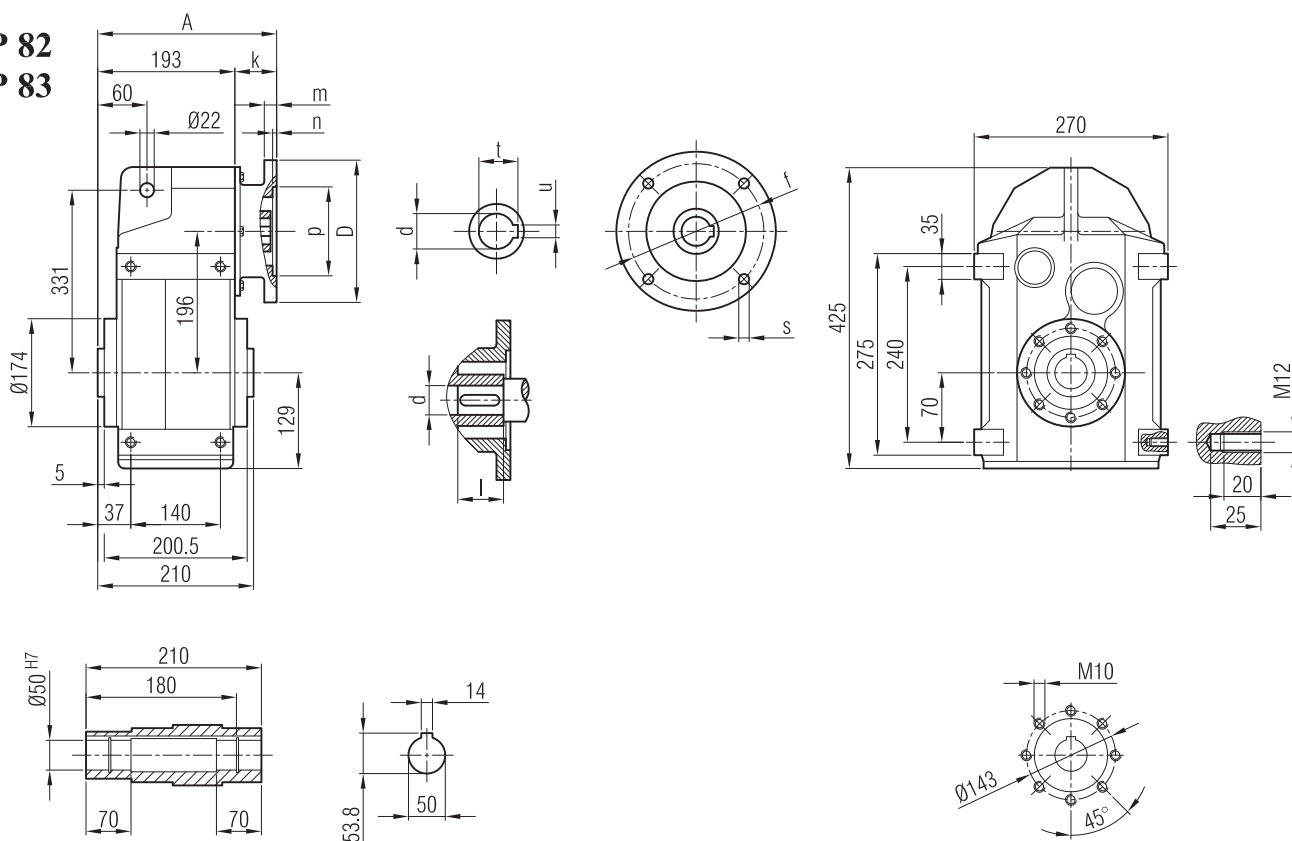




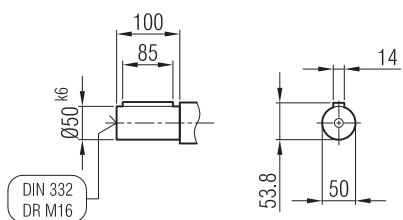
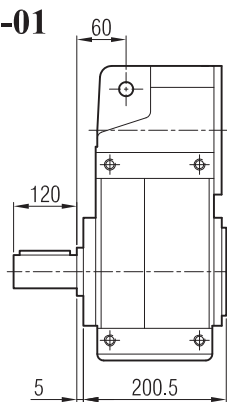


#### YPP 82

#### YPP 83

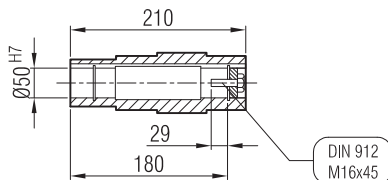
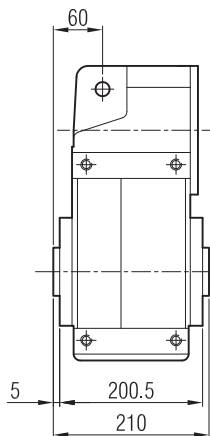


