İ.Mak®
REDÜKTÖR & VARYATÖR A.Ş.

Sonsuz Vidalı Redüktörler

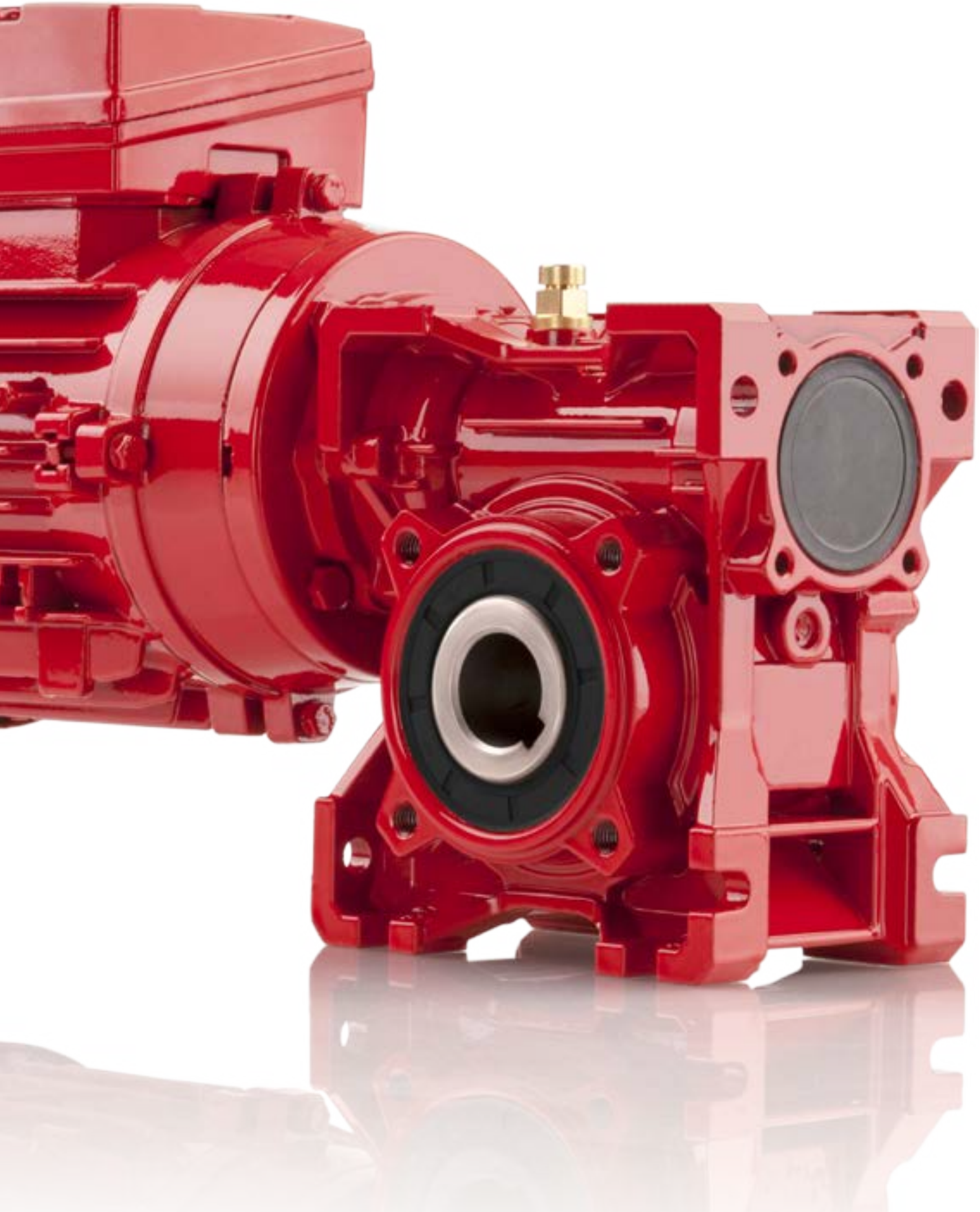
Worm Gearbox / Réducteurs à Roue et Vis Sans Fin

S01

SERIES
S
İRS
İRSD

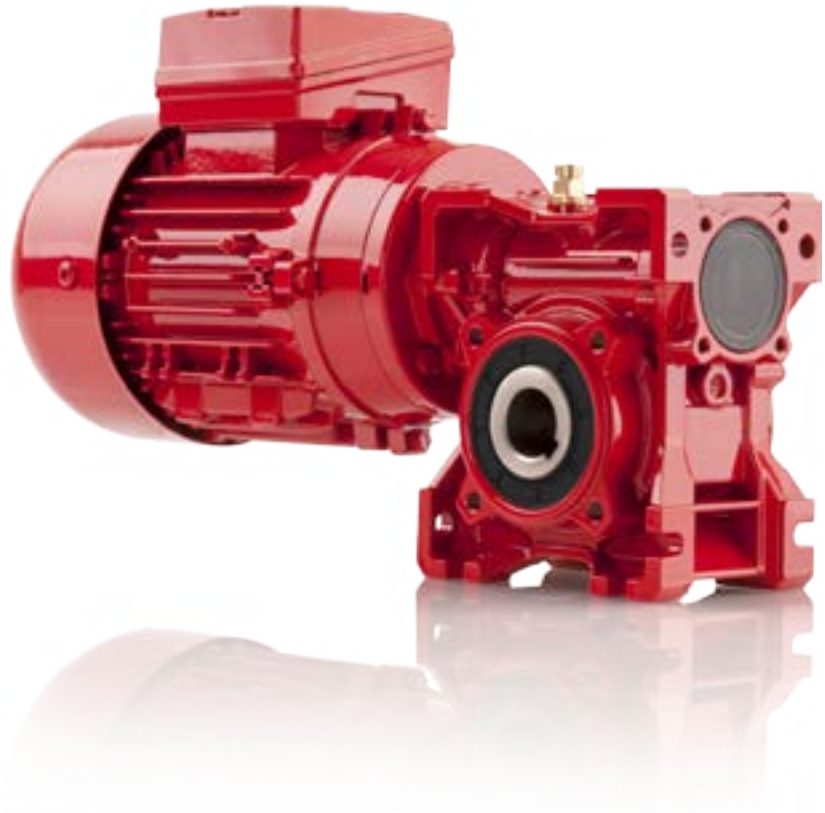
2016
TR | EN | FR

Gearboxes and Drives / Moto Réducteurs



S

SERİSİ / SERIES / SÉRIES



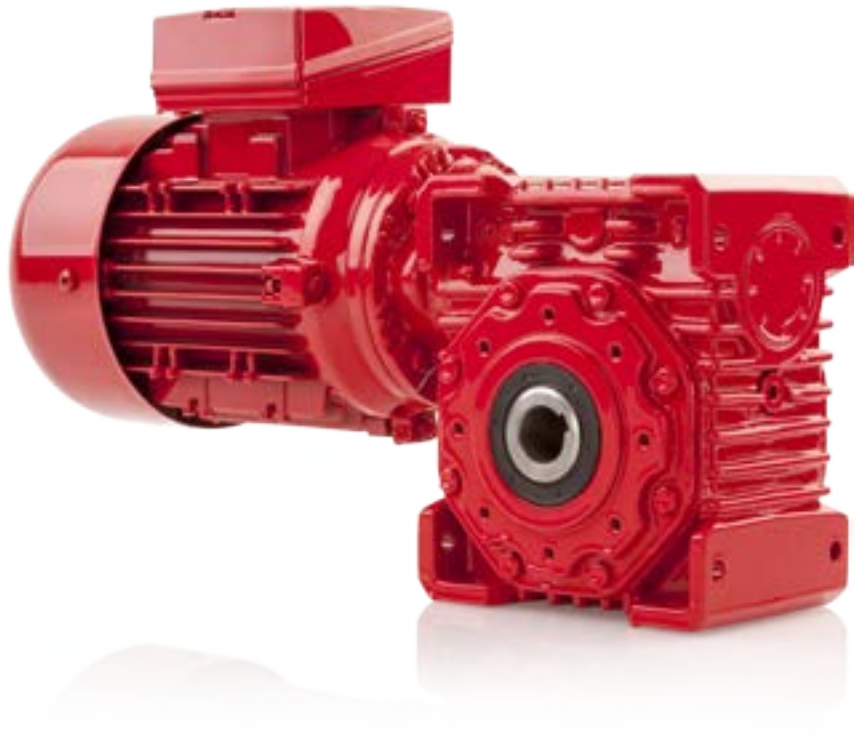
- Aluminyum gövdeli sonsuz vidalı redüktörler
- 5 Farklı gövde büyüklüğü
- 13 – 388 Nm moment aralığı
- 7,5 – 100 Tahvil aralığı

- Worm geared unit with aluminium housing
- 5 Size of housing
- Torque range from 13 to 388 Nm
- Ratio range from 7.5 to 100

- *Réducteur à roue et vis sans fin avec carter en aluminium*
- *5 tailles de carter*
- *Couple allant de 13 à 388 Nm*
- *Rapport de réduction compris entre 7.5 et 100*

İRS

SERİSİ / SERIES / SÉRIES



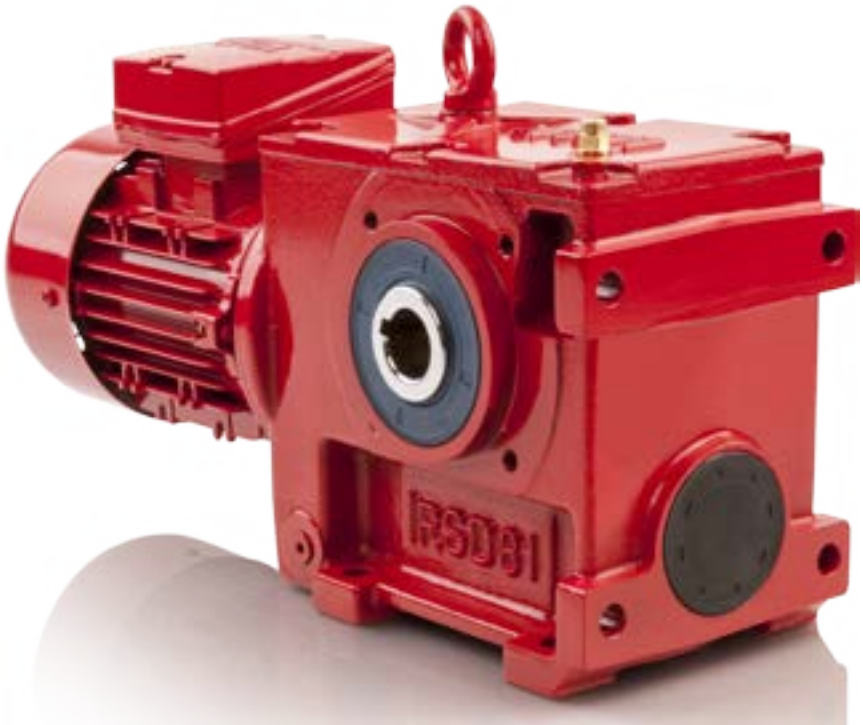
- Döküm gövdeli sonsuz vidalı redüktörler
- 8 Farklı gövde büyüklüğü
- 96 – 16876 Nm moment aralığı
- 7,25 – 115 Tahvil aralığı

- Worm geared unit with cast iron housing
- 5 Size of housing
- Torque range from 96 to 16876 Nm
- Ratio range from 7.25 to 115

- *Réducteur à roue et vis sans fin avec carter en fonte*
- *5 tailles de carter*
- *Couple allant de 96 à 16876 Nm*
- *Rapport de réduction compris entre 7.25 et 115*

İRSD

SERİSİ / SERIES / SÉRIES



- Döküm gövdeli helisel sonsuz vidalı redüktörler
- 5 Farklı gövde büyüklüğü
- 211 – 4479 Nm moment aralığı
- 25 – 333 Tahvil aralığı

- Helical worm geared unit with cast iron housing
- 5 Size of housing
- Torque range from 211 to 4479 Nm
- Ratio range from 25 to 333

- *Réducteur hélicoïdal à roue et vis sans fin avec carter en fonte*
- *5 tailles de carter*
- *Couple allant de 211 à 4479 Nm*
- *Rapport de réduction compris entre 25 et 4479*

Genel Bilgiler

General Information
Informations générales

Aluminyum gövdeli sonsuz vidalı redüktörler

Aluminium housing worm gearbox / *Réducteurs à roue et vis sans fin, carter en aluminium*

Kod	Tip tanımlama	Type designation	Spécifications des types
S…	Giriş milli - ayak montajlı - delik milli	Input shaft - foot mounted - hollow shaft	Arbre d'entrée - a patte - arbre creux
SM…	Motorlu - ayak montajlı - delik milli	With motor - foot mounted - hollow shaft	Avec moteur - a pattes - arbre creux
SP…	IEC B14 giriş flanşlı - ayak montajlı - delik milli	IEC B14 input flange - foot mounted - hollow shaft	Bride d'entrée IEC B14 - a pattes - arbre creux

Döküm gövdeli sonsuz vidalı redüktörler

Cast iron housing worm gearbox / *Réducteurs à roue et vis sans fin, carter en fonte*

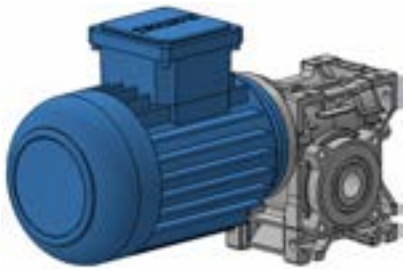
Kod	Tip tanımlama	Type designation	Spécifications des types
İRSA…	Giriş milli - ayak montajlı - delik milli	Input shaft - foot mounted - hollow shaft	Arbre d'entrée - a pattes - arbre creux
İRSF…	Giriş milli - flanş montajlı - delik milli	Input shaft - flange mounted - hollow shaft	Arbre d'entrée - bride de sortie - arbre creux
İRSAM…	Motorlu - ayak montajlı - delik milli	With motor - foot mounted - hollow shaft	Avec moteur - a pattes - arbre creux
İRSFM…	Motorlu - flanş montajlı - delik milli	With motor - flange mounted - hollow shaft	Avec moteur - bride de sortie - arbre creux
İRSAP…	IEC B14 giriş flanşlı - ayak montajlı - delik milli	IEC B14 input flange - foot mounted - hollow shaft	Bride d'entrée IEC B14 - a pattes - arbre creux
İRSFP…	IEC B14 giriş flanşlı - flanş montajlı - delik milli	IEC B14 input flange - flange mounted - hollow shaft	Bride d'entrée IEC B14 - bride de sortie - arbre creux

Döküm gövdeli helisel - sonsuz vidalı redüktörler

Cast iron housing helical - worm gearbox / *Réducteurs hélicoïdal à roue et vis sans fin, carter en fonte*

Kod	Tip tanımlama	Type designation	Spécifications des types
İRSD…	Giriş milli - ayak montajlı - delik milli	Input shaft - foot mounted - hollow shaft	Arbre d'entrée - a pattes - arbre creux
İRSDF…	Giriş milli - flanş montajlı - delik milli	Input shaft - flange mounted - hollow shaft	Arbre d'entrée - bride de sortie- arbre creux
İRSDM…	Motorlu - ayak montajlı - delik milli	With motor - foot mounted - hollow shaft	Avec moteur - a pattes - arbre creux
İRSDFM…	Motorlu - flanş montajlı - delik milli	With motor - flange mounted - hollow shaft	Avec moteur - bride de sortie- arbre creux
İRSDP…	IEC B14 giriş flanşlı - ayak montajlı - delik milli	IEC B14 input flange - foot mounted - hollow shaft	Bride d'entrée IEC B14 - a pattes - arbre creux
İRSDFP…	IEC B14 giriş flanşlı - flanş montajlı - delik milli	IEC B14 input flange - flange mounted - hollow shaft	Bride d'entrée IEC B14 - bride de sortie - arbre creux
İRSDPM…	IEC pam flanşlı motorlu - ayak montajlı - delik milli	IEC PAM Flange with motor - foot mounted - hollow shaft	Bride d'entrée IEC B14 - avec moteur - arbre creux
İRSDFPM…	IEC pam flanşlı motorlu - flanş montajlı - delik milli	IEC PAM Flange with motor - flange mounted- hollow shaft	Bride d'entrée IEC B14 - avec moteur - bride de sortie - arbre creux

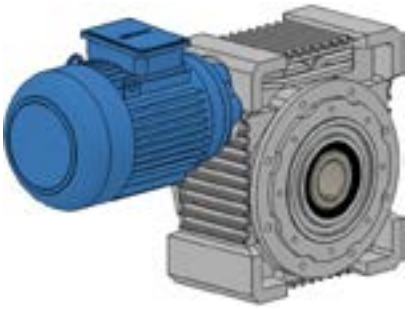
S
Giriş milli
Solid input shaft
Avec arbre de sortie



SM
Motorlu
With motor
Avec moteur

SP
IEC pam flanşlı
IEC input flange
Avec bride PAM - IEC

İRSA
Giriş milli
Solid input shaft
Avec arbre de sortie



İRSAM
Motorlu
With motor
Avec moteur

İRSAP
IEC pam flanşlı
IEC input flange
Avec bride de sortie PAM - IEC

İRSD
Giriş milli
Solid input shaft
Avec arbre de sortie

İRSDM
Motorlu
With motor
Avec moteur

İRSDP
IEC pam flanşlı
IEC input flange
Avec bride de sortie PAM - IEC

Redüktör opsiyonları / Gearboxes options / *Options des motoréducteurs*

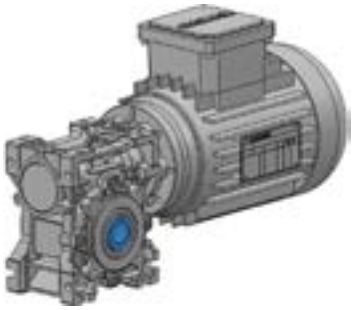
Kod	Opsiyon	Options	Options
FR	Sağ taraf çıkış flanşı	Output flange right	Bride de sortie (Droite)
FL	Sol taraf çıkış flanşı	Output flange left	Bride de sortie (Gauche)
FD	Çift çıkış flanşı	Double output flange	Bride de sortie (Double)
SR	Sağ taraf çıkış mili	Output shaft right	Arbre de sortie (Droite)
SL	Sol taraf çıkış mili	Output shaft left	Arbre de sortie (gauche)
SD	Çift çıkış mili	Output shaft double	Arbre de sortie (Double)
C	Alın mili	Double input shaft	Arbre d'entrée (Double)
CBR	Alın miline fren bağlantısı	Double input shaft with brake	Double arbre d'entrée avec freins
TR	Sağ tork kolu	Torque arm right	Bras de couple (Droit)
TL	Sol tork kolu	Torque arm left	Bras de couple (Gauche)
H *	Çektirme pulu	Retaining screw washer	Epaullement (vis de fixation)
SDR **	Sağ sıkma bilezik	Shrink disk right	Frette de serrage (Droit)
SDL **	Sol sıkma bilezik	Shrink disk left	Frette de serrage (Gauche)
OC	Çıkış koruma kapağı	Output cover	Bouchon (arbre creux)

*** İRS ve İRSD redüktörler içindir.** / Only for IRS and IRSD Series / *Uniquement pour les séries IRS et IRSD*

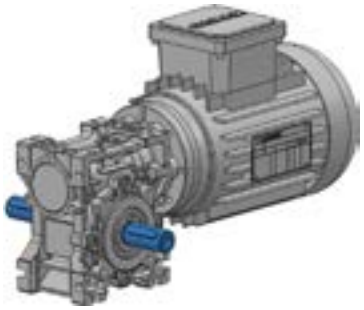
**** İRSD Redüktörler içindir** / Only for IRSD Series / *Uniquement pour la série IRSD*

Motor Opsiyonları / Motor's options / *Options moteurs*

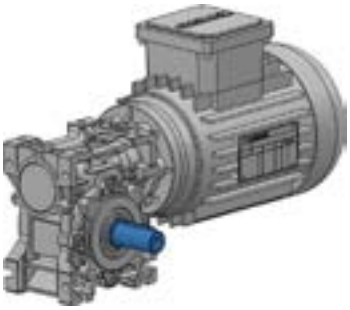
Kod	Opsiyon	Options	Options
BR	Fren	Brake	Frein
BRH	Manuel kollu fren	Brake with hand release	Frein avec ouverture manuel
BD	Çift fren	Double brake	Double frein
BDH	Manuel kollu çift fren	Double brake with hand release	Double frein avec ouverture manuel
E	Enkoder	Encoder	Encoder
EMK	Elektromanyetik kavrama	Electromagnetic clutches	Disque electromagnetique
CF	Harici fan	External fan	Ventilation externe
FG	Kanopi	Canopy	Canopé
U	Fansız motor (güdük)	Without fan	Sans ventilation
M	Monofaze motor	Mono phase motor	Moteur monophasé
BS	Mekanik kilit	Backstop	Roulement anti-retour



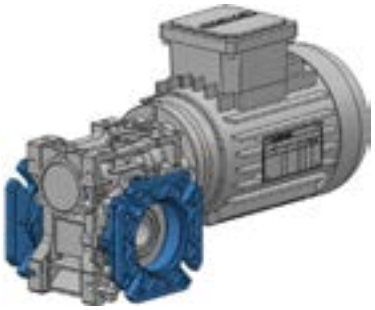
S..
Delik milli
Hollow output shaft
Arbre creux



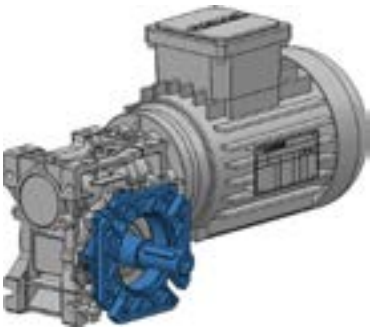
S…SD
Çift çıkış milli
Double output shaft
Double arbre de sortie



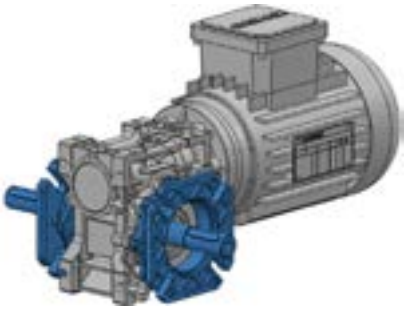
S….SL
Çıkış milli (sol)
Output shaft (Left)
Arbre de sortie (Gauche)



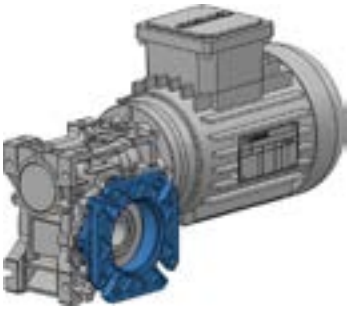
S…FD
Çift çıkış flanşlı
Double output flange
Double bride de sortie



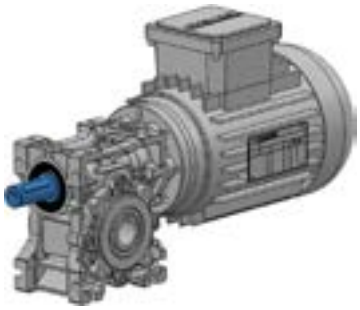
S…FL-SL
Çıkış milli - Çıkış flanşlı (sol)
Output shaft - Output flange (Left)
Arbre et bride de sortie (Gauche)



S…FD-SD
Çift çıkış flanşlı- Çift çıkış milli
Double output flange - Double output shaft
Bride de sortie double - Arbre de sortie double



S…FL
Çıkış flanşlı (sol)
Output flange (Left)
Bride de sortie (Gauche)



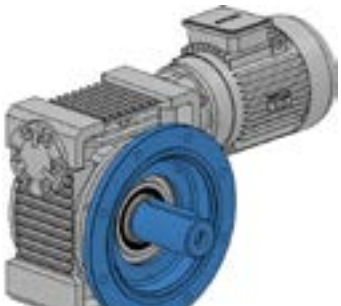
S…C
Alın milli
Input shaft
Arbre d'entrée

İRS..
Delik milli
Hollow output shaft
Arbre creux

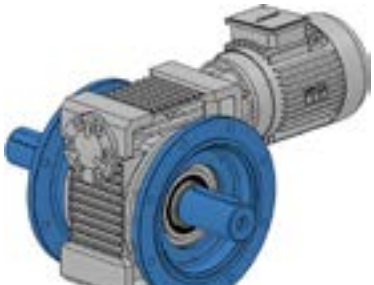
İRS…SD
Çift çıkış milli
Double output shaft
Double arbre de sortie

İRS….SL
Çıkış milli (sol)
Output shaft (Left)
Arbre de sortie (Gauche)

İRSF…FD
Delik milli - Çift çıkış flanşlı
Double output flange
Double bride de sortie



İRSF…FL-SL
Çıkış milli - Çıkış flanşlı (sol)
Output shaft - Output flange (Left)
Arbre et bride de sortie (Gauche)

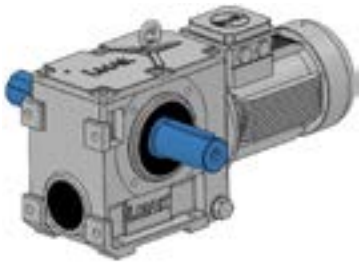


İRSF…FD-SD
Çift çıkış flanşlı- Çift çıkış milli
Double output flange - Double output shaft
Bride de sortie double - Arbre de sortie double

İRSF…FL
Delik milli - Çıkış flanşlı (sol)
Output flange (Left)
Bride de sortie (Gauche)

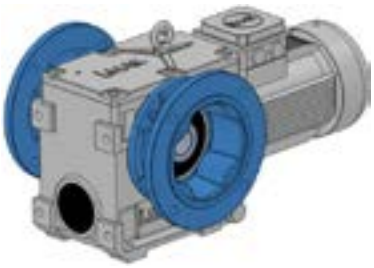
İRSA …C
Alın milli
Input shaft
Arbre d'entrée

İRSD..
Delik milli
Hollow output shaft
Arbre creux

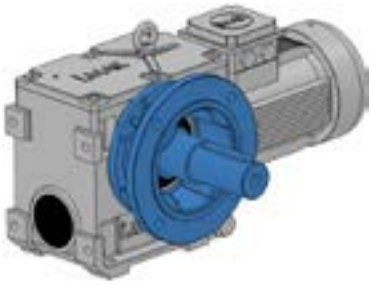


İRSD…SD
Çift çıkış milli
Double output shaft
Double arbre de sortie

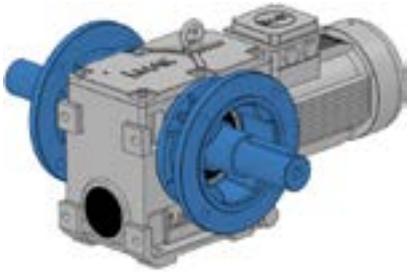
İRSD….SL
Çıkış milli (sol)
Output shaft (Left)
Arbre de sortie (Gauche)



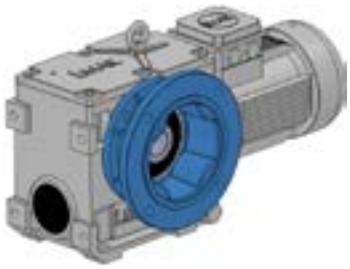
İRSDF…FD
Çift çıkış flanşlı
Double output flange
Double bride de sortie



İRSDF…FL-SL
Çıkış milli - Çıkış flanşlı (sol)
Output shaft - Output flange (Left)
Arbre et bride de sortie (Gauche)



İRSDF…FD-SD
Çift çıkış flanşlı- Çift çıkış milli
Double output flange - Double output shaft
Bride de sortie double - Arbre de sortie double



İRSDF…FL
Delik milli - Çıkış flanşlı (sol)
Output flange (Left)
Bride de sortie (Gauche)

İRSD …C
Alın milli
Input shaft
Arbre de sortie

Çıkış mili / Output shaft / *Arbre de sortie*

Kod / Code	Varyasyon	Options	Options
111	Özel mil ölçüsü	Special shaft dimensions	Dimensions de l'arbre spécial
112	Özel mil malzemesi	Special shaft materials	Matériel de l'arbre spécial
113	Sertleştirilmiş mil	Hardened shaft	Axe durci
114	Diş çekilmiş mil	Screw	Axe à vis
115	Çoklu kama uygulaması	Shaft with multiple key	Arbre à multi clavette

Kovan / Hollow shaft / *Bride*

Kod / Code	Varyasyon	Options	Options
121	Özel kovan ölçüsü	Dimensions of special shaft	Abre creux spécial
122	Özel kovan malzemesi	Material of special output shaft	Arbre creux en matériaux spéciaux
123	Sertleştirilmiş kovan *	Hardneed steel hollow shaft	Arbre creux en acier trempé
124	Diş çekilmiş kovan**	Hollow shaft with screw	Arbre creux a vis
125	Opsiyonel kovan	Optional output shaft	Arbre creux optionnel
126	Çoklu kama uygulaması	Hollow shaft with splining	Arbre creux cannelé

*** İRSD.. Serisi için geçerlidir.** / Only for IRSD Series / *Uniquement pour la série IRSD*

****İRS.. ve İRSD.. Serileri için geçerlidir.** / Only for IRS and IRSD Series / *Uniquement pour les séries IRS et IRSD*

Giriş mili - pam mili / Input shaft / *Bride pam*

Kod / Code	Varyasyon	Options	Options
131	Özel mil ölçüsü	Dimensions of the shaft	Dimensions de l'arbre (Spécial)
132	Özel mil malzemesi	Material of special shaft	Matériaux de l'arbre (Spécial)
133	Sertleştirilmiş mil	Hardened steel shaft	Arbre en acier trempé
134	Çoklu kama uygulaması	Hollow shaft with screw	Arbre creux a vis
135	Özel alın mili	Spécial input shaft	Arbre d'entrée spécial
136	Diş çekilmiş mil	Shaft with screw	Arbre de sortie avec vis

Çıkış flanşı / Output flange / *Bride de sortie*

Kod / Code	Varyasyon	Options	Options
141	Özel flanş ölçüsü	Dimensions of special output flange	Dimensions de la bride de sortie (Spéciale)
142	Özel flanş malzemesi	Material of special output flange	Matériaux de la bride de sortie (Spéciale)
143	Opsiyonel flanş	Optional output flange	Bride de sortie optionnelle
144	Standart dışı flanş*	Special output flange	Bride d'entrée spéciale

*** İstenilen değişilklik ürünün standart flanşı üzerinde yapılamayıp yeni bir flanş tasarlanması durumudur.** / In the case your configuration require the production of a special flange / *Dans le cas oû la configuration de votre application requiert une bride d'entrée spéciale.*

Giriş flanşı / Input flange / *Bride d'entrée*

Kod / Code	Varyasyon	Options	Options
151	Özel flanş ölçüsü	Special input flange	Bride d'entrée (Spéciale)
152	Özel flanş malzemesi	Material of special input flange	Matériaux de la bride d'entrée (spéciale)
153	Standart dışı flanş*	Special output shaft	Bride de sortie spéciale

*** İstenilen değişilklik ürünün standart flanşı üzerinde yapılamayıp yeni bir flanş tasarlanması durumudur.** / In the case your configuration require the production of a special flange / *Dans le cas oû la configuration de votre application requiert une bride de sortie spéciale.*

Yağ / Oil / *Huiles*

Kod / Code	Varyasyon	Options	Options
211	Sentetik yağ VG 220 (SHC 630)	Synthetic oil VG 220 (SHC 630)	Huile synthétique VG 220 (SHC 630)
212	Gıda uyumlu yağ VG 220 (CIBUS 220)	Food compatible oil VG 220 (CIBUS 220)	Huile pour industrie agroalimentaire VG 220 (CIBUS 220)
213	-40C° Uyumlu yağ VG 220 (SHC 630)	Cold resistant oil -40C° VG 220 (SHC 630)	Huile base température -40C° VG220 (SHC 630)

Keçe-tapa / Seal-cover / *Joint- bouchon*

Kod / Code	Varyasyon	Options	Options
221	Özel ölçü keçe	Dimensions of special seal	Dimensions du joint (Spécial)
222	Özel ölçü tapa	Dimensions of special cover	Dimensions du bouchon (Spécial)
223	Özel marka keçe	Special brand of seal	Marque du joint (Spécial)
224	Özel marka tapa	Special brand of cover	Marque du bouchon (Spécial)
225	Viton keçe	Viton seal	Joint en viton
226	Özel tip keçe uygulaması	Special configuration of seal	Configuration spéciale du joint
227	Toz kapağı	Dust cover	Bouchon anti-poussière

Rulman / Bearing / *Roulement*

Kod / Code	Varyasyon	Options	Options
231	Güçlendirilmiş çıkış rulmanı	Reinfored output bearing	Roulement renforcé (Sortie)
232	Güçlendirilmiş giriş rulmanı	Reinforced input bearing	Roulement renforcée (Entrée)
233	Özel marka rulman	Special brand of bearing	Marque du roulement (Spécial)
234	Özel ölçü rulman	Special dimensions of bearing	Dimensions du roulement (Spécial)
235	Mekanik kilit CW*	Backstop bearing (CW)	Roulement anti-retour (CW)
236	Mekanik kilit CCW*	Backstop bearing (CCW)	Roulement anti-retour (CCW)

*** İRO ve YP serileri için geçerlidir, diğer serilerde motora uygulanmaktadır.** / Available in YP and IRO Series, the other series are equiped with backstop bearings at motor side / *Disponible pour les séries YP et IRO, les autres séries sont équipés de roulement anti-retour placés sur le moteur.*

Gövde / Housing / *Carter*

Kod / Code	Varyasyon	Options	Options
241	Özel işlenmiş gövde	Special housing	Carter spéciale
242	Özel malzeme	Special housing materials	Carter avec matériaux spéciaux

Boya / Paint / *Peinture*

Kod / Code	Varyasyon	Options	Options
251	Özel renk boya	Special paint color	Couleur spéciale
252	Özel tip boya	Special paint type	Type de peinture spéciale
253	Epoksi boya	Epoxy paint	Peinture epoxy
254	Akrilik boya (dış ortam)	Acrilic paint	Peinture acrylique (Environement extérieur)
255	Su bazlı boya	Water based paint	Peinture à base d'eau
256	Antikorozif boya	Anti-corrosion paint	Peinture anti-corrosion

Dişli / Gears / *Pignons*

Kod / Code	Varyasyon	Options	Options
261*	Özel imalat dişli	Special gear	Pignons spéciaux
262	Katalog dışı tahvil	Gear ratio (Catalogue)	Rapport de réduction des pignons (Catalogue)

*** 261 kodu, 262 yi kapsamaktadır.** / 261 and 262 codes are equivalent / *Les codes 261 et 262 sont équivalents*

Voltaj - Frekans / Voltage and frequency / *Voltage et frequence*

Kod / Code	Varyasyon	Options	Options
311	Özel voltaj motor	Special Voltage	Voltage spécial
312	Özel frekans motor	Special frequency	Fréquence spéciale

***400 V 50 Hz dışı tüm sarımlar standart dışı kabul edilir.** / 400 V 50 Hz are considered as standard / *400 V 50 Hz sont les normes standards*

Koruma sınıfı / IP Classification / *Classification IP*

Kod / Code	Varyasyon	Options	Options
321	IP 54	IP 54	IP 54
322	IP 56	IP 56	IP 56
323	IP 65	IP 65	IP 65
324	IP 66	IP 66	IP 66

IP 55 Standart kabul edilir / IP 55 is our standard / *IP 55 étant la classe standard*

İzolasyon sınıfı / Isolation class / *Classe d'isolations*

Kod / Code	Varyasyon	Options	Options
331	B sınıfı	B - class	Classe - B
332	H sınıfı	H - class	Classe - H

*** F izolasyon sınıfı standart kabul edilir.** / F class is accepted as a standard / *La classe F étant la norme d'isolation standard*
*** 0 C° ile 40 C° aralığı dışındaki ortam sıcaklıkları ini fabrikaya danışınızı.** / Adapted for outside environment with temperature in between 0 C° and 40 C° / *Adapté aux environnements exterieurs avec une température comprises entre 0° C et 40° C*

Rulman / Bearing / *Roulement*

Kod / Code	Varyasyon	Options	Options
341	Sıcak ortam rulmanı*	Bearing for hot environment	Roulement pour environement a températures élévées
342	Soğuk ortam rulmanı*	Bearing for cold environment	Roulement pour environement a températures négatives
343	İzole rulman	Isolated bearing	Roulement isolé
344	Gresörlük	Bearing with greasing nipples	Roulement avec graisseurs
345	Mekanik kilit CW	Backstop bearing (CW)	Roulement anti-retour (CW)
346	Mekanik kilit CCW	Backstop bearing (CCW)	Roulement anti-retou (CCW)

*** 0 C° ile 40 C° aralığı dışındaki ortam sıcaklıkları ini fabrikaya danışınızı /** For outside environment with temperature out of 0C° and 40C° consult our technical team / *Pour des environnements avec des température non comprises entre 0C° et 40C° consulté nos équipes techniques.*

Marka / Brand / *Marque*

Kod / Code	Varyasyon	Options	Options
351	Gamak Motor	Gamak Motor	Gamak Moteur
352	Volt Elektrik Motor	Volt Motor	Volt Moteur
353	Aemot Motor	Aemot Motor	Aemot Moteur
354	Wat Motor	Wat Motor	Wat Moteur
356	Diğer	Diğer	Diğer

Verim sınıfı / Efficiency classifications / *Classes d'efficience énergétique*

Kod / Code	Varyasyon	Options	Options
361	IE 1	IE 1	IE 1
362	IE 3	IE 3	IE 3
363	IE 4	IE 4	IE 4

*** IE 2 verim sınıfı standart kabul edilir.** / IE 2 is the standard category / *IE 2 étant la norme standard*

Fren markası / Brake's brand / *Marque du frein*

Kod / Code	Varyasyon	Options	Options
411	Nursan fren	Nursan brake	Frein - Nursan
412	EMF fren	EMF brake	Frein - EMF
413	Fatih fren	Fatih brake	Frein - Fatih
414	Diğer	Other	Autres

Fren tipi / Type of brake / *Type de frein*

Kod / Code	Varyasyon	Options	Options
421	220 V soğutmalı	220 V cooler	220 V - avec refroidissement
422	24 V soğutmalı	24 V cooler	24 V - avec refroidissement
423	220 V soğutmasız*	220 V without cooler	220 V - sans refroissement
424	24 V soğutmasız*	24 V without cooler	24 V - sans refroissement
425	Çift balatalı fren	Double disk brake	Frein avec double disque
426	Özel tip fren	Special brake type	Type de frein spécial
427	Özel voltaj fren	Special voltage for brake	Frein avec voltage spécial

* Soğutmasız frenlerde motor fan muhafazası bulunmamaktadır / The brake wihout cooling are installed without fan or cover / Les freins sans refroissiment ne sont pas équipés de couvercle ou d'hélice.

Enkoder / Encoder / *Codeur*

Kod / Code	Varyasyon	Options	Options
431	HPL 100 Pulse rotary enkoder	HPL 100 Pulse rotary encoder	HPL 100 Codeur d'impulsions rotatif
432	HPL 360 Pulse rotary enkoder	HPL 360 Pulse rotary encoder	HPL 360 Codeur d'impulsions rotatif
433	HPL 500 Pulse rotary enkoder	HPL 500 Pulse rotary encoder	HPL 500 Codeur d'impulsions rotatif
434	HPL 1024 Pulse rotary enkoder	HPL 1024 Pulse rotary encoder	HPL 1024 Codeur d'impulsions rotatif
435	HPL 2048 Pulse rotary enkoder	HPL 2048 Pulse rotary encoder	HPL 2048 Codeur d'impulsions rotatif
436	HTL 1024 Pulse rotary enkoder	HTL 1024 Pulse rotary encoder	HTL 1024 Codeur d'impulsions rotatif
437	HTL 2048 Pulse rotary enkoder	HTL 2048 Pulse rotary encoder	HTL 2048 Codeur d'impulsions rotatif
438	TTL 1024 Pulse rotary enkoder	TTL 1024 Pulse rotary encoder	HTL 1024 Codeur d'impulsions rotatif
439	TTL 2048 Pulse rotary enkoder	TTL 2048 Pulse rotary encoder	TTL 2048 Codeur d'impulsions rotatif
440	Diğer	Others	Autres

*** Diğer encoder çeşitleri için fabrikaya danışınız** / For different type of encoder contact our sales team / *Pour des type de codeurs différents contactez notre équipe téchnique*

Termistör - Isıtıcı / Thermistor and heater / *Thermistatet chauffage*

Kod / Code	Varyasyon	Options	Options
441	PTC X 1 termistör	PTC X 1 thermistor	PTC X 1 Thermistat
442	Bimetal termostat	Bimetallic switch	Interupteur bilame
443	Basın sensörü	Pressure sensor	Senseur pression
444	110 V sargı ısıtıcı	110 V coil heat	Bobine chauffante 110 V
445	220 V sargı ısıtıcı	220 V colt hear	Bobine chauffante 220 V
446	PT 100	PT 100	PT 100

Harici fan / External Fan / *Vantilateur externe*

Kod / Code	Varyasyon	Options	Options
451	24 VDC (EBM)	24 VDC (EBM)	24 VDC (EBM)
452	230 VAC (EBM)	230 VAC (EBM)	230 VAC (EBM)
453	380 VAC (EBM)	380 VAC (EBM)	380 VAC (EBM)
454	230 VAC	230 VAC	230 VAC
455	380 VAC	380 VAC	380 VAC

Özel Motorlar / Special motor / *Moteur spécial*

Kod / Code	Varyasyon	Options	Options
461	Servo motor*	Servo motor	Servo moteur
462	DC motor*	DC motor	Moteur DC
463	Vektör motor	Vector motor	Moteur vecteur
464	Tork motoru	Tork motor	Moteur à couple élevé
465	Hidro motor*	Hydraulic motor	Moteur hydraulique
466	Pnömatik motor*	Compressed air motor	Moteur a air comprimé
467	Ex-proof motor	Explosition proof motor	Moteur anti-explosion
468	Senkron relüktans motor	Synchronous reluctance motors	Moteur à reluctance synchrone
469	Senkron motor*	Synchronous motors	Moteurs synchrones
470	Müşteri motoru	Customer's motor	Moteur en provenance du client

*** Motorlar firmamız tarafından tedarik edilmemektedir** / Our factory is not providing such motors / *Moteur non fournis par notre usine*
Özel motor kodları motorların farbrikamız tarafından takıldığı durumlarda uygulanır / Motors installed in our factory / *Moteur installés dans notre usine*

S	Redüktör tipi / Gearbox type / Type de réducteur (S - İRS - İRSD)
M	Giriş opsiyonu / Input option / Couple d'entrée (S - SM - SP)
63	Redüktör gövde büyüklüğü / Housing size / Taille du carter du réducteur (30 - 40 - 50 - 63 - 75)
-	
80	Motor gövde büyüklüğü / Motor size / Taille du moteur (71 - 80 - 90 - 100 - 112)
M	Gövde uzunluğu / Frame lenght / Longueur du carter moteur (S - M - L)
4	Kutup sayısı / Pole number / Nombre de pôles (2 - 4 - 6 - 8)
/	
FR	Opsiyonlar / Options / Options
SR	
C	
BR	
TM	

İRSD	Redüktör tipi / Gearbox type / Type de réducteur (S - İRS - İRSD)
F	Montaj opsiyonu / Mounting option / Options de montage (İRSD - İRSF)
P	Giriş opsiyonu / input option / Couple d'entrée (İRSDM - İRSA - İRSAP)
127	Redüktör gövde büyüklüğü / Housing size / Taille du carter du réducteur (52 - 65 - 82 - 102 - 127 - 162 - 201 - 250)
-	
IEC	
100	IEC Giriş opsiyonu / Input options (IEC) / Options d'entrée (IEC) (71 B14 - 80 B14 - 90 B14 - 100 B14 - 112 B14)
B14	
/	
ST	
C	Opsiyonlar / Options / Options
SDR	

İRS	Redüktör tipi / Gearbox type / Type de réducteur (S - İRS - İRSD)
A	
M	
102	Redüktör gövde büyüklüğü / Housing size / Taille du carter du réducteur (52 - 65 - 82 - 102 - 127 - 162 - 201 - 250)
İRS	İkinci kutu tipi / Housing type of the second gearbox / Type du second réducteur (İRS - İR - S)
52	İkinci kutu gövde büyüklüğü / Second gearboxe housing size / Taille du carter du second réducteur (52 - 65 - 82 - 102 - 127 - 162)
-	
71	Motor büyüklüğü / Motor size / Taille du moteur (71 - 80 - 90 - 100 - 112)
M	Gövde uzunluğu / Frame lenght / Longueur du carter moteur (S - M - L)
4	Kutup sayısı / Pole number / Nombre de pôles (2 - 4 - 6 - 8)
/	
W1	İkinci kutu bağlantı şekli / Mounting position for the second gearbox / Position de montage pour le second réducteur (DB1 - DB2 - DB3 - DB4 - DB5 - DB6 - DB7 - DB8)
/	
U	Opsiyonlar / Options / Options

Servis Faktörü (F_s)
Servis Faktörü = İşletme Katsayısı = (F_s)

Redüktörlerdeki bu değer, tahrik edeceği makinenin bütün teknik ve karakteristik özelliklerine dayanma süresine bağlıdır. Genel olarak makineler yüklenme bakımından üç tip karakteristik gösterirler.

1. HAFİF YÜK (U)
2. ORTA YÜK (M)
3. AĞIR YÜK (H)

Üç değişik yükleme biçiminde çalışan, üç ayrı makinede üretilen momentler birbirine eşitte olsalar, ağır çalışan makinede daha büyük işletme katsayılı Redüktör kullanılmaktadır.

Günlük çalışma saati ise, çalışan dişli ve transmisyon elemanlarının malzeme yorulmasına maruz kalması bakımından, çalışma saatinin fazla olması halinde zararlı yönde etki eder.

Star-Stop durumuna gelince, her makinenin ilk kalkış esnasında en yüksek yüke maruz kaldığı düşünülürse tehlikeli görülür. Müteakip çalışmalarda bu daha aşağıya düşer.

Kataloğumuzda işletme katsayılarının nasıl kullanıldığının anlaşılması için bir misal ile belirtelim.

Önce tablo-1'den makinenin çalışma sahasına göre karakteristiğini belirleyelim. Makinemiz elektrik motor tahrikli ZİNCİR KOVALI EKSKAVATÖR ise yükleme durumu AĞIR' dır. (H) Tablo 2'den makine 24 saat çalışacağına göre minimum işletme katsayısı F_S = 2 bulunur.

Service Factor (F_s)

Value of the service factor of a gearbox depends on all technical and characteristic specifications of a driven machine. Generally machines have three types of loading characteristics:

1. UNIFORM LOAD (U)
2. MODERATE LOAD (M)
3. HEAVY LOAD (H)

Even if the torques required by three different machines operating at three different load specifications are equal.

Gearbox of the machine operating under heavy load conditions should have greater service factor.

Daily working period has effect on gearbox elements due to the materials fatigue of working parts.

It must be taken into account that all machines are subject to the greatest load at the first start, so that the number of starts has also effect on service factor.

This is an example how to use the service factor given in the cataloque.

Load specification of machine should be determined first, from table 1 in our example, the machine is CHAIN BUCKET EXCAVATOR driven by electric motor has HEAVY load specification and daily operation time is 24 hours. So that minimum service factor F_S = 2 is taken from Table 2.

Service facteur (F_s)

La valeur du service facteur d'un motoréducteur dépend des charactéristique de l'application. Ont distingue trois type de charges différentes

1. Charges uniformes (U)
2. Charges modérées (M)
3. Charges élévées (H)

Les spécifications des charges restent les même lorsque trois machines différentes sont soumises à des charges distinctes.

Les réducteurs utilisés dans des applications soumises à de fortes charges doivent obligatoirement avoir des services facteurs élevés.

Le nombre d'heures d'utilisations journalières a une influence directe sur l'usure des pièces et composants du réducteur.

Le réducteur est soumis à une charge maximale lors du démarrage de l'application. Le nombre d'arrét/rédemarrage est donc à prendre en compte lors de l'analyse du service facteur.

L'example çi-dessous explique le processus d'analyse et de calcul du service facteur.