#### ... -01



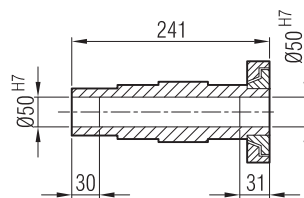
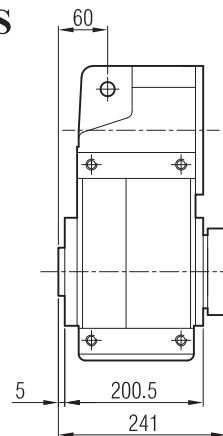
DIN 332  
DR M16

#### ... -H



DIN 912  
M16x45

#### ... -S



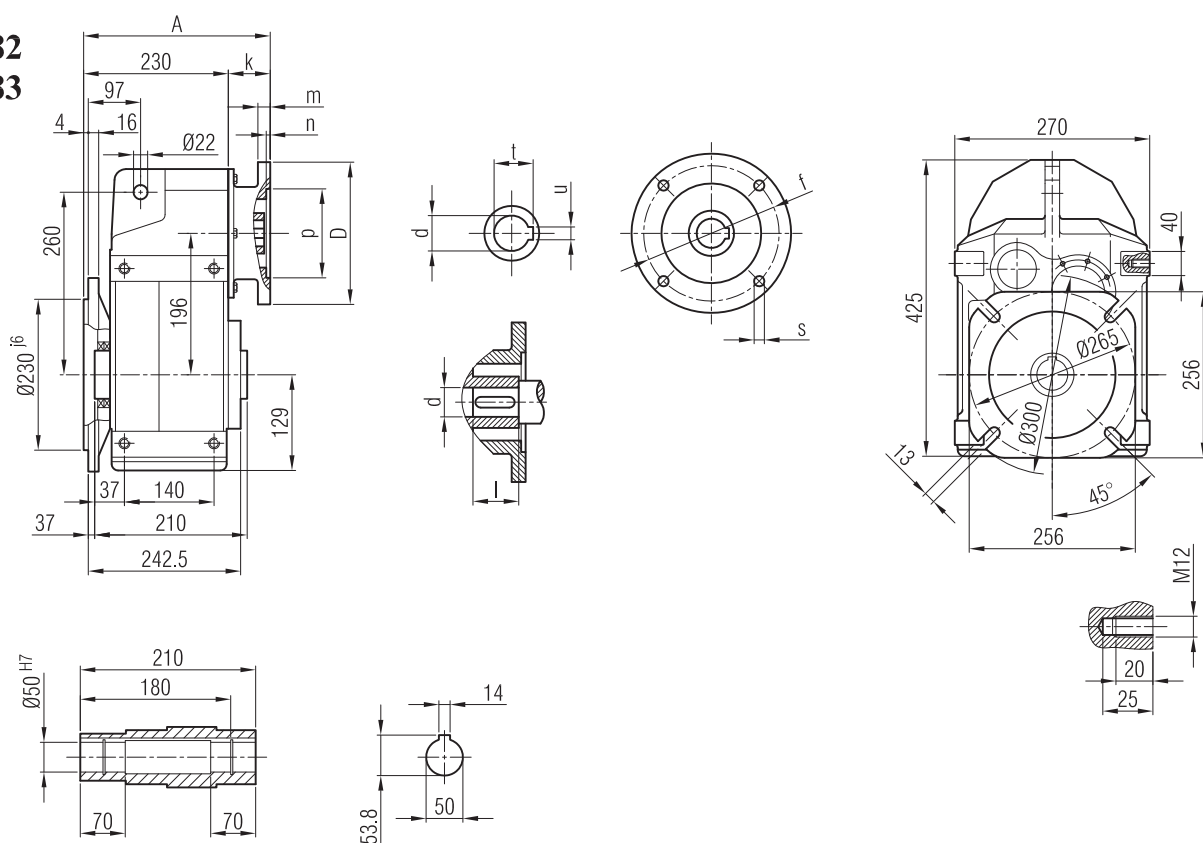
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u  |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|----|--|--|--|--|--|
| 71/B5  | 247.5 | 110 | 130 | 160 | M8  | 55   | 10 | 4 | 14 | 30 | 16.3 | 5  |  |  |  |  |  |
| 80/B5  | 259.5 | 130 | 165 | 200 | M10 | 67   | 12 | 5 | 19 | 40 | 21.8 | 6  |  |  |  |  |  |
| 90/B5  | 259.5 | 130 | 165 | 200 | M10 | 67   | 12 | 5 | 24 | 50 | 27.3 | 8  |  |  |  |  |  |
| 100/B5 | 264.5 | 180 | 215 | 250 | M12 | 71.5 | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 264   | 180 | 215 | 250 | M12 | 71.5 | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 288   | 230 | 265 | 300 | M12 | 95.5 | 17 | 5 | 38 | 80 | 41.3 | 10 |  |  |  |  |  |