L'application étudiée est un excavateur a godets (Tableau 1) , le réducteur est actionné par un moteur éléctrique. La charge est "élévée" et la durée de fonctionnement journaliére est de 24h. En se basant sur le tableau 2, le service facteur minimum requis est F_S = 2

Ekskavatörler		Excavators		Excavateur	
Zincir kovalı ekskavatörler	H	Chain-Bucket excavators	H	Excavateurs à gaudets	H
Paletli yürüyüşler	H	Travelling gears (Caterpiller)	H	Convoyeur à étage	H
Ray üzerinde yürüyüşler	M	Travelling gears (Rails)	M	Convoyeur à rails	M
Manevra mekanizmaları	U	Manoevring winches	U	Grues à manœuvre	U
Emiş pompaları	M	Pumps	M	Pompes	M
Kovalı çarklar	H	Bucket wheels	H	Roue à gaudets	H
Dönüş mekanizmalar	M	Slewing gears	M	Pignons rotatif	M

İnşaat Makinalar		Building Machines		Machine de Construction	
İnşaat asansörleri	U	Hoists	U	Grues de construction	U
Betoniyerler	M	Concrete mixers	M	Malaxeur à béton	M
Yol inşaat makinaları	M	Road contruction machines	M	Machine de construction(routes)	M

Kaldırma ve İletme Tesisleri		Conveyor		Convoyeurs	
Zincirli konveyör	M	Through chain conveyors	M	Convoyeurs à chaines	M
Mafsal bantlı konveyörler	M	Link conveyors	M	Convoyeur à bande souple	M
Lastik bantlı konveyörler (Dökme Yükler)	U	Belt conveyors (Bulk Goods)	U	Convoyeur à bande rigide	U
Lastik bantlı elevatörler	M	Ballast elevators	M	Elevateurs à bande	M
Lastik cepli elevatörler	M	Ballast pocket elevators	M	Elevateur à poche	M
Lastik bantlı konveyörler (Parça Yükler)	M	"Belt conveyors (Piece Goods)	M	Convoyeur à bande	M
Askılı konveyörler	U	Chain conveyors	U	Convoyeur à chaines	U
Yük asansörleri	M	Goods lifts	M	Elévateur à chaines	M
Kovalı elevatörler (Toz Malzeme)	U	Bucket elevators (Flour Goods)	U	Elévateur à godets (graviers)	U
Helezon konveyör	M	Screw conveyors	M	Vis d'Archimède	M
Kovalı elevatörler (Parçalı Malzeme)	M	Bucket elevators (Piece Goods)	M	Elévateurs à godets (Roches	M
Eğik asansörler	H	Inclined hoists	H	Grues inclinées	H
Çelik bantlı konveyörler	M	Steel belt conveyors	M	Convoyeur à bande (Acier)	M
Paletli konveyörler	M	Apron conveyors	M	Convoyeurs à palettes	M

Tahrik Makinası Torque Machine *Machines couplées*	**Günlük Çalışma Müddeti (Saat)** Daily Working Period (Hour) *Utilisation journalière (Heure)*	**Makinanın Yükleme Karakteristiği** Load Characteristics of Machines *Caractéristique des charges*		
		Hafif Yük U Uniform Load U *Charge uniforme U*	**Orta Yük M** Moderate Load M *Charge modérée M*	**Ağır Yük H** Heavy Load H *Charge élevée H*
Elekt. Motorlu / Elect. Motor / *Moteurs éléct.* **Türbin** / Turbin / *Turbine* **Hidrolik** / Hydrolic / *Hydraulique*	0…..3	0.8	1	1.5
	3….10	1	1.25	1.75
	10…24	1.25	1.5	2
Pistonlu Makinalar (4….6 Silindir Piston Machines (4….6 Cylindir) *Machine à pistons (4…..6 Cylindres)*	0…..3	1	1.25	2
	3….10	1.25	1.5	2
	10…24	1.5	1.75	2
Pistonlu Makinalar (1….2 Silindir) Piston Machines (1….2 Cylindir) *Machine à pistons (1…..2 Cylindres)*	0…..3	1.25	1.5	2
	3….10	1.5	1.75	2.25
	10…24	1.75	2	2.5

Kimya Endüstrisi		Chemical Industry		Industrie Chimique	
Soğutma tamburları	M	Cooling drums	M	Tambours de refroidissement	M
Karıştırıcılar	M	Mixers	M	Mixeurs	M
Çalkalayıcılar (Hafif Akışkanlar)	U	Agitators (Liquids)	U	Agitateurs (Liquides)	U
Çalkalayıcılar (Ağır Akışkanlar)	M	Agitators (Semi Liquids)	M	Agitateurs (Semi liquide)	M
Tambur kurutucuları	M	Drying drums	M	Tambours de séchage	M
Sanrifüjler	U	Centrifuges (Lights)	U	Centrifugeuse (Légère)	U
Sanrifüjler	H	Centrifuges (Heavy)	H	Centrifugeuse (Lourde)	H

Petrol Endüstrisi		Oil Industry		Pétrole et Hydrocarbures	
Boru hattı pompaları	M	Pipeline pumps	M	Pompes à oléoducs	M
Kuyu açma mekanizmaları	H	Rotary drilling equipment	H	Foreuse à cylindres	H

Vantilatör Ve Aspiratörler		Fans		Ventilations	
Pistonlu vantilatörler	M	Rotary piston blowers	M	Souffleurs rotatifs	M
Vantilatör (Aksiyal ve Radyal)	U	Blowers (Axial and Radial)	U	Souffleurs (Axe et radial)	U
Santrifüj (türbinli) körük	H	Centrifugal	H	Centrifugeuse	H

Kauçuk Makinaları		Rubber Machines		Industrie du Caoutchouc	
Ekstruder ve kanderler	H	Extruders and calenders	H	Extrudeuse	H
Yoğurma makinaları	H	Pug mills	H	Malaxeur	H
Karıştırıcılar	M	Mixers	M	Mixeurs	M
Silindirleme makinaları	H	Rolling mills	H	Presse	H

Ağaç İşleme Makinaları		Wood Working Machine		Industries Forestières	
Yontma tamburları	H	Backers	H	Presse à bois	H
Planya makinaları	M	Planing machines	M	Aplanisseuses	M
Ağaç işleme tezgahları	U	Wood working machines	U	Découpe de bois	U
Şerit testereler	H	Band saws	H	Scie	H

Yikama Makinaları		Washing Machines		Laveuses	
Yıkama makinaları	U	Washing machines	U	Machine de lavage	U
Tamburlu kurutucular	M	Tumblers	M	Tambours	M

Tahrik Makinası Torque Machine *Machines couplées*	**Günlük Çalışma Müddeti (Saat)** Daily Working Period (Hour) *Utilisation journalière (Heure)*	**Makinanın Yükleme Karakteristiği** Load Characteristics of Machines *Caractéristique des charges*		
		Hafif Yük U Uniform Load U *Charge uniforme U*	**Orta Yük M** Moderate Load M *Charge modérée M*	**Ağır Yük H** Heavy Load H *Charge élevée H*
Elekt. Motorlu / Elect. Motor / *Moteurs éléct.* **Türbin** / Turbin / *Turbine* **Hidrolik** / Hydrolic / *Hydraulique*	0…..3	0.8	1	1.5
	3….10	1	1.25	1.75
	10…24	1.25	1.5	2
Pistonlu Makinalar (4….6 Silindir Piston Machines (4….6 Cylindir) *Machine à pistons (4…..6 Cylindres)*	0…..3	1	1.25	2
	3….10	1.25	1.5	2
	10…24	1.5	1.75	2
Pistonlu Makinalar (1….2 Silindir) Piston Machines (1….2 Cylindir) *Machine à pistons (1…..2 Cylindres)*	0…..3	1.25	1.5	2
	3….10	1.5	1.75	2.25
	10…24	1.75	2	2.5

Vinç Tesisleri		Cranes		Grues	
Bom kaldırma	H	Derricking jib bomm gear	H	Bras ouvrant	H
Vinç yürüyüşerleri	U	Travelling gears	U	Grues(Charriot)	U
Yük kaldırma	H	Hoist gears	H	Grues	H
Dönüş tertibatları	U	Slewing gears	U	Pignons rotatifs	U

Metal İşleme Makinaları		Metal Working Machines		Métalurgie et Acieries	
Planya makineleri	S	Planing machine	S	Aplaniseuses	S
Çekiç tokmak	S	Hammer	S	Marteau	S
Oyma makinesi	S	Engraving machine	S	Graveuses	S
Presler	H	Presses	H	Presses	H
Makaslar (Giyotin)	M	Shears	M	Découpeuses	M
Sıcak basma presleri	H	Forging presses	H	Presse à forge	H
Takım tezgahları (Ana Tahrik)	M	Machines tools (Main Drives)	M	Machine outil (Axe principal)	M
Takım tezgahları (Yardımcı Tahrik)	U	Machines tools (Auxiliarly Drives)	U	Machine outil (axe secondaire)	U

Gıda Endüstri Makinaları		Food Industry Machines		Industrie Agroalimentaire	
Doldurma makinaları (Şişe, Kavanoz vs.)	U	Filling machines (Bottles, Contaniers.)	U	Embouteilleuse	U
Yoğurma makinaları	M	Kneading machines	M	Malaxeurs	M
Ambalaj makinaları	U	Packaging machines	U	Machine d'emballage	U
Şeker kamışı kırıcıları	M	Cane crushers	M	Presse à canne	M
Şeker kamışı kesicileri	M	Cane cutters	M	Découpeuse de canne	M
Şeker kamışı öğütücüleri	H	Cane millis	H	Broyeurs de cannes	H
Şeker pancarı kesicileri	M	Sugar beet cutters	M	Découpeuse de betteraves	M
Şeker pancarı yıkayıcıları	M	Suger beet washers	M	Laveuse à betteraves	M

Pompalar		Pumps		Pompes	
Pistonlu pompalar (Q1 / 100)	H	Piston pumps (Q1 / 100)	H	Pompes à piston (Q1 / 100)	H
Pistonlu pompalar (Q1 / 100 : 1 / 20)	M	Piston pumps (Q1 / 100 : 1 / 20)	M	Pompes à piston (Q1 / 100 : 1 / 20)	M
Türbin (Hafif Akışkan)	U	Turbin (Light - Liquids)	U	Turbine (Liquides légers)	U
Türbin (Ağır Akışkan)	M	Turbin (Semi - Liquids)	M	Turbine (Semi-liquide)	M

Tahrik Makinası Torque Machine *Machines couplées*	**Günlük Çalışma Müddeti (Saat)** Daily Working Period (Hour) *Utilisation journalière (Heure)*	**Makinanın Yükleme Karakteristiği** Load Characteristics of Machines *Caractéristique des charges*		
		Hafif Yük U Uniform Load U *Charge uniforme U*	**Orta Yük M** Moderate Load M *Charge modérée M*	**Ağır Yük H** Heavy Load H *Charge élevée H*
Elekt. Motorlu / Elect. Motor / *Moteurs éléct.* **Türbin** / Turbin / *Turbine* **Hidrolik** / Hydrolic / *Hydraulique*	0…..3	0.8	1	1.5
	3….10	1	1.25	1.75
	10…24	1.25	1.5	2
Pistonlu Makinalar (4….6 Silindir Piston Machines (4….6 Cylindir) *Machine à pistons (4…..6 Cylindres)*	0…..3	1	1.25	2
	3….10	1.25	1.5	2
	10…24	1.5	1.75	2
Pistonlu Makinalar (1….2 Silindir) Piston Machines (1….2 Cylindir) *Machine à pistons (1…..2 Cylindres)*	0…..3	1.25	1.5	2
	3….10	1.5	1.75	2.25
	10…24	1.75	2	2.5

Kağıt Endüstri Makinaları		Paper Industry Machines		Indusrtie Papetière	
Düzleme silindirleri	H	Glazing Cylinders	H	Cylindres appliniseurs	H
Holender	M	Hollenders	M	Holenders	M
Kağıt hamur makineleri	H	Pulpers	H	Pulpeuses	H
Kalender	H	Calender	H	Calendrier	H
Taş presler	H	Stone Presses	H	Presse	H
Vakum presler	H	Vacum Presses	H	Presse à aspiration	H
Kuru silindirler	H	Drying Cylinders	H	Cylindres de séchage	H

Taş ve Kil Makinaları		Stone and Clay Working Machines		Roches et Argiles	
Kırıcılar	H	Breakers	H	Broyeurs	H
Döner fırınlar	M	Rotary ovens	M	Four rotatifs	M
Çekiçli değirmenler	H	Hammer mills	H	Broyeux à marteaux	H
Bilyalı değirmenler	H	Ball mills	H	Broyeurs à billes	H
Çarpmalı öğütücüler	H	Beater mills	H	Broyeux à percussions	H
Tuğla presleri	H	Brick presses	H	Presse à pavès	H

Tekstil Makinaları		Textile Machines		Industrie du Textile	
Sargı makinaları (Q1 / 100)	M	Batchers (Q1 / 100)	M	Machines d'emballages	M
Basma ve boyama mak.	M	Printing and dyeing machines	M	Presse et imprimante	M
Dokuma tezgahları	M	Looms	M	Tisseuse	M

Kompresörler		Compressors		Compresseurs	
Turbo kompresör	M	Turbo compressors	M	Turbocompresseurs	M

Silindirleme ve Çekme Tesisleri		Metal Rolling Mills		Aciéries	
Sac kesme makineleri	H	Sheet metal cutting machines	H	Découpeuses	H
Hız ayarlı silindirler	M	Roller adjustment drivers	M	Ajusteuse à presses	M
Çubuk kesme makinaları	H	Billet shears	H	Scies	H
Kabuk sıyırma makinaları	H	Descaling machines	H	Eplucheuse	H
Tel çekme tesisleri	M	Wire drawing machines	M	Enrouleuses	M
Soğuk çekme tesisleri	H	Cooling beds	H	Bande de refroidissements	H
Rulolu nakil (Hafif)	M	Roller tables (Lights)	M	Enrouleuses (légères)	M
Rulolu nakil (Ağır)	H	Roller tables (Heavy)	H	Enrouleuses (lourdes)	H
Silindir haddeleme	H	Manipulators	H	Cylindres	H

Tahrik Makinası Torque Machine *Machines couplées*	**Günlük Çalışma Müddeti (Saat)** Daily Working Period (Hour) *Utilisation journalière (Heure)*	**Makinanın Yükleme Karakteristiği** Load Characteristics of Machines *Caractéristique des charges*		
		Hafif Yük U Uniform Load U *Charge uniforme U*	**Orta Yük M** Moderate Load M *Charge modérée M*	**Ağır Yük H** Heavy Load H *Charge élevée H*
Elekt. Motorlu / Elect. Motor / *Moteurs éléct.* **Türbin** / Turbin / *Turbine* **Hidrolik** / Hydrolic / *Hydraulique*	0…..3	0.8	1	1.5
	3….10	1	1.25	1.75
	10…24	1.25	1.5	2
Pistonlu Makinalar (4….6 Silindir Piston Machines (4….6 Cylindir) *Machine à pistons (4…..6 Cylindres)*	0…..3	1	1.25	2
	3….10	1.25	1.5	2
	10…24	1.5	1.75	2
Pistonlu Makinalar (1….2 Silindir) Piston Machines (1….2 Cylindir) *Machine à pistons (1…..2 Cylindres)*	0…..3	1.25	1.5	2
	3….10	1.5	1.75	2.25
	10…24	1.75	2	2.5

Kontrol ve bakım redüktörler

- Redüktörlerin yağ seviyesi ve miktarını kontrol ediniz. Yağın cinsini İ.MAK kataloğunda yer alan yağ çizelgelerini kullanarak seçiniz.
- Havalandırma tapasının faal olup olmadığına bakınız. Hava tahliye deliği çalışmaz ise redüktör gövdesinin içinde biriken hava, basınç oluşturarak keçelerden yağ sızmasına sebep olur. Böylece yağ azalarak çevre kirliliğine yol açar ve redüktörün verimli çalışmasını engellemiş olur.
- Redüktör bağlantı cıvatalarının gevşeyip gevşemediğini kontrol ediniz, gevşeyen cıvatalar var ise sıkmak suretiyle tedbir alınız. Redüktör montajında meydana gelen eksen kaçıklığında zararlı sarsıntılara dikkat ediniz.
- Redüktörün ilk çalıştırmadan 500 saat sonra, sonraki her 6000 saatte periyodik olarak yağını değiştiriniz.
- Özel hususlar ve çalışma şartları hakkında mutlaka firmamıza danışınız.

Control and maintenance gearboxes

- Check the oil levels and quantity of your gearboxes. Choose the type and quantity of oil from the İ.MAK catalogue.
- Check if the ventilation stopper is active or not. If the air evacuation hole does not work properly, the accumulated air in the gearbox trunk might causes pressure and gas leakage from the mats.
- Before starting your geared motors, proceed to the checking of connection bolts and screw. Check if they have loosened or not during transport or installation. Take measures by firming loosened bolts. A wrong connexion might create vibration to the axis and conduct to damage of the geared motor.
- Change the oil after 500 hours of initial operation and periodically every 6000 hours of operating the geared motor.
- If you are facing any technical issue, please consult the user guide delivered with the geared motor. In case of special issue or emergency please directly contact your reseller or the closest I-MAK technical center.

Contrôle et maintenance des réducteurs

- Vérifiez le niveau et la quantité d'huile de façons régulière. Consultez le catalogue I-MAK pour obtenir les niveaux d'huiles requis en fonction du modèle et de la position du réducteur.
- Vérifiez le fonctionnement de la valve d'aération. L'absence d'évacuation de l'air peut provoquer une augmentation de la pression dans le réducteur pouvant conduire à des fuites d'huiles.
- Contrôler les vis et boulons reliant le moteur au réducteur, en cas de mauvaise fermeture le moteur peut créer des vibrations de l'arbre entrainant l'endommagement du motoréducteur.
- La première vidange doit être effectuée après 500 heures d'utilisations du motoréducteur, les vidanges suivantes doivent être effectuées au bout de 6000 heures d'utilisations.
- En cas de problèmes techniques, consultez le manuel d'utilisation fournis à la livraison du motoréducteur. En cas de problèmes particulier ou d'urgence, veillez à contacter votre revendeur ou le centre technique I-MAK le plus proche.

Frenler

1) Pervanesiz frenler
Elektrik motorunun arkasındaki soğutma kapağı takılmayarak bunların yerine monte edilen frenlerdir. Kısa süreli çalışan motorlarda bu tip frenler kullanılır.

2) Pervaneli frenler
Elektrik motorunun motor mili ve fan kapağı uzatılarak monte edilen frenlerdir. Devamlı çalışan motorlarda bu tip frenler kullanılır.

3) Mikro anahtarlı frenler
Elektrik motorlarının demeraj akımının yüksek olması ve freni açmada gecikmesi dolayısıyla istenmeyen durumlar meydana gelir. Bunları önlemek için, frenin üzerine konulan bir mikro anahtar vasıtasıyla freni açtıktan hemen sonra motorun çalışması sağlanır. Bu tip frenler özellikle büyük güçteki redüktörlerin elektrik motorları için uygundur.

Redüktörlerin ani veya gecikmeli frenlenmesi
Gecikmeli veya ani frenlenen redüktörler birçok sanayi makinalarında kullanılmaktadır. Bu sebepten frenler hem ani hem de gecikmeli fren yapacak şekilde dizayn edilmişlerdir. Frenlerin elektrik bağlantısında yapılacak bir değişiklikle ani veya gecikmeli frenleme sağlanır. Her frenli redüktör ile birlikte elektrik bağlantı şeması verilmektedir.

Frenli redüktörleri teslim aldığınızda fren bağlantısının gecikmeli olarak yapıldığını unutmayınız.

Brakes

1) Brakes without cooling fan
Brake which is mounted on fan side of electric motor by cancelling cooling fan and fan cover of motor. This type of brake is used for a short period running motors.

2) Brakes with cooling fan
Brake which is mounted on fan side of electric motor by extending motor shaft and fan cover to use fan. This type of brake is necesarry for continuously running motors

3) Brakes with micro switch
Because of high starting current of motors delayed disengagement of magnetic brakes undesirable conditions occur. To prevent this situation, starting of motor is provided after disengagement of brake by means of brake by means of a micro switch installed on the brake. This type of brake is especially suitable for high power geared motors.

Non-delayed or delayed braking of geared motors
Delayed or non-delayed geared motors are used in many industrial machines. Therefore, brakes are designed to operate in both delayed and non-delayed conditions. This is supplied with each brake mounted geared motor.

Please do not forget that the brakes are connected for delayed operations standard.

Freins

1) Freins sans hélices de refroidissements
Freins montés directement à l'emplacement de l'hélice de refroidissement. Dans cette configuration l'hélice et le couvercle extérieur sont retirés. Ce type de configuration est conseillé pour les applications et moteurs avec une durée de fonctionnement réduite.

2) Freins avec hélice de refroidissement
Le frein est monté directement à l'arrière de l'emplacement de l'hélice de refroidissement. Ce type de configuration nécessite une prolongation de l'arbre d'entrainement du moteur. Ce type de configuration est conseillé pour les applications nécessitant un usage continu du frein.

3) Frein à ouverture manuelle
La forte charge appliquée par le moteur sur certains freins entraine une prolongation de la période de blocage. Afin d'éviter un arrêt prolongé certains freins sont équipés d'un clé d'ouverture manuelle, cette option permet un redémarrage immédiat du moteur. Ce type de freins est particulièrement adapté aux moteurs à forte puissance.

Freins avec ou sans retardement d'arrêt.
Les motoréducteurs équipés de freins à retardement d'arrêt sont utilisés dans notre nombreuses applications et secteurs.
Les freins sont conçus pour opérés avec ou sans l'option de retardement. Cette option est disponible pour l'ensemble de notre gamme de motoréducteurs. A noter que le freins dois être correctement connecté pour permettre un fonctionnement optimale de cette option.

Fren alışma Voltajları

Frenler 24V-DC veya 220V-AC ile çalışacak şekilde imal edilir. 220 voltluk frenlerin bağlantıları motor klemens kutusunda yapılmaktadır. 24V ile çalışan frenlerin bağlantısı için ayrıca 220/30V trafo ile doğrultucu gerekmektedir. İstenildiğinde bunlar firmamızca temin edilmektedir.

Frenli redüktörlerin elektrik motorlarına toprak hattı bağlantısı muhakkak yapılmalıdır.

Fren Siparişlerinde Belirtilmesi Gereken Hususlar

1) Fren Momenti
2) Fren Tipi
3) Fren voltajı

24V ile çalışan fren siparişlerinde trafolu doğrultucu istenip istenmediğini lütfen belirtiniz.

Fren bağlantı şemaları

Operating Voltage of Brakes

Brakes are manufactured to operate at 24V-DC or 220V-AC. 220V brakes are connected to the motor terminal box directly, but 220/30V transformer with rectifier unit needed for 24V operating brakes. This unit will be supplied if required.

Geared brake motors must be earthed.

Required Ordering Data for Brakes

1) Brake Torque
2) Brake Type
3) Brake Operating Voltage.

Please inform as if you need 220/30V transformer with rectifier unit for 24V operating brakes

Brake connection types

Voltage et Caractéristique des Freins

Les freins sont adaptés à un voltage de 24V-DC ou 220V-AC. Les freins fonctionnant sous 220V sont directement connectés à la boite de Klemens, Les freins fonctionnant sous 24V doivent impérativement être couplés à un transformeur, cette unité est disponible en option.

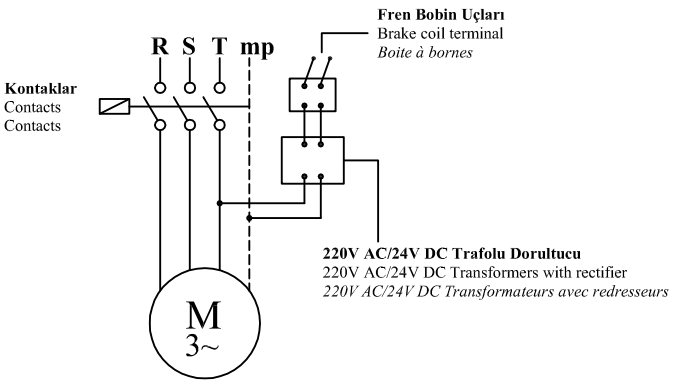
Données Nécessaire à la Commande d'un Frein.

1) Couple des freins
2) Type de freins
3) Type de voltage

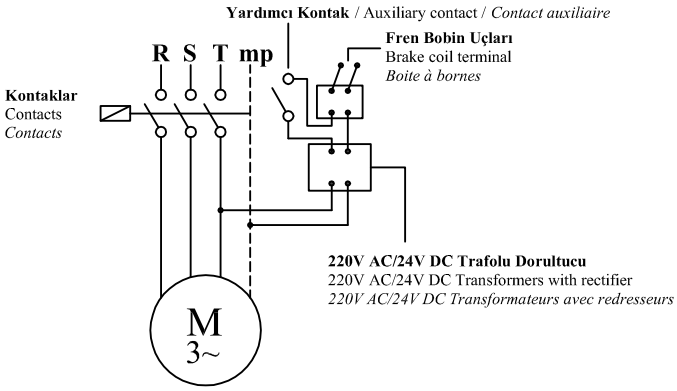
Veillez à nous informer si une unité de transformation 220/30V est nécessaire au branchement de votre frein (24 V)

Type de connexion des freins

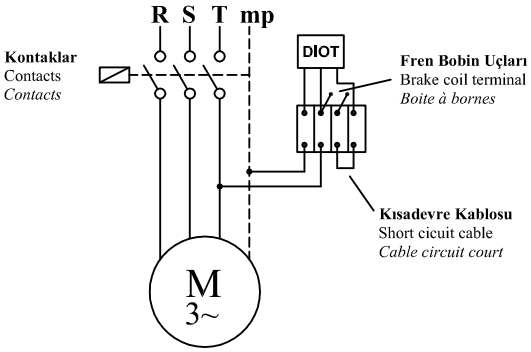
Gecikmeli Frenleme (24V)
Delayed Running Brake (24V)
Frein à retardement (24 V)



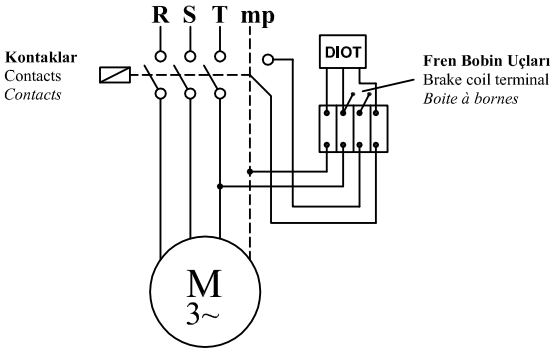
Ani Frenleme (24V)
Sudden Running Brake (24V)
Frein à arrêt immédiat(24 V)



Gecikmeli Frenleme (220V)
Delayed Running Brake (220V)
Frein à retardement (220 V)



Ani Frenleme (220V)
Sudden Running Brake (220V)
Frein à arrêt immédiat(220 V)



Tablo 1 / Table 1 / *Tableau 1*

Motor Büyüklüğü Motor Size *Dimensions du moteur*	n1 d/d / r.p.m / r.p.m			
	750	1000	1500	3000
	Güç / Power / *Puissance* [kW]			
63			0,12 - 0,18	0,18 - 0,25
71	0,09 - 0,12	0,18 - 0,28	0,25 - 0,37	0,37 - 0,55
80	0,18 - 0,25	0,37 - 0,55	0,55 - 0,75	0,75 - 1,1
90 S	0,37	0,75	1,1	1,5
90 L	0,55	1,1	1,5	2,2
100	0,75 - 1,1	1,5	2,2 - 3	3
112	1,5	2,2	4	4
132 S	2,2	3	5,5	5,5 - 7,5
132 M	3	4 - 5,5	7,5	11
160 M	4-5,5	7,5	11	15
160 L	7,5	11	15	18,5
180 M			18,5	22
180 L	11	15	22	
200	15	18,5 - 22	30	30 - 37
225 S	18,5		37	
225 M	22	30	45	45
250	30	37	55	55
280 S	37	45	75	75
280 M	45	55	90	90

Tablo 2 / Table 2 / *Tableau 2*

Motor Büyüklüğü Motor Size *Dimensions du moteur*	**Fren Momenti [kgm]** Braking Torque [kgm] *Puissance de freinage [kgm]*																			
	Hafif Frenleme Light Braking *Freins legers*										**Kuvvetli Frenleme** Strong Braking *Freins lourds*									
	0,5	1	2,5	4	5	10	20	30	50	80	0,5	1	2,5	4	5	10	20	30	50	80
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																				
250																				
280 S																				
280 M																				

Bazı uygulamalarda redüktör kullanıcıları redüktör durduğunda sistemin ağırlıkla beraber geri kaymasını istemez.
Bu gibi durumlarda redüktörlerde kilitli rulman uygulaması yapılır. Buna göre aşağıda verilen tiplere göre dönüş yönü belirtilmelidir.

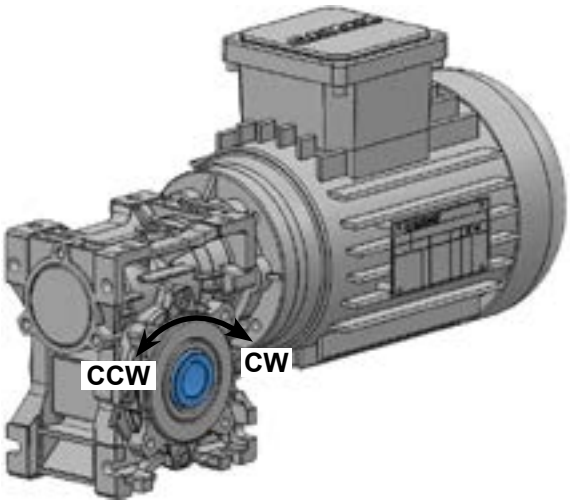
Ccw : Saat Yönünün Tersi
Cw : Saat Yönü

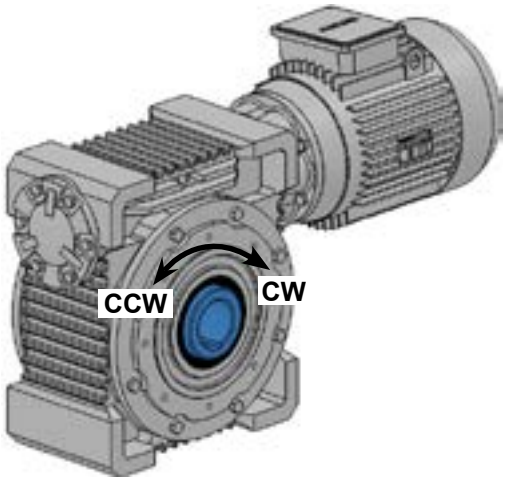
In certain applications when the machinery stops, the operator would not like the gearbox to slip and loose its adjustment. Under these circumstances, the gearbox would be equipped with a locked ball bearing. Accordingly, the direction of rotation should be noted as shown below.

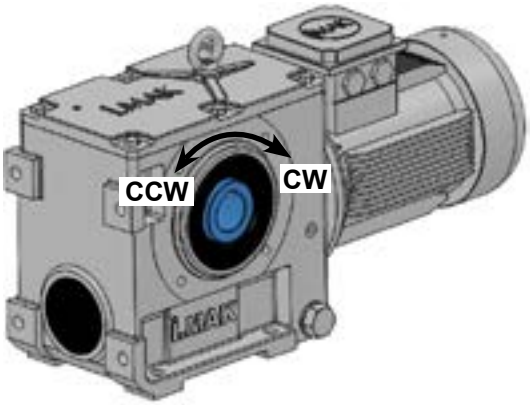
Ccw : Counterclockwise
Cw : Clockwise

Afin de répondre aux besoins de précision et de sécurité de certaines applications, nos réducteurs sont disponibles avec une option anti-retour. Cette option se compose d'un roulement anti-retour qui permet au réducteur de rester dans la position d'arrêt jusqu'au redémarrage de l'application par l'opérateur.

Ccw : Sens anti-horaire
Cw : Sens horaire





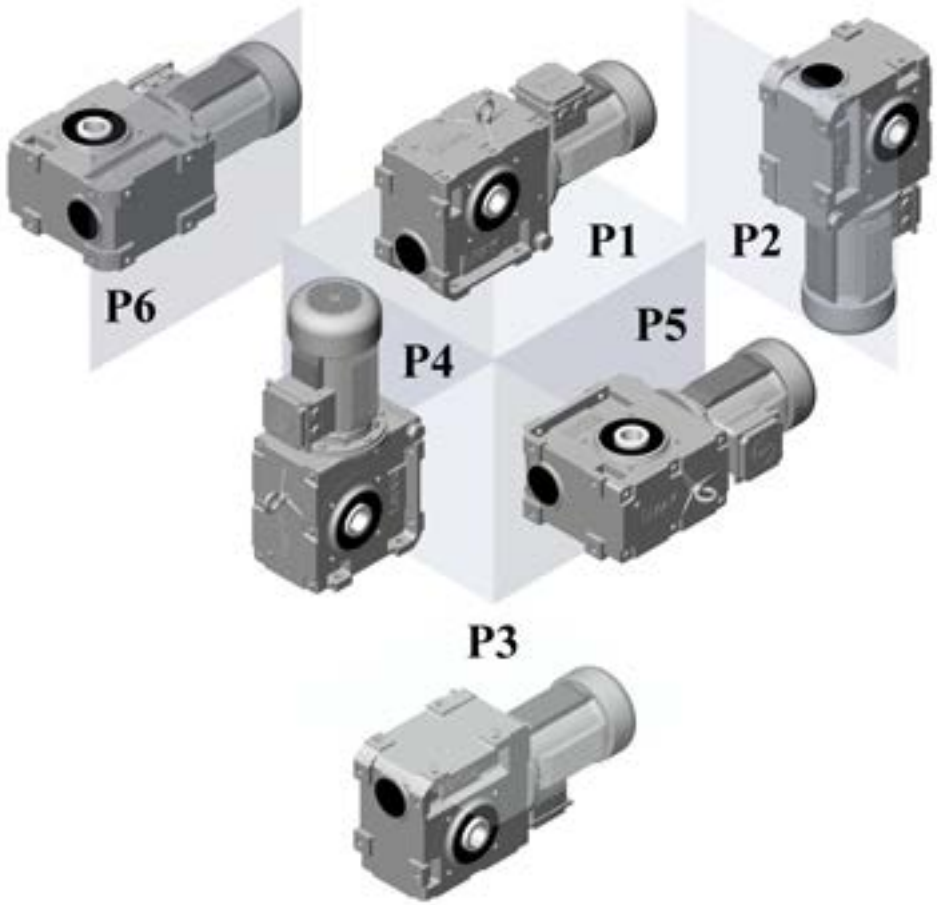


İRSD

Ayak montajlı redüktörlerde montaj pozisyonu “P” ile gösterilir

Foot mounted gearboxes position are defined as “P”

Les positions de montages des réducteurs à pattes sont définis par “P”



Flanş montajlı redüktörlerde montaj pozisyonu “V” ile gösterilir

Flange mounted gearboxes position are defined as “V”

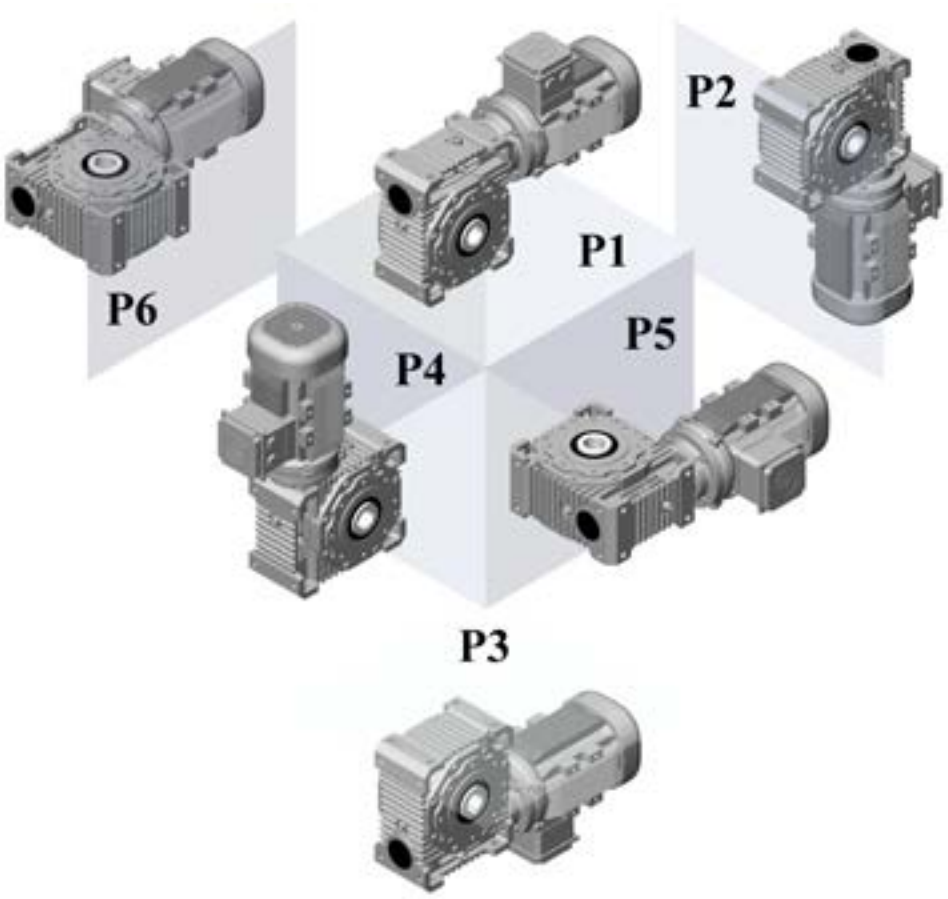
Les positions de montages des réducteurs à brides sont définis par “V”

İRSA.... ,S....

Ayak montajlı redüktörlerde montaj pozisyonu “P” ile gösterilir

Foot mounted gearboxes position are defined as “P”

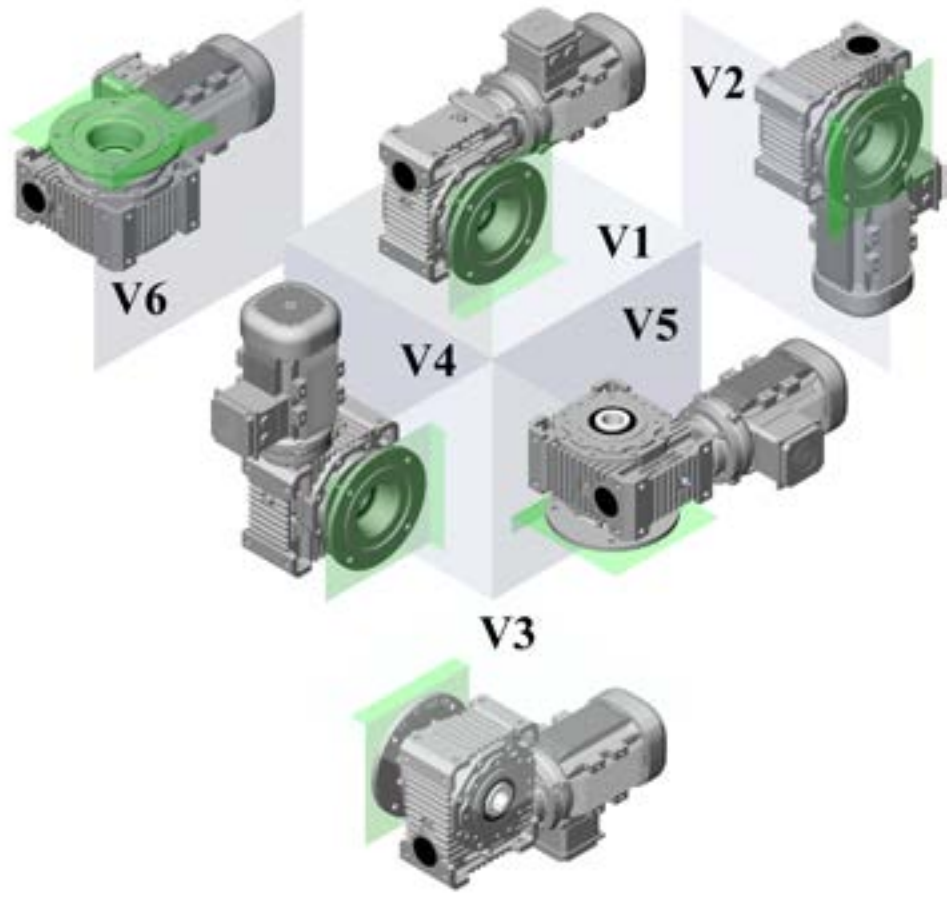
Les positions de montages des réducteurs à pattes sont définis par “P”



Flanş montajlı redüktörlerde montaj pozisyonu “V” ile gösterilir

Flange mounted gearboxes position are defined as “V”

Les positions de montages des réducteurs à brides sont définis par “V”



Tip Type *Type*	**Bağlantı pozisyonları için yağ miktarları (litre)** Oil quantities per mounting positions (liter) *Quantités d'huiles en fonction de la position de montage (litres)*											
	P1	V1	P5	P6	V5	V6	P3	V3	P4	P2	V4	V2
SM 30	0,04											
SM 40	0,08											
SM 50	0,16											
SM 63	0,34											
SM 75	0,55											

Tip Type *Type*	**Bağlantı pozisyonları için yağ miktarları (litre)** Oil quantities per mounting positions (liter) *Quantités d'huiles en fonction de la position de montage (litres)*											
	P1	V1	P5	P6	V5	V6	P3	V3	P4	P2	V4	V2
İRS_M 52	0,6		0,65				0,3		0,5			
İRS_M 65	1,25		1,35				0,75		1			
İRS_M 82	2,25		2,35				1		2			
İRS_M 102	2,3		2,5				1,5		2			
İRS_M 127	4,5		4,75				3		4			
İRS_M 162	12		12,5				8		10			
İRS_M 201	18		24				23		21			
İRS_M 250	31		40				38		35			

Tip Type *Type*	**Bağlantı pozisyonları için yağ miktarları (litre)** Oil quantities per mounting positions (liter) *Quantités d'huiles en fonction de la position de montage (litres)*											
	P1	V1	P5	P6	V5	V6	P3	V3	P4	P2	V4	V2
İRSD_ 64	2		1,8				2		1,5			
İRSD_ 81	3		2,5				3		2			
İRSD_ 101	5		4				5		4			
İRSD_ 126	13		12				13		12			
İRSD_ 161	17		16				17		16			

Yağ Cinsi Lubrsicant *Art des Lubrifiant*	**ISO Viskozite sınıfı** Viscocity class *Catégorie de viscosite*	DIN 51517-3	**Kullanım sıcaklığı** Usage temperature *Gebrauchs température d'usage C°*	**Firma** Firm *Marque*						
				Mobil	ARAL	bp		Castrol	KLÜBER	BELGIN
Mineral Yağ Mineral Oil *Huile Minéral*	ISO VG 320	CLP	0…….+100	Mobilgea XMP 320	Degol BG 320	Energol GR-XP 320	Omala F320	Alpha SP 320	GEM 1 320 N	Belgear M - 320 - süper
	ISO VG 220	CLP	-5…….+100	Mobilgea XMP 220	Degol BG 220	Energol GR-XP 220	Omala F220	Alpha SP 220	GEM 1 220 N	Belgear M - 220 - süper
	ISO VG 150	CLP	-5…….+100	Mobilgea XMP 150	Degol BG 150	Energol GR-XP 150	Omala 150	Alpha SP 150	GEM 1 150 N	Belgear M - 150 - süper
	ISO VG 100	CLP	-5…….+100	-	Degol BG 220	Energol GR-XP 220	Omala 100	Alpha SP 100	GEM 1 100 N	Belgear M - 100 - süper
Sentetik Yağ Synthetic Oil *Huile Synthétique*	ISO VG 320	CLP PG	-25…….+140	Gylgoyle 320	Degol GS 320	Enersyn SG-XP320	Tivela S 320	Alphasyn PG 320	Klübersynth GH 6-320	-
	ISO VG 220	CLP PG	-25…….+140	-	Degol GS 220	Enersyn SG-XP220	Tivela S 220	Alphasyn PG 220	Klübersynth GH 6-220	-
	ISO VG 150	CLP PG	-30…….+140	-	Degol GS 150	Enersyn SG-XP150	Tivela S 150	Alphasyn PG 150	Klübersynth GH 6-150	-
	ISO VG 100	CLP PG	-30…….+140	-	-	-	-	-	Klübersynth GH 6-100	-

W1

W2

Standart montaj şekli "W1" dir. Aksi belirtilmediği sürece standart şekilde montajlanır.

The standard mounting position is "W1", if the mounting position is not defined during the order, the mounting position is always "W1"

La position de montage standard est W1, si aucune position de montage n'est précisée lors de la prise de commande, la position W1 sera attribuée par défaut.

N1

N2

E1

E2

"1" konumunda ikinci redüktör FL-SL opsiyonları ile birlikte uygulanır. "2"konumunda ikinci redüktör FR-SR opsiyonları ile birlikte uygulanır.

The first column is defining the mounting position of the second gearbox when on the left side.
The second column is defining the mounting position of the second gearbox when on the left side.

La première colonne définit la position de montage du second réducteur lorsqu'il est installé sur la gauche du premier réducteur.
La seconde colonne définit la position de montage du second réducteur lorsqu'il est installé sur la droite du premier réducteur.

S1

S2

Standart klemens pozisyonu “KP1” dir, aksi belirtilmediği sürece standart pozisyonda yapılır.

The standard mounting position is “KP1”, if the mounting position is not defined during the order, the mounting position is always “KP1”

La position de montage standard est “KP1”, si aucune position de montage n’est précisée lors de la prise de commande, la position”KP1” sera attribuée par défaut.

KP1

KP4

KP2

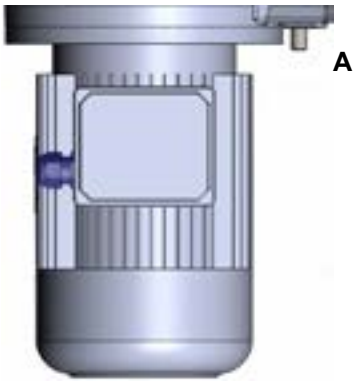
KP3

Rakor Yönleri
Cable Entry / *Entrée des câbles*

Standart rakor yönü “A” dır, aksi belirtilmediği sürece standart yönde yapılır.

The standard position of the cable entry is “A”, if the position is not defined during the order, the mounting position is always “A”

La position standard de l’entrée des câbles est” A”, si aucune position de montage n’est précisée lors de la prise de commande, la position” A” sera attribuée par défaut.



A YÖNÜ

B YÖNÜ

1500 d/d Motorlar / Motors / *Moteurs*

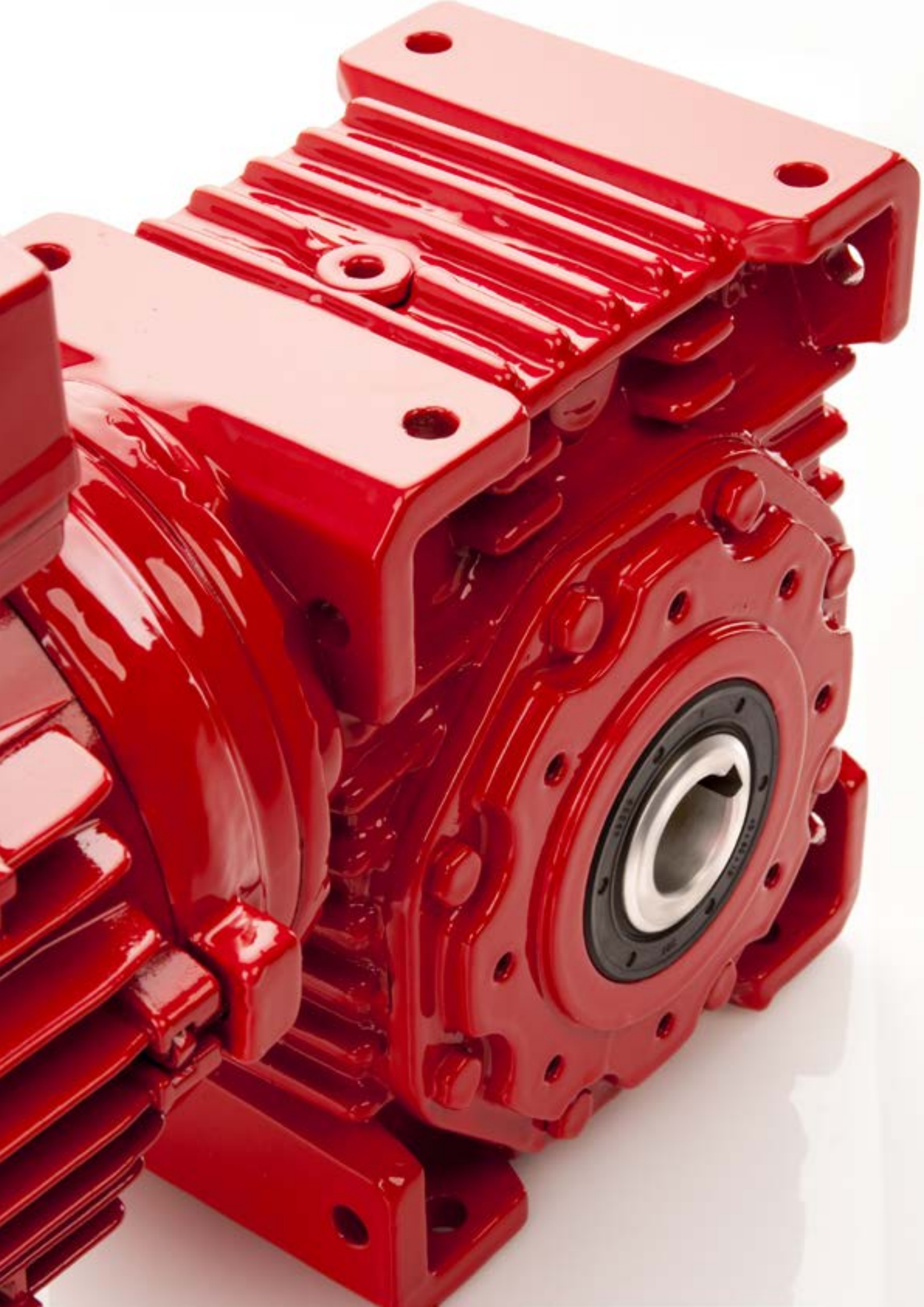
Kod	Güç (KW)	Hız (d/d)	Anma Akımı	Moment (Nm)	Verim		IE Sınıfı	Çalışma Sınıfı
					100%	75%		
Code	Power (KW)	Speed (r.p.m.)	Rated Current	Torque (Nm)	Efficiency		IE Class	Duty Type
					100%	75%		
Code	Puissance (kW)	Vitesse (r.p.m)	Ampère	Couple (Nm)	Efficience		Classe IE	Classe d'utilisation
					100%	75%		
63M4a	0,12	1365	0,41	0,84	57,1	57,1	IE1	S1
63M4b	0,18	1340	0,60	1,28	59,7	59,7	IE1	S1
C63M4	0,25	1350	0,95	1,77	60,7	60,7	IE1	S1
71M4a	0,25	1380	0,81	1,73	61,9	61,8	IE1	S1
71M4b	0,37	1390	1,15	2,54	68,1	68,1	IE1	S1
C71M4	0,55	1385	1,50	3,75	68,6	68,6	IE1	S1
80M4a	0,55	1365	1,60	3,85	69,1	69,0	IE1	S1
80M4b	0,75	1410	2,10	5,08	79,6	79,6	IE2	S1
90S4	1,1	1420	2,60	7,39	82,0	82,0	IE2	S1
90L4	1,5	1430	3,50	10,02	83,0	83,0	IE2	S1
C90L4	2,2	1435	5,00	14,60	84,4	84,5	IE2	S1
100L4a	2,2	1435	5,00	14,60	84,5	84,6	IE2	S1
100L4b	3	1435	6,60	20,00	85,5	85,7	IE2	S1
C100L4	4	1455	8,20	26,30	86,5	86,6	IE2	S1
112M4	4	1455	8,20	26,30	86,7	86,8	IE2	S1
132S4	5,5	1465	11,20	35,90	87,9	88,8	IE2	S1
132M4	7,5	1465	15,40	48,90	89,0	89,1	IE2	S1
C132M4	11	1465	21,00	71,70	89,9	90,0	IE2	S1
160M4	11	1465	21,00	71,70	90,0	90,1	IE2	S1
160L4	15	1465	29,80	97,80	90,6	90,7	IE2	S1
180M4	18,5	1470	34,50	120,00	91,3	91,4	IE2	S1
180L4	22	1470	42,50	143,00	91,7	91,4	IE2	S1

1000 d/d Motorlar / Motors / *Moteurs*

Kod	Güç (KW)	Hız (d/d)	Anma Akımı	Moment (Nm)	Verim		IE Sınıfı	Çalışma Sınıfı
					100%	75%		
Code	Power (KW)	Speed (r.p.m.)	Rated Current	Torque (Nm)	Efficiency		IE Class	Duty Type
					100%	75%		
Code	Puissance (kW)	Vitesse (r.p.m)	Ampère	Couple (Nm)	Efficience		Classe IE	Classe d'utilisation
					100%	75%		
71M6a	0,18	915	0,61	1,88	63,0	62,9	IE1	S1
71M6b	0,25	915	0,83	2,61	63,8	63,7	IE1	S1
80M6a	0,37	910	1,10	3,88	72,9	72,8	IE1	S1
80M6b	0,55	890	1,50	5,90	70,4	70,3	IE1	S1
90S6	0,75	920	2,00	7,79	75,9	75,9	IE2	S1
90L6	1,1	930	2,90	11,30	78,1	78,1	IE2	S1
100L6	1,5	945	3,60	15,20	79,8	79,7	IE2	S1
112M6	2,2	950	5,40	22,00	81,8	81,7	IE2	S1
132S6	3	960	6,90	29,80	83,3	83,2	IE2	S1
132M6a	4	960	9,00	39,80	84,6	84,5	IE2	S1
132M6b	5,5	960	12,30	54,70	86,0	86,0	IE2	S1
160M6	7,5	960	15,00	74,60	87,2	87,2	IE2	S1
160L6	11	965	22,00	108,90	88,7	88,7	IE2	S1
180L6	15	965	29,00	148,00	89,7	89,7	IE2	S1

* Motor teknik değerleri GAMAK marka motorlar içindir, kullanılan diğer markalar için değişiklik gösterebilir.