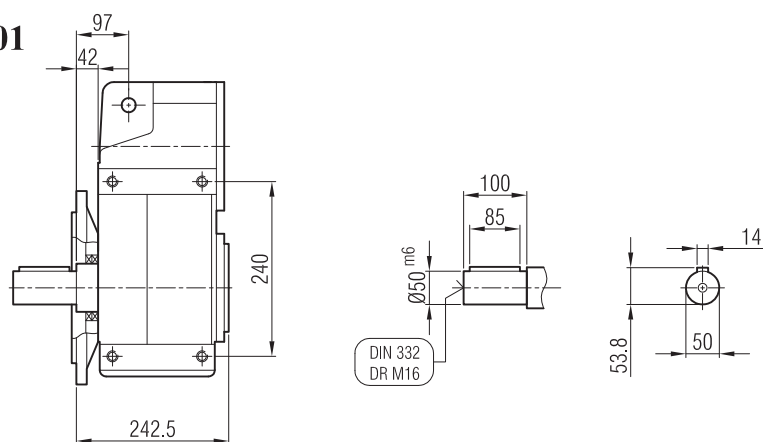


#### YPFP 82

#### YPFP 83



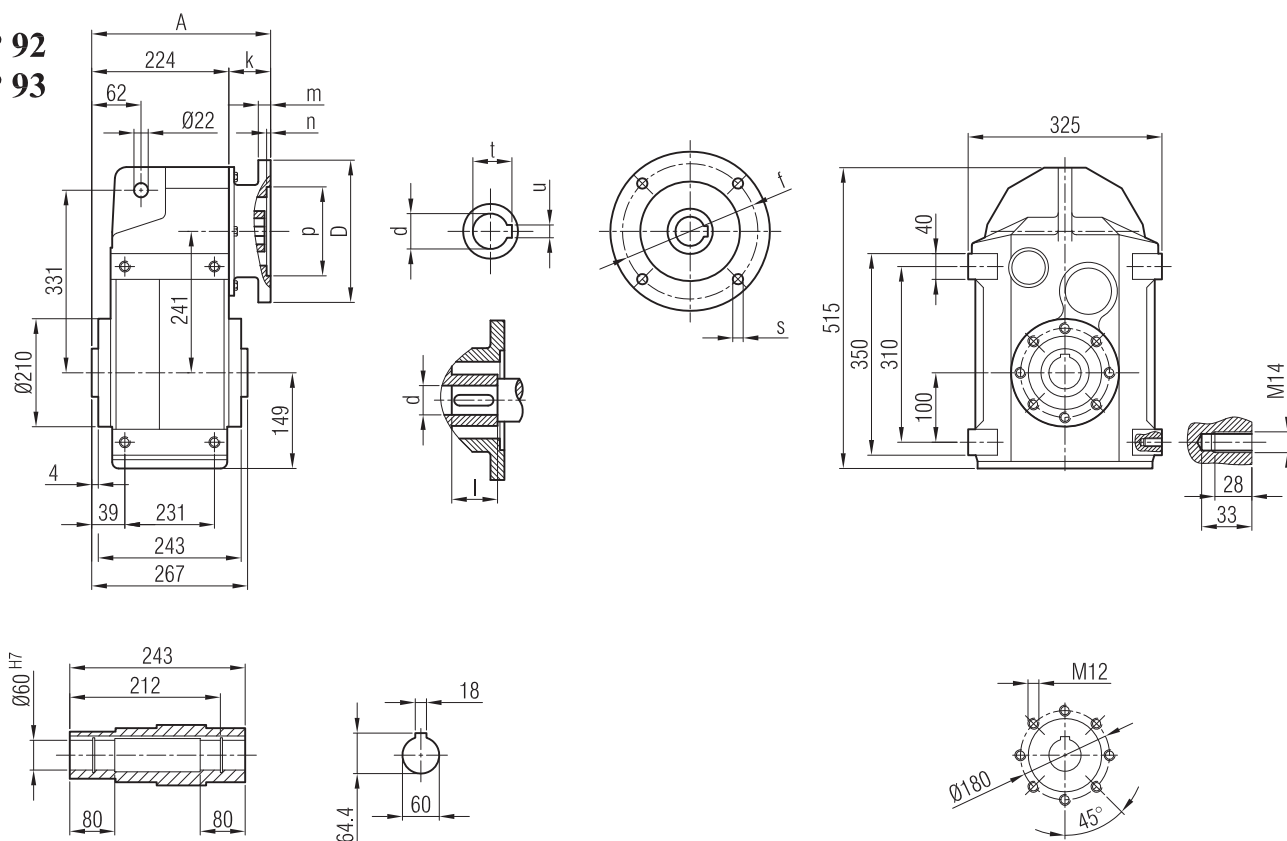
#### ... -01



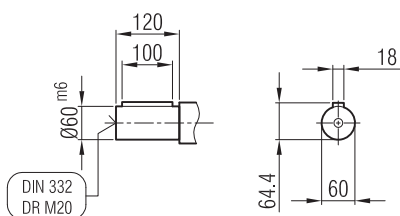
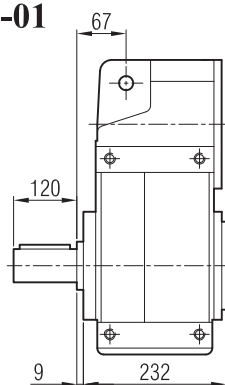
|        | A     | Øp  | Øf  | ØD  | s   | k    | m  | n | Ød | l  | t    | u  |  |  |  |  |  |
|--------|-------|-----|-----|-----|-----|------|----|---|----|----|------|----|--|--|--|--|--|
| 71/B5  | 288.5 | 110 | 130 | 160 | M8  | 55   | 10 | 4 | 14 | 30 | 16.3 | 5  |  |  |  |  |  |
| 80/B5  | 300.5 | 130 | 165 | 200 | M10 | 67   | 12 | 5 | 19 | 40 | 21.8 | 6  |  |  |  |  |  |
| 90/B5  | 300.5 | 130 | 165 | 200 | M10 | 67   | 12 | 5 | 24 | 50 | 27.3 | 8  |  |  |  |  |  |
| 100/B5 | 305.5 | 180 | 215 | 250 | M12 | 71.5 | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 305.5 | 180 | 215 | 250 | M12 | 71.5 | 14 | 5 | 28 | 60 | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 329   | 230 | 265 | 300 | M12 | 95.5 | 17 | 5 | 38 | 80 | 41.3 | 10 |  |  |  |  |  |



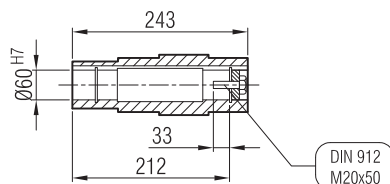
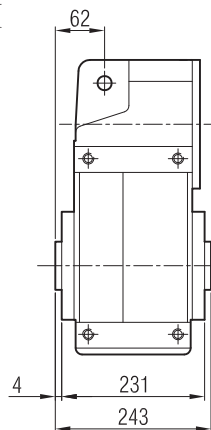
### YPP 92 YPP 93



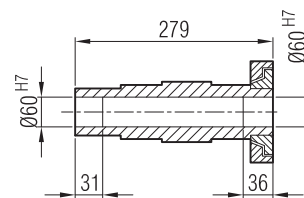
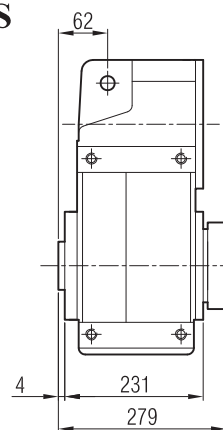
### ... -01