Tip Type	**Tahvil** / Ratio / *Rapport de réduction*	**Motor büyüklüğü** / Motor frame size / *Dimensions du moteur*				
		IEC 63 B14	IEC 71 B14	IEC 80 B14	IEC 90 B14	IEC 100 B14
S 30	7,5					
	10					
	15					
	20					
	25					
	30					
	40					
	50					
	60					
	80					
S 40	7,5					
	10					
	15					
	20					
	25					
	30					
	40					
	50					
	60					
	80					
	100					
S 50	7,5					
	10					
	15					
	20					
	25					
	30					
	40					
	50					
	60					
	80					
	100					
S 63	7,5					
	10					
	15					
	20					
	25					
	30					
	40					
	50					
	60					
	80					
	100					
S 75	7,5					
	10					
	15					
	20					
	25					
	30					
	40					
	50					
	60					
	80					
	100					



Sonsuz Vidalı Motorlu Redüktörler Güç ve Devir Tabloları

Worm Geared Motors - Performances Tables

Moto-réducteurs à roue et vis sans fin avec moteur - Table de performances

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	**i** Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	**Tip** Type			kg
	0,9	1500	1,01	553	8300	İRSAM İRSFM	82 S 40 / 63 M 4a	116	30 32
	1,1	1200	1,19	472	8300				
	1,5	900	1,51	370	8300				
	1,8	750	1,74	322	8300				
	2,3	600	2,09	268	8300				
	3,0	450	2,61	215	8300				
	4,6	300	3,77	149	8300				
	6,1	225	4,84	116	8300				
	0,9	1500	0,90	495	7380	SM	75 S 40 / 63 M 4a	98	15
	1,1	1200	1,10	415	7380				
	1,5	900	1,30	335	7380				
	1,8	750	1,50	299	7380				
	2,3	600	1,80	248	7380				
	2,7	500	2,01	188	7380				
	3,4	400	2,50	164	7380				
	4,6	300	3,30	134	7380				
	5,5	250	3,20	120	7380				
	1,5	900	0,80	319	6270	SM	63 S 30 / 63 M 4a	96	11
	1,8	750	1,00	285	6270				
	2,3	600	1,10	237	6270				
	2,7	500	1,10	217	6270				
	3,4	400	1,60	156	6270				
	4,6	300	2,10	127	6270				
	5,5	250	2,00	117	6270				
0,12	6,8	200	2,60	97	6270				
0,16	9,1	150	3,40	77	6270				
	2,7	500	0,70	170	4840	SM	50 S 30 / 63 M 4a	94	8,1
	3,4	400	0,80	147	4840				
	4,6	300	1,20	122	4840				
	5,5	250	1,00	110	4840				
	6,8	200	1,30	94	4788				
	9,1	150	1,80	74	4350				
	13,7	100	2,60	54	3800				
	13,7	100	1,30	41	4280	SM	50 / 63 M 4a	88	6,8
	17,1	80	1,80	35	3973				
	13,7	100	0,70	39	3118	SM	40 / 63 M 4a	86	5,6
	17,1	80	1,00	35	2895				
	22,8	60	1,30	29	2630				
	27,3	50	1,60	26	2475				
	34,1	40	2,10	22	2298				
	45,5	30	2,80	17	2087				
	54,6	25	2,50	16	1964				
	68,3	20	3,30	13	1824				
	27,3	50	0,80	23	1286	SM	30 / 63 M 4a	84	4,7
	34,1	40	1,00	20	1194				
	45,5	30	1,30	16	1085				
	54,6	25	1,60	14	1021				
	68,3	20	1,50	12	948				
	91,0	15	2,00	10	861				
	136,5	10	2,80	7	752				
	182,0	7,5	3,20	5	750				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	1,0	1409	0,79	1257	11800	İRSAM İRSFM	102 İR 43 / 63 M 4b	124	52 56
	1,2	1091	1,03	974	11800				
	1,6	842	1,33	751	11800				
	2,0	685	1,63	611	11800				
	1,5	900	0,99	565	7700	İRSAM İRSFM	82 S 40 / 63 M 4a	116	31 33
	1,8	750	1,14	492	7700				
	2,2	600	1,37	410	7700				
	3,0	450	1,71	328	7700				
	4,5	300	2,46	227	7700				
	6,0	225	3,17	177	7700				
	1,5	900	0,90	502	7420	SM	75 S 40 / 63 M 4b	98	15
	1,8	750	1,00	448	7420				
	2,2	600	1,20	372	7420				
	2,7	500	1,30	282	7420				
	3,4	400	1,70	246	7420				
	4,5	300	2,20	200	7420				
	5,4	250	2,10	180	7420				
	6,7	200	2,80	150	7420				
	2,7	500	0,90	265	6245	SM	63 S 30 / 63 M 4b	96	11
	3,4	400	1,10	228	6245				
	4,5	300	1,50	175	6245				
	5,4	250	1,40	171	6110				
	8,9	150	1,90	113	5650				
0,18	13,4	100	1,90	81	4950				
0,25	4,5	300	0,80	183	4800	SM	50 S 30 / 63 M 4b	94	8,8
	6,7	200	0,90	141	4700				
	8,9	150	1,20	112	4400				
	9,2	100	1,40	92	6250	SM	63 / 71 M 6a	90	11
	11,4	80	1,70	71	6030				
	15,3	60	2,30	68	5450				
	18,3	50	2,70	59	5100				
	22,9	40	3,40	50	4750				
	11,4	80	0,90	76	4521	SM	50 / 71 M 6a	88	8,1
	15,3	60	1,20	64	4156				
	18,3	50	1,40	57	3920				
	22,9	40	1,80	49	3708				
	30,5	30	2,40	40	3350				
	36,6	25	2,10	35	3215				
	45,8	20	2,80	29	3100				
	13,4	100	0,90	61	4310	SM	50 / 63 M 4b	88	7,5
	16,8	80	1,20	53	3944				
	22,9	40	1,00	48	2662	SM	40 / 71 M 6a	86	6,9
	30,5	30	1,40	38	2516				
	36,6	25	1,30	35	2405				
	45,8	20	1,70	29	2200				
	61,0	15	2,20	23	2105				
	91,5	10	3,00	16	2043				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
0,18 0,25	22,3	60	0,90	43	2545	SM	40 / 63 M 4b	86	6,3
	26,8	50	1,10	39	2426				
	33,5	40	1,40	32	2271				
	44,7	30	1,80	26	2116				
	53,6	25	1,70	23	2078				
	67,0	20	2,20	19	2010				
	89,3	15	2,90	15	1987				
	44,7	30	0,90	24	1056	SM	30 / 63 M 4b	84	5,4
	53,6	25	1,00	21	1041				
	67,0	20	1,00	18	955				
	89,3	15	1,30	14	920				
	134,0	10	1,90	10	853				
	178,7	7,5	2,40	8	706				
0,25 0,34	0,7	1984	1,27	1409	16500	İRSAM İRSFM	127 İRS 65 / 71 M 4a	120	85 89
	0,9	1600	1,31	1367	16500				
	1,1	1248	1,61	1116	16500				
	1,4	960	2,09	858	16500				
	1,7	800	2,27	789	16500				
	2,2	624	2,80	640	16500				
	0,9	1503	0,96	1858	16500	İRSAM İRSFM	127 İR 43 / 71 M 4a	126	83 87
	1,4	1019	1,42	1260	16500				
	1,6	838	1,73	1036	16500				
	2,0	675	2,15	835	16500				
	2,4	568	2,55	703	16500				
	3,0	467	3,10	578	16500				
	3,3	416	3,49	514	16500				
	0,9	1500	0,90	1114	10500	İRSAM İRSFM	102 İRS 52 / 71 M 4a	118	56 60
	1,2	1140	1,04	963	10500				
	1,6	870	1,32	757	10500				
	1,8	750	1,45	691	10500				
	2,4	570	1,78	562	10500				
	3,2	435	2,30	434	10500				
	2,2	633	1,31	762	10500	İRSAM İRSFM	102 İR 43 / 71 M 4a	124	53 57
	2,6	533	1,56	641	10500				
	3,1	438	1,89	527	10500				
	3,5	390	2,13	469	10500				
	4,1	337	2,46	406	10500	İRSAM İRSFM	102 İR 42 / 71 M 4a	124	52 56
	5,3	260	3,19	313	10500				
	7,6	182	4,55	220	10500				
	9,4	147	5,65	177	10500				
	1,7	795	0,85	664	7600	İRSAM İRSFM	82 S 40 / 71 M 4a	116	32 34
	2,3	600	1,01	553	7600				
	3,1	450	1,26	443	7600				
	4,6	300	1,83	306	7600				
	6,1	225	2,35	238	7600				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
	2,8	500	0,90	391	7420	SM	75 S 40 / 71 M 4a	98	16
	3,5	400	1,20	342	7420				
	4,6	300	1,60	278	7420				
	5,5	250	1,50	250	7420				
	6,9	200	2,00	209	7420				
	9,2	150	2,60	165	6752				
	13,8	100	3,00	116	5813				
	11,2	82	1,76	118	6450	İRSAM İRSFM	65 / 71 M 6b	102	20 21
	14,8	62	2,36	83	6325				
	18,3	50	3,36	82	6123				
	23,5	39	4,64	67	5841				
	9,2	100	1,00	127	6225	SM	63 / 71 M 6b	90	12
	11,4	80	1,20	113	6026				
	15,3	60	1,60	94	5410				
	18,3	50	2,00	82	5093				
	22,9	40	2,40	70	4711				
	13,8	100	1,30	89	5590	SM	63 / 71 M 4a	90	11
	17,3	80	1,50	79	5187				
	23,0	60	2,10	64	4705				
	27,6	50	2,50	57	4432				
	34,5	40	3,10	48	4109				
	14,8	62	1,32	89	4252	İRSAM İRSFM	52 / 71 M 6b	100	17 19
	18,3	50	1,68	78	4160				
	24,1	38	2,52	64	4112				
0,25	31,6	29	3,41	50	4064				
0,34	36,6	25	2,52	46	4016				
	48,2	19	3,60	38	3975				
	63,1	14,5	4,93	29	3920				
	15,3	60	0,90	89	4180	SM	50 / 71 M 6b	88	9
	18,3	50	1,00	80	3940				
	22,9	40	1,30	68	3623				
	30,5	30	1,70	55	3453				
	36,6	25	1,50	49	3369				
	45,8	20	2,00	41	3298				
	61,0	15	2,90	32	3156				
	22,3	62	1,76	60	4356	İRSAM İRSFM	52 / 71 M 4a	100	15 17
	27,6	50	2,24	50	4269				
	36,3	38	3,39	43	4122				
	47,6	29	4,52	34	4063				
	55,2	25	3,36	31	4023				
	72,6	19	4,85	25	3987				
	95,2	14,5	6,58	20	3850				
	17,3	80	0,90	74	4264	SM	50 / 71 M 4a	88	8,3
	23,0	60	1,20	61	4019				
	27,6	50	1,40	55	3695				
	34,5	40	1,80	46	3522				
	46,0	30	2,40	37	3436				
	55,2	25	2,20	33	3364				
	69,0	20	2,90	27	3219				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	30,5	30	1,00	53	2440	SM	40 / 71 M 6b	86	7,8
	36,6	25	0,90	48	2285				
	45,8	20	1,20	40	2193				
	61,0	15	1,60	31	1945				
	91,5	10	2,20	22	1820				
	122,0	7,5	2,70	17	1785				
	34,5	40	1,00	45	2489	SM	40 / 71 M 4a	86	7,1
0,25	46,0	30	1,30	36	2331				
0,34	55,2	25	1,20	32	2237				
	69,0	20	1,60	27	1984				
	92,0	15	2,10	21	1856				
	138,0	10	3,00	15	1821				
	69,0	20	0,70	25	965	SM	30 / C 63 M 4	84	6,2
	92,0	15	1,00	20	865				
	138,0	10	1,30	14	795				
	184,0	7,5	1,70	11	744				
	0,9	1600	1,00	1793	17300	İRSAM İRSFM	127 İRS 65 / 71 M 4b	120	91 97
	1,1	1248	1,13	1591	17300				
	1,5	928	1,47	1219	17300				
	1,7	800	1,61	928	17300				
	2,2	624	1,93	723	17300				
	2,9	480	2,48	506	17300				
	4,5	312	3,54	493	17300				
	2,1	675	1,46	1227	17300	İRSAM İRSFM	127 İR 43 / 71 M 4b	126	84 90
	2,5	568	1,74	1032	17300				
	3,0	467	2,11	849	17300				
	3,3	416	2,37	755	17300				
	1,6	870	0,90	1113	9600	İRSAM İRSFM	102 İRS 52 / 71 M 4b	118	57 61
	1,9	750	0,98	1016	9600				
	2,4	570	1,21	826	9600				
	3,2	435	1,57	638	9600				
0,37	2,2	633	0,89	1120	9600	İRSAM İRSFM	102 İR 43 / 71 M 4b	124	54 58
0,5	2,6	533	1,06	942	9600				
	3,2	438	1,29	775	9600				
	3,6	390	1,45	689	9600				
	4,1	337	1,68	596	9600	İRSAM İRSFM	102 İR 42 / 71 M 4b	124	53 57
	5,3	260	2,17	460	9600				
	7,6	182	3,10	323	9600				
	9,5	147	3,84	260	9600				
	3,1	450	0,86	651	7550	İRSAM İRSFM	82 S 40 / 71 M 4b	116	33 35
	4,6	300	1,24	450	7550				
	6,2	225	1,60	350	7550				
	3,5	400	0,80	506	7400	SM	75 S 40 / 71 M 4b	98	17
	4,6	300	1,10	412	7400				
	5,6	250	1,00	370	7400				
	7,0	200	1,40	309	7400				
	9,3	150	1,70	245	6852				
	13,9	100	2,10	172	6455				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	9,1	100	1,00	200	7380	SM	75 / 80 M 6a	92	17
	11,4	80	1,30	176	7123				
	15,2	60	1,70	146	6350				
	18,2	50	2,00	126	6241				
	22,8	40	2,60	108	6112				
	30,3	30	3,30	87	6053				
	36,4	25	3,10	77	5987				
	11,1	82	1,2	175	6320	İRSAM İRSFM	65 / 80 M 6a	102	22 24
	14,7	62	1,6	123	6285				
	18,2	50	2,3	122	6124				
	23,3	39	3,1	100	6098				
	30,3	30	3,9	76	6025				
	36,4	25	3,2	73	5963				
	46,7	20	4,5	58	5951				
	60,7	15	5,5	44	5820				
	93,3	9,75	6,7	32	5750				
	11,4	80	0,80	167	5237	SM	63 / 80 M 6a	90	14
	15,2	60	1,10	139	5156				
	18,2	50	1,30	122	5111				
	22,8	40	1,70	104	5091				
0,37	30,3	30	2,10	84	5012				
0,5	36,4	25	2,00	75	4863				
	45,5	20	2,70	61	4765				
	13,9	100	0,90	131	5595	SM	63 / 71 M 4b	90	12
	17,4	80	1,00	117	5525				
	23,2	60	1,40	95	5123				
	27,8	50	1,70	85	4982				
	34,8	40	2,10	72	4713				
	14,7	62	0,89	132	3850	İRSAM İRSFM	52 / 80 M 6a	100	19 20
	18,2	50	1,14	116	3810				
	23,9	38	1,70	96	3756				
	31,4	29	2,30	74	3701				
	36,4	25	1,70	68	3640				
	47,9	19	2,43	56	3562				
	62,8	14,5	3,33	43	3502				
	95,8	9,5	3,55	31	3427				
	125,5	7,25	4,89	21	3326				
	30,3	30	1,20	81	3353	SM	50 / 80 M 6a	88	12
	36,4	25	1,00	73	3186				
	45,5	20	1,40	60	2987				
	60,7	15	2,00	47	2740				
	91,0	10	2,80	33	2417				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	22,4	62	1,19	88	3927	İRSAM İRSFM	52 / 71 M 4b	100	16 18
	27,8	50	1,52	74	3848				
	36,6	38	2,29	64	3831				
	47,9	29	3,05	50	3738				
	55,6	25	2,27	46	3676				
	73,2	19	3,28	37	3633				
	95,9	14,5	4,45	29	3607				
	146,3	9,5	4,77	20	3496				
	191,7	7,25	6,49	16	3359				
	23,2	60	0,80	91	3646	SM	50 / 71 M 4b	88	9,3
0,37	27,8	50	1,00	81	3465				
0,5	34,8	40	1,20	69	3248				
	46,3	30	1,60	55	2980				
	55,6	25	1,50	49	2831				
	69,5	20	1,90	40	2653				
	92,7	15	2,60	31	2433				
	46,3	30	0,90	54	2108	SM	40 / 71 M 4b	86	8,1
	55,6	25	0,80	48	2003				
	69,5	20	1,10	40	1879				
	92,7	15	1,40	31	1723				
	139,0	10	2,10	21	1519				
	185,3	7,5	2,50	16	1394				
	1,1	1248	0,74	2409	12980	İRSAM İRSFM	127 İRS 65 / 80 M 4a	120	92 98
	1,4	960	0,94	1909	12980				
	1,7	800	1,06	1685	12980				
	2,2	624	1,28	1405	12980				
	2,8	480	1,64	1095	12980				
	4,4	312	2,34	766	12980				
	5,7	240	3,00	597	12980				
	2,5	550	1,19	1511	12980	İRSAM İRSFM	127 İR 52 / 80 M 4a	128	91 97
	2,8	482	135,00	1324	12980				
	3,6	378	1,72	1039	12980				
0,55	4,5	303	2,15	833	12980				
0,75	2,4	570	0,80	1250	8470	İRSAM İRSFM	102 İRS 52 / 80 M 4a	118	59 63
	3,1	435	1,03	966	8470				
	4,8	285	1,60	625	8470				
	6,3	218	2,07	483	8470				
	5,3	260	1,43	696	8470	İRSAM İRSFM	102 İR 42 / 80 M 4a	124	34 38
	7,5	182	2,05	488	8470				
	9,3	147	2,54	394	8470				
	14,4	62	2,11	205	7900	İRSAM İRSFM	82 / 80 M 6b	104	32 36
	16,8	53	2,80	206	7850				
	22,3	40	3,63	151	7721				
	29,7	30	5,36	122	7516				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
	11,1	80	0,80	262	7033	SM	75 / 80 M 6b	92	18
	14,8	60	1,10	217	6326				
	17,8	50	1,40	187	5896				
	22,3	40	1,70	161	5420				
	13,9	100	0,90	210	6538	SM	75 / 80 M 4a	92	16
	17,3	80	1,10	183	6010				
	23,1	60	1,40	149	5407				
	27,7	50	1,70	131	5039				
	34,6	40	2,20	110	4633				
	10,9	82	0,80	266,2	5715	İRSAM İRSFM	65 / 80 M 6b	102	27 28
	14,4	62	1,07	186,6	5682				
	17,8	50	1,53	185,9	5601				
	22,8	39	2,11	152	5496				
	29,7	30	2,60	115	5326				
	14,8	60	0,70	207	5257	SM	63 / 80 M 6b	90	16
	17,8	50	0,90	181	4995				
	22,3	40	1,10	154	4682				
	29,7	30	1,40	124	4296				
	16,9	82	1,09	174	5823	İRSAM İRSFM	65 / 80 M 4a	102	25 26
	22,3	62	1,40	127	5741				
	27,7	50	2,06	123	5703				
	35,5	39	2,81	101	5620				
0,55 0,75	46,2	30	3,38	77	5573				
	55,4	25	2,91	71	5403				
	71,0	20	4,05	58	5362				
	92,3	15	4,78	44	5250				
	142,1	9,75	6,14	31	5123				
	17,3	80	0,70	174	4808	SM	63 / 80 M 4a	90	13
	23,1	60	0,90	142	4410				
	27,7	50	1,10	126	4189				
	34,6	40	1,40	107	3926				
	46,2	30	1,90	84	3601				
	55,4	25	1,80	74	3421				
	69,3	20	2,40	62	3208				
	92,3	15	3,20	47	2944				
	23,4	38	1,14	146	3305	İRSAM İRSFM	52 / 80 M 6b	100	20 21
	30,7	29	1,55	113	3245				
	35,6	25	1,15	103	3200				
	46,8	19	1,64	85	3158				
	61,4	14,5	2,24	66	3091				
	93,7	9,5	2,39	47	2980				
	122,8	7,25	3,29	32	2880				
	29,7	30	0,80	121	3453	SM	50 / 80 M 6b	88	13
	35,6	25	0,70	108	3218				
	44,5	20	0,90	90	2958				
	59,3	15	1,30	70	2661				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
0,55 0,75	22,3	62	0,80	132	3320	İRSAM İRSFM	52 / 80 M 4a	100	19 20
	0,75	50	1,02	110	3245				
	36,4	38	1,54	95	3215				
	47,8	29	2,05	75	3158				
	55,4	25	1,53	68	3112				
	72,9	19	2,20	55	2980				
	95,5	14,5	2,99	43	2885				
	145,8	9,5	3,21	30	2756				
	191,0	7,25	4,37	23	2641				
	46,2	30	1,10	82	2703	SM	50 / 80 M 4a	88	11
	55,4	25	1,00	72	2568				
	69,3	20	1,30	60	2407				
	92,3	15	1,70	47	2208				
	138,5	10	2,40	33	1948				
	184,7	7,5	3,10	25	1787				
	69,3	20	0,70	59	1754	SM	40 / C 71 M 4	86	9,6
	92,3	15	0,90	47	1609				
	138,5	10	1,40	32	1419				
	184,7	7,5	1,70	24	1302				
0,75 1	0,9	1590	0,82	4095	21500	İRSAM İRSFM	162 İRS 82 / 80 M 4b	122	199 222
	1,2	1200	1,04	3233	21500				
	1,6	900	1,38	2425	21500				
	1,8	795	1,42	2363	21500				
	2,4	600	1,81	1854	21500				
	2,3	624	0,97	1855	11610	İRSAM İRSFM	127 İRS 65 / 80 M 4b	120	93 99
	2,9	480	1,24	1445	11610				
	4,5	312	1,77	1012	11610				
	5,9	240	2,28	788	11610				
	2,6	550	0,90	1995	11610	İRSAM İRSFM	127 İR 52 / 80 M 4b	128	92 98
	2,9	482	1,03	1748	11610				
	3,7	378	1,31	1372	11610				
	4,7	303	1,63	1100	11610				
	6,2	229	2,15	833	11610				
	7,2	186	2,65	676	11610				
	3,2	435	0,78	1275	8100	İRSAM İRSFM	102 İRS 52 / 80 M 4b	118	60 64
	5,0	285	1,21	825	8100				
	6,5	218	1,57	638	8100				
	9,9	143	1,76	457	8100				
	13,0	9	2,28	353	8100				
	14,8	62	1,55	270	7700	İRSAM İRSFM	82 / 90 S 6	104	38 40
	17,4	53	2,05	272	7700				
	23,0	40	2,67	199	7700				
	30,7	30	3,93	161	7700				
	34,7	26,5	2,93	159	7700				
	46,0	20	3,73	121	7700				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	15,3	60	0,80	296	6088	SM	75 / 90 S 6	92	20
	18,4	50	1,00	255	5784				
	23,0	40	1,30	220	5420				
	30,7	30	1,60	177	4973				
	36,8	25	1,60	155	4725				
	46,0	20	2,10	127	4430				
	61,3	15	2,70	99	4065				
	17,6	80	0,80	250	5783	SM	75 / 80 M 4b	92	18
	23,5	60	1,10	203	5304				
	28,2	50	1,30	179	5039				
	35,3	40	1,60	149	4723				
	47,0	30	2,10	118	4334				
	56,4	25	2,10	104	4119				
	70,5	20	2,80	85	3862				
	18,4	50	1,12	245	5423	İRSAM İRSFM	65 / 90 S 6	102	28 29
	23,6	39	1,55	200	5263				
	30,7	30	1,91	152	5123				
	36,8	25	1,60	146	5050				
	47,2	19,5	2,24	117	4950				
	61,3	15	2,71	89	4812				
	94,4	9,75	3,30	64	4756				
0,75 1	23,0	40	0,80	210	4506	SM	63 / 90 S 6	90	17
	30,7	30	1,00	170	4132				
	36,8	25	1,00	151	3927				
	46,0	20	1,30	124	3681				
	61,3	15	1,70	98	3376				
	92,0	10	2,30	68	2979				
	122,7	7,5	2,90	53	2734				
	17,2	82	0,80	233	5127	İRSAM İRSFM	65 / 80 M 4b	102	26 27
	22,7	62	1,03	170	5296				
	28,2	50	1,51	165	5200				
	36,2	39	2,06	135	5055				
	47,0	30	2,48	104	4955				
	56,4	25	2,14	95	4957				
	72,3	19,5	2,97	77	4856				
	94,0	15	3,51	59	4744				
	144,6	9,75	4,50	42	4701				
	188,0	7,5	5,49	32	4635				
	28,2	50	0,80	171	4189	SM	63 / 80 M 4b	90	15
	35,3	40	1,00	145	3926				
	47,0	30	1,40	115	3601				
	56,4	25	1,30	101	3421				
	70,5	20	1,70	84	3208				
	94,0	15	2,30	64	2944				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	28,2	50	0,75	147	2608	İRSAM İRSFM	52 / 80 M 4b	100	20 21
	37,1	38	1,13	127	2554				
	48,6	29	1,51	100	2501				
	56,4	25	1,12	91	2478				
	74,2	19	1,62	74	2435				
	97,2	14,5	2,19	57	2397				
0,75	148,4	9,5	2,35	41	2359				
1	194,5	7,25	3,20	31	2321				
	47,0	30	0,80	112	2703	SM	50 / 80 M 4b	88	12
	56,4	25	0,70	99	2568				
	70,5	20	1,00	82	2407				
	94,0	15	1,30	64	2208				
	141,0	10	1,80	45	1948				
	188,0	7,5	2,30	34	1787				
	1,6	900	0,90	3739	20700	İRSAM İRSFM	162 İRS 82 / 90 S 4	122	201 224
	1,8	795	0,96	3486	20700				
	2,4	600	1,24	2700	20700				
	3,2	450	1,59	2103	20700				
	4,7	300	2,28	1471	20700				
	1,9	755	0,82	4094	20700	İRSAM İRSFM	162 İR 63 / 90 S 4	130	206
	2,2	645	0,96	3498	20700				
	2,6	545	1,13	2958	20700				
	3,0	480	0,85	2105	10800	İRSAM İRSFM	127 İRS 65 /90 S 4	120	96 102
	4,6	312	12,00	1491	10800				
	5,9	240	1,56	1147	10800				
	3,8	378	0,90	1997	10800	İRSAM İRSFM	127 İR 52 / 90 S 4	128	95 101
	4,7	303	1,12	1601	10800				
1,1	6,2	229	1,48	1213	10800				
1,5	7,6	186	1,82	984	10800				
	8,8	161	2,11	851	10800				
	10,9	130	2,61	687	10800				
	11,3	82	1,44	519	7900	İRSAM İRSFM	102 / 90 L 6	106	56 60
	14,8	63	1,86	399	7900				
	18,6	50	2,69	378	7900				
	15,0	62	1,05	392	6852	İRSAM İRSFM	82 / 90 L 6	104	40 42
	17,5	53	1,40	395	6700				
	23,3	40	1,82	289	6623				
	31,0	30	2,68	234	6496				
	35,1	27	2,00	230	6382				
	46,5	20	2,54	176	6267				
	62,0	15	3,91	134	6153				
	93,0	10	3,95	94	6038				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	22,9	62	1,36	275	6623	İRSAM İRSFM	82 / 90 S 4	104	38 40
	26,8	53	2,09	267	6470				
	35,5	40	2,34	198	6382				
	47,3	30	3,46	160	6247				
	53,6	27	2,65	149	6153				
	71,0	20	3,29	115	6057				
	94,7	15	5,00	90	5960				
	142,0	10	5,10	63	5800				
	23,3	40	0,90	322	5318	SM	75 / 90 S 6	92	23
	31,0	30	1,10	259	4878				
	37,2	25	1,10	228	4635				
	46,5	20	1,40	187	4344				
	62,0	15	1,80	145	3985				
	93,0	10	2,30	100	3516				
	124,0	7,5	2,80	77	3195				
	23,7	60	0,70	297	5254	SM	75 / 90 S 4	92	20
	28,4	50	0,90	263	4991				
	35,5	40	1,10	219	4678				
	47,3	30	1,40	173	4292				
	56,8	25	1,40	152	4078				
	71,0	20	1,90	125	3824				
	94,7	15	2,40	97	3474				
1,1 1,5	23,8	39	1,06	291	4865	İRSAM İRSFM	65 / 90 L 6	92	29 30
	31,0	30	1,30	220	4801				
	37,2	25	1,09	212	4723				
	47,7	19,5	1,53	170	4650				
	62,0	15	1,85	129	4555				
	95,4	9,75	2,25	93	4489				
	124,0	7,5	2,90	71	4321				
	46,5	20	0,90	182	3791	SM	63 / 90 L 6	90	20
	62,0	15	1,20	144	3444				
	93,0	10	1,50	99	3009				
	124,0	7,5	2,00	77	2734				
	28,4	50	1,03	240	4910	İRSAM İRSFM	65 / 90 S 4	102	26 28
	36,4	39	1,41	196	4801				
	47,3	30	1,69	151	4723				
	56,8	25	1,46	139	4650				
	72,8	19,5	2,02	113	4555				
	94,7	15	2,39	87	4489				
	145,6	9,75	3,07	61	4321				
	189,3	7,5	3,74	47	4259				
	47,3	30	0,90	169	3533	SM	63 / 90 S 4	90	17
	56,8	25	0,90	148	3356				
	71,0	20	1,20	123	3146				
	94,7	15	1,60	95	2886				
	142,0	10	2,10	65	2546				
	189,3	7,5	2,60	50	2336				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
	2,4	600	0,99	3376	19950	İRSAM İRSFM	162 İRS 82 / 90 L 4	122	203 226
	3,2	450	1,28	2629	19950				
	4,7	300	1,82	1839	19950				
	4,7	303	0,83	1475	9650	İRSAM İRSFM	127 İR 52 / 90 L 4	128	97 103
	6,2	229	1,09	1117	9650				
	7,7	186	1,34	907	9650				
	8,9	161	1,56	784	9650				
	11,0	130	1,93	632	9650				
	11,4	83	1,80	705	9650	İRSAM İRSFM	127 / 100 L 6	108	91 95
	14,5	65	2,33	581	9650				
	18,2	52	3,47	544	9650				
	23,6	40	4,67	437	9650				
	11,5	82	1,05	696	7750	İRSAM İRSFM	102 / 100 L 6	106	61 65
	15,0	63	1,37	535	7750				
	18,9	50	1,97	508	7750				
	23,6	40	2,61	418	7720				
	31,5	30	3,50	318	7690				
	37,8	25	2,87	296	7520				
	47,3	20	3,80	240	7300				
	17,8	53	1,03	530	6650	İRSAM İRSFM	82 / 100 L 6	104	44 46
	23,6	40	1,33	388	6450				
	31,5	30	1,97	314	6420				
1,5 2	35,7	26,5	1,47	309	6380				
	47,3	20	1,86	236	6190				
	63,0	15	2,87	180	6050				
	94,5	10	2,90	126	5960				
	23,1	62	1,00	373	6450	İRSAM İRSFM	82 / 90 L 4	104	40 42
	27,0	53	1,53	361	6420				
	35,8	40	1,71	268	6380				
	47,7	30	2,53	216	6190				
	54,0	26,5	1,95	202	6050				
	71,5	20	2,41	156	5960				
	95,3	15	3,67	122	5800				
	143,0	10	3,74	85	5680				
	47,3	20	1,10	255	4181	SM	75 / 100 L 6	92	29
	63,0	15	1,30	198	3835				
	94,5	10	1,70	137	3382				
	126,0	7,5	2,00	105	3103				
	35,8	40	0,80	299	4547	SM	75 / 90 L 4	92	22
	47,7	30	1,00	236	4171				
	57,2	25	1,00	207	3962				
	71,5	20	1,40	170	3713				
	95,3	15	1,70	132	3407				
	143,0	10	2,20	90	3005				
	190,7	7,5	2,70	68	2757				

P1 **GÜÇ** Power *Puissance* **[kW]** Hp	n_2 **Çıkış Devri** Output Speeds *Vitesse de sortie* **[r.p.m]**	**i** **Tahvil** Ratio *Rapport de réduction*	f_s **Servis Faktörü** Service Factor *Service facteur*	M_2 **Çıkış Momenti** Output Torque *Couple de sortie* **[Nm]**	F_{Qlo} **Rad. Yük** Over Loads *Charges radiales* **[N]**	**Tip** Type			
	28,6	50	0,75	325,6	4817	İRSAM İRSFM	65 / 90 L 4	102	28 29
	36,7	39	1,03	265,7	4707				
	47,7	30	1,24	204,4	4676				
	57,2	25	1,07	187,8	4559				
	73,3	19,5	1,48	152,4	4466				
1,5	95,3	15	1,75	117,2	4445				
2	146,7	9,75	2,25	83,0	4195				
	190,7	7,5	2,74	63,9	4112				
	71,5	20	1,10	255	4181	SM	63 / 90 L 4	90	19
	95,3	15	1,30	198	3835				
	143,0	10	1,70	137	3382				
	190,7	7,5	2,00	105	3103				
	3,9	366	0,91	3627	19800	İRSAM İRSFM	162 İR 62 / 100 L 4a	130	207 230
	4,8	302	1,10	2993	19800				
	5,6	255	1,30	2530	19800				
	6,7	213	1,56	2110	19800				
	8,0	180	1,85	1781	19800				
	9,0	160	2,08	1582	19800				
	10,7	135	2,47	1335	19800				
	12,9	111	2,99	1103	19800				
	10,9	87	2,14	1116	19800	İRSAM İRSFM	162 / 112 M 6	110	190 213
	17,6	54	4,27	836	19800				
	22,6	42	5,54	659	19800				
	11,4	83	1,23	1028	9500	İRSAM İRSFM	127 / 112 M 6	108	100 104
	14,6	65	1,59	848	9500				
	18,3	52	2,36	794	9500				
2,2	23,8	40	3,18	637	9420				
3	29,7	32	3,96	531	9300				
	17,3	83	1,58	753	9500	İRSAM İRSFM	127 / 100 L 4a	108	88 92
	22,1	65	2,00	619	9450				
	27,6	52	3,05	548	9300				
	35,9	40	4,00	433	9220				
	17,5	82	1,00	720	7730	İRSAM İRSFM	102 / 100 L 4a	106	59 63
	22,8	63	1,20	572	7620				
	28,7	50	1,75	505	7590				
	35,9	40	2,27	422	7540				
	47,8	30	3,00	325	7420				
	57,4	25	2,52	289	7360				
	71,8	20	3,32	237	7250				
	95,7	15	4,36	180	7100				
	143,5	10	4,87	126	7030				
	191,3	7,5	6,36	96	6950				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
2,2 3	27,1	53	1,04	528	6320	İRSAM İRSFM	82 / 100 L 4	104	43 45
	35,9	40	1,17	392	6250				
	47,8	30	1,73	316	6125				
	54,2	26,5	1,33	295	6050				
	71,8	20	1,64	228	5975				
	95,7	15	2,50	178	5950				
	143,5	10	2,55	124	5900				
	71,8	20	0,90	249	3609	SM	75 / 100 L 4a	92	26
	95,7	15	1,20	194	3310				
	143,5	10	1,50	132	2919				
	191,3	7,5	1,80	100	2678				
3 4	5,1	280	1,10	4150	28460	İRSAM İRSFM	201 İR 72 / 100 L 4	132	355 367
	6,4	224	1,40	3323	28460				
	7,9	182	1,70	2700	28460				
	9,6	150	2,00	2220	28460				
	11,8	122	2,50	1801	28460				
	14,4	100	3,10	1477	28460				
	11,0	87	1,57	1506	19800	İRSAM İRSFM	162 / 132 S 6	110	201 224
	17,8	54	3,13	1128	19800				
	22,9	42	4,07	890	19800				
	32,0	30	5,73	663	19800				
	17,3	83	1,16	1027	9500	İRSAM İRSFM	127 / 100 L 4b	108	91 95
	22,1	65	1,47	844	9400				
	27,6	52	2,23	747	9320				
	35,9	40	2,93	591	9240				
	44,8	32	3,60	486	9520				
	55,2	26	3,23	420	9360				
	71,8	20	4,27	327	9210				
	89,7	16	5,40	268	9180				
	110,4	13	4,73	223	8930				
	22,8	63	0,88	780	7620	İRSAM İRSFM	102 / 100 L 4b	106	62 66
	28,7	50	1,28	689	7590				
	35,9	40	1,67	575	7480				
	47,8	30	2,20	443	7620				
	57,4	25	1,85	394	7530				
	71,8	20	2,43	323	7450				
	95,7	15	3,20	246	7360				
	143,5	10	3,57	172	7290				
	191,3	7,5	4,67	130	7130				
	35,9	40	0,86	535	6250	İRSAM İRSFM	82 / 100 L 4b	104	45 47
	47,8	30	1,27	431	6125				
	54,2	26,5	0,97	402	6050				
	71,8	20	1,21	311	5975				
	95,7	15	1,83	243	5950				
	143,5	10	1,87	170	5900				
	191,3	7,5	2,70	129	5860				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	5,2	280	0,83	5457	28460	İRSAM İRSFM	201 İR 72 / 112 M 4	132	342 374
	6,5	224	1,04	4369	28460				
	8,0	182	1,28	3550	28460				
	9,7	150	1,55	2918	28460				
	12,0	122	1,91	2369	28460				
	14,6	100	2,33	1941	28460				
	11,6	83	2,25	2081	28460	İRSAM İRSFM	201 / 132 M 6a	112	344 376
	15,2	63	3,27	1780	28460				
	17,5	55	4,00	1620	28460				
	24,0	40	4,31	1210	28460				
	11,0	87	1,18	2008	19800	İRSAM İRSFM	162 / 132 M 6a	110	209 232
	17,8	54	2,35	1504	19800				
	22,9	42	3,05	1187	19800				
	32,0	30	4,30	883	19800				
	45,7	21	4,38	669	19800				
	17,5	83	0,87	1351	9406	İRSAM İRSFM	127 / 112 M 4b	108	100 104
	22,4	65	1,10	1109	9216				
	28,0	52	1,67	983	9228				
4	36,4	40	2,20	777	9059				
5,5	45,5	32	2,70	639	9333				
	56,0	26	2,42	553	9267				
	72,8	20	3,20	431	8942				
	90,9	16	4,05	353	9089				
	111,9	13	3,55	294	9020				
	29,1	50	0,96	906	7545	İRSAM İRSFM	102 / 112 M 4	106	66 69
	36,4	40	1,25	756	7441				
	48,5	30	1,65	583	7406				
	58,2	25	1,39	519	7471				
	72,8	20	1,83	425	7382				
	97,0	15	2,40	323	7376				
	145,5	10	2,68	226	7146				
	194,0	7,5	3,50	171	7218				
	47,8	30	0,95	575	6127	İRSAM İRSFM	82 / C 100 L 4	104	52 54
	54,2	26,5	0,73	536	6005				
	71,8	20	0,90	415	5990				
	95,7	15	1,38	323	5858				
	143,5	10	1,40	226	5833				
	191,3	7,5	2,02	172	5842				
	11,6	83	1,68	2909	28100	İRSAM İRSFM	201 / 132 M 6b	112	351 383
	15,2	63	2,22	2246	28100				
	17,5	55	2,93	2193	28100				
	24,0	40	4,28	1647	28100				
5,5	11,0	87	0,85	2761	19800	İRSAM İRSFM	162 / 132 M 6b	110	216 251
7,5	17,8	54	1,71	2068	19800				
	22,9	42	2,22	1632	19800				
	32,0	30	3,13	1215	19800				
	45,7	21	3,18	919	19800				
	64,0	15	4,55	681	19800				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	16,8	87	1,07	1996	19800	İRSAM İRSFM	162 / 132 S 4c	110	202 227
	27,1	54	2,16	1433	19800				
	34,9	42	2,75	1129	19800				
	48,8	30	3,82	839	19800				
	54,3	27	3,16	794	19800				
	69,8	21	3,95	625	19800				
	97,7	15	5,55	457	19800				
5,5 7,5	22,5	65	0,80	1515	9560	İRSAM İRSFM	127 / C 112 M 4	108	102 106
	28,2	52	1,22	1342	9520				
	36,6	40	1,60	1061	9410				
	45,8	32	1,96	872	9630				
	56,3	26	1,76	755	9350				
	73,3	20	2,33	588	9260				
	91,6	16	2,95	482	9450				
	112,7	13	2,58	401	9210				
	146,5	10	3,42	312	8960				
	11,6	83	1,20	3901	27500	İRSAM İRSFM	201 / 160 M 6b	112	415 447
	15,2	63	1,75	3337	27500				
	17,5	55	2,13	3037	27500				
	24,0	40	2,30	2268	27500				
	17,8	54	1,25	2820	19800	İRSAM İRSFM	162 / 160 M 6b	110	280 303
	22,9	42	1,63	2225	19800				
	32,0	30	2,29	1656	19800				
	45,7	21	2,33	1253	19800				
	64,0	15	3,33	929	19800				
	16,8	87	0,79	2722	19800	İRSAM İRSFM	162 / 132 M 4b	110	212 235
	27,1	54	1,59	1954	19800				
7,5 10	34,9	42	2,01	1540	19800				
	48,8	30	2,80	1144	19800				
	69,8	21	2,89	852	19800				
	97,7	15	4,07	623	19800				
	36,6	40	1,17	1447	9373	İRSAM İRSFM	127 / 132 M 4b	108	119 123
	45,8	32	1,44	1189	9333				
	56,3	26	1,29	1030	9317				
	73,3	20	1,71	802	9441				
	91,6	16	2,16	657	9167				
	112,7	13	1,89	547	9168				
	146,5	10	2,51	425	9175				
	183,1	8	3,17	344	9119				
	18,6	52	2,09	4492	33000	İRSAM İRSFM	250 / 160 L 6b	114	626 656
11 15	24,1	40	3,55	3547	33000				
	37,1	26	5,73	2910	33000				
	48,3	20	6,20	1962	33000				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
	15,3	63	1,00	4526	25850	İRSAM İRSFM	201 / 160 L 6b	112	430 462
	17,5	55	1,36	4251	25850				
	24,1	40	2,00	3222	25850				
	32,2	30	2,09	2482	25850				
	17,9	54	0,85	4115	23250	İRSAM İRSFM	162 / 160 L 6b	110	296 319
	23,0	42	1,11	3246	23250				
	32,2	30	1,56	2417	23250				
	46,0	21	1,59	1829	23250				
	64,3	15	2,27	1355	23250				
	27,1	54	1,08	2865	23250	İRSAM İRSFM	162 / 160 M 4b	110	273 296
	34,9	42	1,37	2259	23250				
11	48,8	30	1,91	1678	23250				
15	69,8	21	1,97	1250	23250				
	97,7	15	2,77	914	23250				
	139,5	10,5	2,86	625	23250				
	195,3	7,5	4,00	479	23250				
	36,6	40	0,80	2123	9465	İRSAM İRSFM	127 / C132 M 4	108	124 132
	45,8	32	0,98	1744	9333				
	56,3	26	0,88	1510	9317				
	73,3	20	1,16	1176	9441				
	91,6	16	1,47	964	9167				
	112,7	13	1,29	802	9168				
	146,5	10	1,71	624	9175				
	183,1	8	2,16	505	9119				
	15,3	63	1,27	5424	32700	İRSAM İRSFM	250 / 180 L 6a	114	684 704
	18,6	52	2,00	5712	32700				
	24,1	40	2,73	4513	32700				
	31,1	31	2,93	3589	32700				
	37,1	26	3,33	3203	32700				
	48,3	20	4,00	2494	32700				
	28,2	52	2,47	3966	32700	İRSAM İRSFM	250 / 160 L 4a	114	637 667
	36,6	40	3,27	3090	32700				
	47,3	31	3,93	2395	32700				
	56,3	26	3,53	2161	32700				
15	73,3	20	4,80	1682	32700				
20	94,5	15,5	5,73	1303	32700				
	146,5	10	6,93	870	32700				
	26,6	55	1,33	4033	25100	İRSAM İRSFM	201 / 160 L 4a	112	442 474
	36,6	40	1,88	3051	25100				
	48,8	30	1,95	2317	25100				
	53,3	27,5	2,58	2232	25100				
	73,3	20	2,79	1662	25100				
	97,7	15	2,79	1261	25100				
	106,5	13,75	3,77	1183	25100				
	146,5	10	4,05	870	25100				
	195,3	7,5	5,51	653	25100				

P1 **GÜÇ** Power *Puissance* **[kW]** Hp	n_2 **Çıkış Devri** Output Speeds *Vitesse de sortie* **[r.p.m]**	**i** **Tahvil** Ratio *Rapport de réduction*	f_s **Servis Faktörü** Service Factor *Service facteur*	M_2 **Çıkış Momenti** Output Torque *Couple de sortie* **[Nm]**	F_{Qlo} **Rad. Yük** Over Loads *Charges radiales* **[N]**	**Tip** Type			**kg**
15 20	34,9	42	1,01	3114	22400	İRSAM İRSFM	162 / 160 L 4a	110	298 318
	48,8	30	1,42	2312	22400				
	69,8	21	1,48	1723	22400				
	97,7	15	2,06	1260	22400				
	139,5	10,5	2,11	892	22400				
	195,3	7,5	2,95	681	22400				
18,5 25	28,3	52	2,00	4875	32450	İRSAM İRSFM	250 / 180 M 4b	114	657 687
	36,8	40	2,65	3798	32450				
	47,4	31	3,19	2943	32450				
	56,5	26	2,86	2656	32450				
	73,5	20	3,89	2067	32450				
	94,8	15,5	4,65	1602	32450				
	147,0	10	5,62	1070	32450				
	189,7	7,75	6,76	829	32450				
	26,7	55	1,06	4958	24650	İRSAM İRSFM	201 / 180 M 4b	112	462 494
	36,8	40	1,54	3750	24650				
	49,0	30	2,04	2848	24650				
	53,5	28	1,52	2743	24650				
	73,5	20	2,23	2043	24650				
	98,0	15	2,99	1550	24650				
	106,9	13,75	2,21	1454	24650				
	147,0	10	3,25	1070	24650				
	196,0	7,5	4,35	802	24650				
	35,0	42	0,82	3786	21200	İRSAM İRSFM	162 / C160 L 4	110	285 305
	49,0	30	1,14	2812	21200				
	70,0	21	1,17	2095	21200				
	98,0	15	1,65	1532	21200				
	140,0	10,5	1,70	1047	21200				
	196,0	7,5	2,38	802	21200				
22 30	28,3	52	1,68	5797	32200	İRSAM İRSFM	250 / 180 L 4b	114	682 702
	36,8	40	2,23	4516	32200				
	47,4	31	2,68	3500	32200				
	73,5	20	3,27	2458	32200				
	94,8	15,5	3,91	1905	32200				
	147,0	10	4,73	1272	32200				
	189,7	7,75	5,68	986	32200				