### ... -H



### ... -S



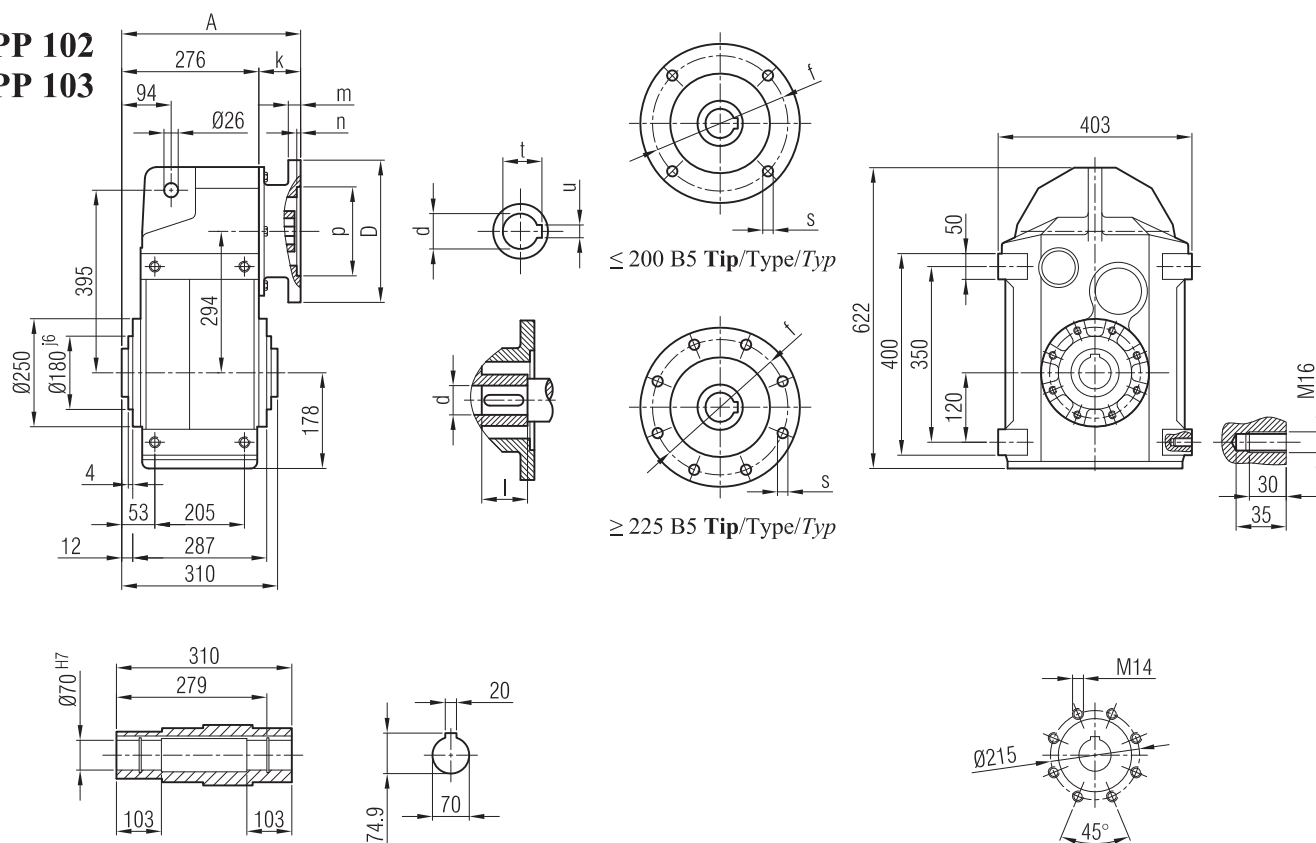
|        | A   | Øp  | Øf  | ØD  | s   | k   | m  | n   | Ød | l   | t    | u  |  |  |  |  |  |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|--|--|--|--|--|
| 80/B5  | 291 | 130 | 165 | 200 | M10 | 67  | 12 | 5   | 19 | 40  | 21.8 | 6  |  |  |  |  |  |
| 90/B5  | 291 | 130 | 165 | 200 | M10 | 67  | 12 | 5   | 24 | 50  | 27.3 | 8  |  |  |  |  |  |
| 100/B5 | 298 | 180 | 215 | 250 | M12 | 74  | 14 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 298 | 180 | 215 | 250 | M12 | 74  | 14 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 319 | 230 | 265 | 300 | M12 | 95  | 17 | 6   | 38 | 80  | 41.3 | 10 |  |  |  |  |  |
| 160/B5 | 335 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |  |  |  |  |  |
| 180/B5 | 335 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 |  |  |  |  |  |



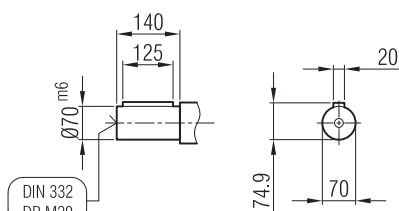
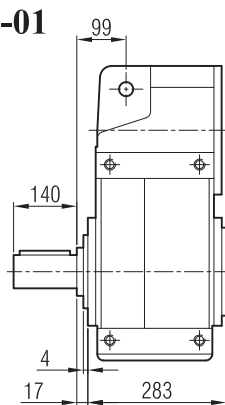
Technical drawing of a circular part. The drawing shows a top view of a circle with a diameter dimension of 60. A vertical dimension of 64.4 is shown on the left, and a horizontal dimension of 18 is shown at the top. The drawing is a simple line drawing with dimension lines and arrows.