Sonsuz Vidalı Redüktörler Güç ve Devir Tabloları

Worm Gear Unit - Performances Tables

Réducteurs à roue et vis sans fin - Table de performances

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
13-21 Nm	0,05	18	80	48	13	190	1250	S	30	84	1,2
	0,07	23	60	54	15	190	1250				
	0,09	28	50	56	17	190	1250				
	0,11	35	40	60	18	190	1250				
	0,13	47	30	66	18	190	1250				
	0,17	56	25	71	21	190	1250				
	0,18	70	20	75	18	190	1250				
	0,23	93	15	78	18	190	1250				
	0,31	140	10	80	17	190	1250				
	0,40	187	7,5	83	17	190	1250				
28-42 Nm	0,09	14	100	45	28	330	2100	S	40	86	2,1
	0,12	18	80	49	32	330	2100				
	0,14	23	60	55	32	330	2100				
	0,18	28	50	61	37	330	2100				
	0,22	35	40	65	39	330	2100				
	0,30	47	30	68	42	330	2100				
	0,30	56	25	71	36	330	2100				
	0,35	70	20	74	35	330	2100				
	0,46	93	15	79	37	330	2100				
	0,66	140	10	82	37	330	2100				
	0,85	187	7,5	85	37	330	2100				
50-71 Nm	0,16	14	100	46	50	450	3000	S	50	88	3,3
	0,20	18	80	53	58	450	3000				
	0,26	23	60	57	61	450	3000				
	0,31	28	50	61	64	450	3000				
	0,40	35	40	65	71	450	3000				
	0,50	47	30	68	70	450	3000				
	0,50	56	25	71	61	450	3000				
	0,64	70	20	74	65	450	3000				
	0,85	93	15	79	69	450	3000				
	1,11	140	10	82	62	450	3000				
	1,54	187	7,5	85	67	450	3000				
96-152 Nm	0,44	23	62	56	104	490	3400	İRSA İRSF	52	100	9 11
	0,56	28	50	58	111	490	3400				
	0,85	37	38	66	145	490	3400				
	1,13	48	29	68	152	490	3400				
	0,84	56	25	72	103	490	3400				
	1,21	74	19	77	121	490	3400				
	1,64	97	14,5	78	127	490	3400				
	1,77	147	9,5	84	96	490	3400				
	2,40	193	7,25	85	101	490	3400				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
114-145 Nm	0,32	14	100	52	114	650	4200	S	63	90	5,8
	0,38	18	80	58	120	650	4200				
	0,50	23	60	60	123	650	4200				
	0,60	28	50	62	127	650	4200				
	0,75	35	40	67	137	650	4200				
	1,00	47	30	71	145	650	4200				
	0,99	56	25	74	125	650	4200				
	1,20	70	20	78	128	650	4200				
	1,60	93	15	80	131	650	4200				
	2,20	140	10	82	123	650	4200				
	2,81	187	7,5	85	122	650	4200				
176-280 Nm	0,60	17	82	56	188	670	4900	İRSA İRSF	65	102	14 15
	0,77	23	62	54	176	670	4900				
	1,13	28	50	65	251	670	4900				
	1,55	36	39	68	280	670	4900				
	1,86	47	30	68	259	670	4900				
	1,60	56	25	75	205	670	4900				
	2,23	72	19,5	78	231	670	4900				
	2,63	93	15	78	210	670	4900				
	3,37	144	9,75	85	191	670	4900				
	4,11	187	7,5	85	179	670	4900				
172-221 Nm	0,48	14	100	53	174	700	5800	S	75	92	8,6
	0,56	18	80	58	177	700	5800				
	0,75	23	60	60	184	700	5800				
	0,85	28	50	63	183	700	5800				
	1,10	35	40	67	201	700	5800				
	1,50	47	30	72	221	700	5800				
	1,50	56	25	76	194	700	5800				
	1,80	70	20	78	192	700	5800				
	2,20	93	15	80	180	700	5800				
	3,00	140	10	84	172	700	5800				
	4,00	187	7,5	86	176	700	5800				
325-560 Nm	1,50	23	62	60	381	850	6900	İRSA İRSF	82	104	24 26
	2,30	26	53	68	565	850	6900				
	2,57	35	40	67	470	850	6900				
	3,80	47	30	72	560	850	6900				
	2,92	53	26,5	76	401	850	6900				
	3,62	70	20	78	385	850	6900				
	5,50	93	15	81	456	850	6900				
	5,60	140	10	85	325	850	6900				
	8,10	187	7,5	86	356	850	6900				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
623-999 Nm	2,20	17	82	60	738	1450	10000	İRSA İRSF	102	106	39
	2,64	22	63	62	703	1450	10000				
	3,85	28	50	69	906	1450	10000				
	5,00	35	40	72	982	1450	10000				
	6,60	47	30	74	999	1450	10000				
	5,55	56	25	79	748	1450	10000				43
	7,30	70	20	81	807	1450	10000				
	9,60	93	15	82	805	1450	10000				
	10,70	140	10	86	628	1450	10000				
	14,00	187	7,5	87	623	1450	10000				
1083-1792 Nm	3,47	17	83	62	1218	2300	17000	İRSA İRSF	127	108	69
	4,40	22	65	65	1268	2300	17000				
	6,70	27	52	72	1711	2300	17000				
	8,80	35	40	74	1777	2300	17000				
	10,80	44	32	76	1792	2300	17000				
	9,70	54	26	81	1393	2300	17000				73
	12,80	70	20	82	1432	2300	17000				
	16,20	88	16	84	1485	2300	17000				
	14,20	108	13	86	1083	2300	17000				
	18,80	140	10	87	1116	2300	17000				
1873-3352 Nm	4,60	13	111	62	2159	2900	21500	İRSA İRSF	162	110	163
	5,90	16	87	64	2241	2900	21500				
	11,90	26	54	74	3244	2900	21500				
	15,10	33	42	75	3245	2900	21500				
	21,00	47	30	78	3352	2900	21500				
	17,40	52	27	82	2628	2900	21500				186
	21,70	67	21	83	2580	2900	21500				
	30,50	93	15	85	2653	2900	21500				
	31,50	133	10,5	83	1873	2900	21500				
	44,00	187	7,5	89	2003	2900	21500				
3521-5746 Nm	7,5	12	115	65	3824	3250	24750	İRSA İRSF	201	112	300
	11,0	17	83	68	4235	3250	24750				
	14,0	22	63	70	4212	3250	24750				
	19,0	25	55	75	5346	3250	24750				
	27,0	35	40	78	5746	3250	24750				
	28,0	47	30	79	4527	3250	24750				
	37,0	51	27,5	83	5761	3250	24750				332
	40,0	70	20	85	4639	3250	24750				
	40,0	93	15	86	3520	3250	24750				
	54,0	102	13,75	88	4457	3250	24750				
	58,0	140	10	89	3521	3250	24750				
	79,0	187	7,5	89	3597	3250	24750				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
5791-13370 Nm	23,0	22	63	58	5791	3750	29000	İRSA İRSF	250	114	493 513
	37,0	27	52	78	10237	3750	29000				
	49,0	35	40	79	13370	3750	29000				
	59,0	45	31	79	9856	3750	29000				
	53,0	54	26	85	7990	3750	29000				
	72,0	70	20	86	8448	3750	29000				
	86,0	90	15,5	86	7820	3750	29000				
	104,0	140	10	89	6314	3750	29000				
	125,0	181	7,75	89	5881	3750	29000				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
15-22 Nm	0,04	11	80	43	15	190	1300	S	30	84	1,2
	0,06	15	60	45	17	190	1300				
	0,07	18	50	48	18	190	1300				
	0,09	23	40	52	20	190	1300				
	0,11	30	30	61	21	190	1300				
	0,12	36	25	68	22	190	1300				
	0,12	45	20	72	18	190	1300				
	0,16	60	15	74	19	190	1300				
	0,23	90	10	77	19	190	1300				
	0,29	120	7,5	81	19	190	1300				
31-43 Nm	0,07	9	100	42	31	330	2250	S	40	86	2,1
	0,09	11	80	44	34	330	2250				
	0,10	15	60	52	33	330	2250				
	0,12	18	50	55	35	330	2250				
	0,16	23	40	61	41	330	2250				
	0,21	30	30	65	43	330	2250				
	0,21	36	25	69	38	330	2250				
	0,26	45	20	72	40	330	2250				
	0,35	60	15	77	43	330	2250				
	0,49	90	10	80	42	330	2250				
	0,64	120	7,5	82	42	330	2250				
49-80 Nm	0,11	9	100	42	49	450	3300	S	50	88	3,3
	0,15	11	80	46	59	450	3300				
	0,20	15	60	52	66	450	3300				
	0,25	18	50	55	73	450	3300				
	0,30	23	40	61	78	450	3300				
	0,35	30	30	65	72	450	3300				
	0,35	36	25	69	64	450	3300				
	0,45	45	20	72	69	450	3300				
	0,65	60	15	77	80	450	3300				
	0,90	90	10	80	76	450	3300				
	1,11	120	7,5	84	74	450	3300				
103-173 Nm	0,33	15	62	55	119	490	3550	İRSA İRSF	52	100	9 11
	0,42	18	50	60	134	490	3550				
	0,63	24	38	65	165	490	3550				
	0,85	31	29	66	173	490	3550				
	0,63	36	25	70	117	490	3550				
	0,90	47	19	76	138	490	3550				
	1,23	62	14,5	77	146	490	3550				
	1,32	95	9,5	83	110	490	3550				
	1,81	124	7,25	74	103	490	3550				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
119-162 Nm	0,25	9	100	45	119	650	4350	S	63	90	5,8
	0,27	11	80	52	119	650	4350				
	0,37	15	60	56	132	650	4350				
	0,42	18	50	58	129	650	4350				
	0,55	23	40	63	147	650	4350				
	0,75	30	30	68	162	650	4350				
	0,68	36	25	70	126	650	4350				
	0,90	45	20	74	141	650	4350				
	1,10	60	15	78	137	650	4350				
	1,70	90	10	80	144	650	4350				
	2,20	120	7,5	84	147	650	4350				
198-317 Nm	0,44	11	82	55	211	670	4900	İRSA İRSF	65	102	14 15
	0,59	15	62	51	198	670	4900				
	0,84	18	50	63	281	670	4900				
	1,16	23	39	66	317	670	4900				
	1,43	30	30	65	296	670	4900				
	1,20	36	25	75	239	670	4900				
	1,68	46	19,5	77	268	670	4900				
	2,03	60	15	76	246	670	4900				
	2,47	92	9,75	84	215	670	4900				
	3,19	120	7,5	84	213	670	4900				
	2,20	120	7,5	84	147	650	4350				
178-242 Nm	0,35	9	100	48	178	700	6000	S	75	92	8,6
	0,40	11	80	54	183	700	6000				
	0,52	15	60	56	185	700	6000				
	0,62	18	50	59	194	700	6000				
	0,80	23	40	63	214	700	6000				
	1,10	30	30	69	242	700	6000				
	1,10	36	25	72	210	700	6000				
	1,40	45	20	75	223	700	6000				
	1,75	60	15	78	217	700	6000				
	2,50	90	10	81	215	700	6000				
	3,00	120	7,5	85	203	700	6000				
383-648 Nm	1,16	15	62	56	427	850	7100	İRSA İRSF	82	104	24 26
	1,54	17	53	66	572	850	7100				
	2,00	23	40	64	543	850	7100				
	2,95	30	30	69	648	850	7100				
	2,20	34	26,5	77	476	850	7100				
	2,0	45	20	78	463	850	7100				
	4,30	60	15	79	541	850	7100				
	4,35	90	10	83	383	850	7100				
	6,30	120	7,5	85	426	850	7100				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Q1o} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
758-1170 Nm	1,58	11	82	56	770	1450	10400	İRSA İRSF	102	106	39
	2,05	14	63	56	767	1450	10400				43
	2,96	18	50	67	1052	1450	10400				
	3,92	23	40	69	1148	1450	10400				
	5,25	30	30	70	1170	1450	10400				
	4,30	36	25	78	890	1450	10400				
	5,70	45	20	79	956	1450	10400				
	7,66	60	15	80	975	1450	10400				
	8,40	90	10	85	758	1450	10400				
	11,20	120	7,5	85	758	1450	10400				
1313-2216 Nm	2,70	11	83	56	1332	2300	17000	İRSA İRSF	127	108	69
	3,50	14	65	59	1424	2300	17000				73
	5,20	17	52	69	1980	2300	17000				
	7,00	23	40	72	2139	2300	17000				
	8,70	28	32	75	2216	2300	17000				
	7,60	35	26	79	1656	2300	17000				
	10,20	45	20	80	1732	2300	17000				
	13,00	56	16	81	1788	2300	17000				
	11,20	69	13	85	1313	2300	17000				
	15,00	90	10	85	1353	2300	17000				
2443-3860 Nm	4,70	10	87	58	2517	2900	21500	İRSA İRSF	162	110	163
	9,40	17	54	70	3770	2900	21500				186
	12,20	21	42	71	3860	2900	21500				
	17,20	30	30	74	4052	2900	21500				
	13,70	33	27	80	3140	2900	21500				
	17,50	43	21	80	3120	2900	21500				
	25,00	60	15	83	3303	2900	21500				
	25,50	86	10,5	86	2443	2900	21500				
	36,00	120	7,5	87	2493	2900	21500				
4392-7237 Nm	6,1	8	115	59	4392	3250	24750	İRSA İRSF	201	112	300
	9,0	11	83	63	4994	3250	24750				332
	11,0	14	63	66	4853	3250	24750				
	15,0	16	55	71	6215	3250	24750				
	22,0	23	40	74	6759	3250	24750				
	23,0	30	30	76	5564	3250	24750				
	31,0	33	27,5	80	7237	3250	24750				
	32,0	45	20	83	5637	3250	24750				
	33,0	60	15	84	4412	3250	24750				
	45,0	65	13,75	86	5646	3250	24750				
	48,0	90	10	87	4431	3250	24750				
	65,0	120	7,5	88	4552	3250	24750				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
7367-13226 Nm	19,0	14	63	58	7367	3750	29000	İRSA İRSF	250	114	493 513
	30,0	17	52	74	12249	3750	29000				
	41,0	23	40	76	13226	3750	29000				
	44,0	29	31	78	11289	3750	29000				
	50,0	35	26	83	11449	3750	29000				
	60,0	45	20	84	10696	3750	29000				
	72,0	70	15,5	85	10066	3750	29000				
	8,0	90	10	88	8124	3750	29750				
	106,0	116	7,75	89	7758	3750	29750				

n_1 = 700 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
16-25 Nm	0,04	9	80	41	16	190	1350	S	30	84	1,2
	0,05	12	60	43	18	190	1350				
	0,06	14	50	47	20	190	1350				
	0,08	18	40	53	22	190	1350				
	0,09	23	30	60	22	190	1350				
	0,11	28	25	66	25	190	1350				
	0,11	35	20	69	21	190	1350				
	0,15	47	15	72	22	190	1350				
	0,20	70	10	76	21	190	1350				
	0,26	93	7,5	80	22	190	1350				
33-48 Nm	0,06	7	100	40	33	330	2300	S	40	86	2,1
	0,08	9	80	42	36	330	2300				
	0,09	12	60	49	37	330	2300				
	0,12	14	50	52	41	330	2300				
	0,14	18	40	60	45	330	2300				
	0,18	23	30	64	48	330	2300				
	0,18	28	25	68	43	330	2300				
	0,23	35	20	71	44	330	2300				
	0,31	47	15	75	48	330	2300				
	0,44	70	10	78	46	330	2300				
	0,56	93	7,5	81	46	330	2300				
57-87 Nm	0,10	7	100	40	57	450	3450	S	50	88	3,3
	0,13	9	80	44	64	450	3450				
	0,17	12	60	49	70	450	3450				
	0,21	14	50	54	77	450	3450				
	0,26	18	40	60	86	450	3450				
	0,33	23	30	64	86	450	3450				
	0,33	28	25	68	76	450	3450				
	0,40	35	20	71	78	450	3450				
	0,57	47	15	75	87	450	3450				
	0,80	70	10	78	85	450	3450				
	1,02	93	7,5	82	85	450	3450				
119-210 Nm	0,27	11	62	52	119	490	3850	İRSA İRSF	52	100	9 11
	0,35	14	50	55	131	490	3850				
	0,53	189	38	62	170	490	3850				
	0,71	24	29	65	183	490	3850				
	0,52	28	25	69	122	490	3850				
	0,75	37	19	75	146	490	3850				
	1,40	48	14,5	76	210	490	3850				
	1,10	74	9,5	82	117	490	3850				
	1,53	97	7,25	83	126	490	3850				

n_1 = 700 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
120-168 Nm	0,20	7	100	44	120	650	4470	S	63	90	5,8
	0,23	9	80	50	126	650	4470				
	0,32	12	60	53	138	650	4470				
	0,37	14	50	56	142	650	4470				
	0,49	18	40	61	162	650	4470				
	0,62	23	30	66	168	650	4470				
	0,60	28	25	69	141	650	4470				
	0,77	35	20	72	151	650	4470				
	0,98	47	15	75	151	650	4470				
	1,49	70	10	78	159	650	4470				
	1,90	93	7,5	82	159	650	4470				
215-335 Nm	0,37	9	82	52	215	670	5750	İRSA İRSF	65	102	14 15
	0,50	11	62	50	211	670	5750				
	0,70	14	50	61	219	670	5750				
	0,97	18	39	65	335	670	5750				
	1,22	23	30	64	320	670	5750				
	1,00	28	25	74	252	670	5750				
	1,41	36	19,5	76	285	670	5750				
	1,72	47	15	75	264	670	5750				
	2,08	72	9,75	83	230	670	5750				
	2,71	93	7,5	83	230	670	5750				
182-248 Nm	0,29	7	100	46	182	700	6150	S	75	92	8,6
	0,36	9	80	50	194	700	6150				
	0,45	12	60	52	193	700	6150				
	0,53	14	50	57	208	700	6150				
	0,71	18	40	61	236	700	6150				
	0,93	23	30	65	248	700	6150				
	0,92	28	25	70	219	700	6150				
	1,20	35	20	73	239	700	6150				
	1,52	47	15	75	234	700	6150				
	2,17	70	10	78	231	700	6150				
	2,65	93	7,5	82	222	700	6150				
418-701 Nm	0,98	11	62	55	456	850	7300	İRSA İRSF	82	104	24 26
	1,29	13	53	65	606	850	7300				
	1,70	18	40	63	584	850	7300				
	2,52	23	30	68	701	850	7300				
	1,85	26	26,5	76	508	850	7300				
	2,39	35	20	75	489	850	7300				
	3,65	47	15	78	583	850	7300				
	3,74	70	10	82	418	850	7300				
	5,40	93	7,5	84	464	850	7300				

n_1 = 700 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
825-1271 Nm	1,35	9	82	55	831	1450	11600	İRSA İRSF	102	106	39 43
	1,75	11	63	57	857	1450	11600				
	2,53	14	50	66	1139	1450	11600				
	3,35	18	40	68	1243	1450	11600				
	4,50	23	30	69	1271	1450	11600				
	3,65	28	25	77	959	1450	11600				
	4,90	35	20	78	1043	1450	11600				
	6,60	47	15	79	1067	1450	11600				
	7,20	70	10	84	825	1450	11600				
	9,70	93	7,5	85	844	1450	11600				
1415-2323 Nm	2,32	8	83	57	1497	2300	19000	İRSA İRSF	127	108	69 75
	3,00	11	65	57	1516	2300	19000				
	4,40	13	52	68	2123	2300	19000				
	6,00	18	40	69	2259	2300	19000				
	7,60	22	32	70	2323	2300	19000				
	6,50	27	26	78	1798	2300	19000				
	8,80	35	20	79	1897	2300	19000				
	11,30	44	16	80	1973	2300	19000				
	9,50	54	13	84	1415	2300	19000				
	12,90	70	10	85	1496	2300	19000				
2676-4479 Nm	3,1	6	111	57	2676	2900	23500	İRSA İRSF	162	110	163 186
	4,1	8	87	58	2823	2900	23500				
	8,1	13	54	69	4117	2900	23500				
	10,6	17	42	69	4191	2900	23500				
	15,2	23	30	72	4479	2900	23500				
	11,8	26	27	79	3434	2900	23500				
	15,4	33	21	79	3486	2900	23500				
	22,0	47	15	81	3647	2900	23500				
	22,5	67	10,5	84	2707	2900	23500				
	32,0	93	7,5	86	2816	2900	23500				
4740-8003 Nm	5,3	6	115	57	4740	3250	27300	İRSA İRSF	201	112	300 332
	7,0	8	83	60	4756	3250	27300				
	10,0	11	63	62	5329	3250	27300				
	13,0	13	55	68	6633	3250	27300				
	19,0	18	40	72	7465	3250	27300				
	20,0	23	30	74	6057	3250	27300				
	27,0	25	27,5	79	8003	3250	27300				
	28,0	35	20	81	6188	3250	27300				
	29,0	47	15	82	4866	3250	27300				
	40,0	51	13,75	85	6378	3250	27300				
	43,0	70	10	86	5045	3250	27300				
	59,0	93	7,5	87	5252	3250	27300				

n_1 = 700 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
8839-14538 Nm	18,0	11	63	58	8973	3750	31000	İRSA İRSF	250	114	493 513
	26,0	13	52	72	13281	3750	31000				
	36,0	18	40	74	14538	3750	31000				
	39,0	23	31	76	12536	3750	31000				
	45,0	27	26	81	12929	3750	31000				
	53,0	35	20	82	11858	3750	31000				
	65,0	45	15,5	83	11408	3750	31000				
	78,0	70	10	87	9258	3750	31000				
	95,0	90	7,75	88	8839	3750	31000				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
17-28 Nm	0,03	6	80	38	17	190	1400	S	30	84	1,2
	0,04	8	60	40	18	190	1400				
	0,04	9	50	45	21	190	1400				
	0,05	11	40	53	24	190	1400				
	0,06	15	30	58	23	190	1400				
	0,08	18	25	64	28	190	1400				
	0,08	23	20	66	23	190	1400				
	0,11	30	15	70	24	190	1400				
	0,14	45	10	75	23	190	1400				
	0,19	60	7,5	79	24	190	1400				
35-53 Nm	0,04	5	100	37	35	330	2370	S	40	86	2,1
	0,05	6	80	40	37	330	2370				
	0,07	8	60	45	41	330	2370				
	0,09	9	50	49	47	330	2370				
	0,10	11	40	58	49	330	2370				
	0,13	15	30	62	53	330	2370				
	0,13	18	25	66	47	330	2370				
	0,16	23	20	70	48	330	2370				
	0,23	30	15	72	52	330	2370				
	0,31	45	10	67	50	330	2370				
	0,40	60	7,5	63	50	330	2370				
64-99 Nm	0,08	5	100	37	64	450	3600	S	50	88	3,3
	0,10	6	80	41	69	450	3600				
	0,13	8	60	46	74	450	3600				
	0,14	9	50	53	81	450	3600				
	0,19	11	40	58	93	450	3600				
	0,25	15	30	62	99	450	3600				
	0,25	18	25	66	88	450	3600				
	0,29	23	20	70	86	450	3600				
	0,41	30	15	72	93	450	3600				
	0,58	45	10	75	93	450	3600				
	0,76	60	7,5	79	96	450	3600				
112-195 Nm	0,19	7	62	49	112	490	4050	İRSA İRSF	52	100	9 11
	0,25	9	50	51	135	490	4050				
	0,37	12	38	59	176	490	4050				
	0,51	16	29	62	195	490	4050				
	0,37	18	25	66	130	490	4050				
	0,53	24	19	72	154	490	4050				
	0,74	31	14,5	77	175	490	4050				
	0,78	47	9,5	81	127	490	4050				
	1,1	62	7,25	82	139	490	4050				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
120-177 Nm	0,13	5	100	42	120	650	5200	S	63	90	5,8
	0,16	6	80	48	132	650	5200				
	0,22	8	60	50	143	650	5200				
	0,27	9	50	54	155	650	5200				
	0,26	11	40	58	177	650	5200				
	0,43	15	30	63	173	650	5200				
	0,43	18	25	68	156	650	5200				
	0,54	23	20	70	160	650	5200				
	0,72	30	15	72	165	650	5200				
	1,08	45	10	76	174	650	5200				
	1,35	60	7,5	79	170	650	5200				
111-400 Nm	0,26	5	82	49	222	670	6250	İRSA İRSF	65	102	14 15
	0,54	7	62	48	341	670	6250				
	0,65	9	50	58	400	670	6250				
	0,65	12	39	62	334	670	6250				
	0,68	15	30	62	268	670	6250				
	0,68	18	25	72	260	670	6250				
	0,76	23	19,5	74	233	670	6250				
	0,78	30	15	74	184	670	6250				
	0,85	46	9,75	82	144	670	6250				
	0,85	60	7,5	82	111	670	6250				
185-257 Nm	0,20	5	100	44	185	700	6500	S	75	92	8,6
	0,25	6	80	48	205	700	6500				
	0,32	8	60	50	201	700	6500				
	0,38	9	50	55	221	700	6500				
	0,52	11	40	58	257	700	6500				
	0,63	15	30	63	253	700	6500				
	0,63	18	25	68	227	700	6500				
	0,85	23	20	70	254	700	6500				
	1,08	30	15	73	251	700	6500				
	1,55	45	10	75	247	700	6500				
	1,89	60	7,5	80	241	700	6500				
502-1202 Nm	0,72	7	62	53	502	850	8500	İRSA İRSF	82	104	24 26
	0,92	8	53	62	642	850	8500				
	1,25	11	40	62	658	850	8500				
	2,86	15	30	66	1202	850	8500				
	1,33	17	26,5	74	554	850	8500				
	1,75	23	20	74	550	850	8500				
	2,70	30	15	77	662	850	8500				
	2,75	45	10	82	479	850	8500				
	4,00	60	7,5	84	535	850	8500				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
922-1450 Nm	1,00	5	82	53	922	1450	12500	İRSA İRSF	102	106	39
	1,30	7	63	56	973	1450	12500				43
	1,84	9	50	64	1250	1450	12500				
	2,47	11	40	66	1384	1450	12500				
	3,40	15	30	67	1450	1450	12500				
	2,65	18	25	76	1069	1450	12500				
	3,60	23	20	77	1177	1450	12500				
	4,95	30	15	78	1229	1450	12500				
	5,35	45	10	84	954	1450	12500				
	7,30	60	7,5	84	976	1450	12500				
1645-2678 Nm	1,72	5	83	56	1697	2300	20000	İRSA İRSF	127	108	69
	2,28	7	65	55	1730	2300	20000				75
	3,20	9	52	66	2331	2300	20000				
	4,50	11	40	67	2559	2300	20000				
	5,80	14	32	68	2678	2300	20000				
	4,80	17	26	77	2039	2300	20000				
	6,60	23	20	78	2185	2300	20000				
	8,60	28	16	79	2307	2300	20000				
	7,10	35	13	84	1645	2300	20000				
	9,70	45	10	84	1729	2300	20000				
3034-5184 Nm	2,3	4	111	56	3034	2900	25000	İRSA İRSF	162	110	163
	3,1	5	87	54	3091	2900	25000				186
	6,1	8	54	67	4684	2900	25000				
	8,1	11	42	67	4837	2900	25000				
	11,8	15	30	69	5184	2900	25000				
	8,9	17	27	78	3978	2900	25000				
	11,7	21	21	78	4067	2900	25000				
	17,2	30	15	79	4326	2900	25000				
	17,3	43	10,5	84	3238	2900	25000				
	25,0	60	7,5	85	3382	2900	25000				
5369-9437 Nm	4,0	4	115	55	5369	3250	29000	İRSA İRSF	201	112	300
	6,0	5	83	58	6130	3250	29000				332
	8,0	7	63	59	6311	3250	29000				
	10,0	8	55	66	7704	3250	29000				
	15,0	11	40	69	8786	3250	29000				
	15,0	15	30	71	6781	3250	29000				
	21,0	16	24,5	77	9437	3250	29000				
	22,0	23	20	79	7377	3250	29000				
	22,0	30	15	81	5673	3250	29000				
	31,0	33	13,75	84	7599	3250	29000				
	33,0	45	10	85	5953	3250	29000				
	46,0	60	7,5	86	6367	3250	29000				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	**P1** **GÜÇ** Power *Puissance* **[kW]** Hp	n_2 **Çıkış Devri** Output Speeds *Vitesse de sortie* **[r.p.m]**	**i** **Tahvil** Ratio *Rapport de réduction*	**η** **Verim** Efficiency *efficience* [%]	M_2 **Çıkış Momenti** Output Torque *Couple de sortie* **[Nm]**	F_{Q1} **Rad. Yük** Over Loads *Charges radiales* **[N]**	F_{Qlo} **Rad. Yük** Over Loads *Charges radiales* **[N]**	**Tip** Type			**kg**
10856-16876 Nm	14,0	7	63	58	10856	3750	33000	İRSA İRSF	250	114	493 513
	21,0	9	52	69	15991	3750	33000				
	28,0	11	40	71	16876	3750	33000				
	30,0	15	31	74	14605	3750	33000				
	36,0	17	26	79	15693	3750	33000				
	42,0	23	20	81	14440	3750	33000				
	52,0	29	15,5	81	13855	3750	33000				
	62,0	45	10	86	11316	3750	33000				
	77,0	58	7,75	86	10891	3750	33000				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Q1o} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
69 - 142 Nm	0,01	0,35	4000	25	69	4820	195	S	50 S 30	94	4,6
	0,02	0,47	3000	26	105	4820	195				
	0,03	0,58	2400	28	136	4820	195				
	0,03	0,78	1800	30	112	4820	195				
	0,04	0,93	1500	35	143	4820	195				
	0,04	1,17	1200	38	125	4820	195				
	0,05	1,56	900	41	126	4820	195				
	0,06	1,87	750	44	134	4820	195				
	0,07	2,33	600	46	132	4820	195				
	0,08	2,80	500	42	115	4820	195				
	0,10	3,50	400	45	123	4820	195				
	0,14	4,67	300	50	142	4820	195				
	0,12	5,60	250	53	109	4820	195				
	0,15	7,00	200	56	115	4820	195				
	0,22	9,33	150	59	132	4820	195				
	0,31	14,00	100	60	127	4820	195				
132 - 262 Nm	0,03	0,35	4000	22	177	6200	195	S	63 S 30	96	7,1
	0,04	0,47	3000	23	184	6200	195				
	0,05	0,58	2400	27	217	6200	195				
	0,07	0,78	1800	29	249	6200	195				
	0,08	0,93	1500	31	256	6200	195				
	0,08	1,17	1200	34	220	6200	195				
	0,11	1,56	900	37	247	6200	195				
	0,13	1,87	750	39	262	6200	195				
	0,15	2,33	600	41	249	6200	195				
	0,16	2,80	500	34	187	6200	195				
	0,2	3,50	400	40	220	6200	195				
	0,26	4,67	300	42	223	6200	195				
	0,24	5,60	250	49	199	6200	195				
	0,32	7,00	200	50	219	6200	195				
	0,34	9,33	150	53	185	6200	195				
	0,34	14,00	100	57	132	6200	195				
221 - 388 Nm	0,03	0,28	5000	22	221	7300	340	S	75 S 40	98	11
	0,04	0,35	4000	24	257	7300	340				
	0,06	0,47	3000	25	301	7300	340				
	0,07	0,58	2400	29	332	7300	340				
	0,10	0,78	1800	31	381	7300	340				
	0,11	0,93	1500	34	384	7300	340				
	0,12	1,17	1200	36	353	7300	340				
	0,16	1,56	900	39	384	7300	340				
	0,18	1,87	750	42	388	7300	340				
	0,21	2,33	600	43	373	7300	340				
	0,24	2,80	500	37	305	7300	340				
	0,30	3,50	400	44	361	7300	340				
	0,40	4,67	300	47	386	7300	340				
	0,38	5,60	250	50	325	7300	340				
	0,50	7,00	200	53	363	7300	340				
	0,64	9,33	150	55	358	7300	340				
	0,76	14,00	100	57	296	7300	340				

n_1 = 1400 d/d

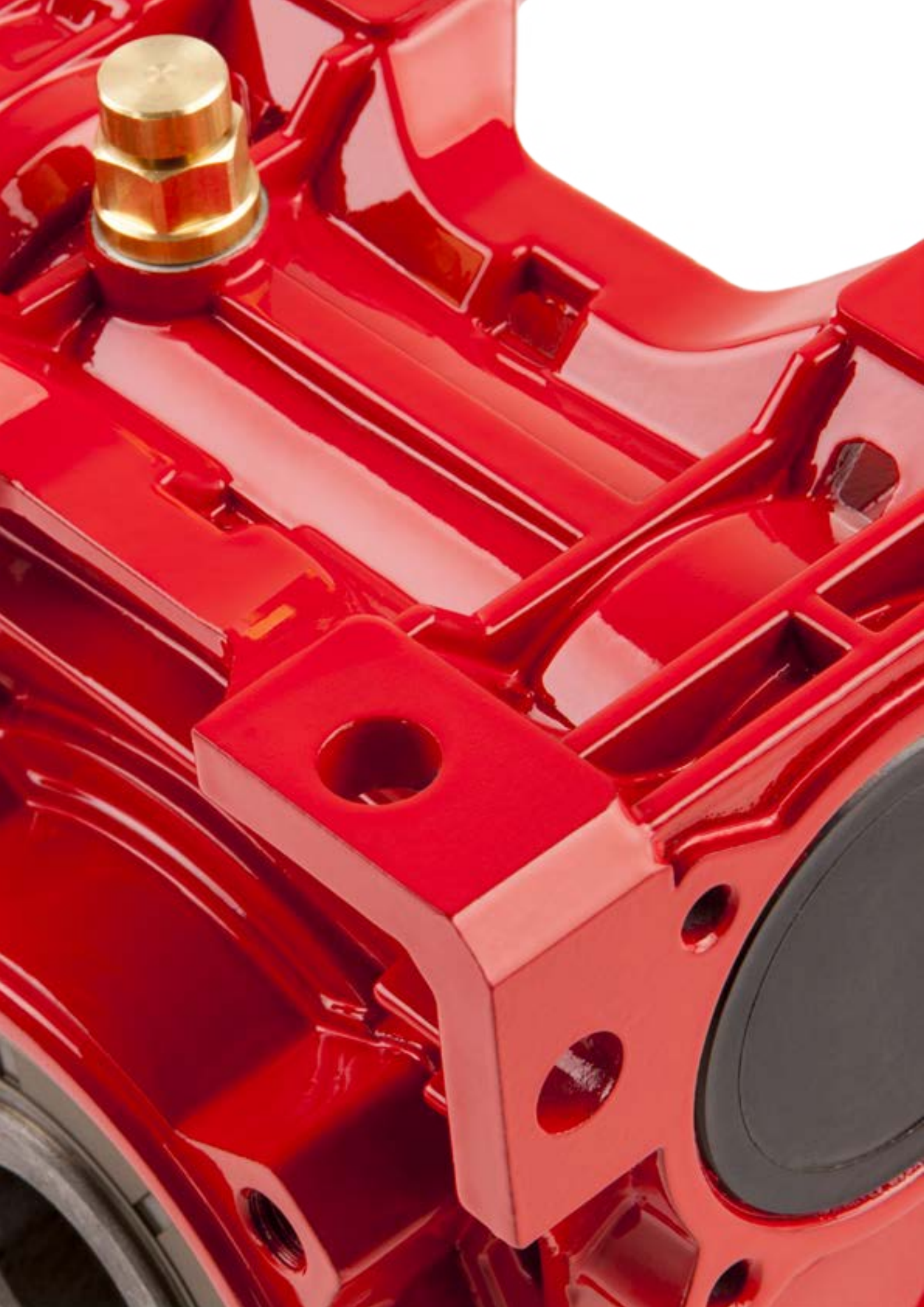
Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Q1o} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
325 - 565 Nm	0,04	0,28	4960	29	381	7400	340	İRSAM İRSFM	82 S 40	116	27 29
	0,05	0,38	3720	33	381	7400	340				
	0,07	0,44	3180	37	565	7400	340				
	0,08	0,53	2650	41	565	7400	340				
	0,09	0,66	2120	44	565	7400	340				
	0,10	0,88	1600	44	470	7400	340				
	0,12	0,93	1500	44	560	7400	340				
	0,15	1,17	1200	47	560	7400	340				
	0,19	1,56	900	49	560	7400	340				
	0,21	1,87	750	51	560	7400	340				
	0,26	2,33	600	53	560	7400	340				
	0,32	3,11	450	57	560	7400	340				
	0,46	4,67	300	59	560	7400	340				
	0,60	6,22	225	61	560	7400	340				
	0,67	9,33	150	66	456	7400	340				
	0,68	14,00	100	70	325	7400	340				
703 - 999 Nm	0,06	0,28	5084	34	738	8100	410	İRSAM İRSFM	102 İRS 52	118	51 55
	0,08	0,34	4100	35	738	8100	410				
	0,09	0,44	3150	36	703	8100	410				
	0,11	0,58	2394	41	703	8100	410				
	0,15	0,74	1900	46	906	8100	410				
	0,23	0,93	1500	43	999	8100	410				
	0,26	1,23	1140	49	999	8100	410				
	0,33	1,61	870	50	999	8100	410				
	0,37	1,87	750	53	999	8100	410				
	0,45	2,46	570	57	999	8100	410				
	0,58	3,22	435	58	999	8100	410				
	0,83	4,91	285	62	999	8100	410				
	1,07	6,44	218	63	999	8100	410				
	1,20	9,82	143	69	805	8100	410				
	1,56	12,87	109	70	805	8100	410				
1218 - 1792 Nm	0,10	0,27	5146	33	1218	10800	410	İRSAM İRSFM	127 İRS 65	120	85 91
	0,11	0,34	4150	40	1218	10800	410				
	0,14	0,43	3250	42	1268	10800	410				
	0,17	0,55	2535	44	1268	10800	410				
	0,32	0,71	1984	41	1792	10800	410				
	0,33	0,88	1600	49	1792	10800	410				
	0,41	1,12	1248	52	1792	10800	410				
	0,53	1,46	960	52	1792	10800	410				
	0,58	1,75	800	57	1792	10800	410				
	0,71	2,24	624	59	1792	10800	410				
	0,92	2,92	480	59	1792	10800	410				
	1,30	4,49	312	65	1792	10800	410				
	1,69	5,83	240	65	1792	10800	410				
	1,95	8,97	156	71	1485	10800	410				
	2,54	11,67	120	71	1485	10800	410				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
2241 - 3352 Nm	0,16	0,26	5394	38	2241	19800	850	İRSAM İRSFM	162 İRS 82	122	190 213
	0,16	0,30	4611	44	2241	19800	850				
	0,32	0,42	3348	44	3244	19800	850				
	0,33	0,49	2862	50	3244	19800	850				
	0,42	0,63	2226	51	3245	19800	850				
	0,56	0,83	1680	50	3245	19800	850				
	0,70	1,11	1260	54	3245	19800	850				
	0,97	1,56	900	56	3352	19800	850				
	1,04	1,76	795	59	3352	19800	850				
	1,35	2,33	600	61	3352	19800	850				
	1,73	3,11	450	63	3352	19800	850				
	2,47	4,67	300	66	3352	19800	850				
	3,26	6,22	225	67	3352	19800	850				
	3,59	9,33	150	72	2653	19800	850				
	4,73	12,44	113	73	2653	19800	850				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Tahvil Ratio *Rapport de réduction*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
957 - 992 Nm	0,14	0,99	1409	70	957	7000	390	İRSAM İRSFM	102 İR 43	124	50 54
	0,19	1,28	1091	70	966	7000	390				
	0,24	1,66	841	70	962	7000	390				
	0,29	2,04	685	70	959	7000	390				
	0,33	2,21	633	70	990	7000	390				
	0,39	2,63	533	70	992	7000	390				
	0,47	3,20	438	70	988	7000	390				
	0,53	3,59	390	70	991	7000	390				
	0,62	4,15	337	70	990	7000	390	İRSAM İRSFM	102 İR 42	124	49 53
	0,80	5,38	260	70	991	7000	390				
	1,14	7,68	182	70	991	7000	390				
	1,41	9,52	147	70	991	7000	390				
1732 - 1809 Nm	0,24	0,93	1503	71	1747	9650	390	İRSAM İRSFM	127 İR 43	126	80 86
	0,36	1,37	1019	71	1753	9650	390				
	0,43	1,67	838	71	1756	9650	390				
	0,54	2,07	675	71	1758	9650	390				
	0,64	2,46	568	71	1755	9650	390				
	0,78	3,00	467	71	1754	9650	390				
	0,87	3,37	416	71	1757	9650	390				
	0,65	2,55	550	71	1743	9650	475	İRSAM İRSFM	127 İR 52	128	86 92
	0,74	2,91	482	71	1732	9650	475				
	0,95	3,70	378	71	1732	9650	475				
	1,18	4,61	303	71	1738	9650	475				
	1,61	6,10	229	71	1792	9650	475				
	1,99	7,52	186	71	1793	9650	475				
	2,32	8,70	161	71	1809	9650	475				
	2,87	10,78	130	71	1807	9650	475				
3411 - 3436 Nm	2,02	3,83	366	68	3436	19800	590	İRSAM İRSFM	162 İR 62	130	292 313
	2,44	4,63	302	68	3422	19800	590				
	2,88	5,48	255	68	3413	19800	590				
	3,45	6,57	213	68	3413	19800	590				
	4,09	7,79	180	68	3411	19800	590				
	4,62	8,77	160	68	3420	19800	590				
	5,48	10,39	135	68	3423	19800	590				
	6,62	12,58	111	68	3419	19800	590				
4241 - 4257 Nm	3,27	5,00	280	68	4246	25100	1200	İRSAM İRSFM	201 İR 72	132	338 370
	4,08	6,25	224	68	4241	25100	1200				
	5,04	7,69	182	68	4257	25100	1200				
	6,12	9,35	150	68	4250	25100	1200				
	7,53	11,52	122	68	4244	25100	1200				
	9,21	14,06	100	68	4255	25100	1200				

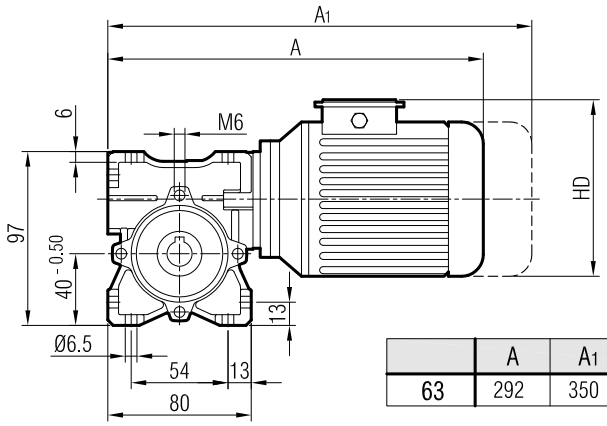


Sonsuz Vidalı Redüktörler Ölçü Sayfaları

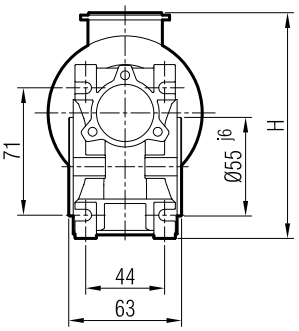
Worm Gearbox Dimension Pages

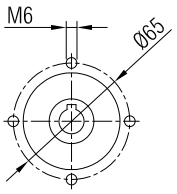
Réducteurs à roue et vis sans fin dimensions

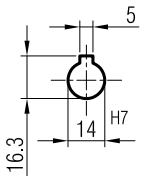
SM 30

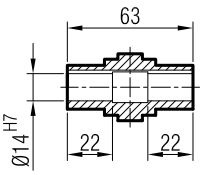


	A	A1	H	HD
63	292	350	169	162

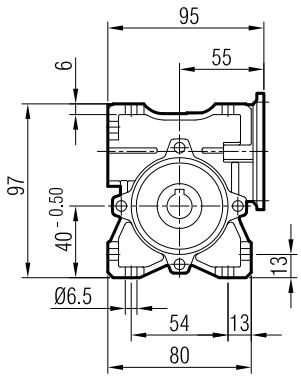


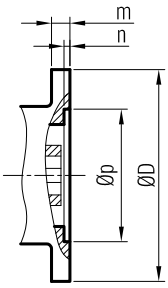


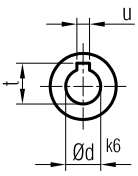


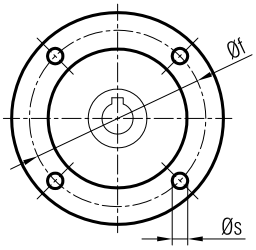


SP 30



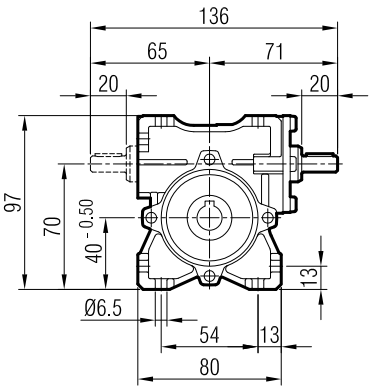


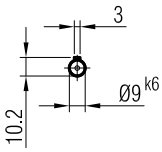


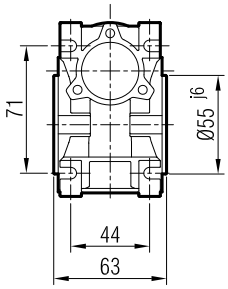


IEC B14	m	n	p	f	D	d	t	u	s
63	9	4.5	60	75	90	11	12.8	4	6

S 30

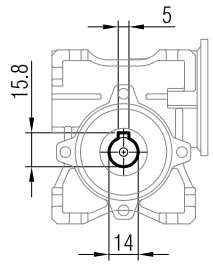




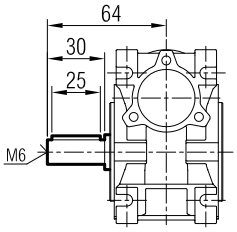


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

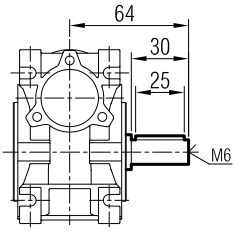
SM / SP / S



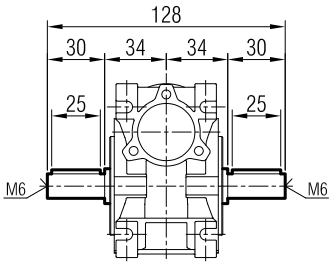
- SR



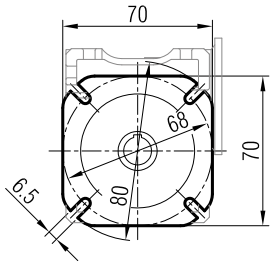
- SL



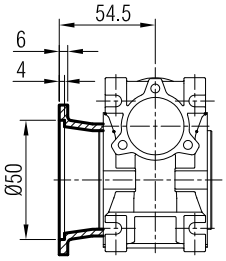
- SD



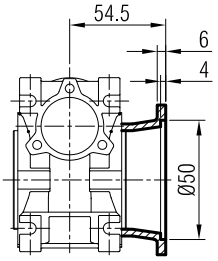
SM / SP / S



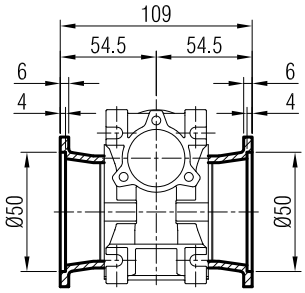
- FR



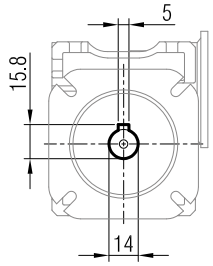
- FL



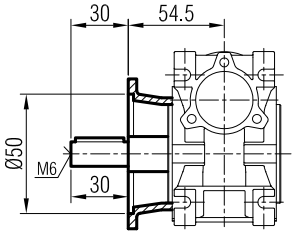
- FD



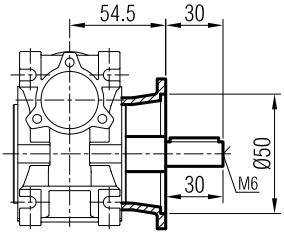
SM / SP / S



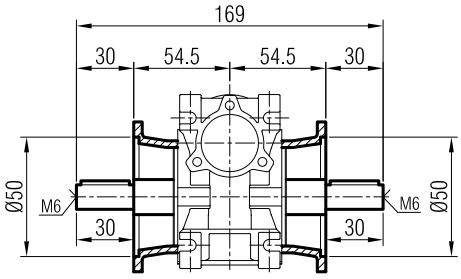
- FR - SR



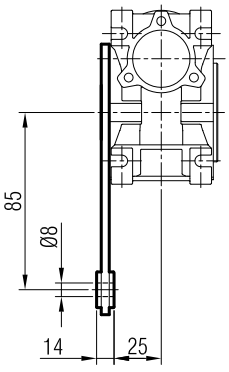
- FL - SL



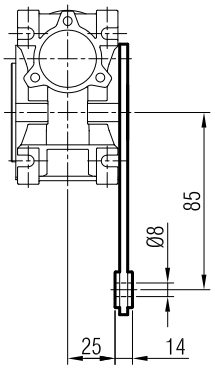
- FD - SD

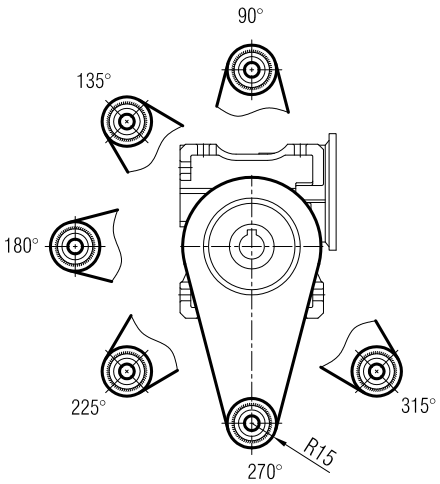


- TR

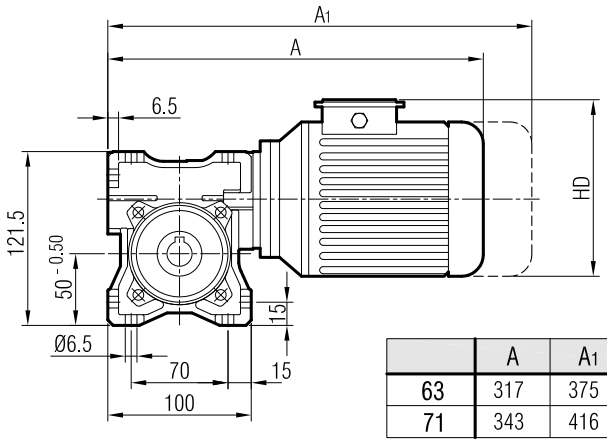


- TL

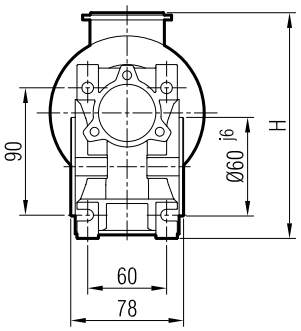


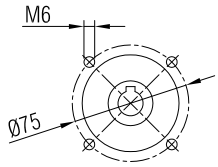


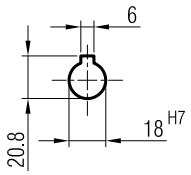
SM 40

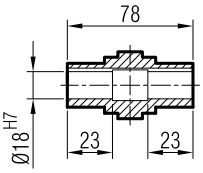


	A	A1	H	HD
63	317	375	189	162
71	343	416	201	182

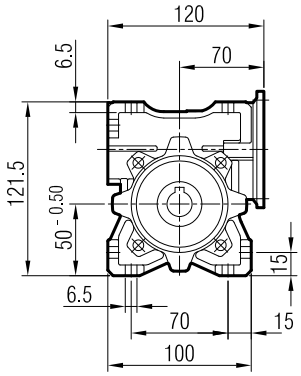


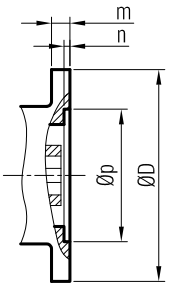


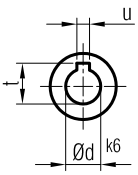


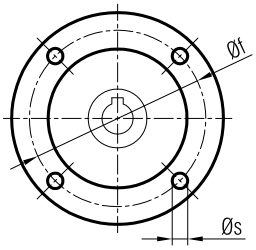


SP 40



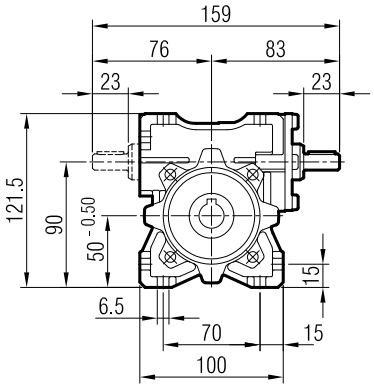


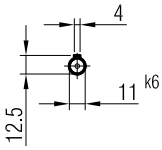


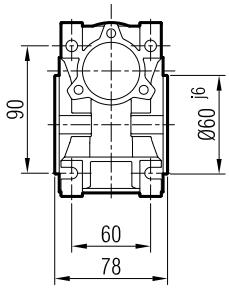


IEC B14	m	n	p	f	D	d	t	u	s
63	10	4.5	60	75	90	11	12.8	4	6
71	10	4.5	70	85	105	14	16.3	5	7