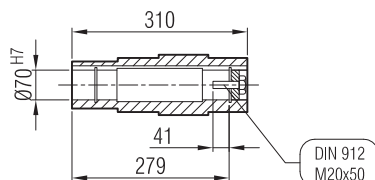
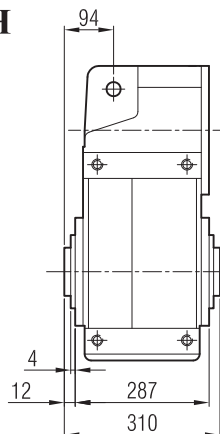
**YPP 102**  
**YPP 103**



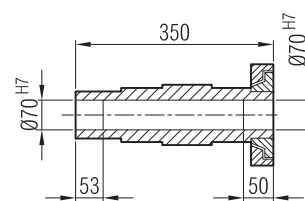
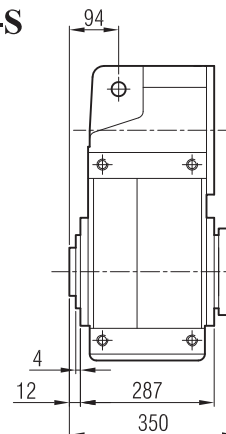
...-01



...-H



...-S



|        | A   | Øp  | Øf  | ØD  | s   | k   | m  | n   | Ød | l   | t    | u  |  |  |  |  |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|--|--|--|--|
| 90/B5  | 325 | 130 | 165 | 200 | M10 | 49  | 12 | 5   | 24 | 50  | 27.3 | 8  |  |  |  |  |
| 100/B5 | 334 | 180 | 215 | 250 | M12 | 58  | 14 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |
| 112/B5 | 334 | 180 | 215 | 250 | M12 | 58  | 14 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |
| 132/B5 | 371 | 230 | 265 | 300 | M12 | 95  | 17 | 6   | 38 | 80  | 41.3 | 10 |  |  |  |  |
| 160/B5 | 387 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 42 | 110 | 45.3 | 12 |  |  |  |  |
| 180/B5 | 387 | 250 | 300 | 350 | M14 | 111 | 18 | 6.5 | 48 | 110 | 51.8 | 14 |  |  |  |  |
| 200/B5 | 435 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 |  |  |  |  |

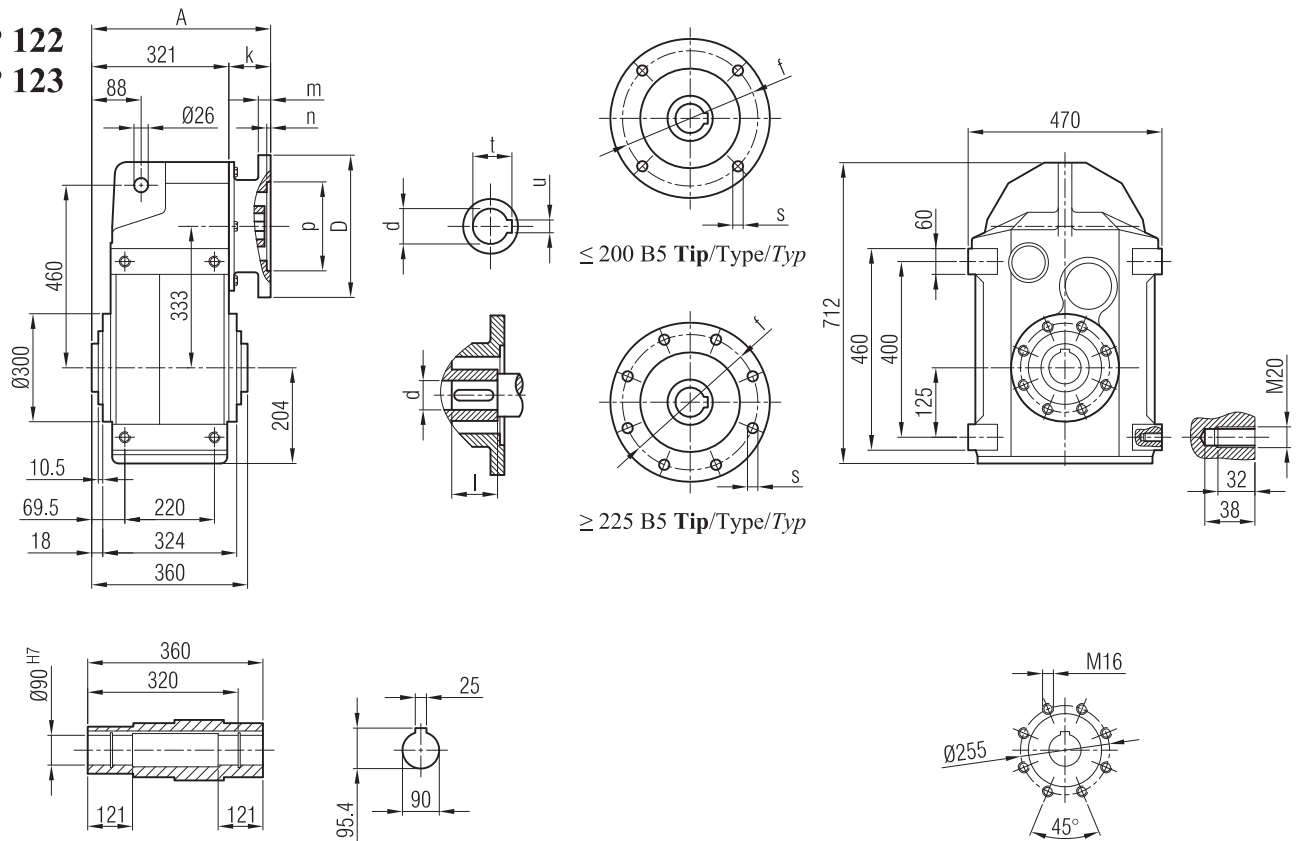




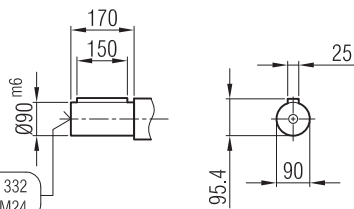
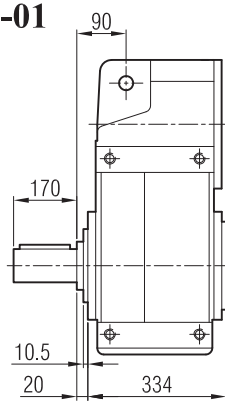


#### YPP 122

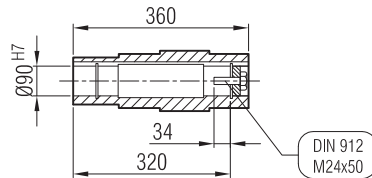
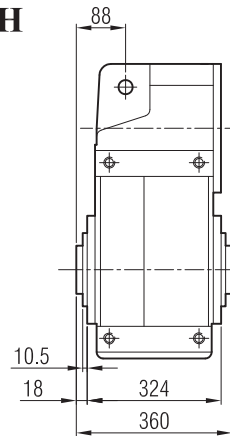
#### YPP 123



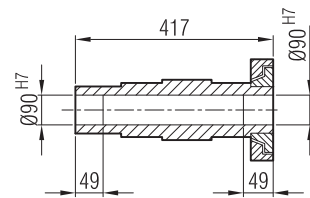
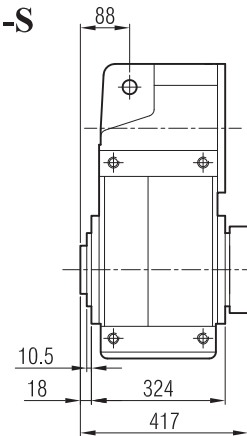
#### ... -01



#### ... -H



#### ... -S



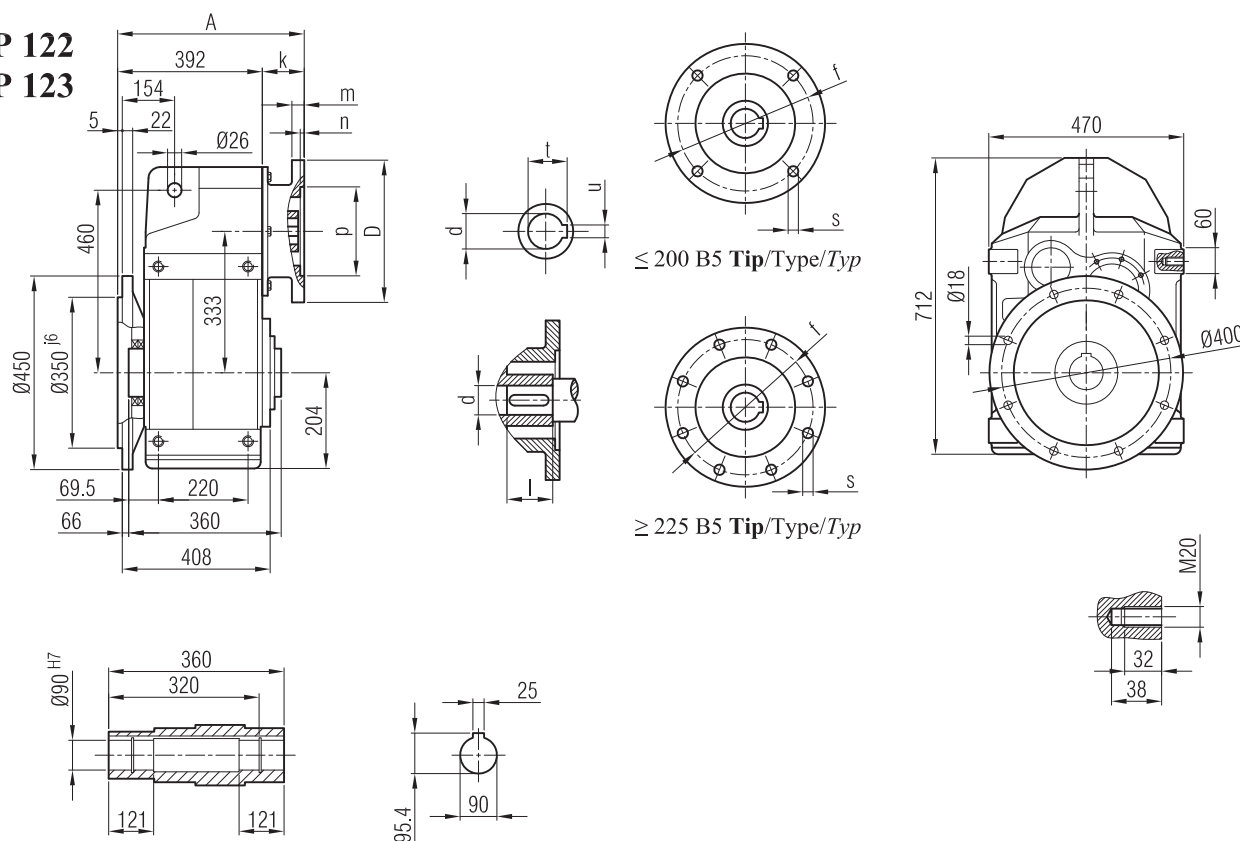
|        | A   | Øp  | Øf  | ØD  | s   | k   | m  | n   | Ød | l   | t    | u  |  |  |  |  |  |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|--|--|--|--|--|
| 100/B5 | 378 | 180 | 215 | 250 | M12 | 57  | 15 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 378 | 180 | 215 | 250 | M12 | 57  | 15 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 405 | 230 | 265 | 300 | M12 | 84  | 17 | 6   | 38 | 80  | 41.3 | 10 |  |  |  |  |  |
| 160/B5 | 412 | 250 | 300 | 350 | M14 | 91  | 18 | 6.5 | 42 | 110 | 45.3 | 12 |  |  |  |  |  |
| 180/B5 | 412 | 250 | 300 | 350 | M14 | 91  | 18 | 6.5 | 48 | 110 | 51.8 | 14 |  |  |  |  |  |
| 200/B5 | 480 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 |  |  |  |  |  |
| 225/B5 | 487 | 350 | 400 | 450 | M16 | 166 | 22 | 6.5 | 60 | 140 | 69.4 | 18 |  |  |  |  |  |