S 40

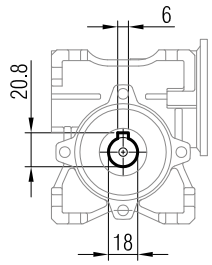




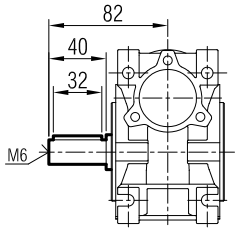


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

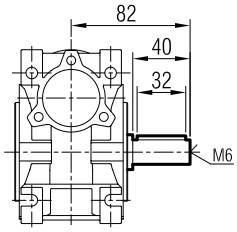
SM / SP / S



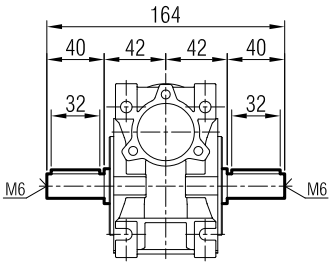
- SR



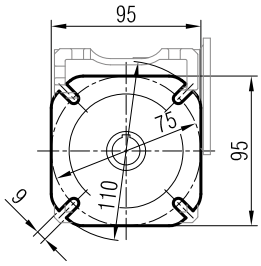
- SL



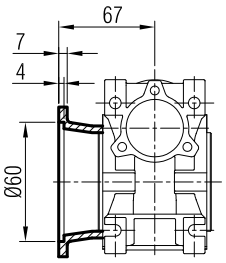
- SD



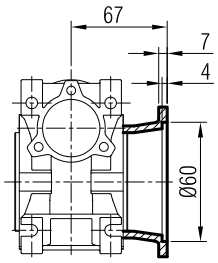
SM / SP / S



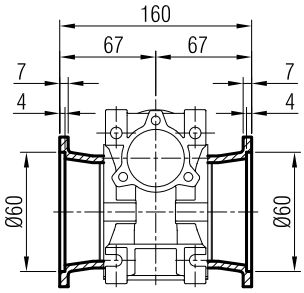
- FR



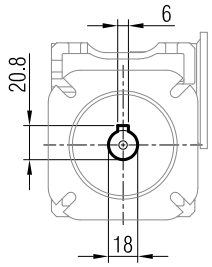
- FL



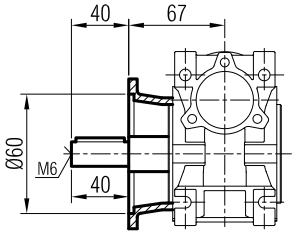
- FD



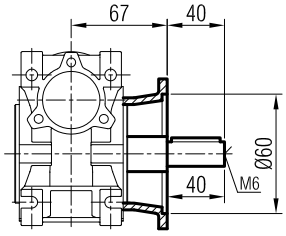
SM / SP / S



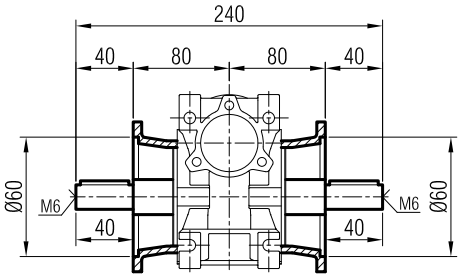
- FR - SR



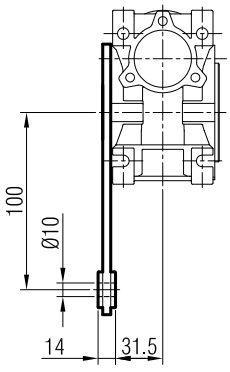
- FL - SL



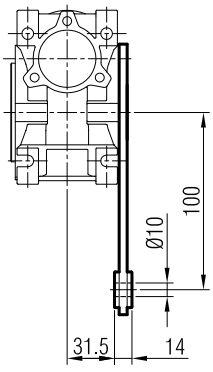
- FD - SD

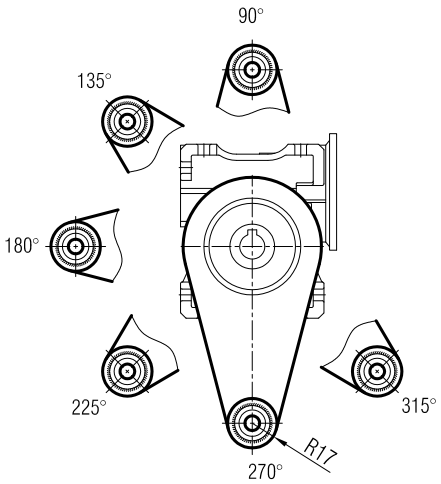


- TR

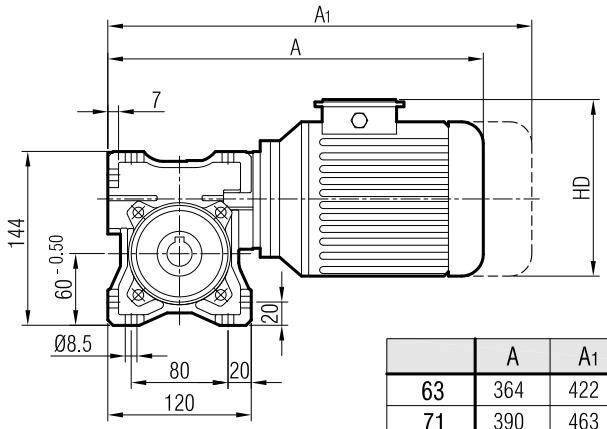


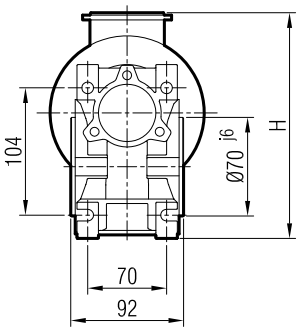
- TL



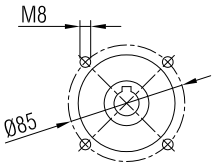


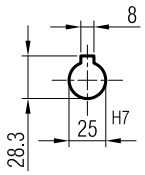
SM 50

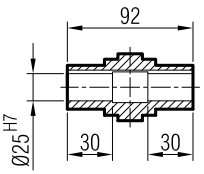




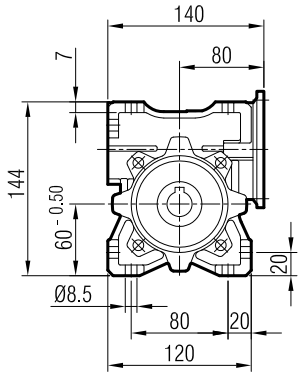
	A	A1	H	HD
63	364	422	209	162
71	390	463	221	182
80	411	494	228	198

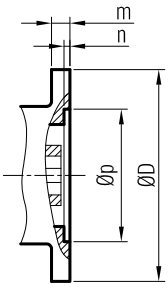


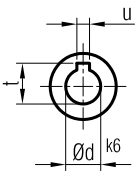


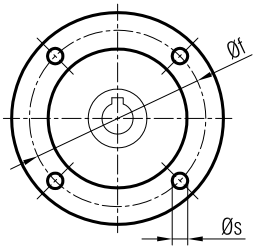


SP 50



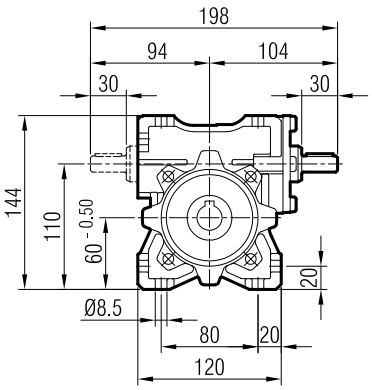


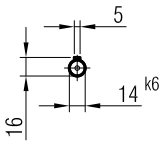


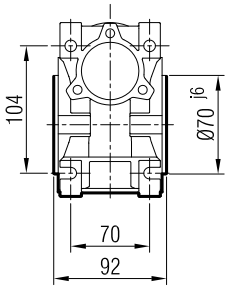


IEC B14	m	n	p	f	D	d	t	u	s
63	10	4.5	60	75	90	11	12.8	4	6
71	10	4.5	70	85	105	14	16.3	5	7
80	10	4.5	80	100	120	19	21.8	6	7

S 50

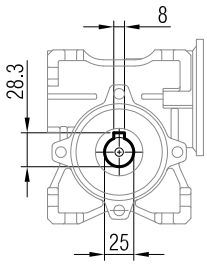




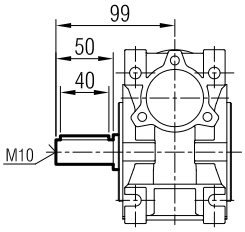


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

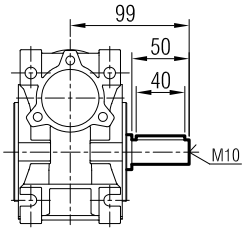
SM / SP / S



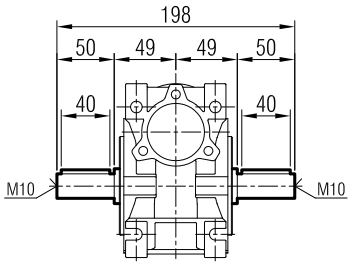
- SR



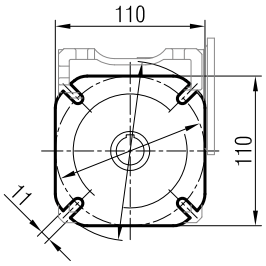
- SL



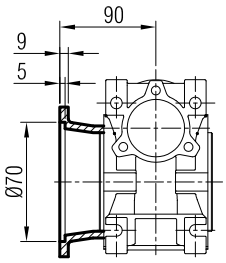
- SD



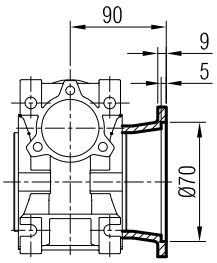
SM / SP / S



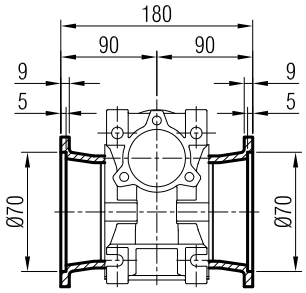
- FR



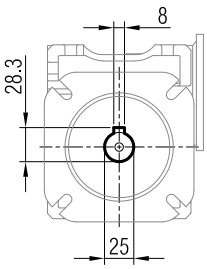
- FL



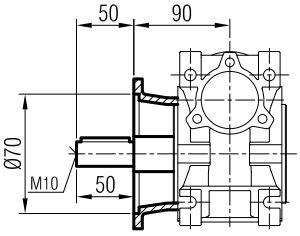
- FD



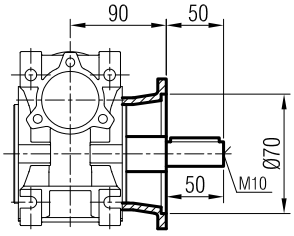
SM / SP / S



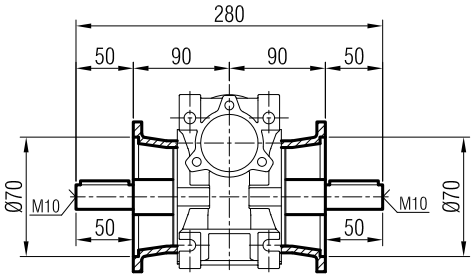
- FR - SR



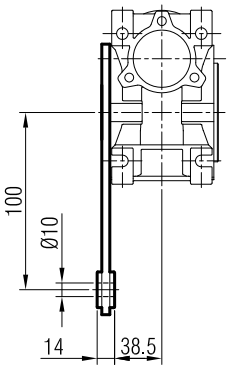
- FL - SL



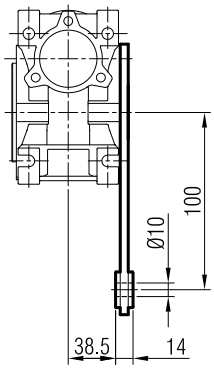
- FD - SD

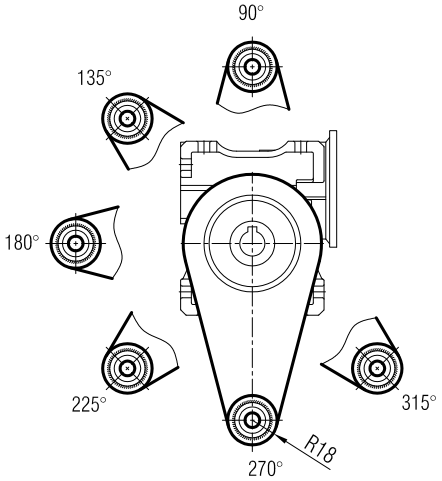


- TR

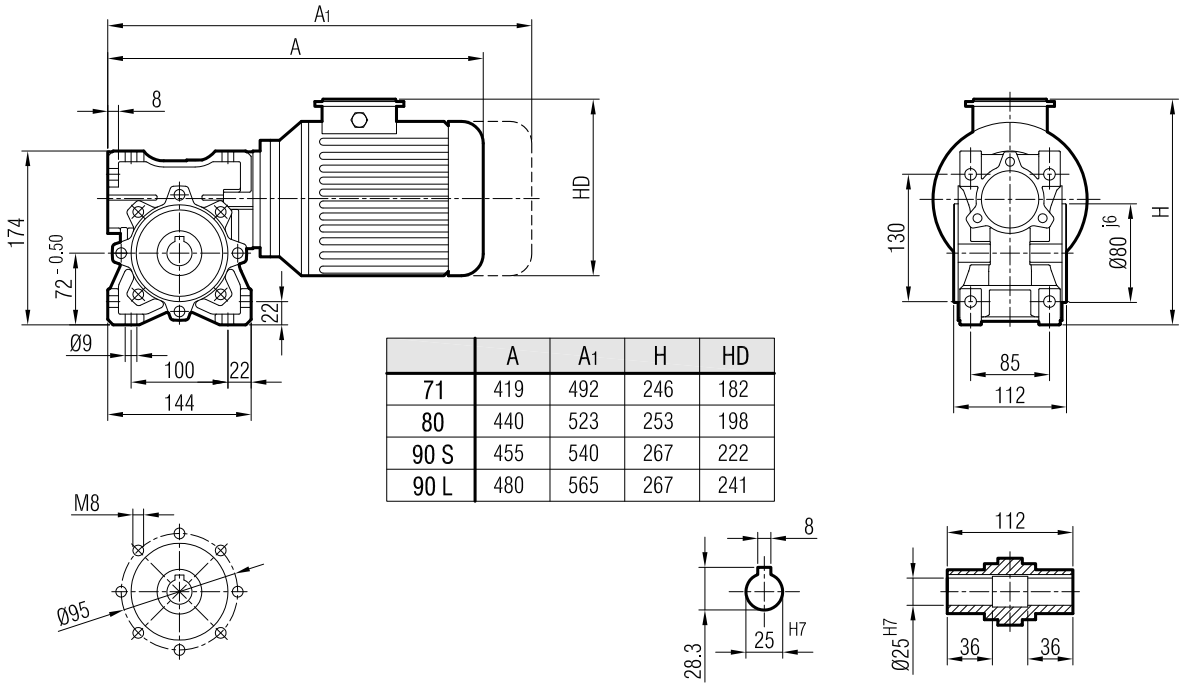


- TL



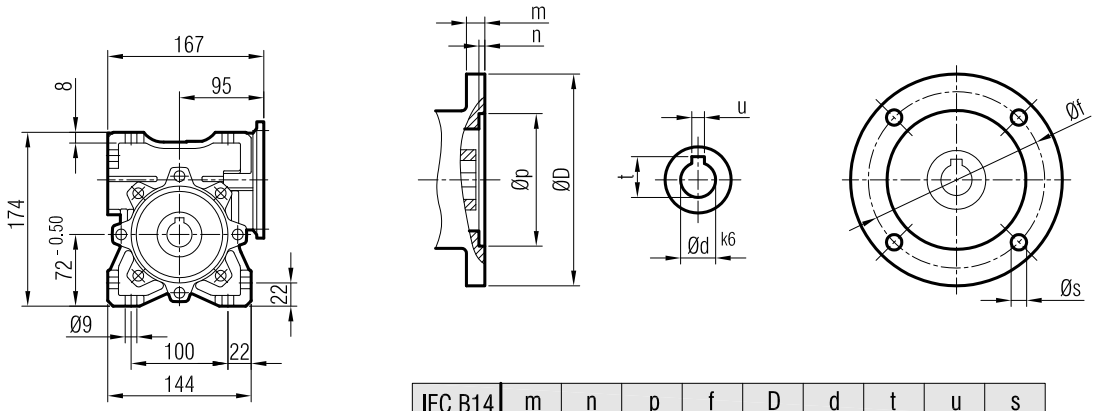


SM 63



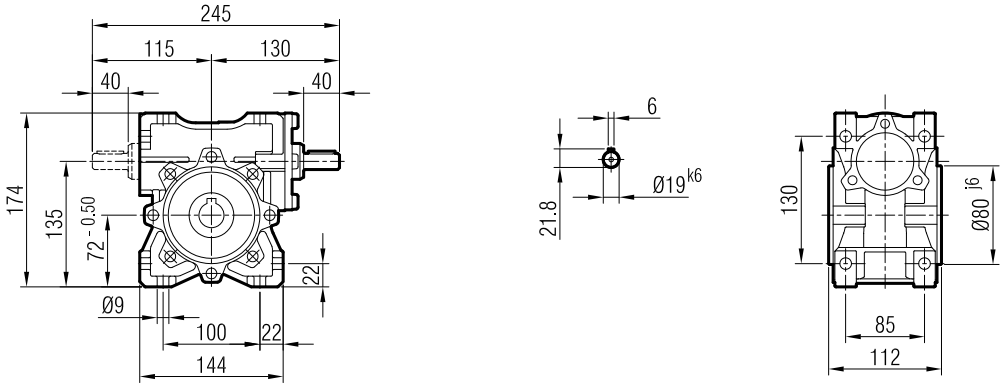
	A	A1	H	HD
71	419	492	246	182
80	440	523	253	198
90 S	455	540	267	222
90 L	480	565	267	241

SP 63



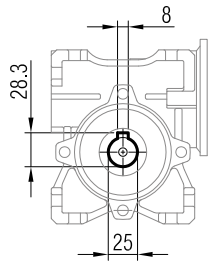
IEC B14	m	n	p	f	D	d	t	u	s
71	10	4.5	70	85	105	14	16.3	5	7
80	10	4.5	80	100	120	19	21.8	6	7
90	11	5	95	115	140	24	27.3	8	9

S 63

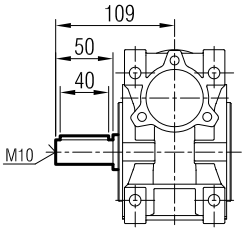


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

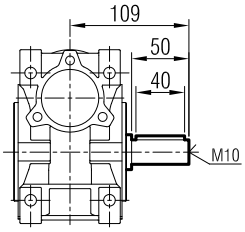
SM / SP / S



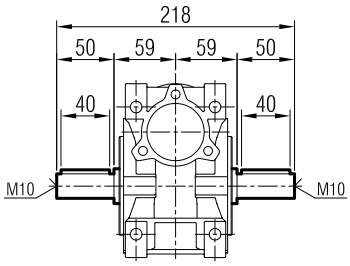
- SR



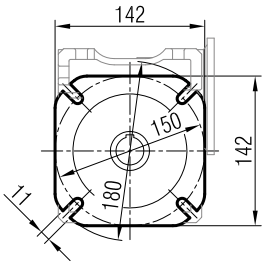
- SL



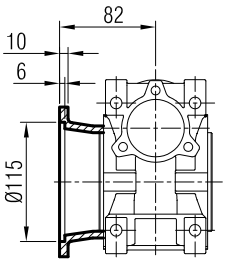
- SD



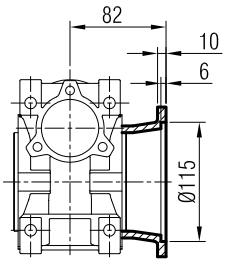
SM / SP / S



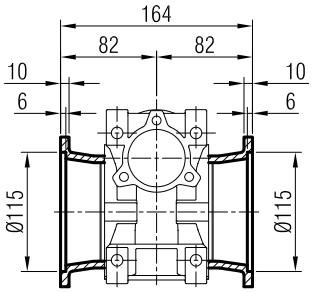
- FR



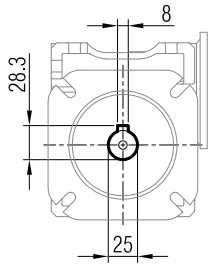
- FL



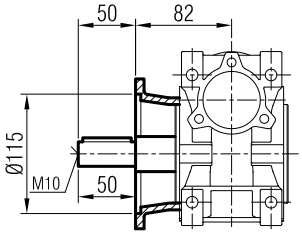
- FD



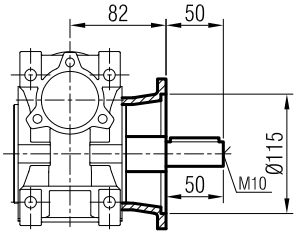
SM / SP / S



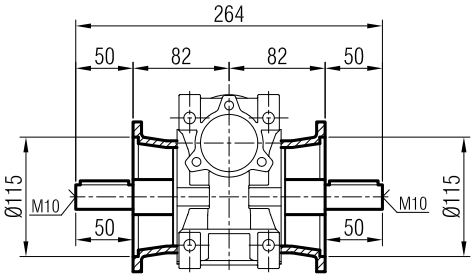
- FR - SR



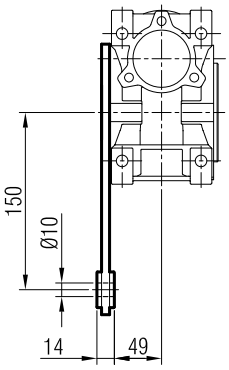
- FL - SL



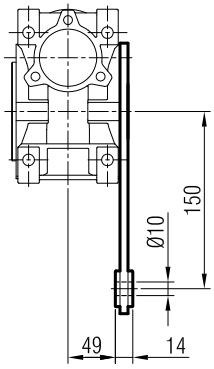
- FD - SD

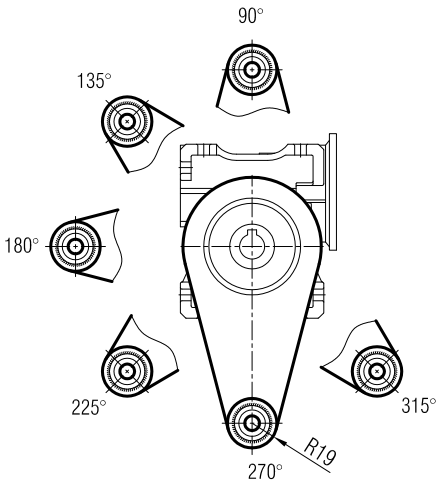


- TR

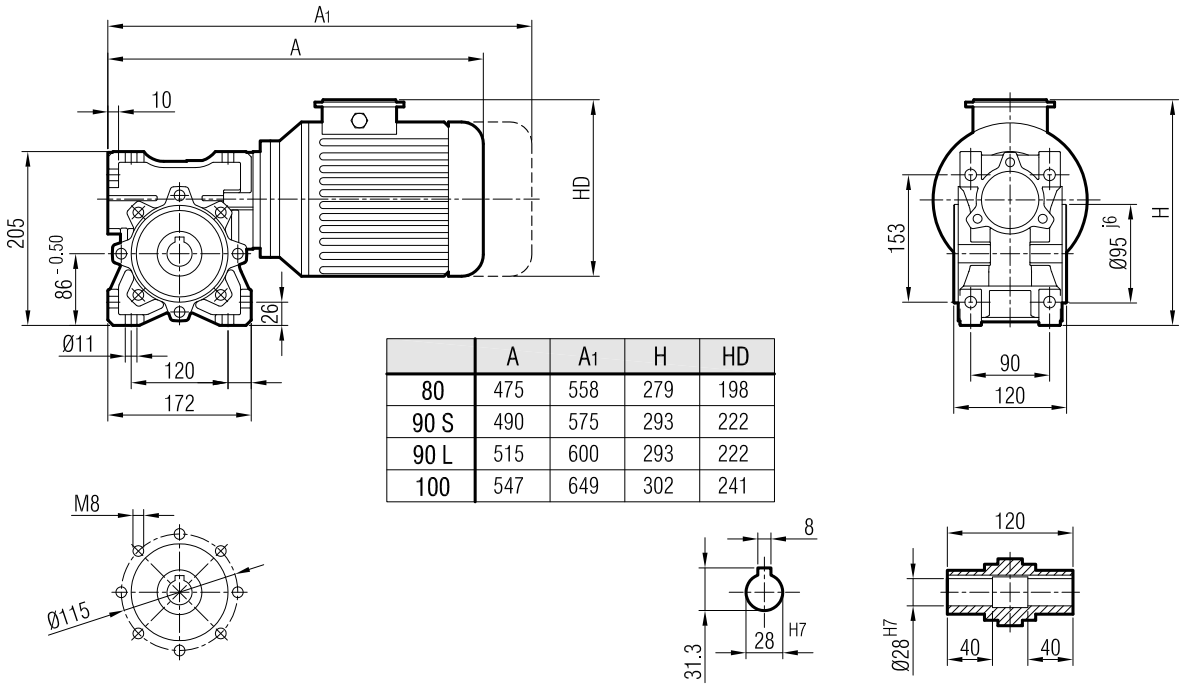


- TL



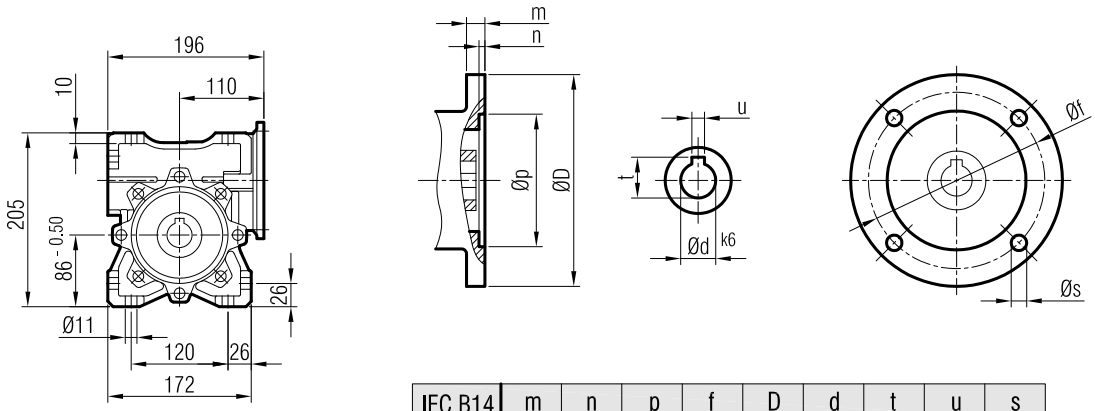


SM 75



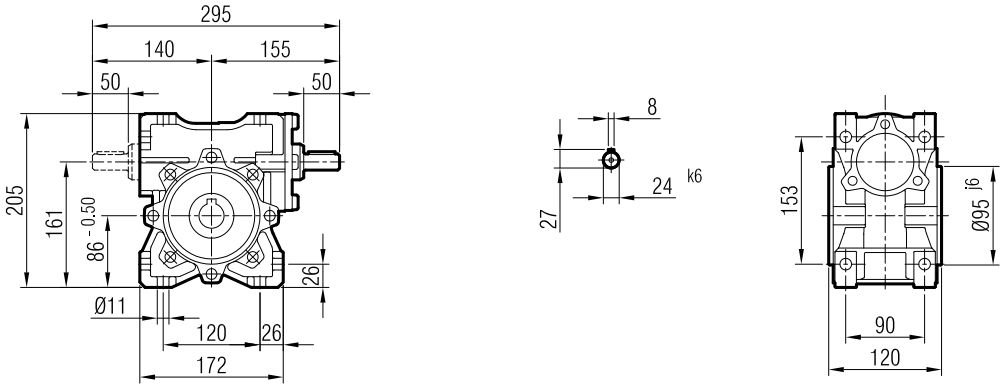
	A	A1	H	HD
80	475	558	279	198
90 S	490	575	293	222
90 L	515	600	293	222
100	547	649	302	241

SP 75



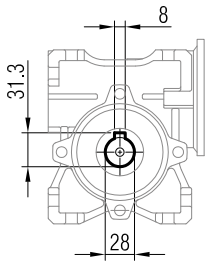
IEC B14	m	n	p	f	D	d	t	u	s
71	10	4.5	70	85	105	14	16.3	5	7
80	10	4.5	80	100	120	19	21.8	6	7
90	11	5	95	115	140	24	27.3	8	10
100	11	5	110	130	160	28	31.3	8	10

S 75

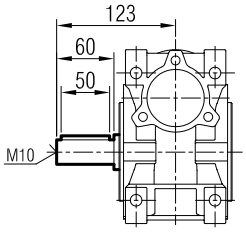


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

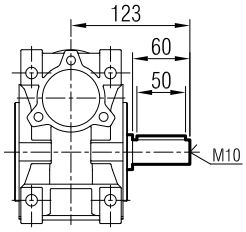
SM / SP / S



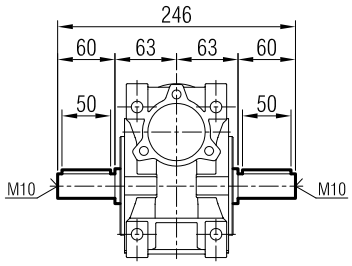
- SR



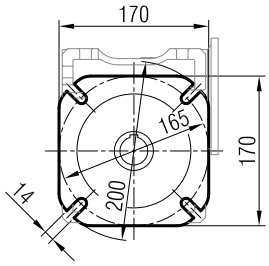
- SL



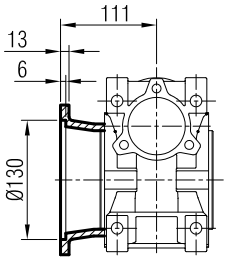
- SD



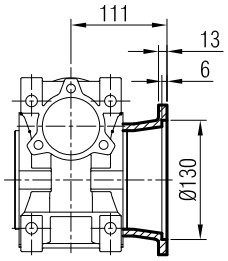
SM / SP / S



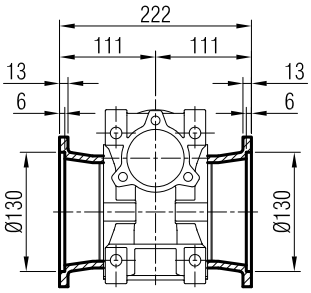
- FR



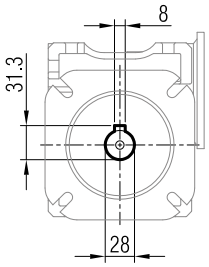
- FL



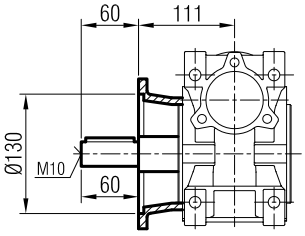
- FD



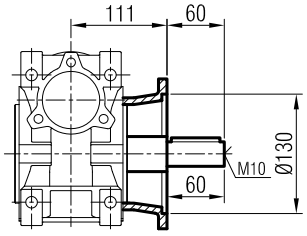
SM / SP / S



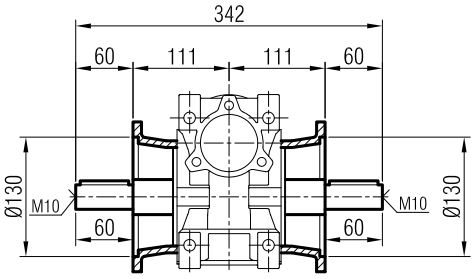
- FR - SR



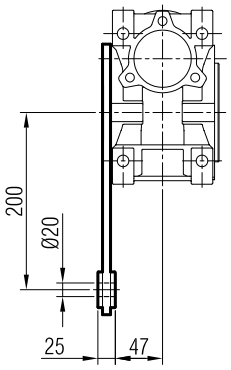
- FL - SL



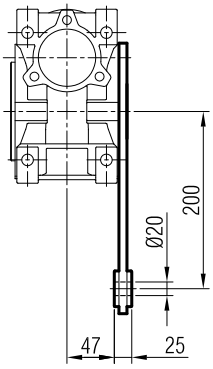
- FD - SD

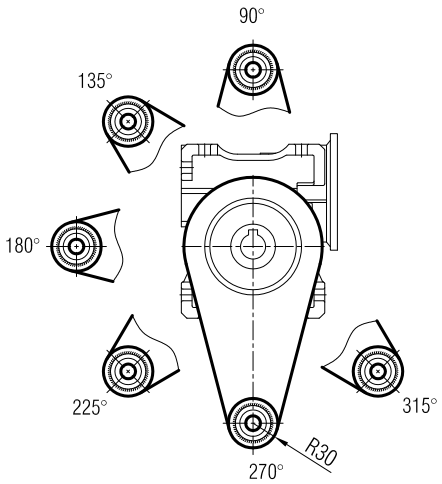


- TR

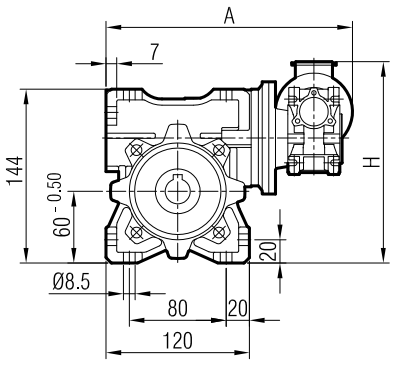


- TL

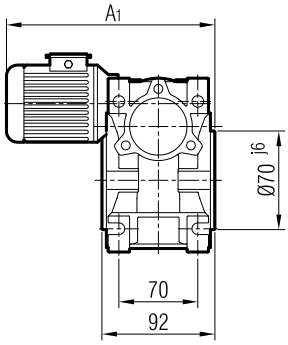


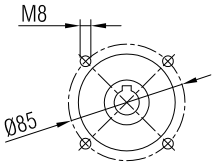


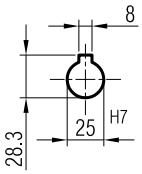
SM 50 S 30

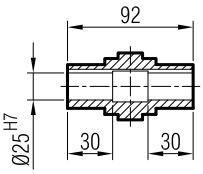


	A	A1	H
63	256	298	210

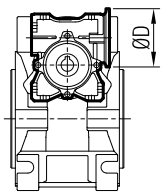


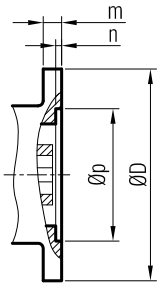


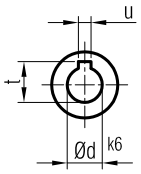


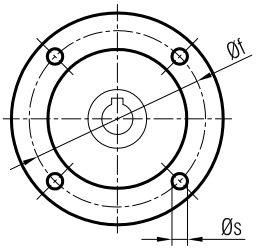


SP 50 S 30



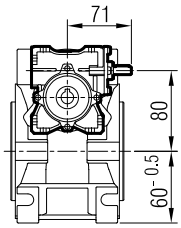


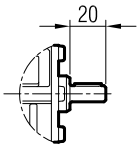


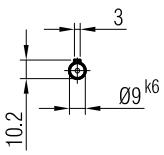


IEC B14	m	n	p	f	D	d	t	u	s
63	9	4.5	60	75	90	11	12.8	4	6

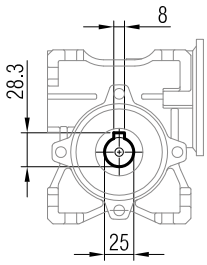
S 50 S 30



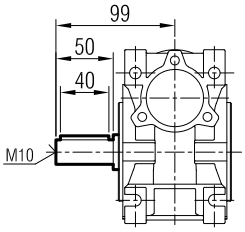




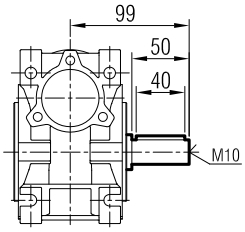
SM / SP / S



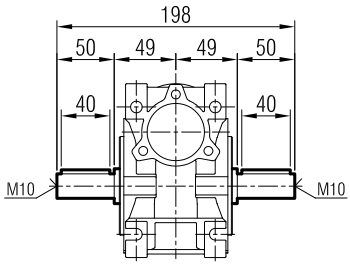
- SR



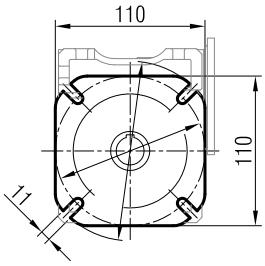
- SL



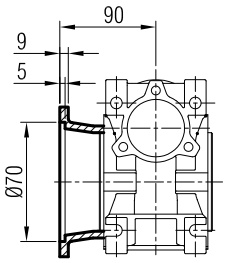
- SD



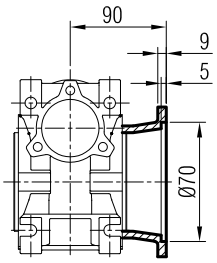
SM / SP / S



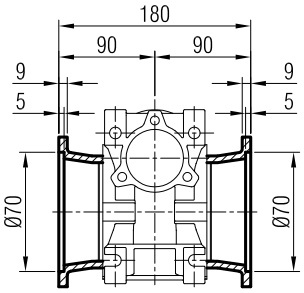
- FR



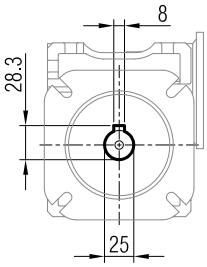
- FL



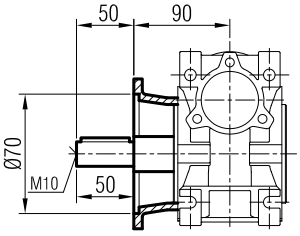
- FD



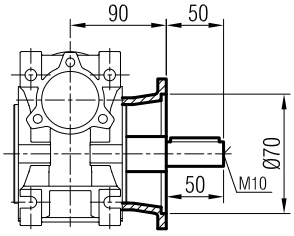
SM / SP / S



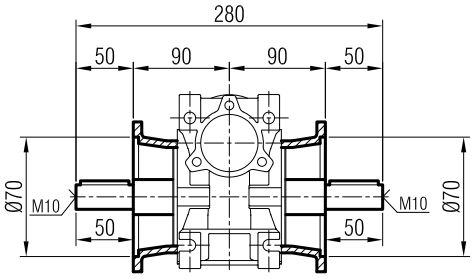
- FR - SR



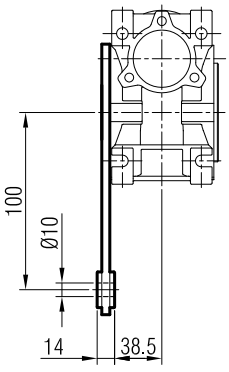
- FL - SL



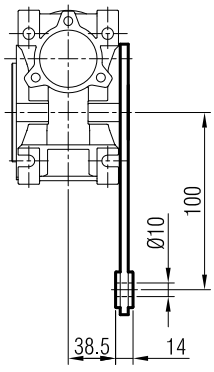
- FD - SD

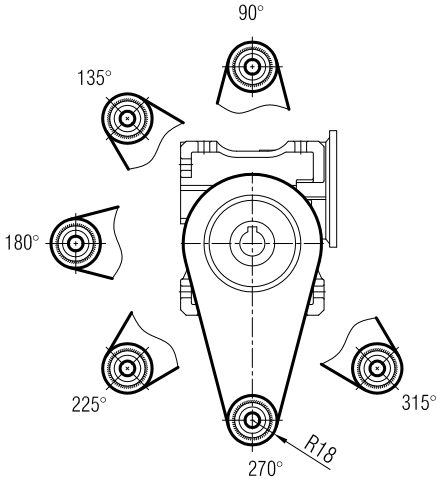


- TR

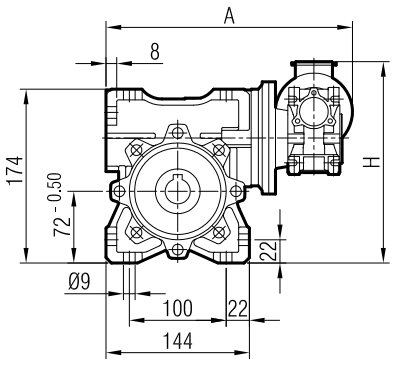


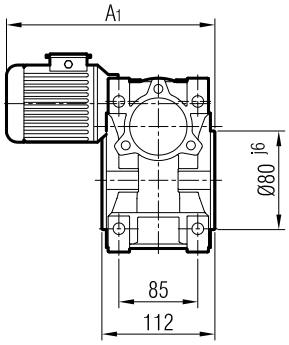
- TL



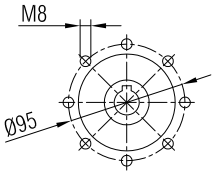


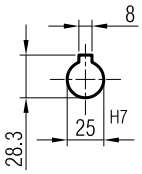
SM 63 S 30

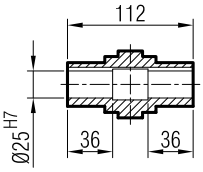




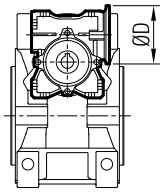
	A	A1	H
63	283	308	264

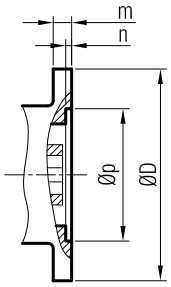


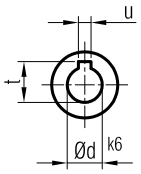


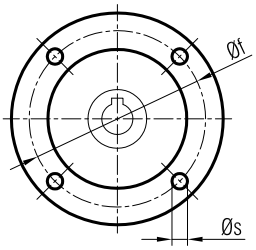


SP 63 S 30



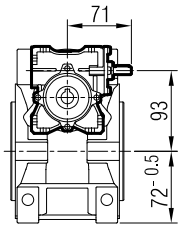


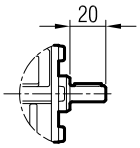


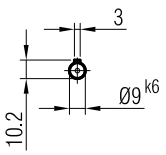


IEC B14	m	n	p	f	D	d	t	u	s
63	9	4.5	60	75	90	11	12.8	4	6

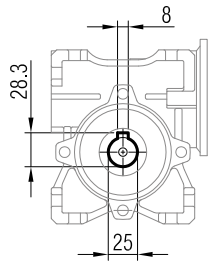
S 63 S 30



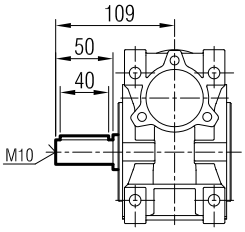




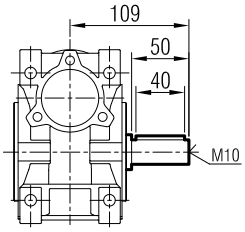
SM / SP / S



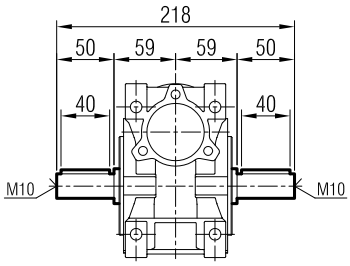
- SR



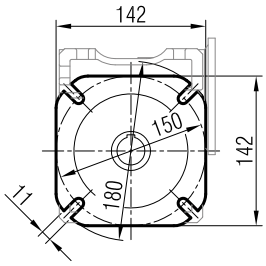
- SL



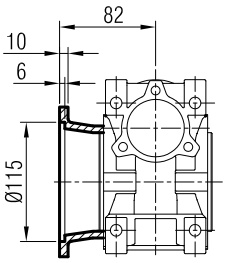
- SD



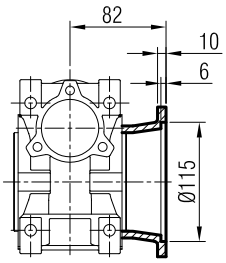
SM / SP / S



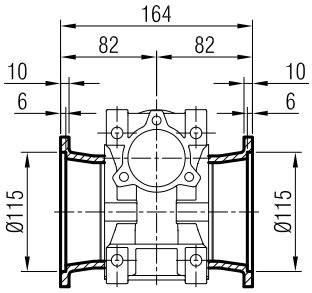
- FR



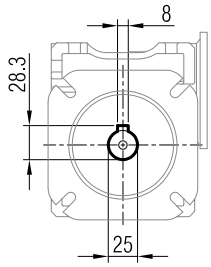
- FL



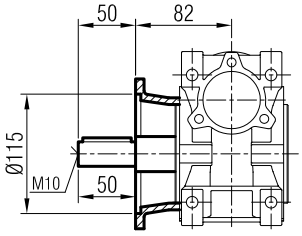
- FD



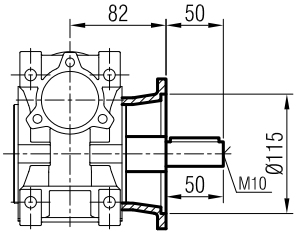
SM / SP / S



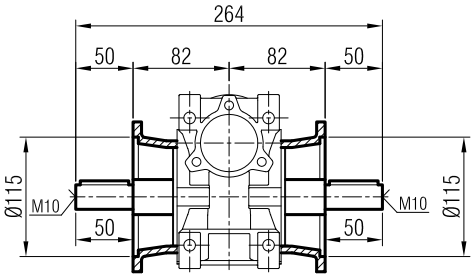
- FR - SR



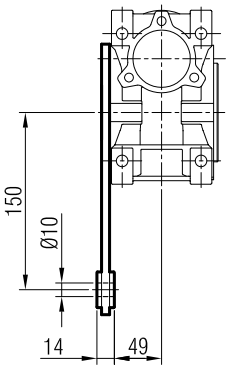
- FL - SL



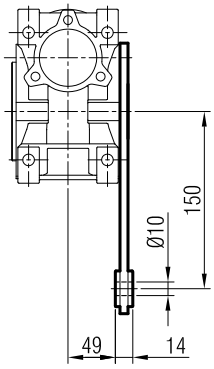
- FD - SD

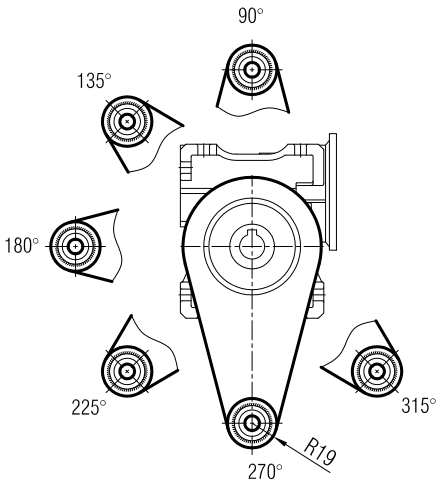


- TR

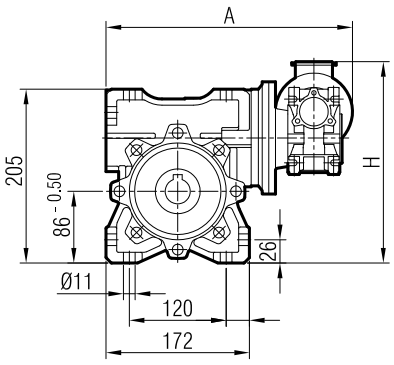


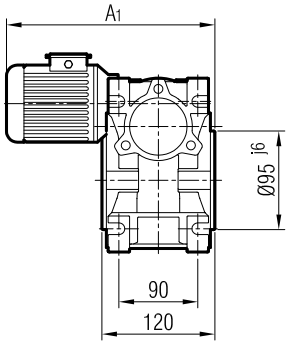
- TL



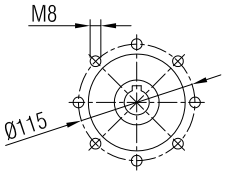


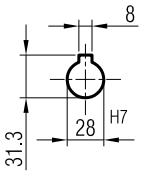
SM 75 S 40

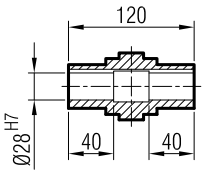




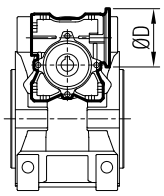
	A	A1	H
63	312	385	300
71	320	426	312

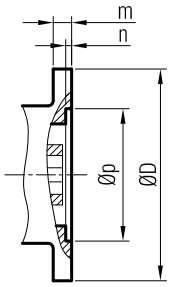


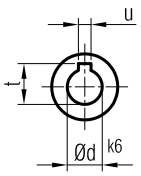


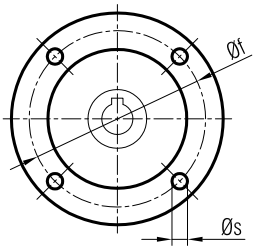


SP 75 S 40



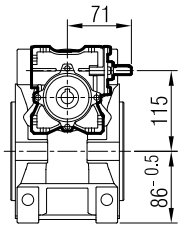


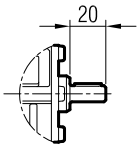


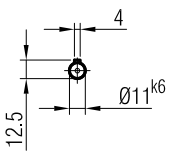


IEC B14	m	n	p	f	D	d	t	u	s
63	10	4.5	60	75	90	11	12.8	4	6
71	10	4.5	70	85	105	14	16.3	5	7