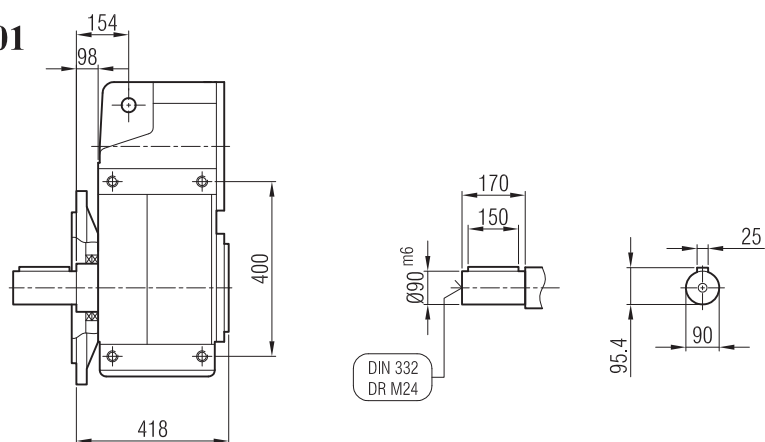


#### YPFP 122

#### YPFP 123



#### ... -01



|        | A   | Øp  | Øf  | ØD  | s   | k   | m  | n   | Ød | l   | t    | u  |  |  |  |  |  |
|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|------|----|--|--|--|--|--|
| 100/B5 | 449 | 180 | 215 | 250 | M12 | 57  | 15 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 112/B5 | 449 | 180 | 215 | 250 | M12 | 57  | 15 | 5   | 28 | 60  | 31.3 | 8  |  |  |  |  |  |
| 132/B5 | 476 | 230 | 265 | 300 | M12 | 84  | 17 | 6   | 38 | 80  | 41.3 | 10 |  |  |  |  |  |
| 160/B5 | 483 | 250 | 300 | 350 | M14 | 91  | 18 | 6.5 | 42 | 110 | 45.3 | 12 |  |  |  |  |  |
| 180/B5 | 483 | 250 | 300 | 350 | M14 | 91  | 18 | 6.5 | 48 | 110 | 51.8 | 14 |  |  |  |  |  |
| 200/B5 | 551 | 300 | 350 | 400 | M16 | 159 | 20 | 6.5 | 55 | 110 | 59.3 | 16 |  |  |  |  |  |
| 225/B5 | 558 | 350 | 400 | 450 | M16 | 166 | 22 | 6.5 | 60 | 140 | 69.4 | 18 |  |  |  |  |  |