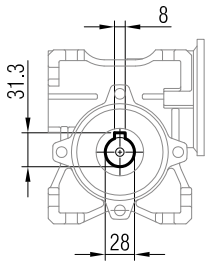
S 75 S 40



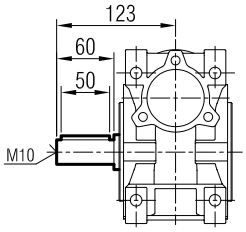




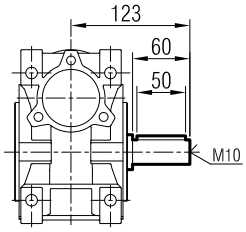
SM / SP / S



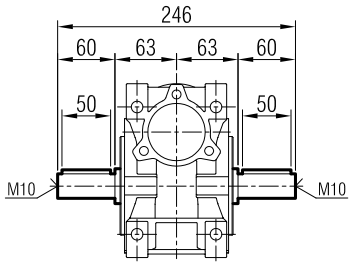
- SR



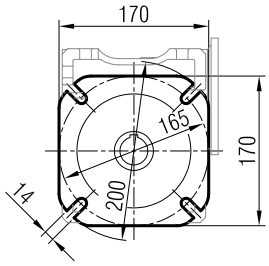
- SL



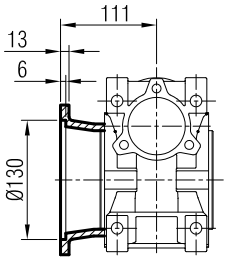
- SD



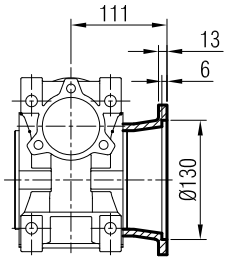
SM / SP / S



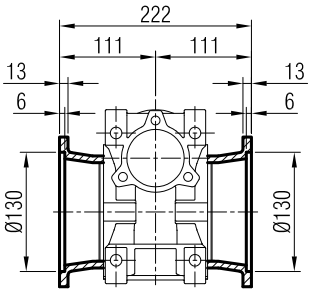
- FR



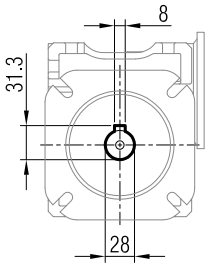
- FL



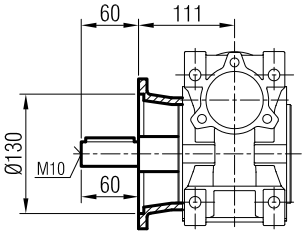
- FD



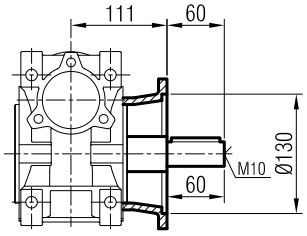
SM / SP / S



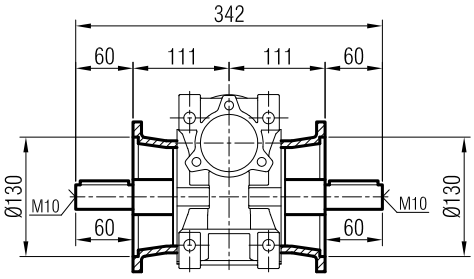
- FR - SR



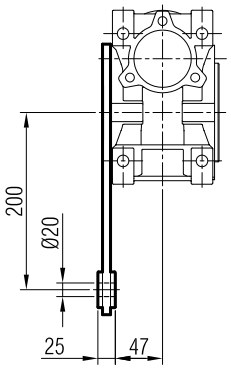
- FL - SL



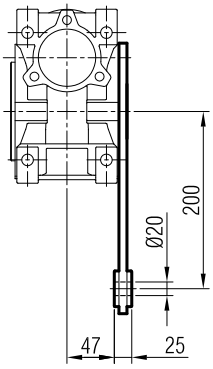
- FD - SD

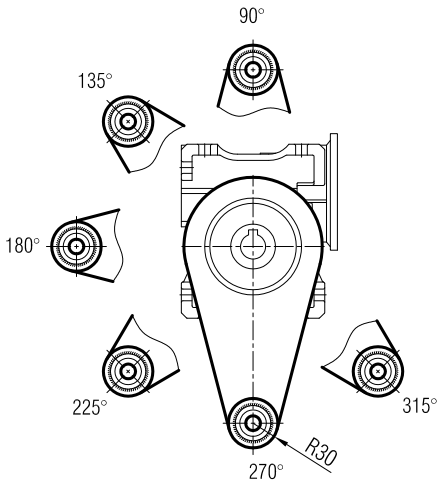


- TR

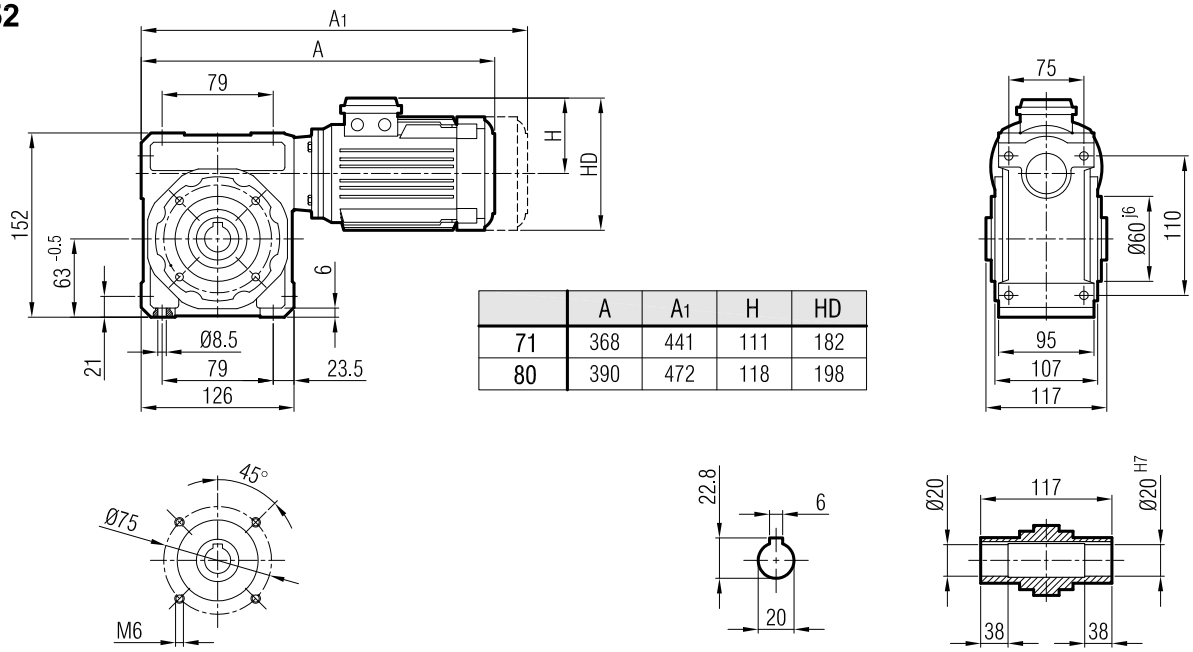


- TL



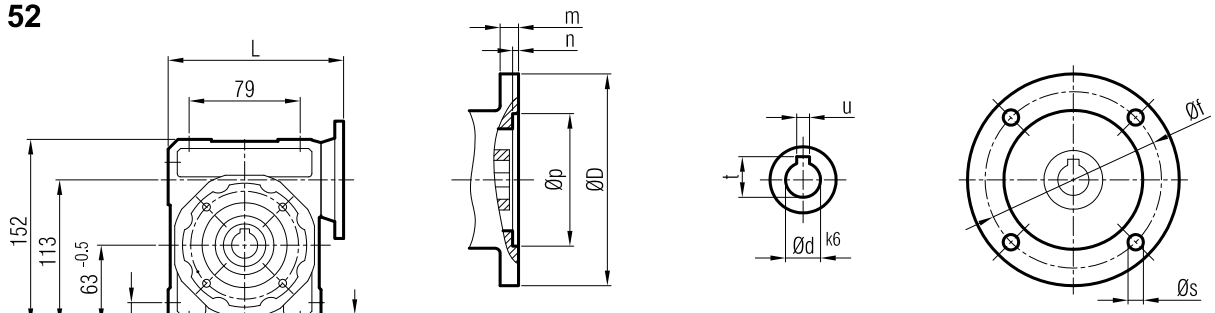


İRSAM 52



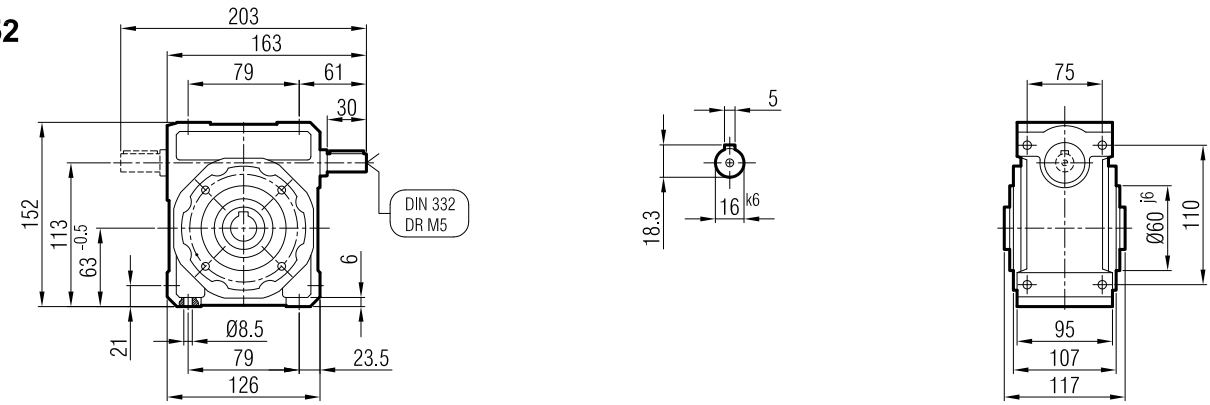
	A	A1	H	HD
71	368	441	111	182
80	390	472	118	198

İRSAP 52



IEC B14	L	m	n	p	f	D	d	t	u	s
71	145	8	3.5	70	85	105	14	16.3	5	7
80	146	8	4	80	100	120	19	21.8	6	7

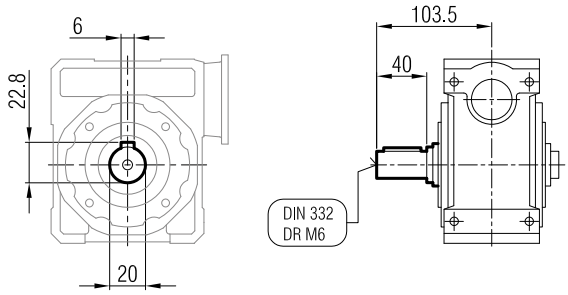
İRSA 52



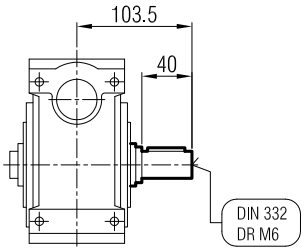
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

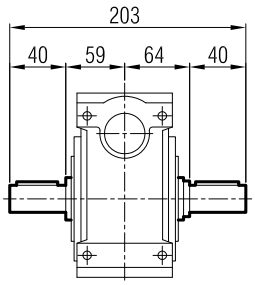
- SR



- SL

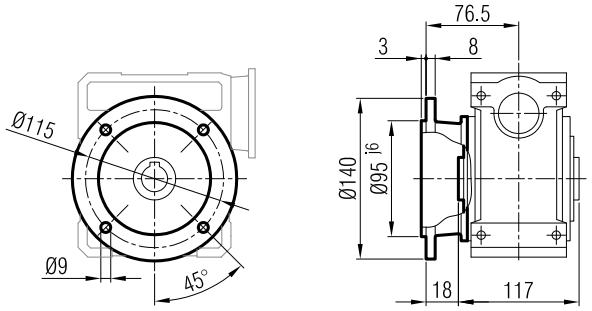


- SD

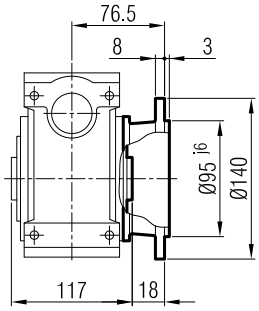


İRSFM / İRSFP / İRSF

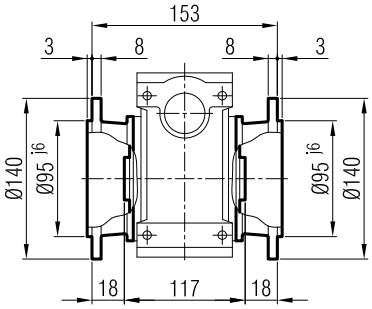
- FR



- FL

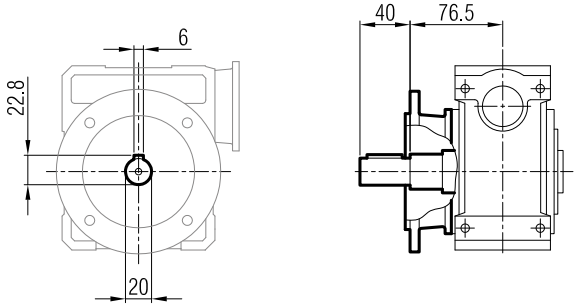


- FD

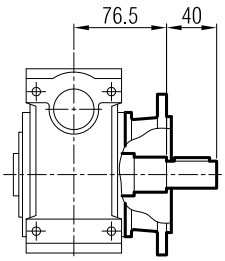


İRSFM / İRSFP / İRSF

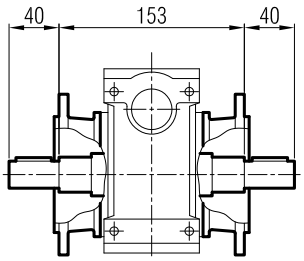
- FR - SR



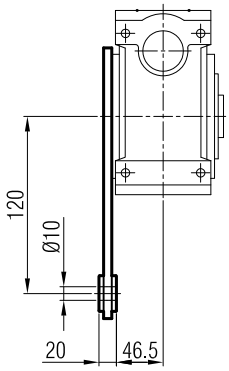
- FL - SL



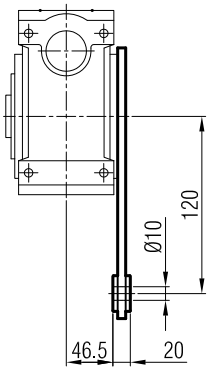
- FD - SD

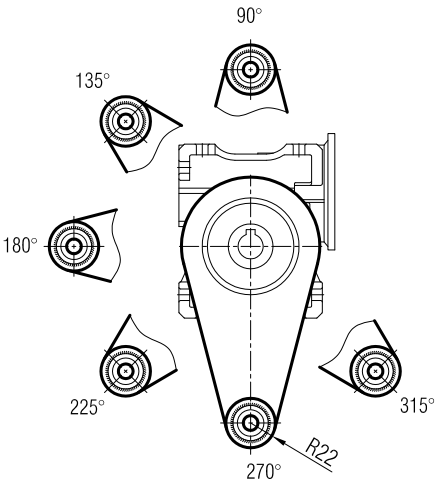


- TR

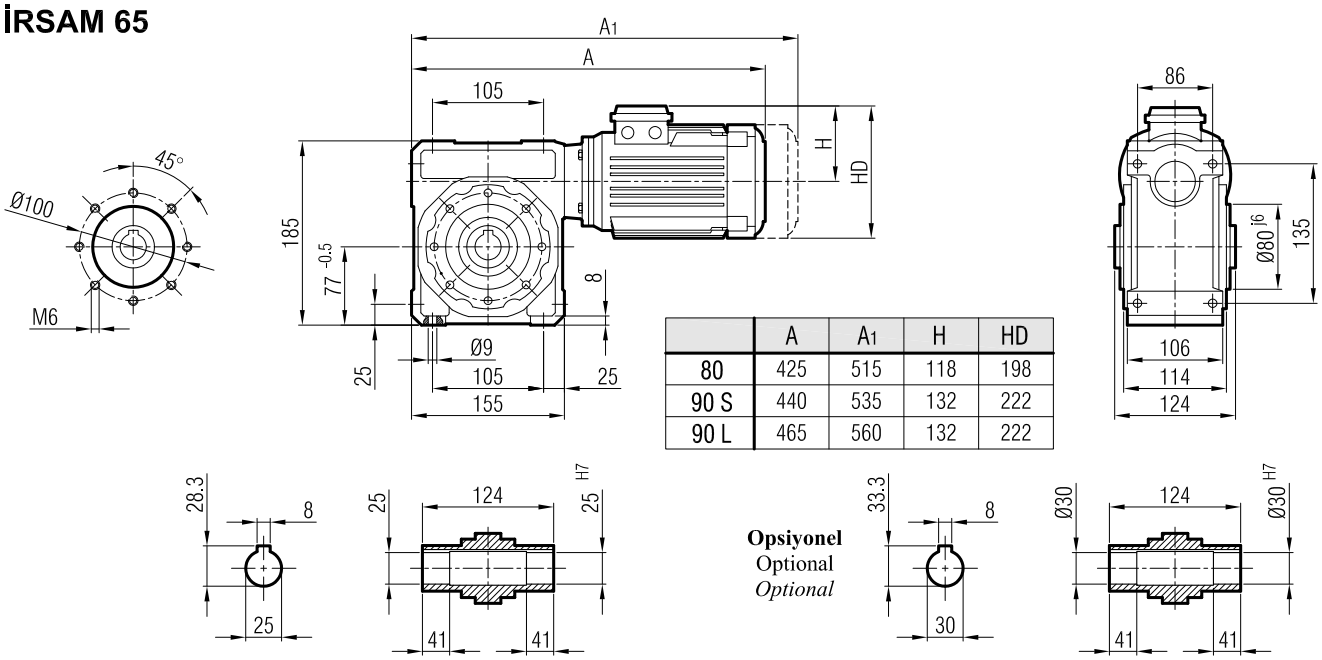


- TL



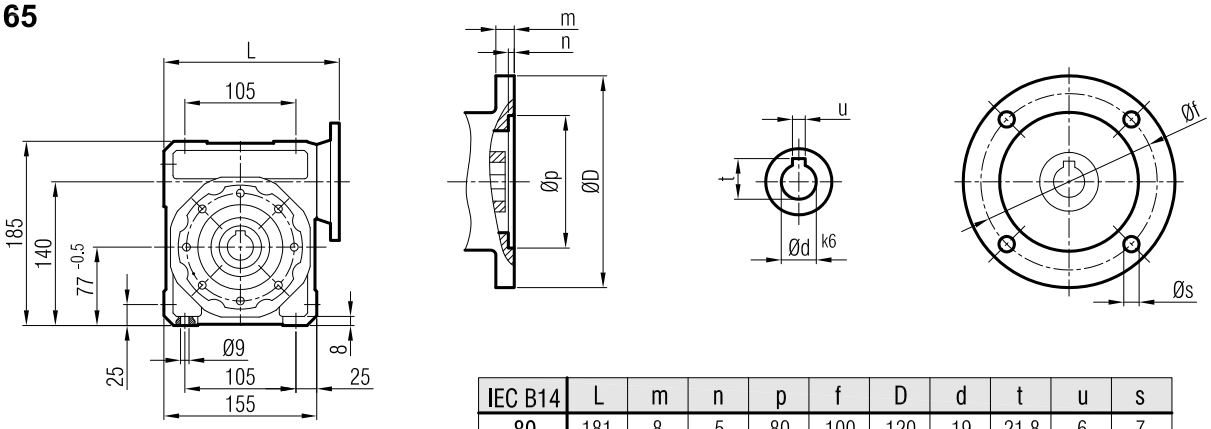


İRSAM 65



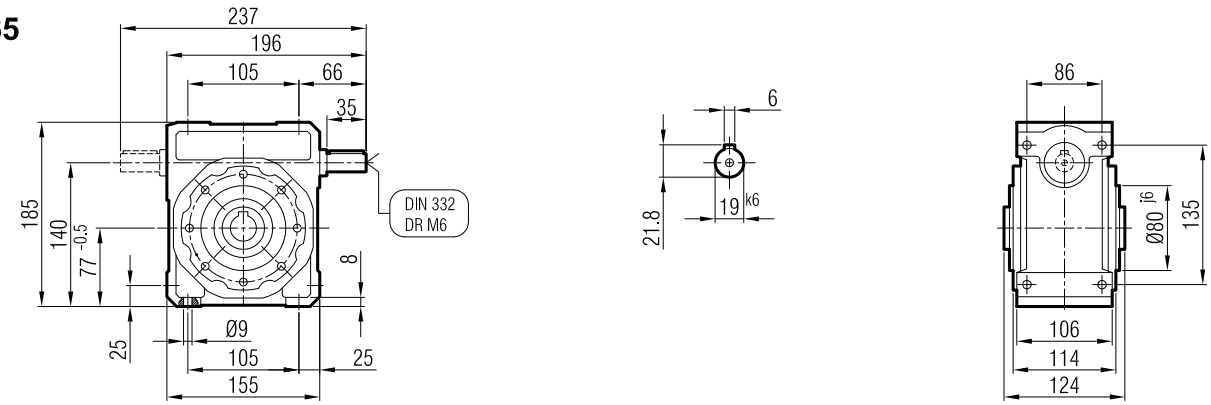
	A	A1	H	HD
80	425	515	118	198
90 S	440	535	132	222
90 L	465	560	132	222

İRSAP 65



IEC B14	L	m	n	p	f	D	d	t	u	s
80	181	8	5	80	100	120	19	21.8	6	7
90	181	10	5	95	115	140	24	27.3	8	9

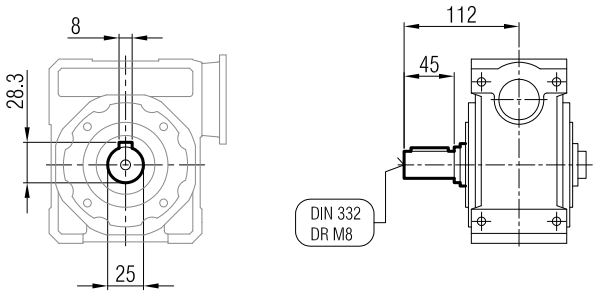
İRSA 65



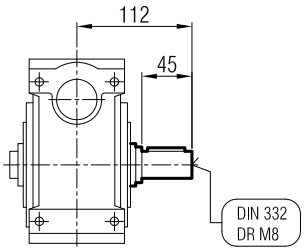
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

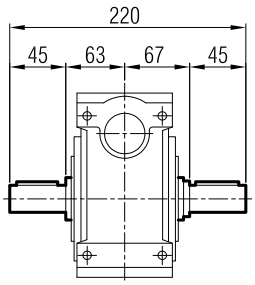
- SR



- SL

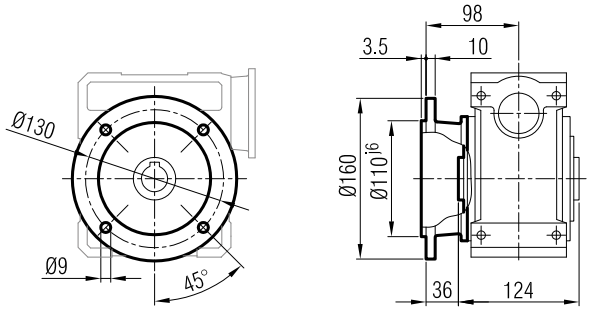


- SD

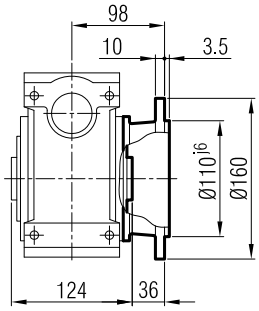


İRSFM / İRSFP / İRSF

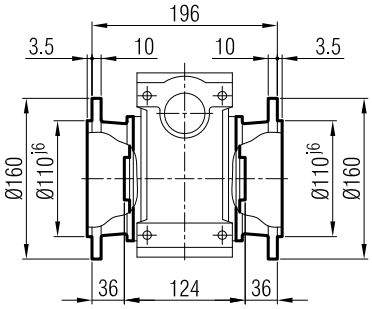
- FR



- FL

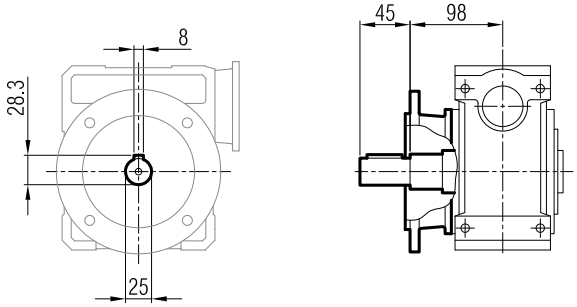


- FD

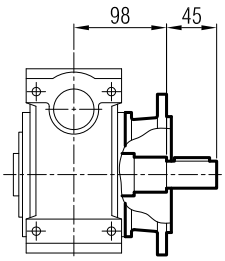


İRSFM / İRSFP / İRSF

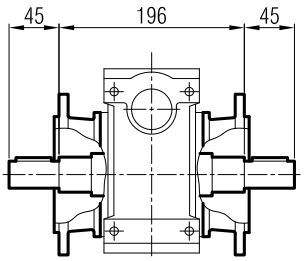
- FR - SR



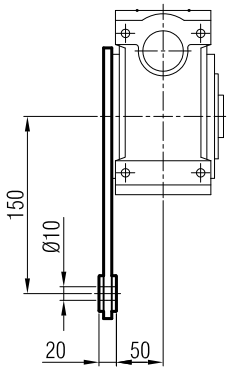
- FL - SL



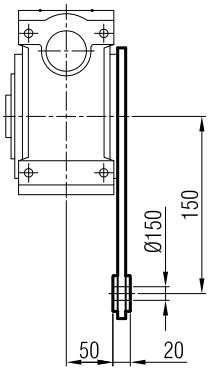
- FD - SD

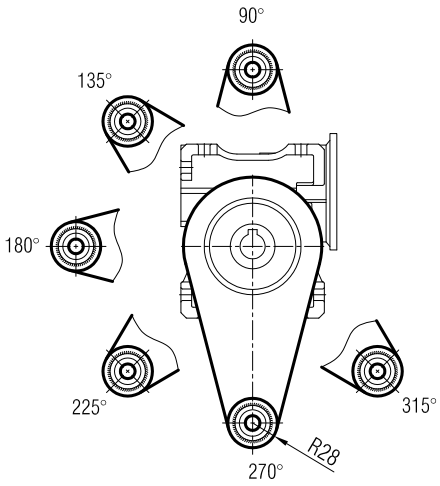


- TR

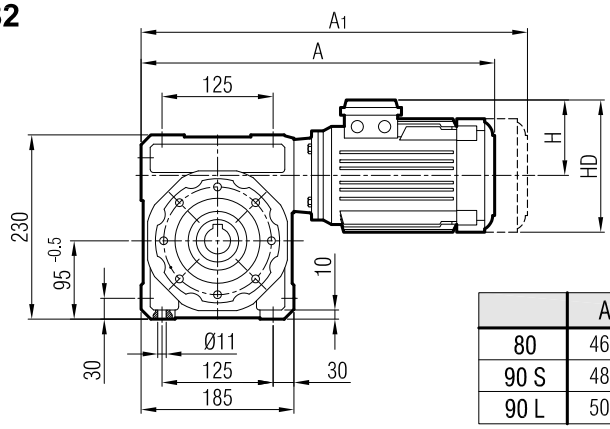


- TL

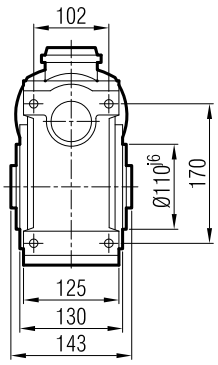


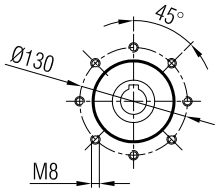


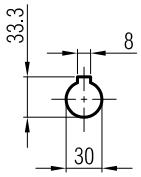
İRSAM 82

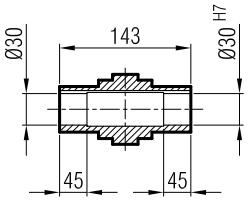


	A	A1	H	HD
80	466	549	118	198
90 S	480	565	132	222
90 L	505	590	132	222

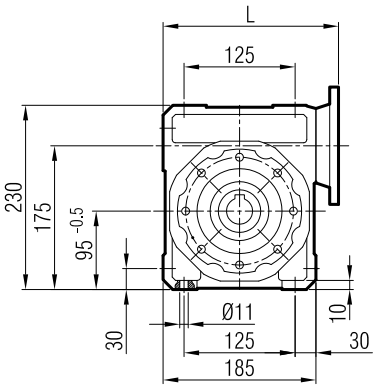


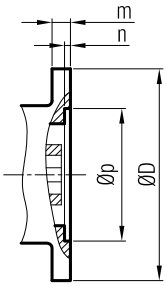


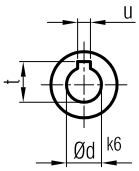


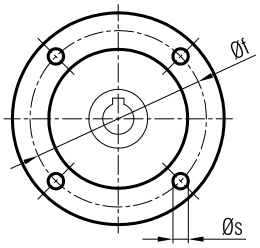


İRSAP 82



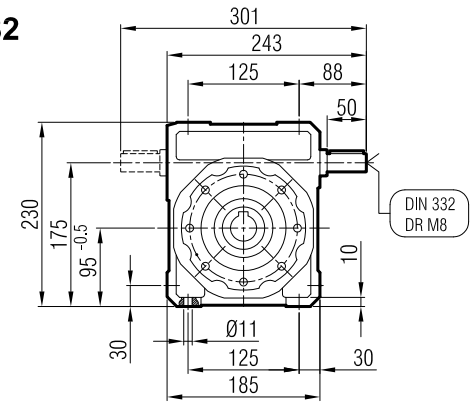


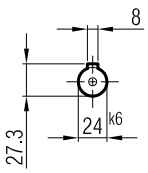


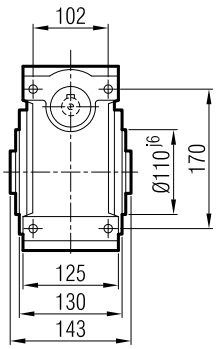


IEC B14	L	m	n	p	f	D	d	t	u	s
80	222	9	5	80	100	120	19	21.8	6	9
90	222	10	5	95	115	140	24	27.3	8	9

İRSA 82



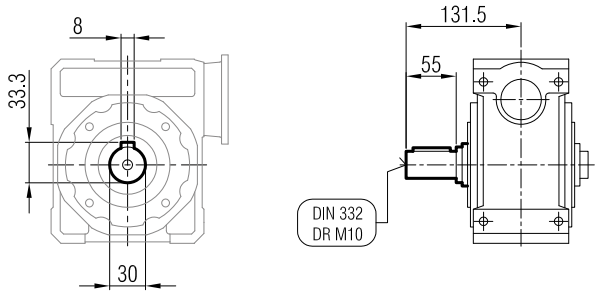




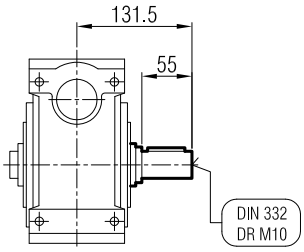
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

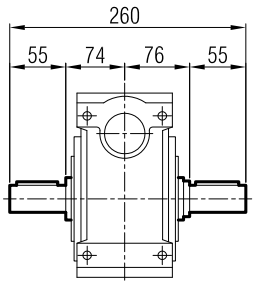
- SR



- SL

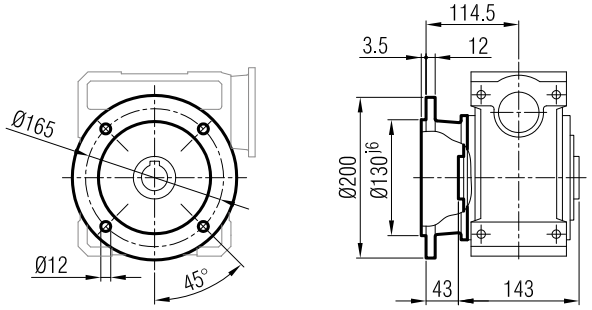


- SD

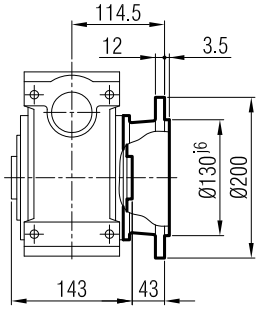


İRSFM / İRSFP / İRSF

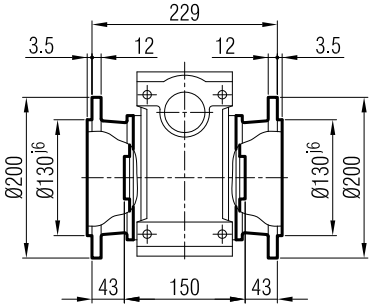
- FR



- FL

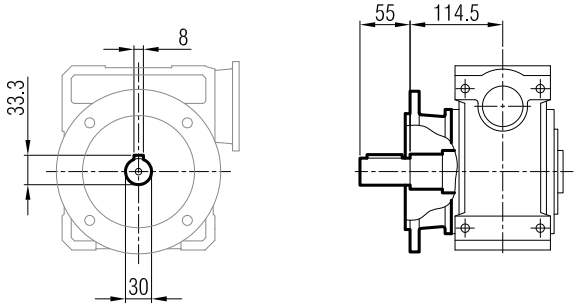


- FD

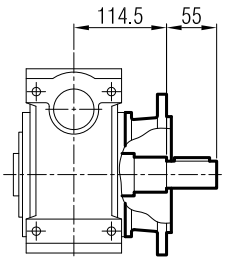


İRSFM / İRSFP / İRSF

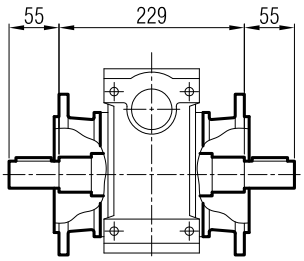
- FR - SR



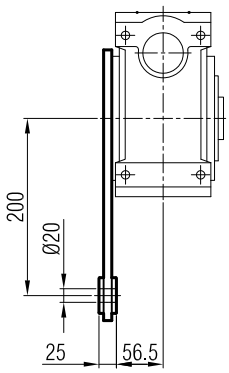
- FL - SL



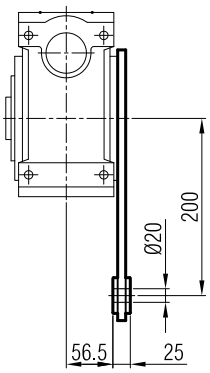
- FD - SD

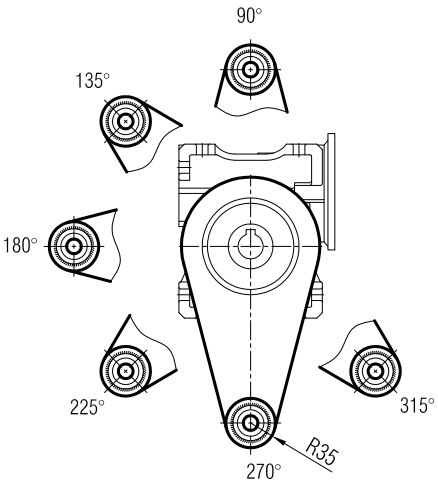


- TR

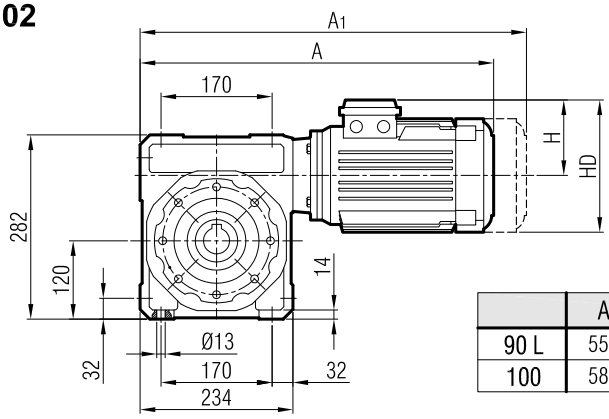


- TL

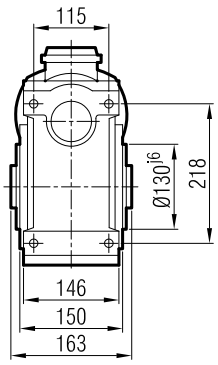


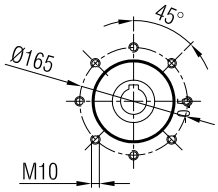


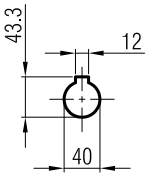
İRSAM 102

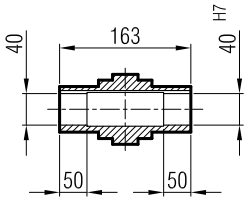


	A	A1	H	HD
90 L	554	639	132	222
100	586	688	141	241

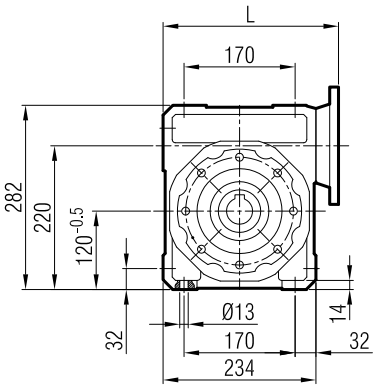


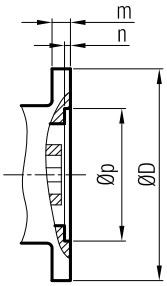


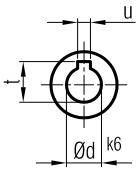


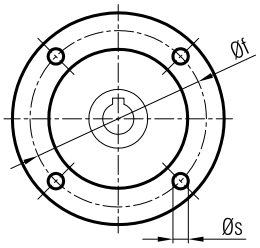


İRSAP 102



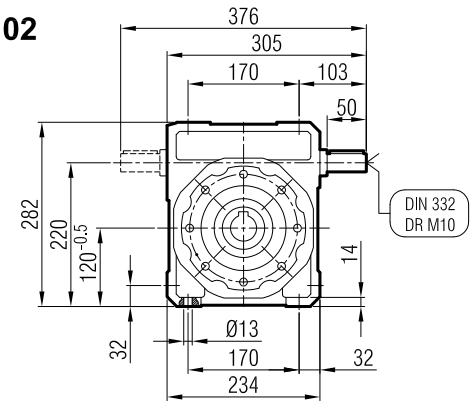


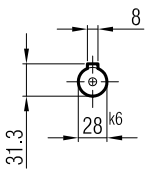


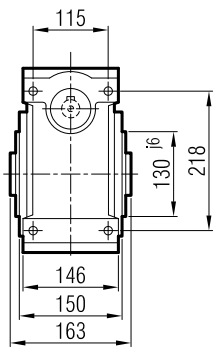


IEC B14	L	m	n	p	f	D	d	t	u	s
90	271	10	5	95	115	140	24	27.3	8	9
100	271	10	5	110	130	160	28	31.3	8	9

İRSA 102



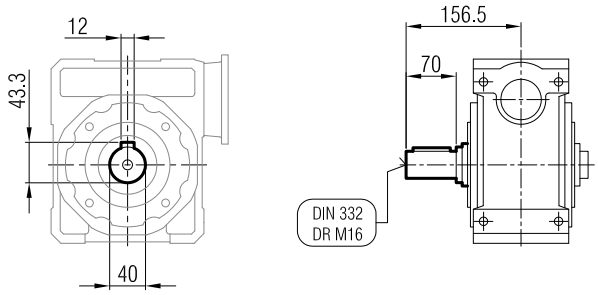




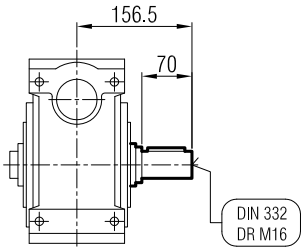
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

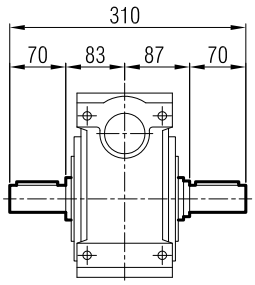
- SR



- SL

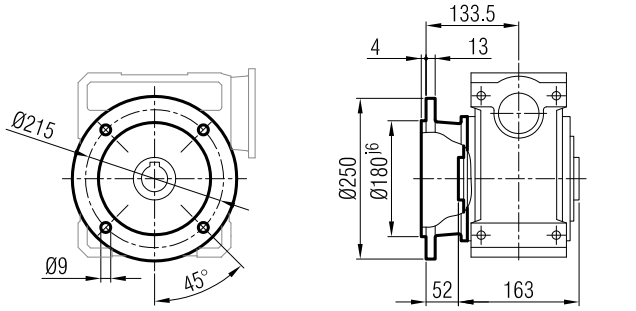


- SD

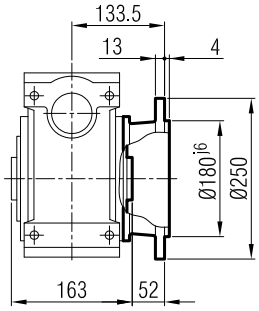


İRSFM / İRSFP / İRSF

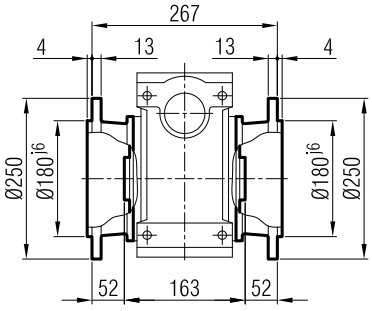
- FR



- FL

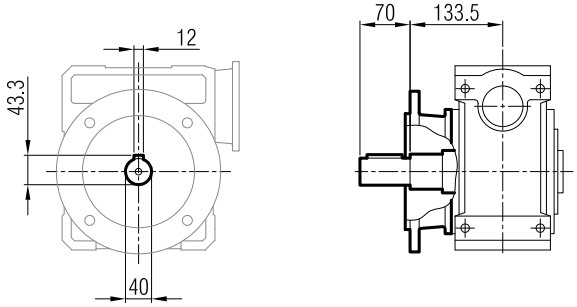


- FD

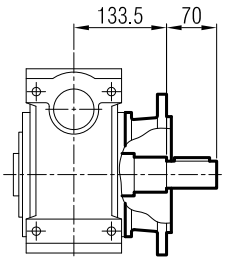


İRSFM / İRSFP / İRSF

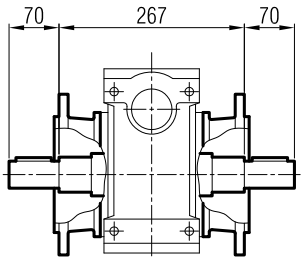
- FR - SR



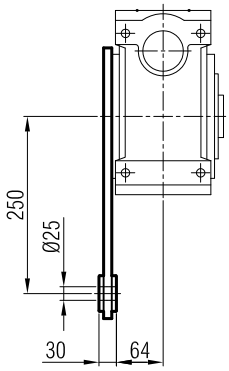
- FL - SL



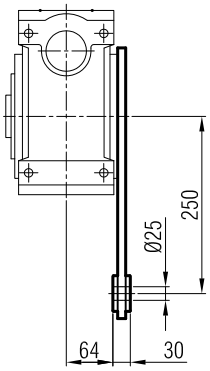
- FD - SD

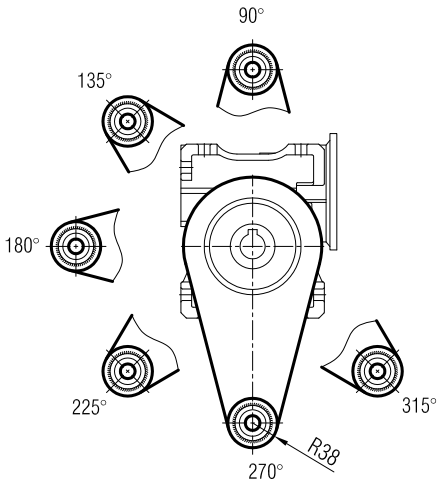


- TR

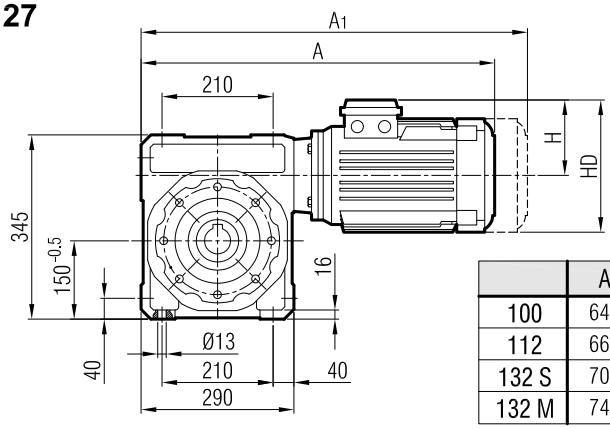


- TL

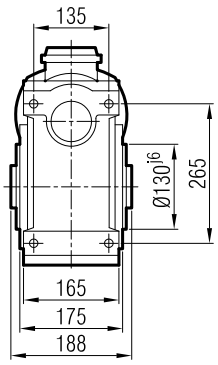


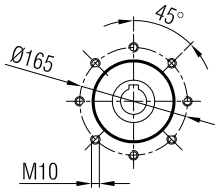


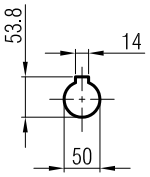
İRSAM 127

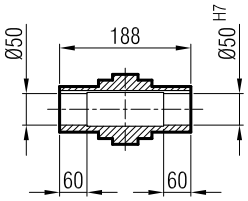


	A	A1	H	HD
100	643	745	141	241
112	664	789	149	261
132 S	702	844	182	314
132 M	748	890	182	314

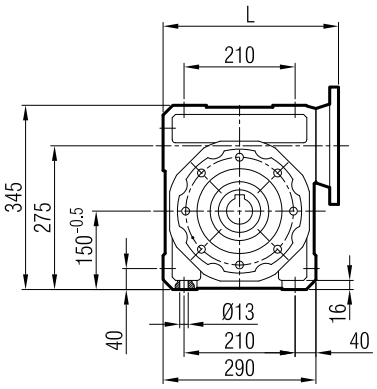


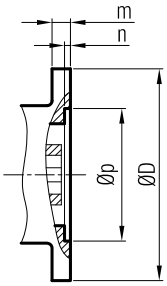


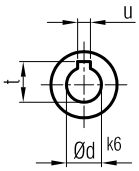


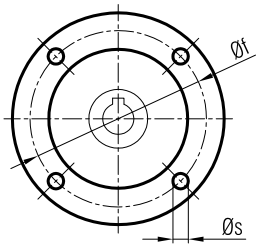


İRSAP 127



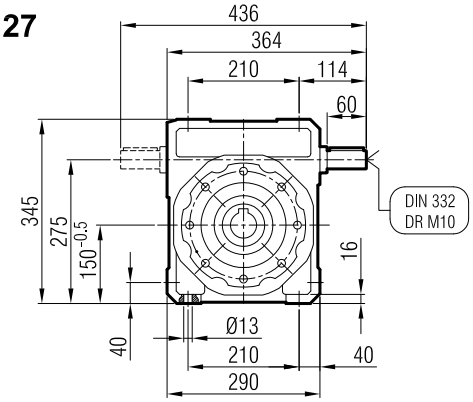


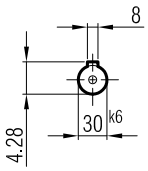


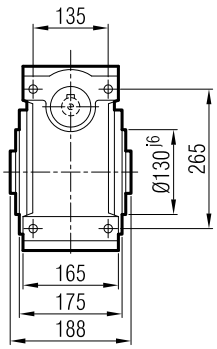


IEC B14	L	m	n	p	f	D	d	t	u	s
90	328	11	5	110	130	160	28	31.3	8	9
100	328	11	5	110	130	160	28	31.3	8	9
112	327	11	5	130	165	200	38	41.3	10	11

İRSA 127



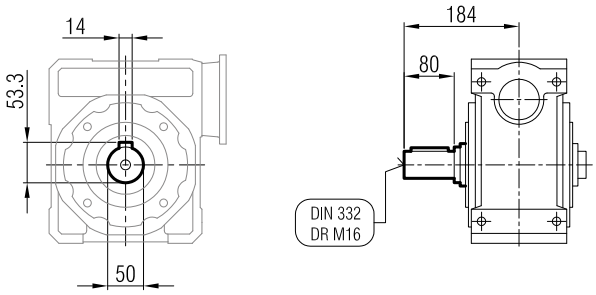




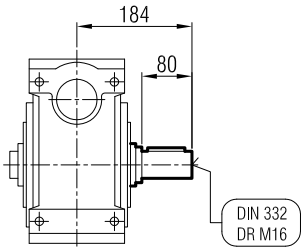
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

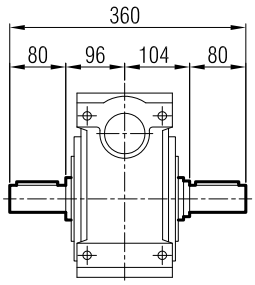
- SR



- SL

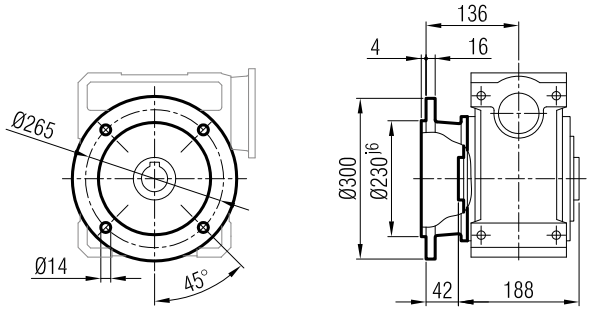


- SD

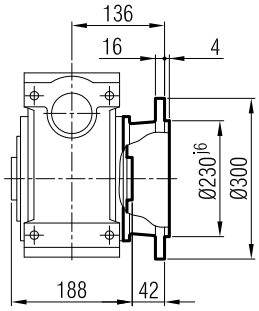


İRSFM / İRSFP / İRSF

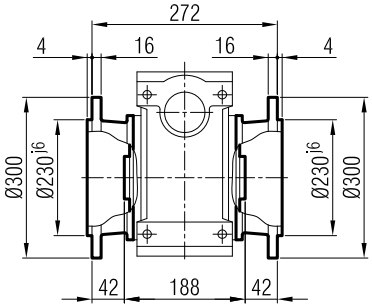
- FR



- FL

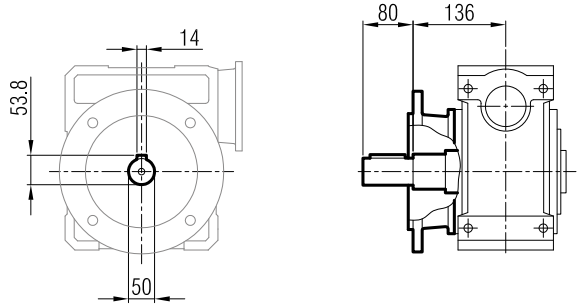


- FD

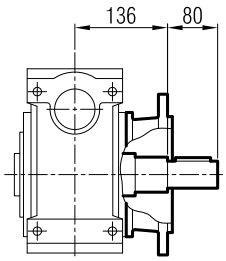


İRSFM / İRSFP / İRSF

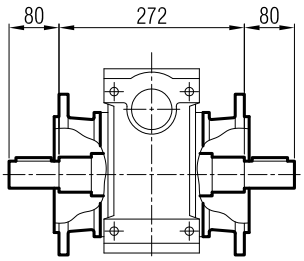
- FR - SR



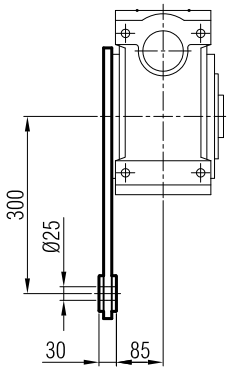
- FL - SL



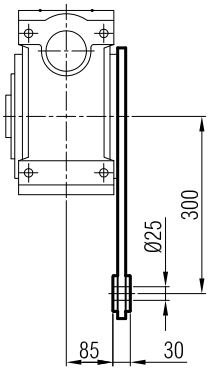
- FD - SD

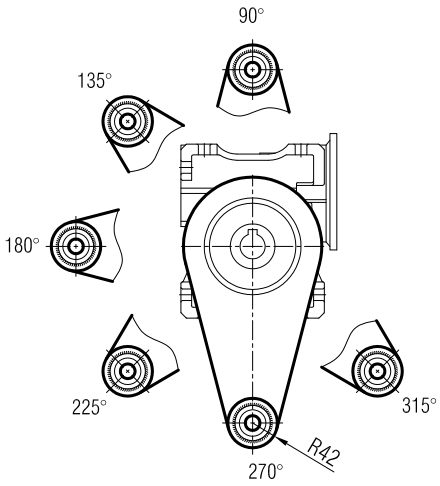


- TR

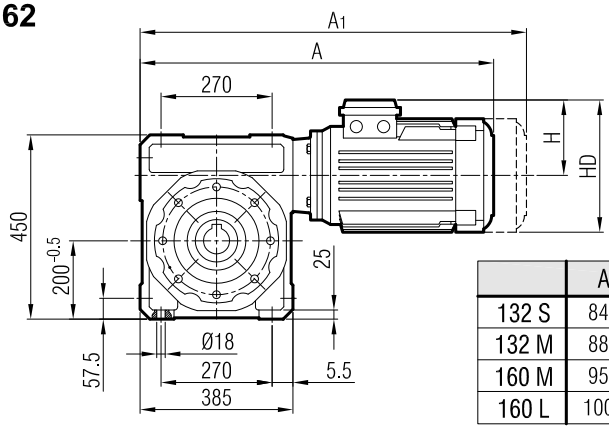


- TL

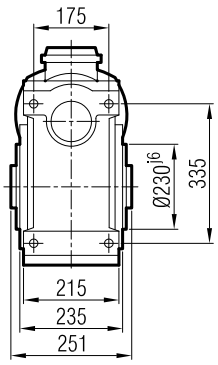


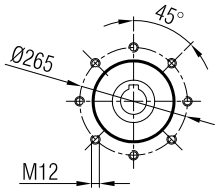


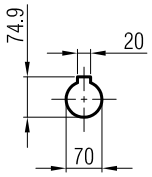
İRSAM 162

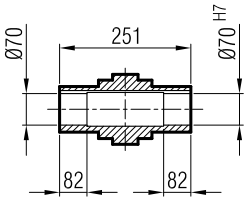


	A	A1	H	HD
132 S	840	981	182	314
132 M	885	1027	182	314
160 M	955	1145	225	385
160 L	1000	1190	225	385

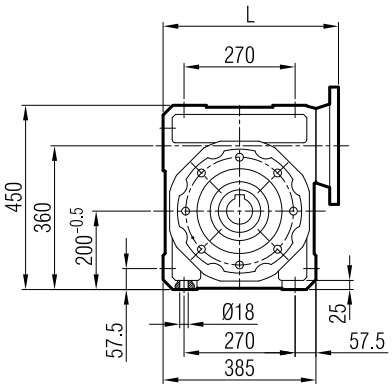


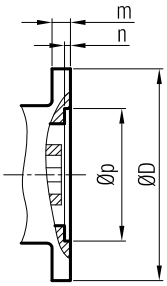


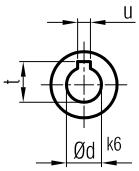


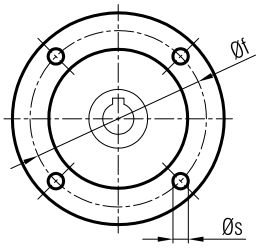


İRSAP 162



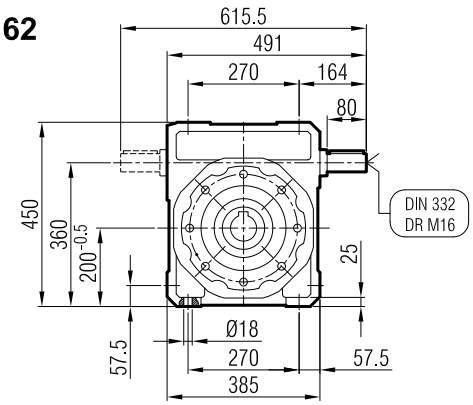


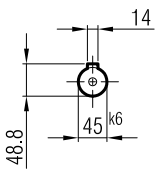


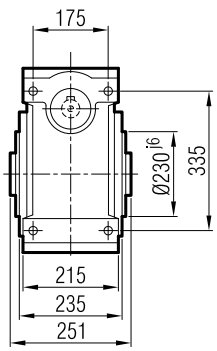


IEC B14	L	m	n	p	f	D	d	t	u	s
132	446	23	5	130	165	200	38	41.3	10	11
160	446	17	5	180	215	250	42	45.3	12	13

İRSA 162



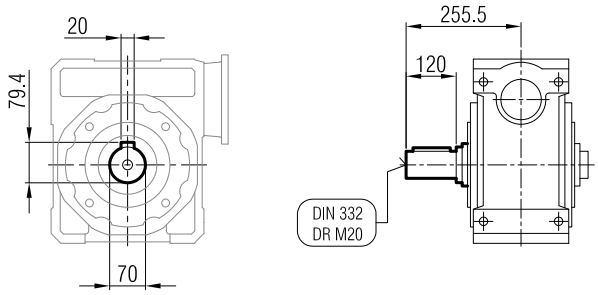




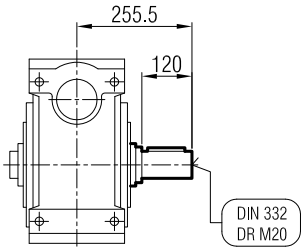
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRSAM / İRSAP / İRSA

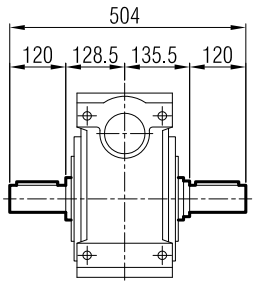
- SR



- SL

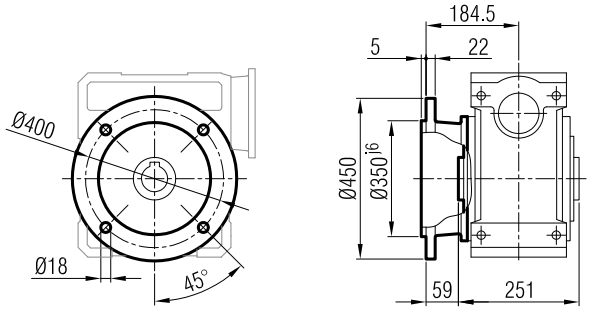


- SD

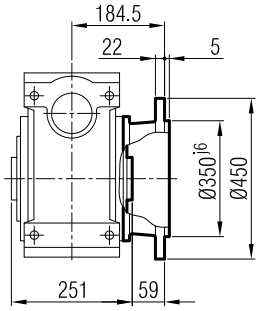


İRSFM / İRSFP / İRSF

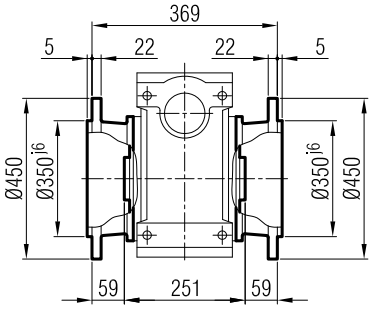
- FR



- FL

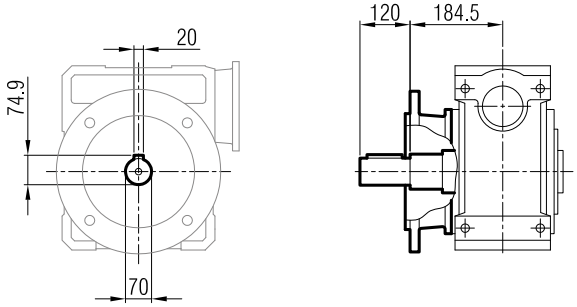


- FD

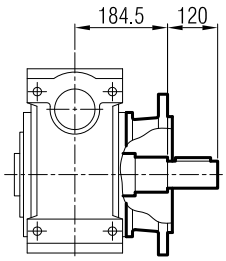


İRSFM / İRSFP / İRSF

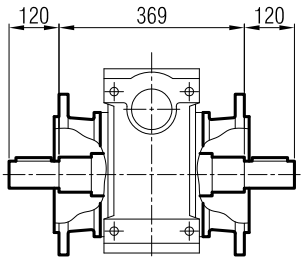
- FR - SR



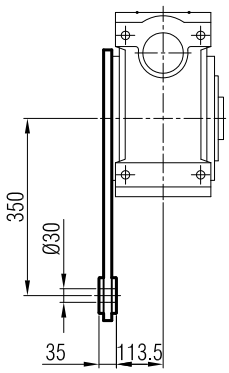
- FL - SL



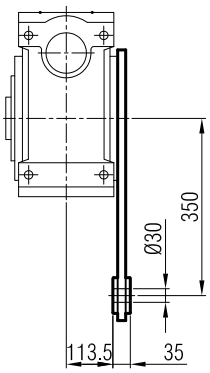
- FD - SD

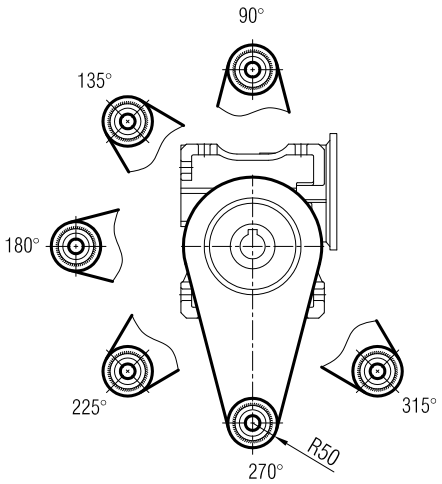


- TR

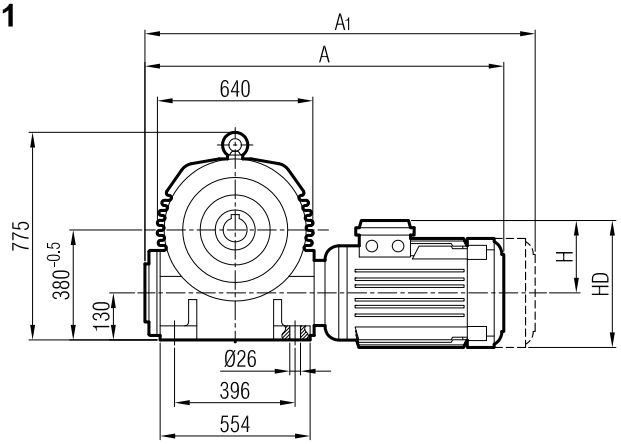


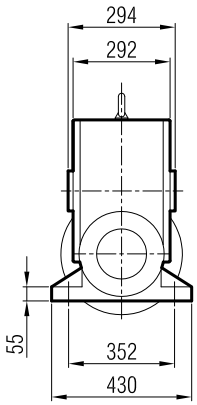
- TL

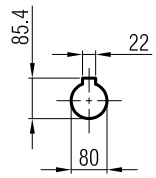




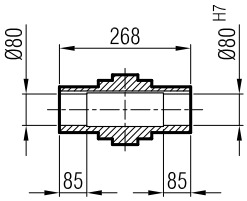
İRSAM 201



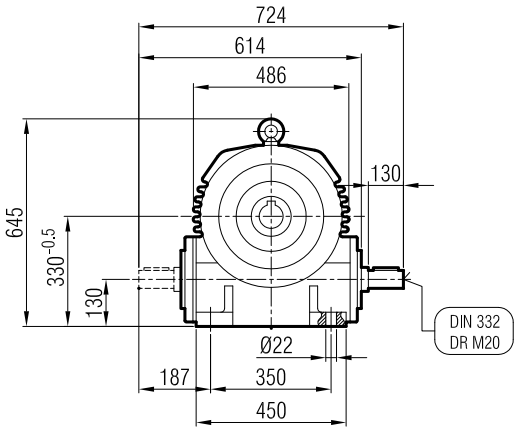


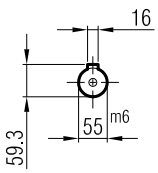


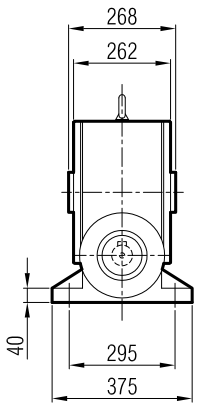
	A	A1	H	HD
132 S	888	1030	182	314
132 M	934	1076	182	314
160 M	1002	1192	225	385
160 L	1046	1236	225	385



İRSA 201

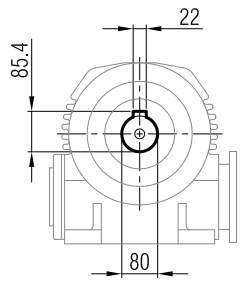




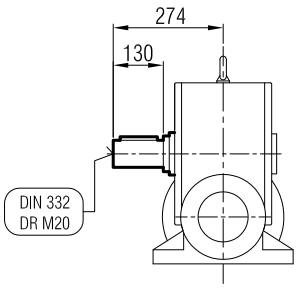


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

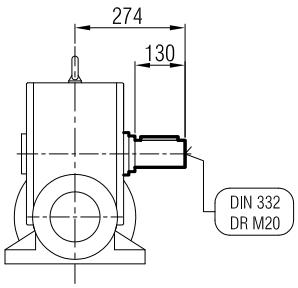
İRSAM / İRSA



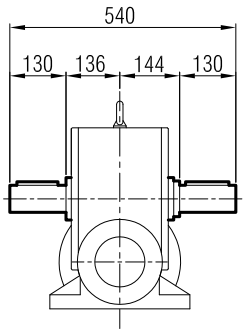
- SR



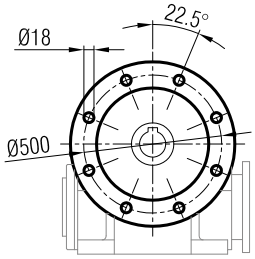
- SL



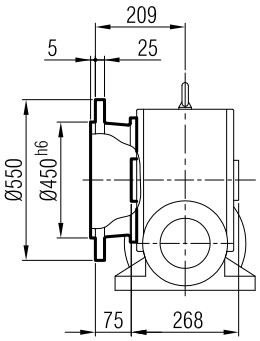
- SD



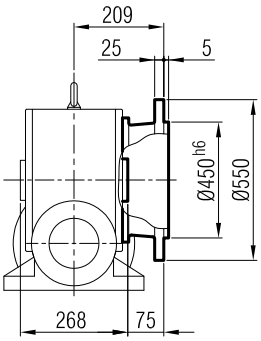
İRSFM / İRSF



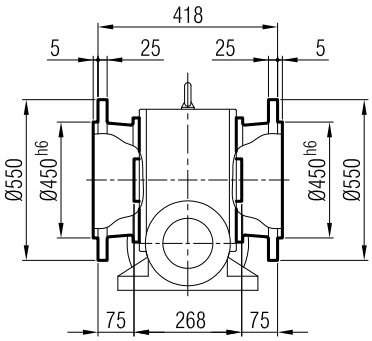
- FR



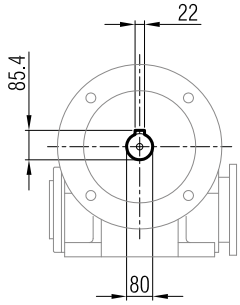
- FL



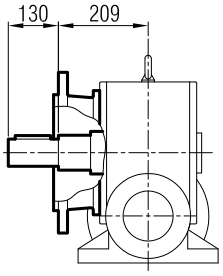
- FD



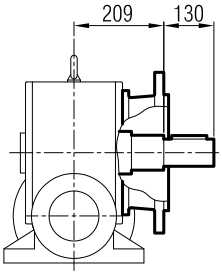
İRSFM / İRSF



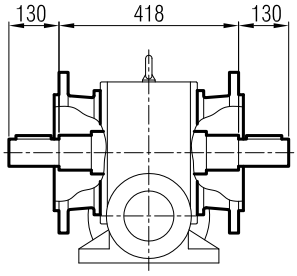
- FR - SR



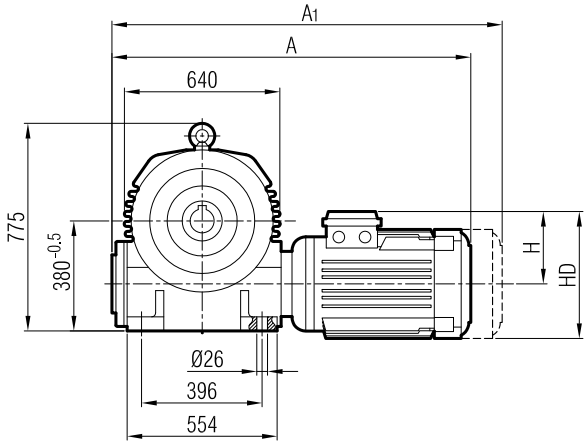
- FL - SL

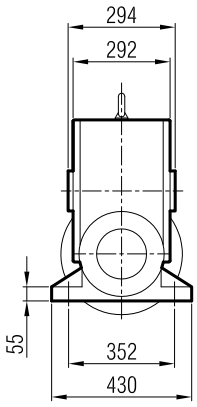


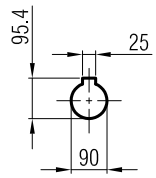
- FD - SD



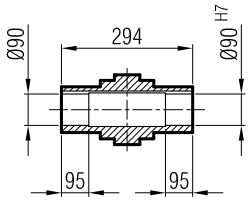
İRSAM 250



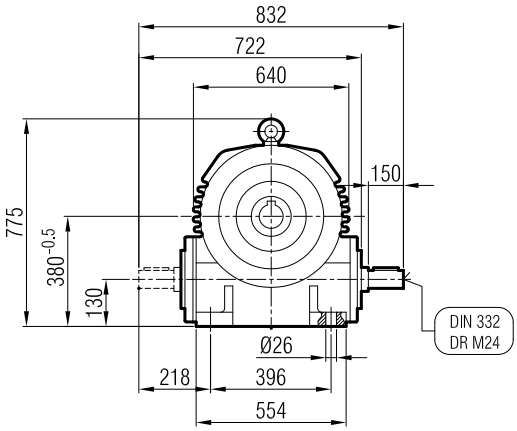


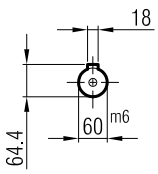


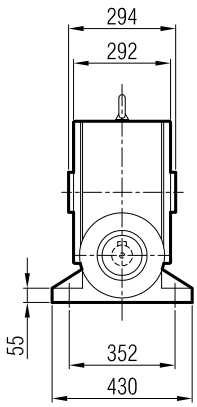
	A	A1	H	HD
160 L	1150	1340	225	385
180 M	1161	1356	248	428
180 L	1199	1394	248	428



İRSA 250

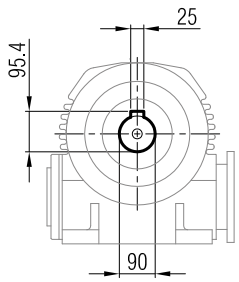




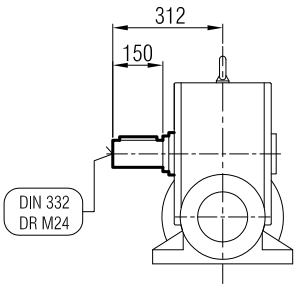


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

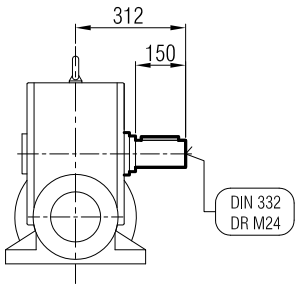
İRSAM / İRSA



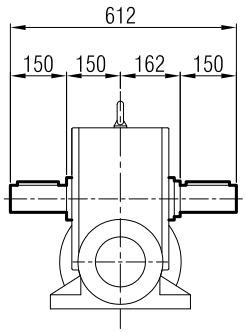
- SR



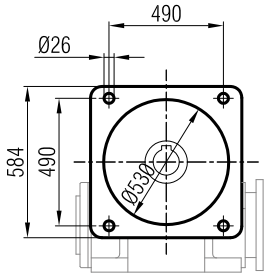
- SL



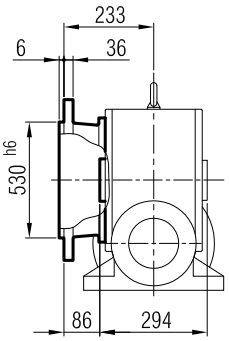
- SD



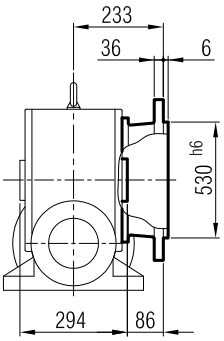
İRSFM / İRSF



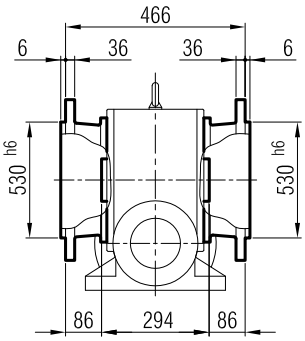
- FR



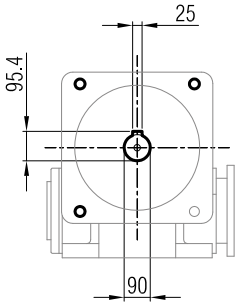
- FL



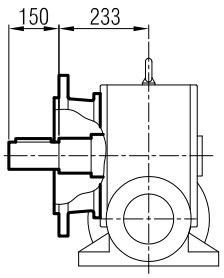
- FD



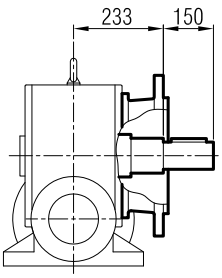
İRSFM / İRSF



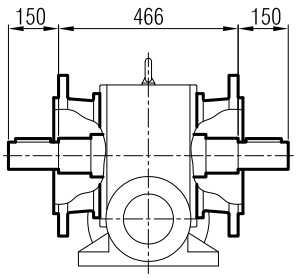
- FR - SR



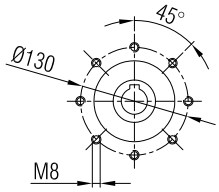
- FL - SL

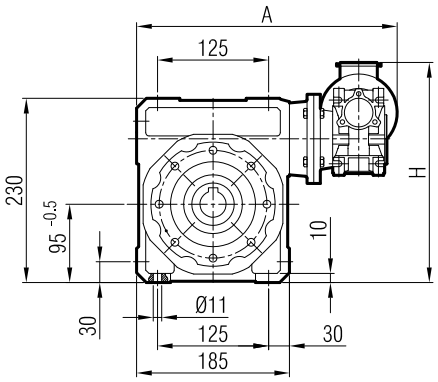


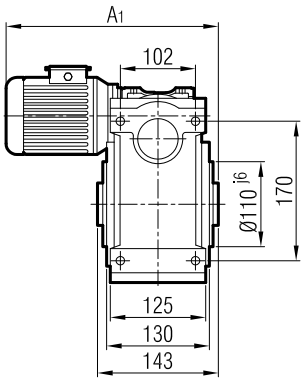
- FD - SD



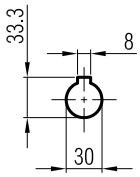
İRSAM 82 S 40

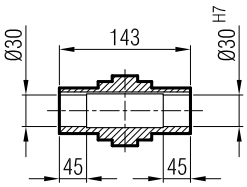




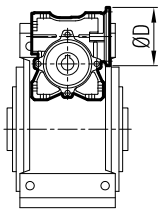


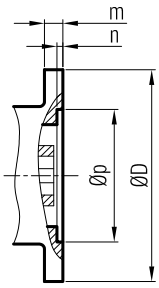
	A	A1	H
63	423	339	377
71	440	365	397

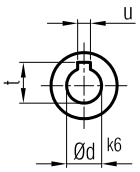


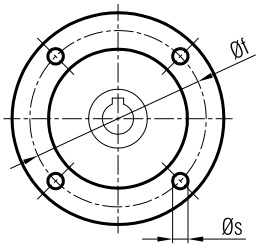


İRSAP 82 S 40



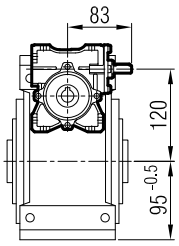


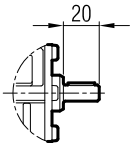


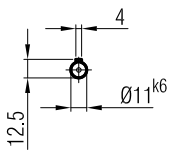


IEC B14	m	n	p	f	D	d	t	u	s
63	10	4.5	60	75	90	11	12.8	4	6
71	10	4.5	70	85	105	14	16.3	5	7

İRSA 82 S 40

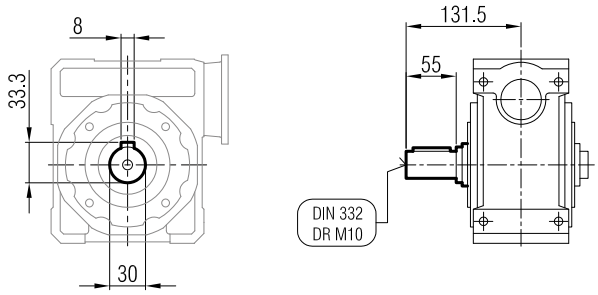




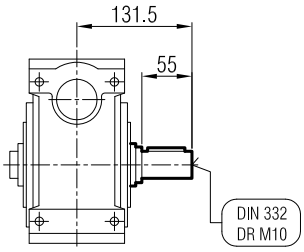


İRSAM / İRSAP / İRSA

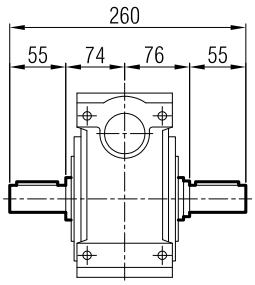
- SR



- SL

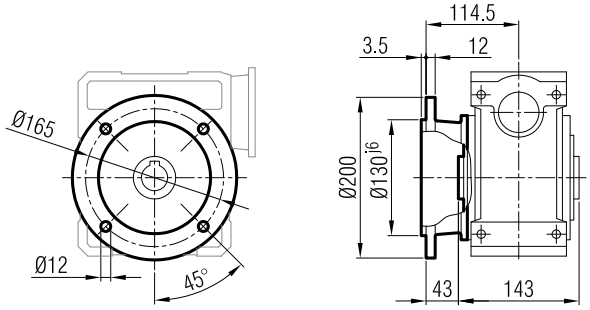


- SD

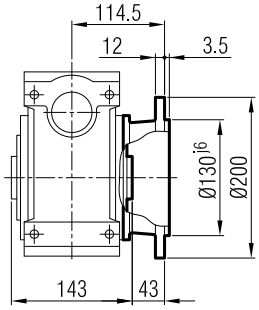


İRSFM / İRSFP / İRSF

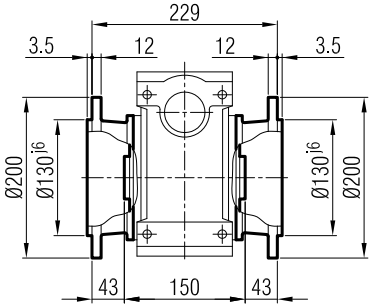
- FR



- FL

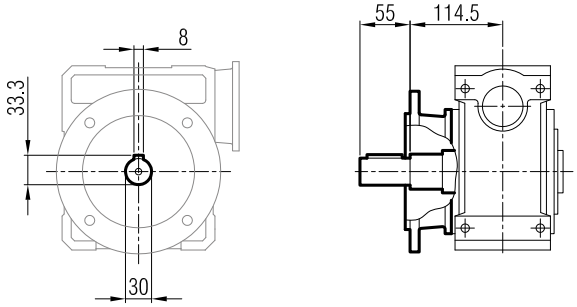


- FD

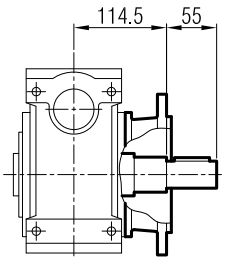


İRSFM / İRSFP / İRSF

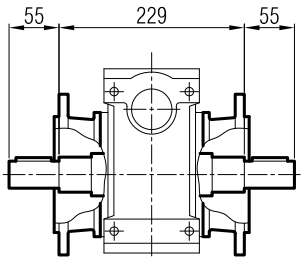
- FR - SR



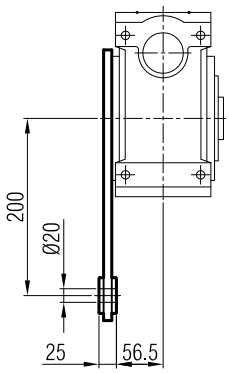
- FL - SL



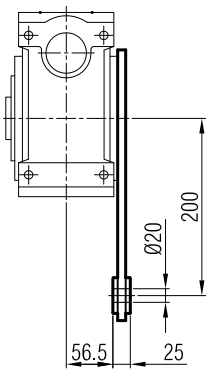
- FD - SD

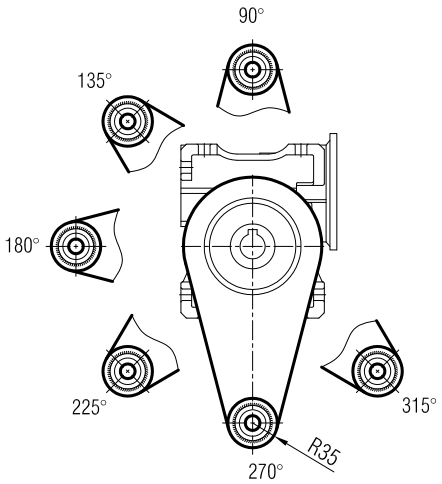


- TR

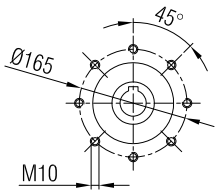


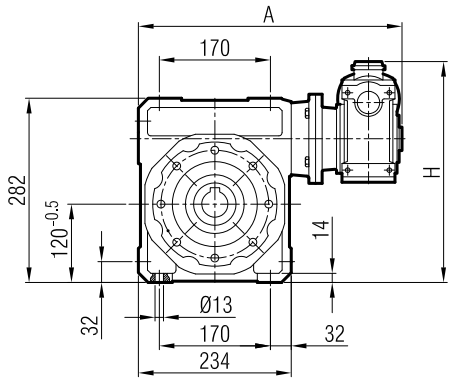
- TL

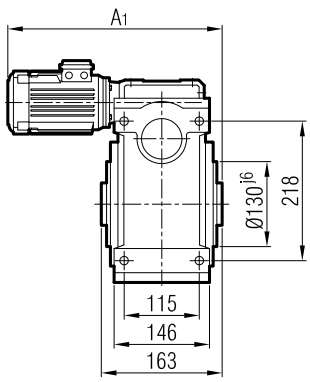




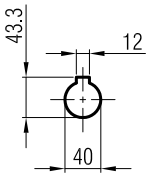
İRSAM 102 İRS 52

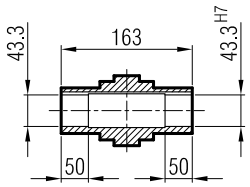




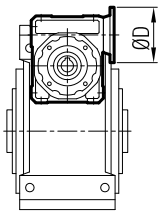


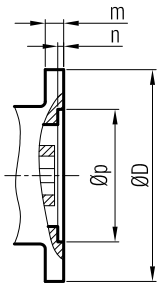
	A	A1	H
71	406	387	336
80	406	409	343

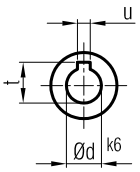


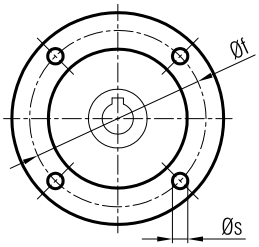


İRSAP 102 İRS 52



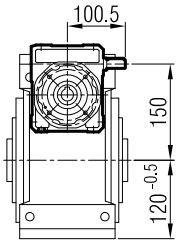


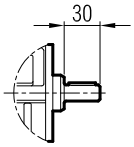


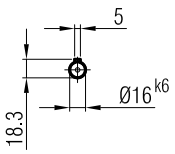


IEC B14	m	n	p	f	D	d	t	u	s
71	8	3.5	70	85	105	14	16.3	5	7
80	8	4	80	100	120	19	21.8	6	7

İRSA 102 İRS 52

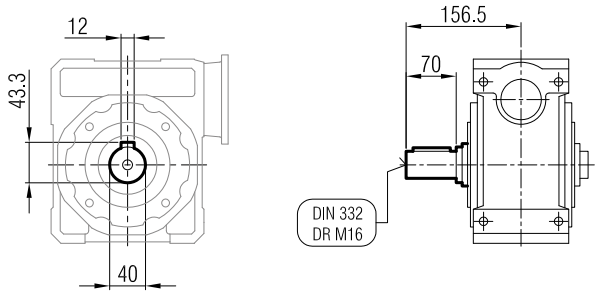




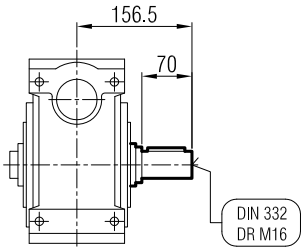


İRSAM / İRSAP / İRSA

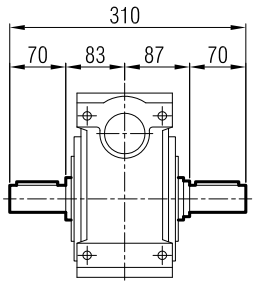
- SR



- SL

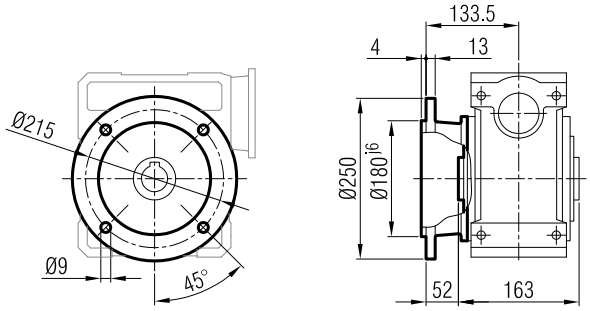


- SD

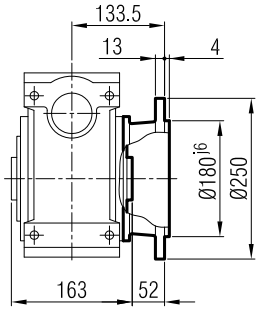


İRSFM / İRSFP / İRSF

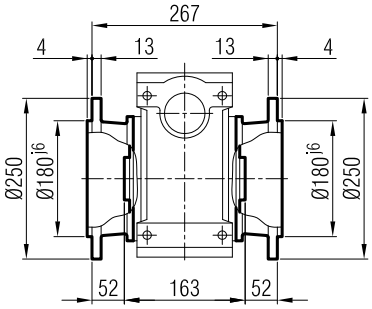
- FR



- FL

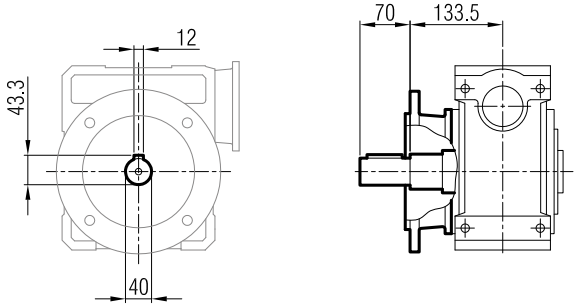


- FD

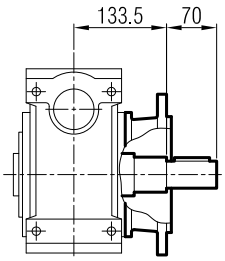


İRSFM / İRSFP / İRSF

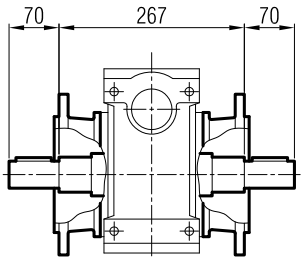
- FR - SR



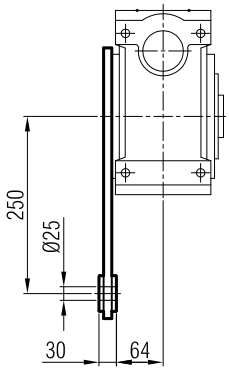
- FL - SL



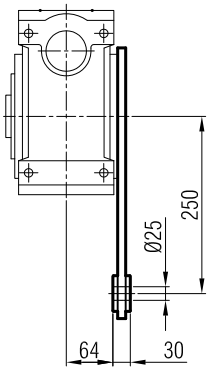
- FD - SD

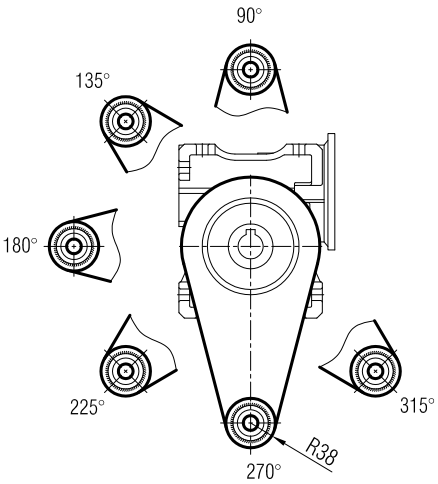


- TR

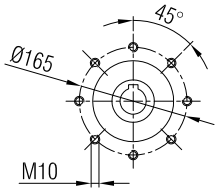


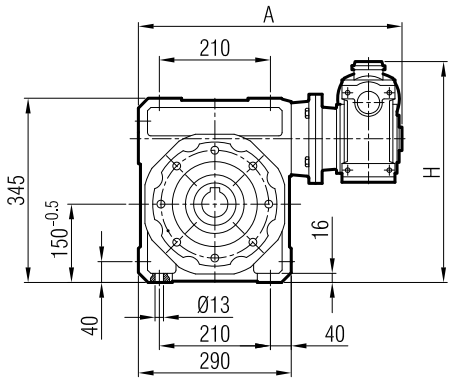
- TL

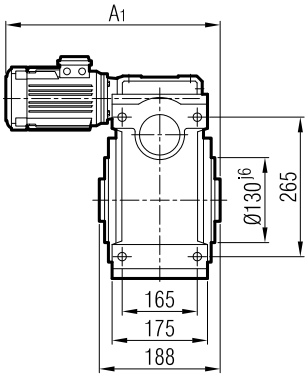




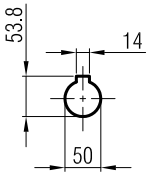
İRSAM 127 İRS 65

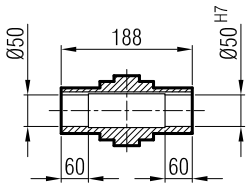




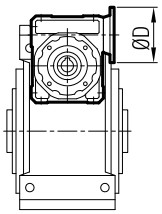


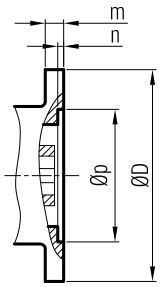
	A	A1	H
90 S	488	457	470
90 L	488	482	470

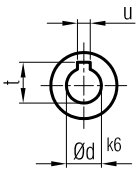


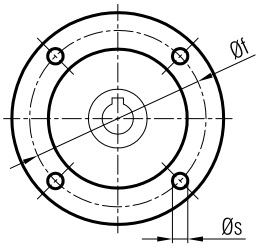


İRSAP 127 İRS 65



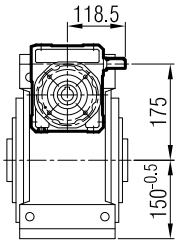


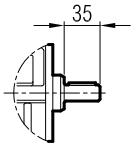


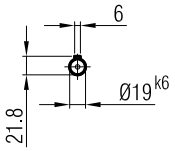


IEC B14	m	n	p	f	D	d	t	u	s
90	10	5	95	115	140	24	27.3	8	9

İRSA 127 İRS 65

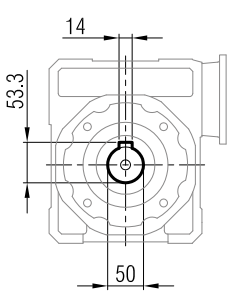


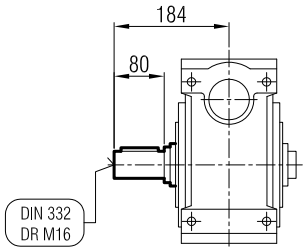




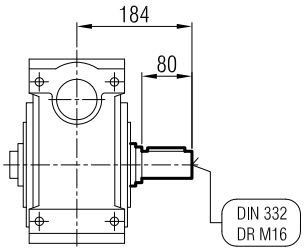
İRSAM / İRSAP / İRSA

- SR

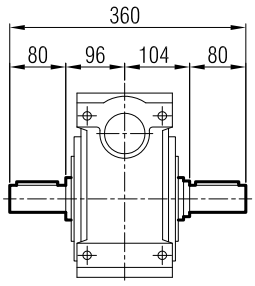




- SL

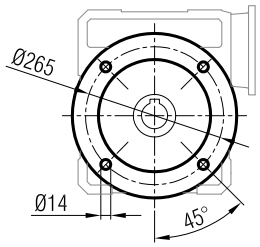


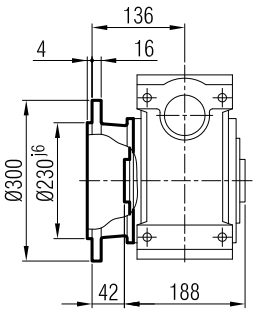
- SD



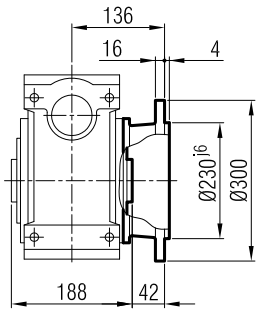
İRSFM / İRSFP / İRSF

- FR

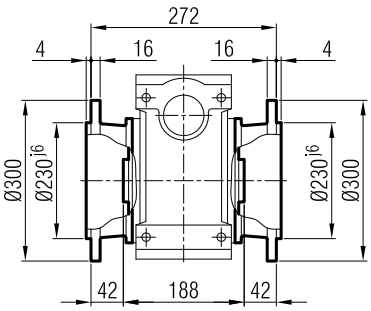




- FL

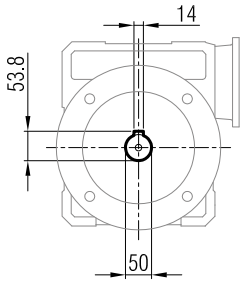


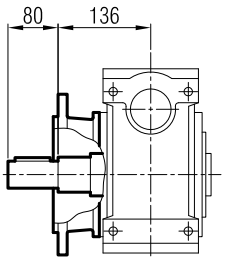
- FD



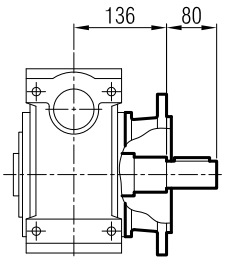
İRSFM / İRSFP / İRSF

- FR - SR

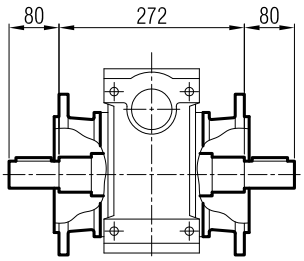




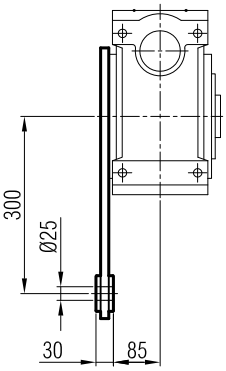
- FL - SL



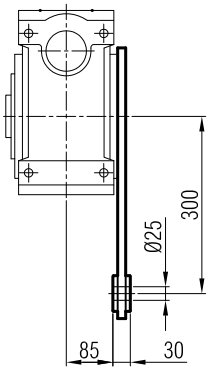
- FD - SD

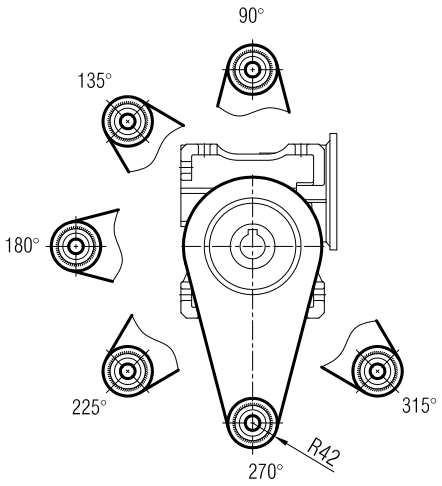


- TR

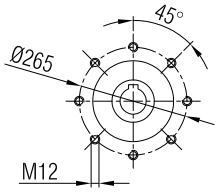


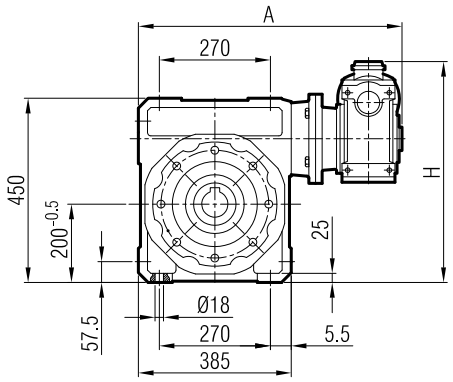
- TL

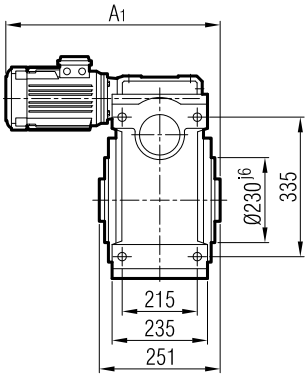




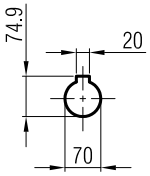
İRSAM 162 İRS 82

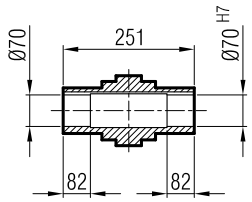




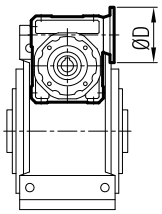


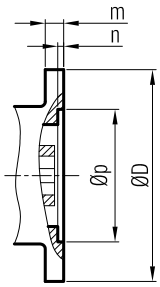
	A	A1	H
80	632	374	653

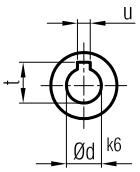


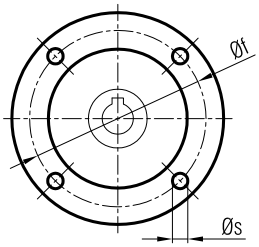


İRSAP 162 İRS 82



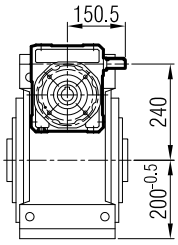


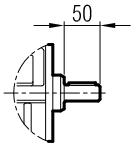


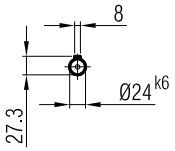


IEC B14	m	n	p	f	D	d	t	u	s
90	10	5	95	115	140	24	27.3	8	9

İRSA 162 İRS 82

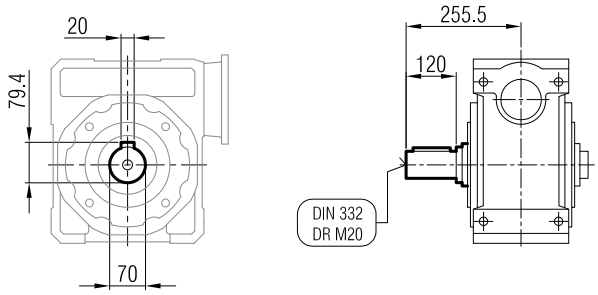




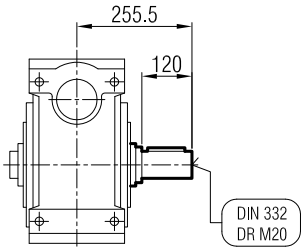


İRSAM / İRSAP / İRSA

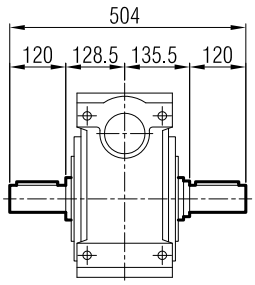
- SR



- SL

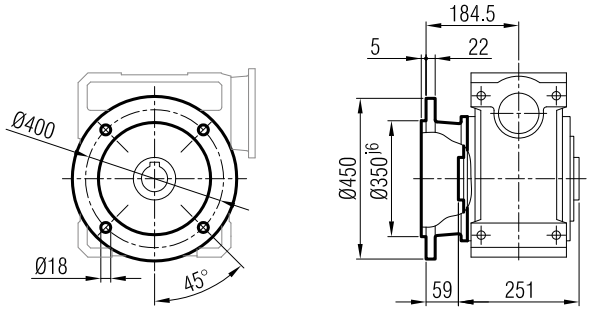


- SD

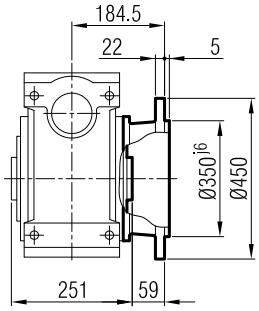


İRSFM / İRSFP / İRSF

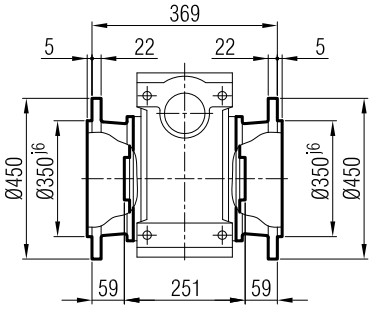
- FR



- FL

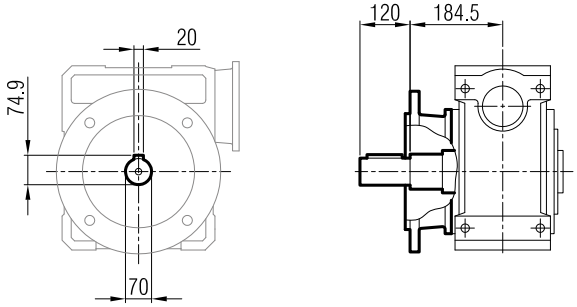


- FD

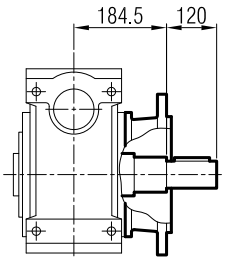


İRSFM / İRSFP / İRSF

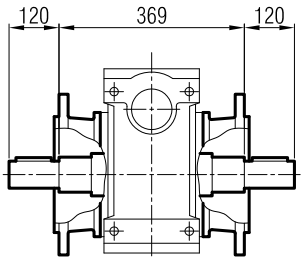
- FR - SR



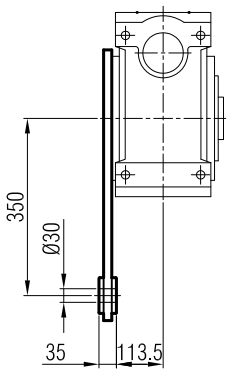
- FL - SL



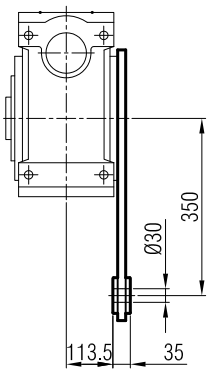
- FD - SD

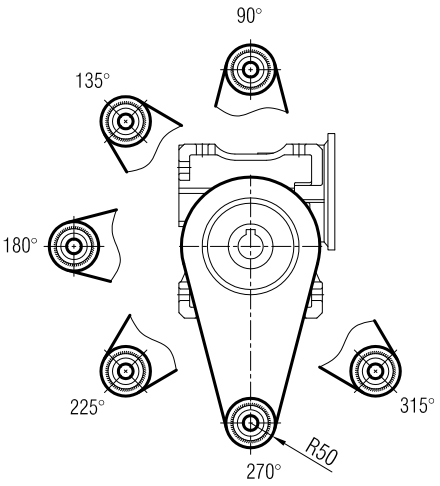


- TR

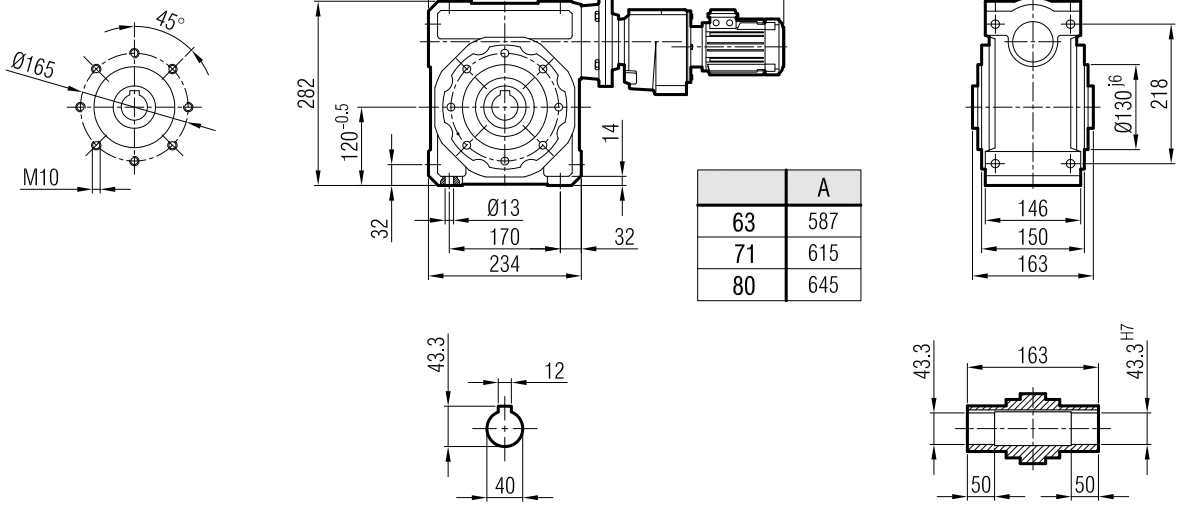


- TL



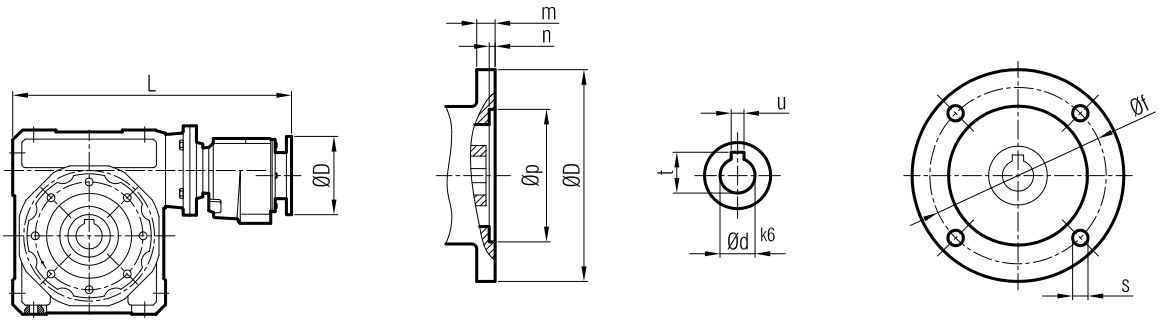


İRSAM 102 İR 43
İRSAM 102 İR 42



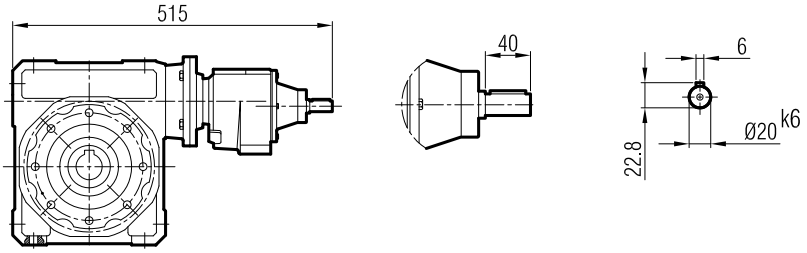
	A
63	587
71	615
80	645

İRSAP 102 İR 43
İRSAP 102 İR 42



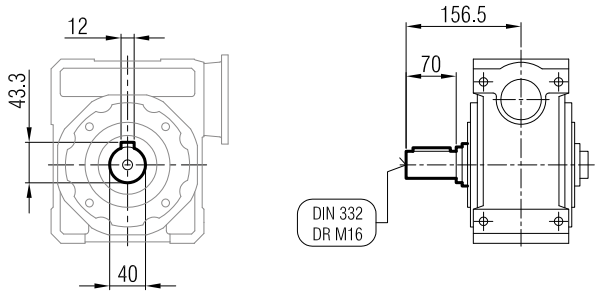
IEC B5	L	m	n	p	f	D	d	t	u	s
63	432	8	4	95	115	140	11	12.8	4	M8
71	440	9	4	110	130	160	14	16.3	5	M8
80	442	12	5	130	165	200	19	21.8	6	M10

IRSA 102 IR 43
IRSA 102 IR 42

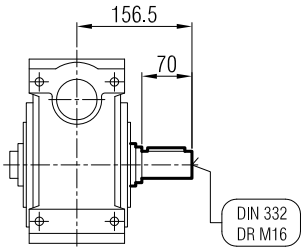


İRSAM / İRSAP / İRSA

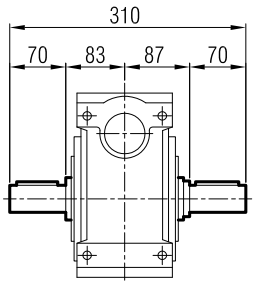
- SR



- SL

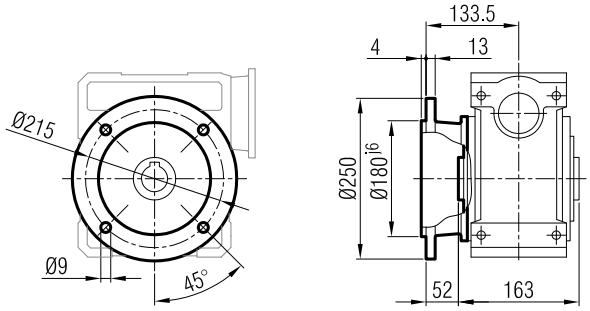


- SD

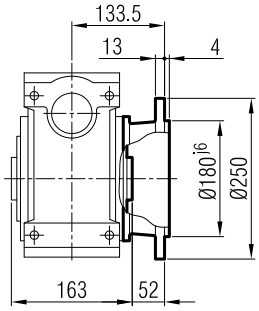


İRSFM / İRSFP / İRSF

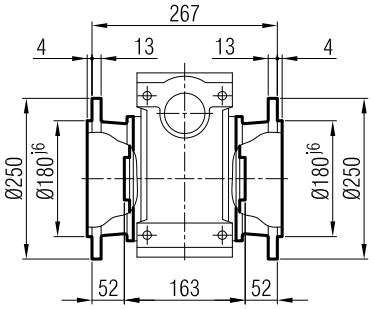
- FR



- FL

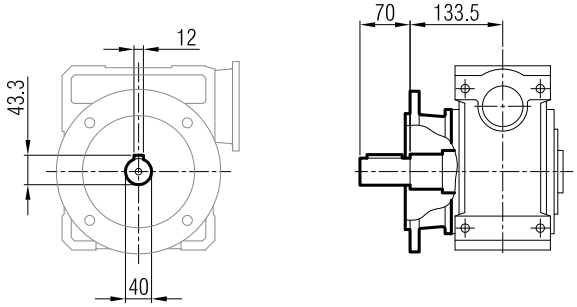


- FD

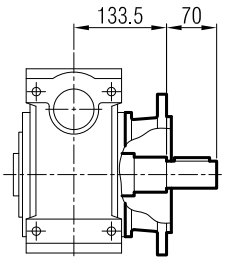


İRSFM / İRSFP / İRSF

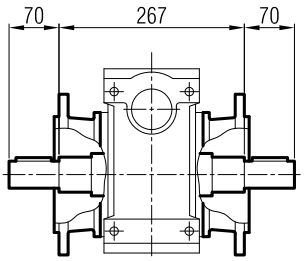
- FR - SR



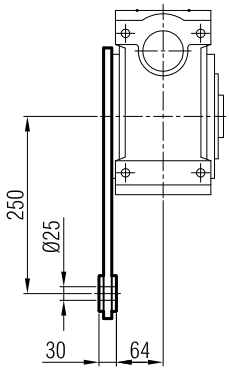
- FL - SL



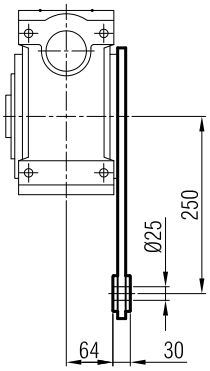
- FD - SD

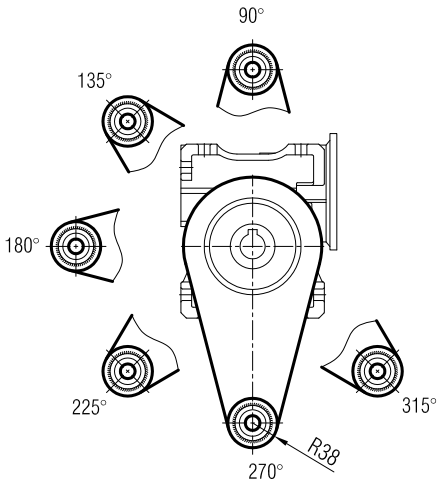


- TR

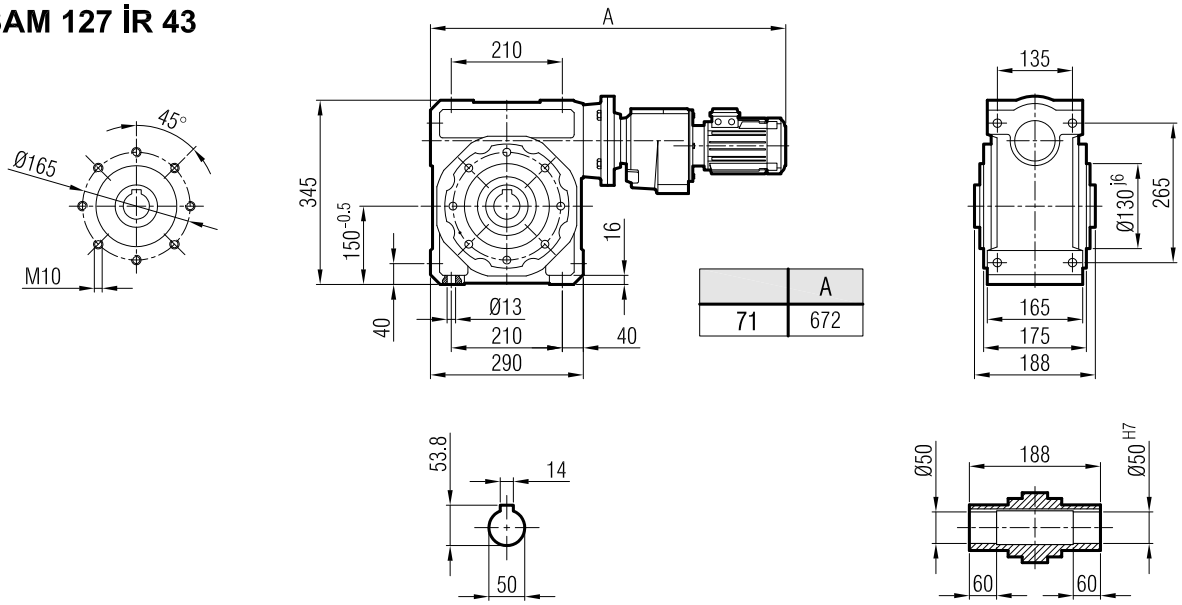


- TL



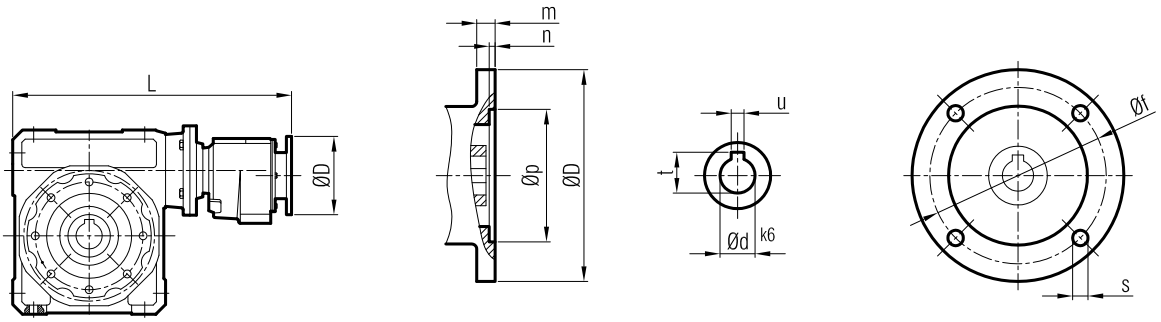


İRSAM 127 İR 43



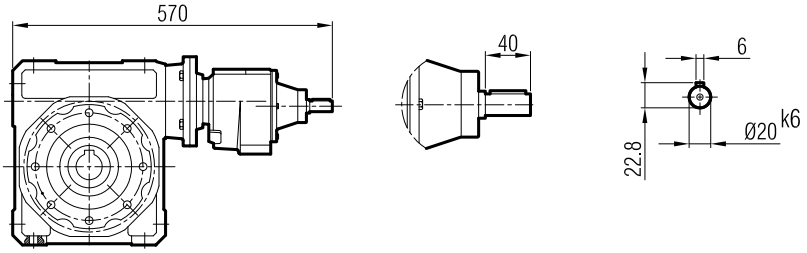
	A
71	672

İRSAP 127 İR 43



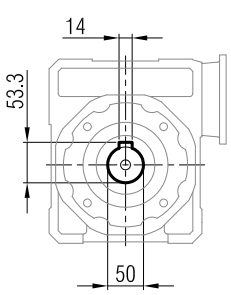
IEC B5	L	m	n	p	f	D	d	t	u	s
71	497	9	4	110	130	160	14	16.3	5	M8

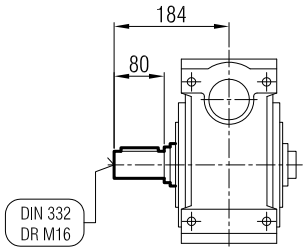
IRSA 127 IR 43



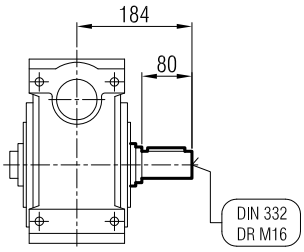
İRSAM / İRSAP / İRSA

- SR

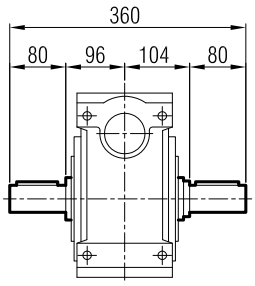




- SL

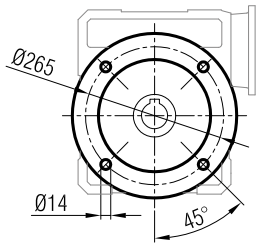


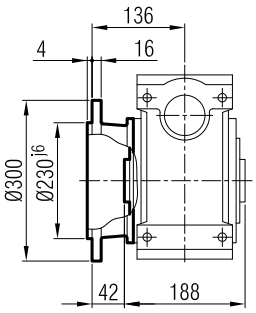
- SD



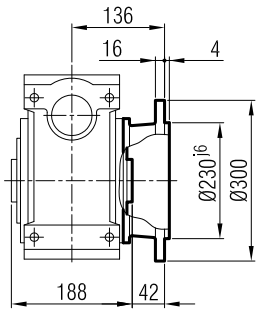
İRSFM / İRSFP / İRSF

- FR

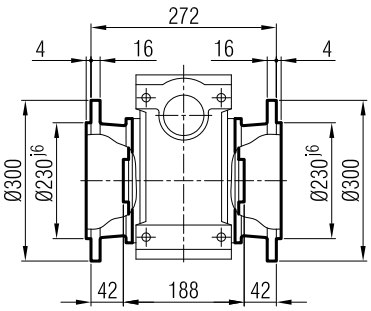




- FL

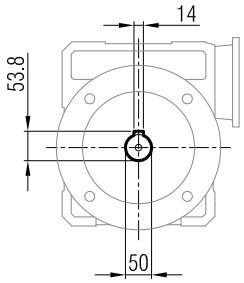


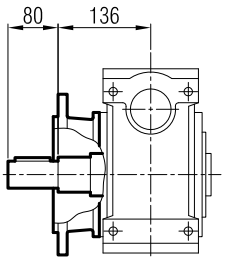
- FD



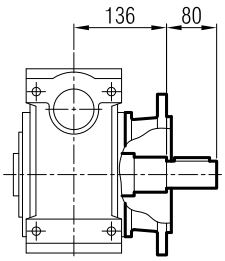
İRSFM / İRSFP / İRSF

- FR - SR

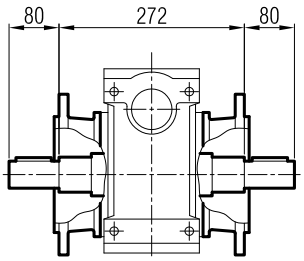




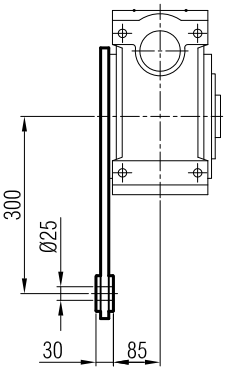
- FL - SL



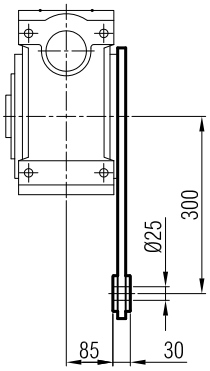
- FD - SD

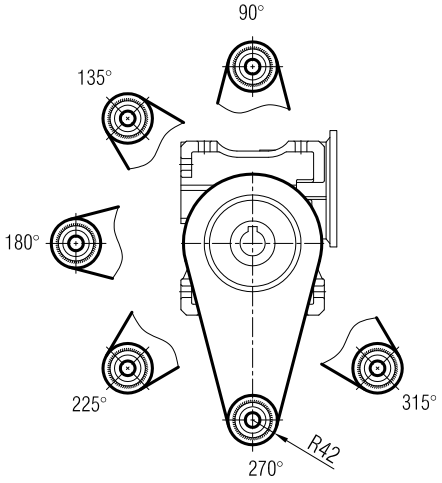


- TR

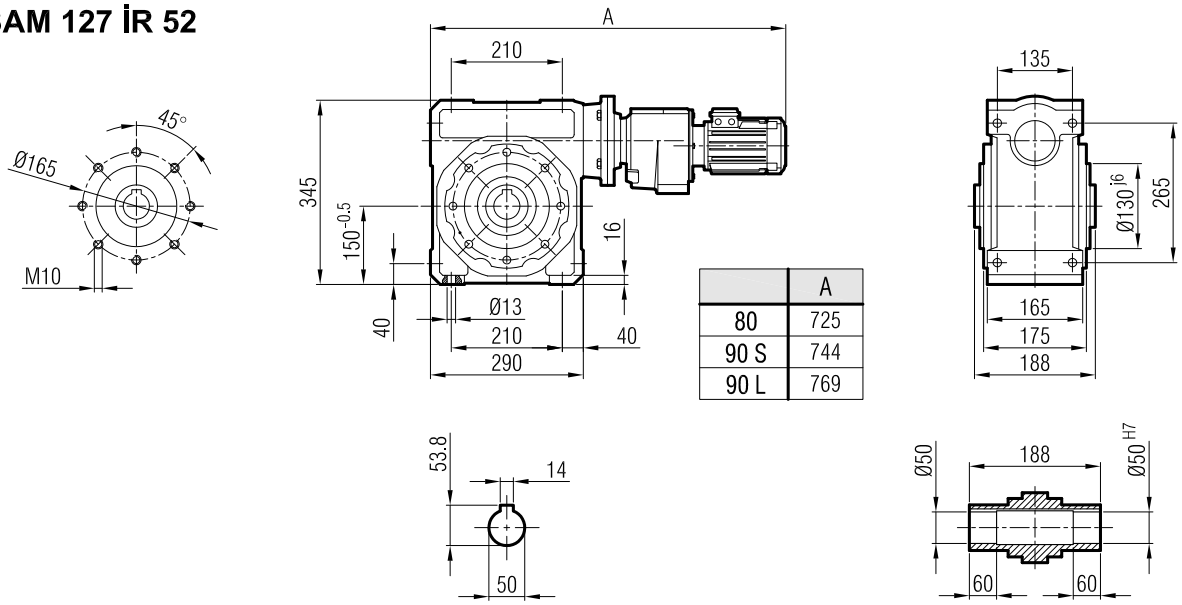


- TL



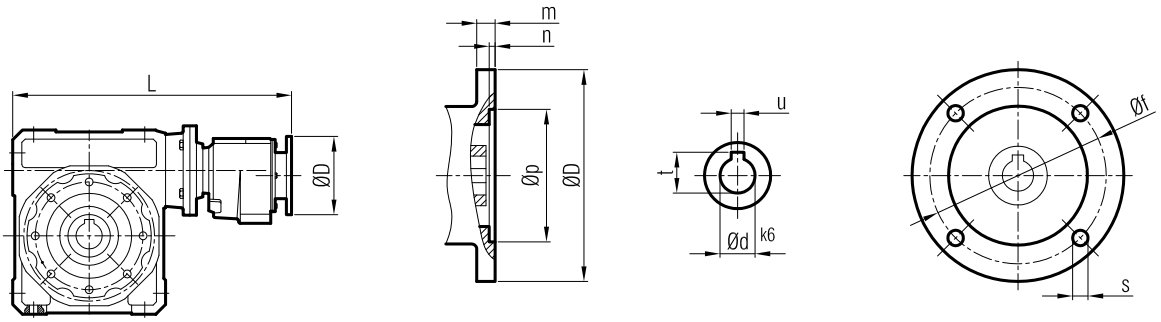


İRSAM 127 İR 52



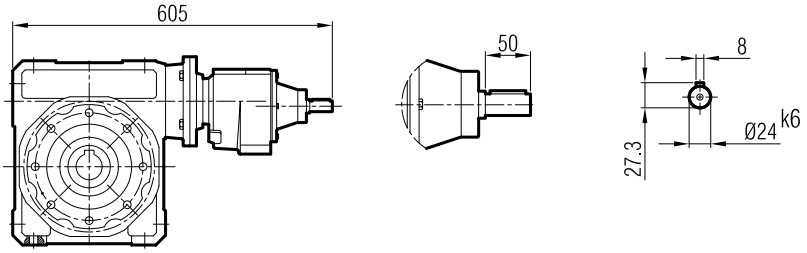
	A
80	725
90 S	744
90 L	769

İRSAP 127 İR 52



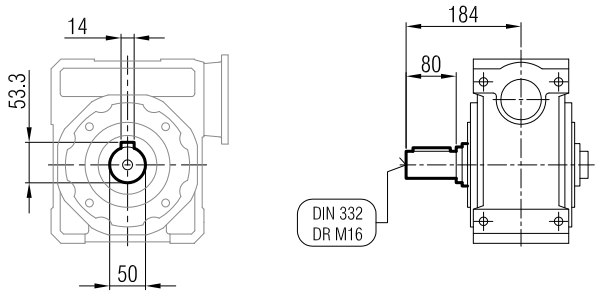
IEC B5	L	m	n	p	f	D	d	t	u	s
80	572	12	5	130	165	200	19	21.8	6	M10
90	572	12	5	130	165	200	24	27.3	8	M10

IRSA 127 IR 52

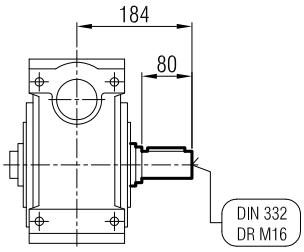


İRSAM / İRSAP / İRSA

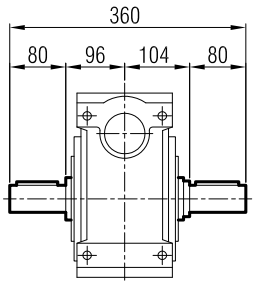
- SR



- SL

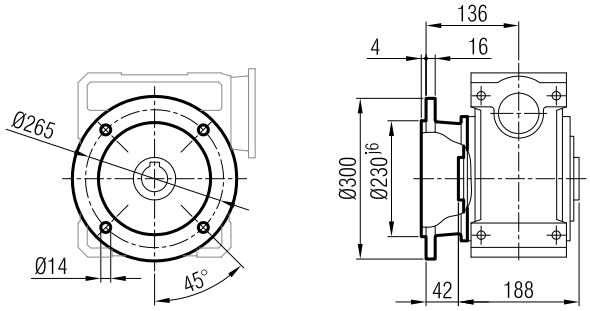


- SD

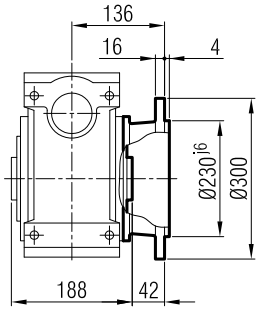


İRSFM / İRSFP / İRSF

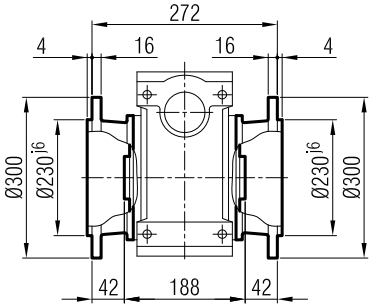
- FR



- FL

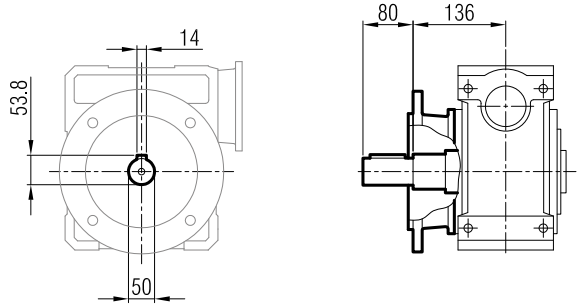


- FD

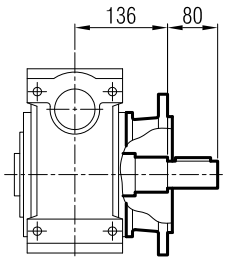


İRSFM / İRSFP / İRSF

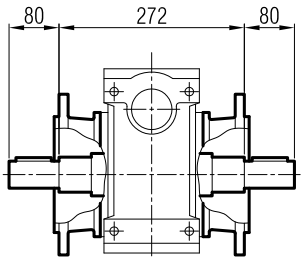
- FR - SR



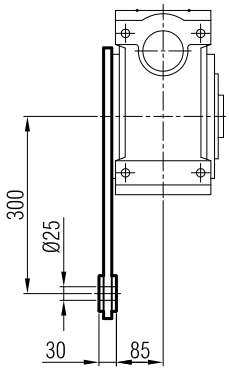
- FL - SL



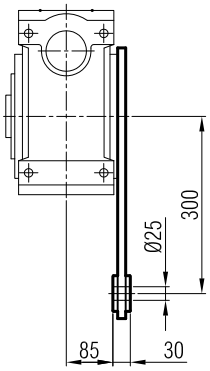
- FD - SD

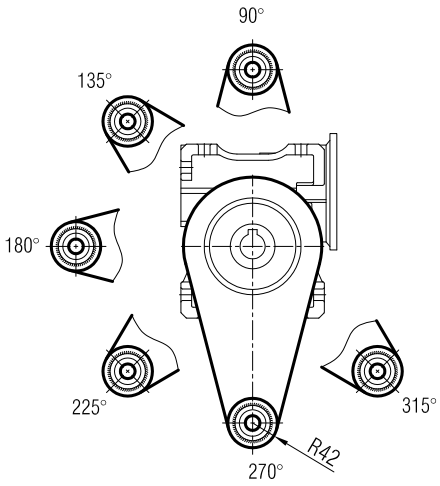


- TR

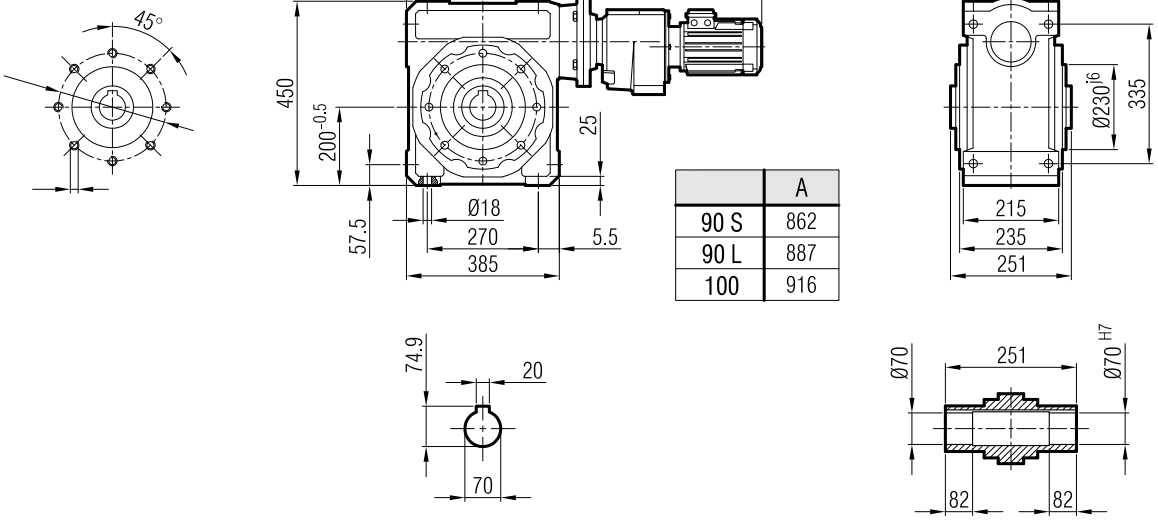


- TL



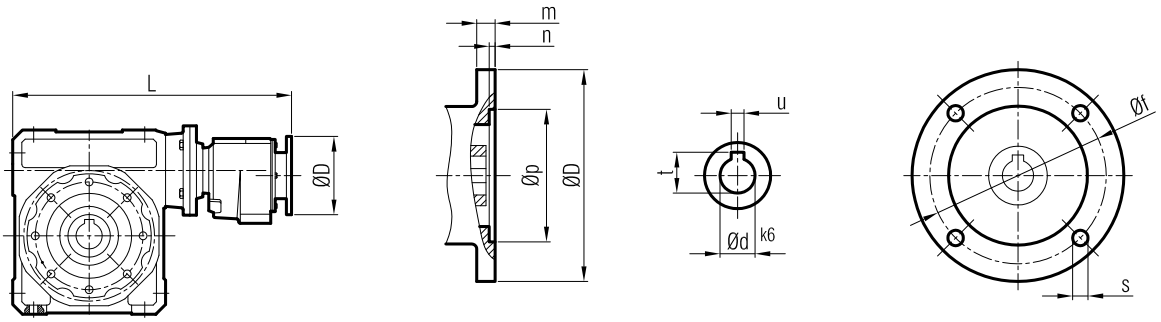


İRSAM 162 İR 63
İRSAM 162 İR 62



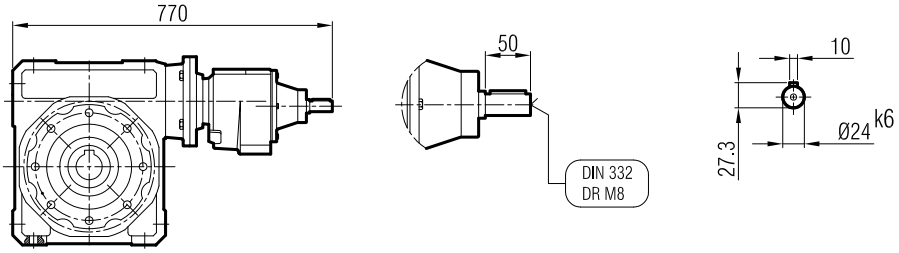
	A
90 S	862
90 L	887
100	916

İRSAP 162 İR 63
İRSAP 162 İR 62



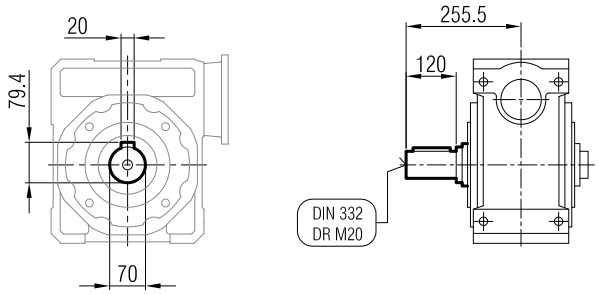
IEC B5	L	m	n	p	f	D	d	t	u	s
90	677	12	5	130	165	200	24	27.3	8	M10
100	690	14	5	180	215	250	28	31.3	8	M12

IRSA 162 IR 63
IRSA 162 IR 62

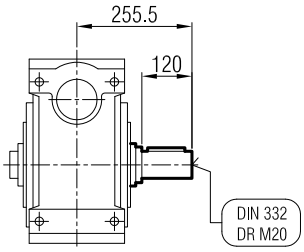


İRSAM / İRSAP / İRSA

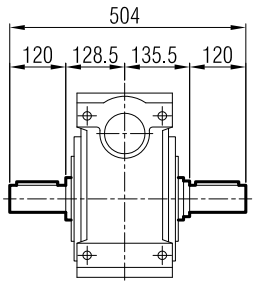
- SR



- SL

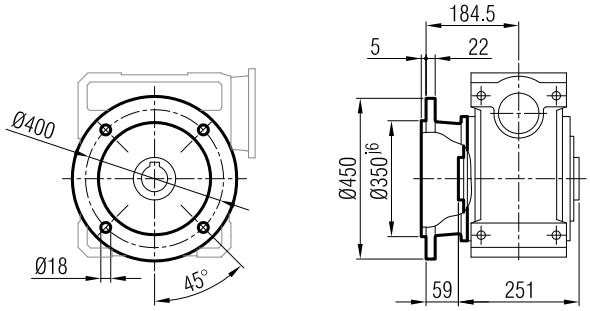


- SD

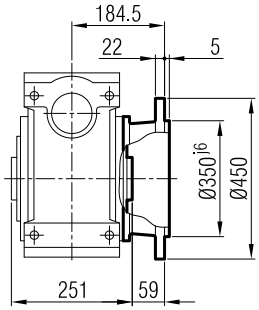


İRSFM / İRSFP / İRSF

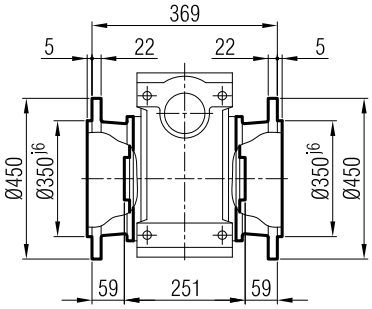
- FR



- FL

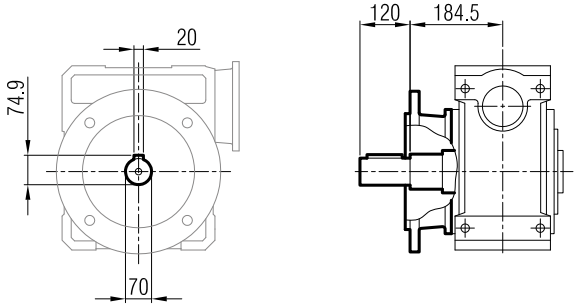


- FD

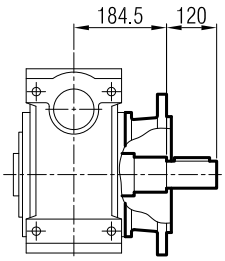


İRSFM / İRSFP / İRSF

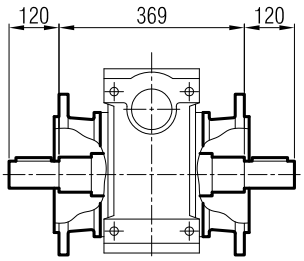
- FR - SR



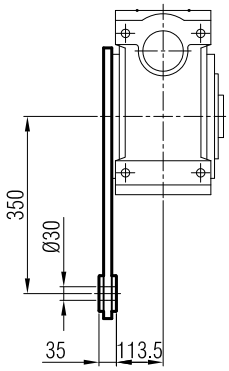
- FL - SL



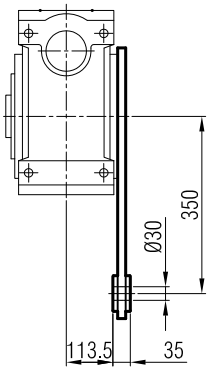
- FD - SD

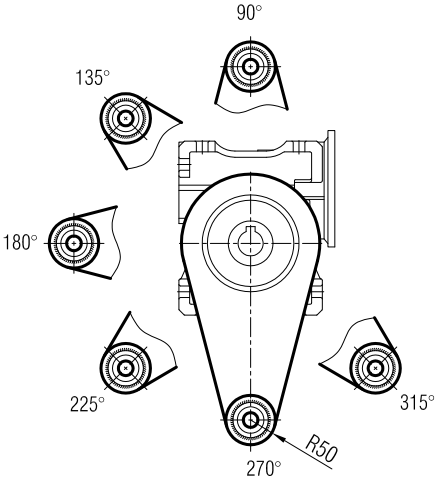


- TR

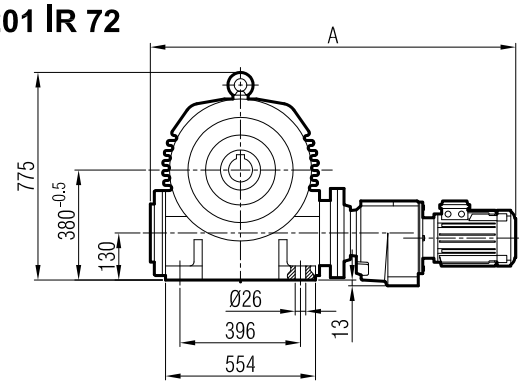


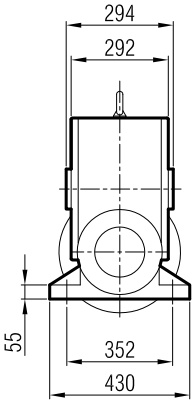
- TL

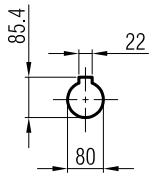




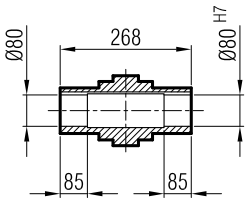
İRSAM 201 İR 72



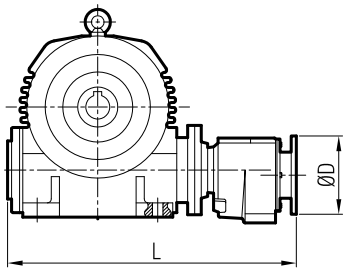


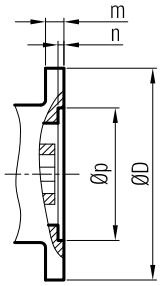


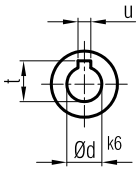
	A
100	1080
112	1282

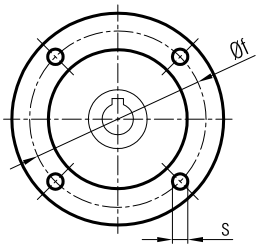


İRSAP 201 İR 72



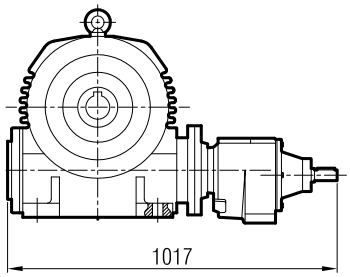


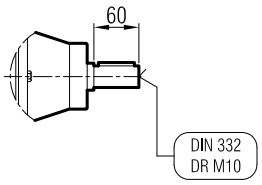


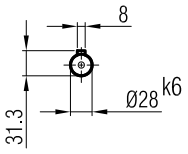


IEC B5	L	m	n	p	f	D	d	t	u	s
100	924	14	5	180	215	250	28	31.3	8	M12
112	924	14	5	180	215	250	28	31.3	8	M12

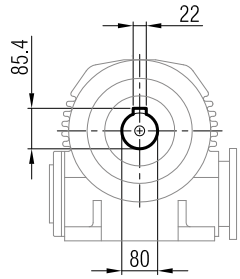
İRSA 201 İR 72



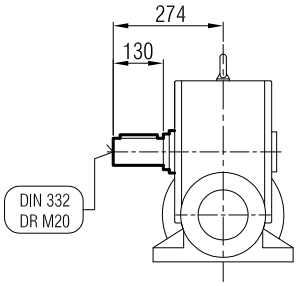




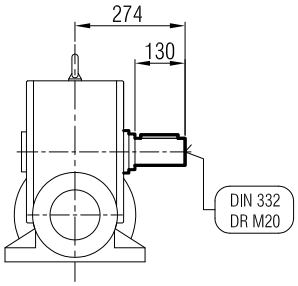
İRSAM / İRSA



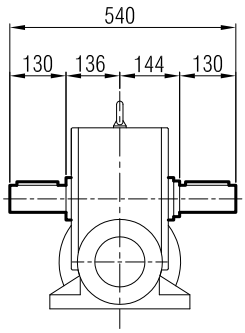
- SR



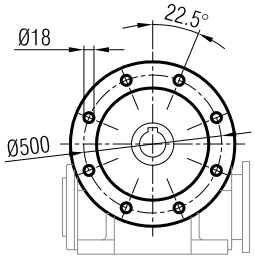
- SL



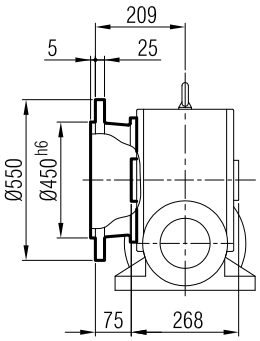
- SD



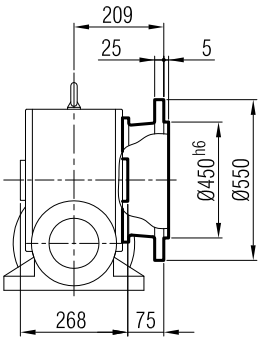
İRSFM / İRSF



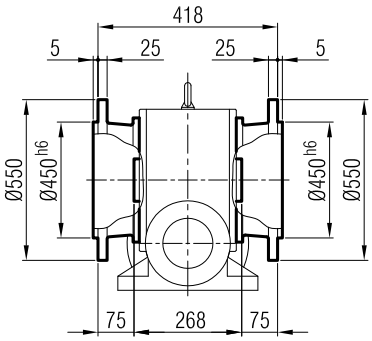
- FR



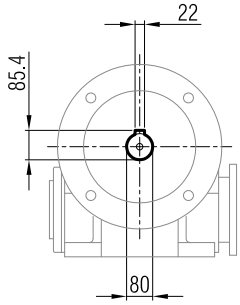
- FL



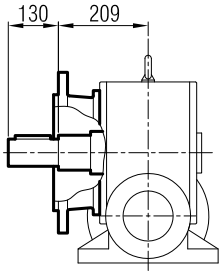
- FD



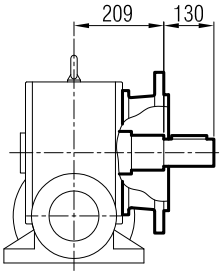
İRSFM / İRSF



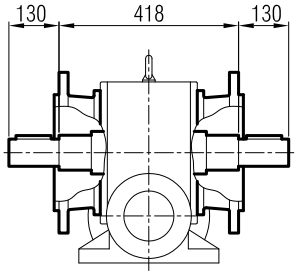
- FR - SR



- FL - SL



- FD - SD




I-MAK
I-MAK

Helisel Sonsuz Vidalı Motorlu Redüktörler Güç ve Devir Tabloları

Helical Worm Geared Motors - Performances Tables

Moto-réducteurs hélicoïdaux à roue et vis sans fin avec moteur - Table de performances

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
0,12 0,16	4,71	82	292,85	1,73	123,9	6250	İRSDM İRSDFM	64 / 63 M 4a	162	13 15
	5,00		275,81	1,84	116,7	6250				
	5,30		260,26	1,95	110,1	6250				
	5,93		232,88	2,18	98,6	6250				
	6,23	62	221,42	2,34	90,1	6250				
	6,62		208,54	2,49	84,9	6250				
	7,01		196,78	2,64	80,1	6250				
	7,73	50	178,57	3,28	88,6	6250				
	8,21		168,18	3,49	83,5	6250				
	8,64		159,69	3,67	79,3	6250				
	10,25		134,61	4,35	66,8	6250				
	12,88	30	107,14	4,37	59,3	6250				
	13,68		100,91	4,64	55,8	6250				
	14,40		95,81	4,88	53,0	6250				
	17,09		80,77	5,79	44,7	6250				
	25,76	15	53,57	6,18	34,0	6250				
	27,35		50,45	6,56	32,0	6250				
	28,81		47,91	6,91	30,4	6250				
	34,17		40,38	8,19	25,6	6250				
	51,52	7,5	26,79	9,66	18,5	6250				
	54,70		25,23	10,26	17,5	6250				
	57,61		23,95	10,80	16,6	6250				
	68,35		20,19	12,82	14,0	6250				
0,18 0,25	3,45	62	264,93	1,70	268,3	9900	İRSDM İRSDFM	81 / 71 M 6a	164	36 39
	3,94		232,50	1,94	235,4	9900				
	4,36		209,87	2,15	212,5	9900				
	4,60	53	198,75	2,55	237,8	9900				
	4,85		188,68	2,68	225,8	9900				
	5,35	40	170,90	2,95	198,2	9900				
	6,10		150,00	3,36	174,0	9900				
	6,76		135,38	3,72	157,0	9900				
	3,32	82	275,81	0,81	264,1	6150	İRSDM İRSDFM	64 / 71 M 6a	162	14 16
	3,52		260,26	0,86	249,2	6150				
	3,93		232,88	0,96	223,0	6150				
	4,14		220,76	1,02	211,4	6150				
	4,58	82	292,85	1,12	191,4	6150	İRSDM İRSDFM	64 / 63 M 4b	162	14 16
	4,86		275,81	1,19	180,3	6150				
	5,15		260,26	1,26	170,1	6150				
	5,75		232,88	1,41	152,2	6150				
	6,05	62	221,42	1,52	139,2	6150				
	6,43		208,54	1,61	131,1	6150				
	6,81		196,78	1,71	123,7	6150				
	7,50	50	178,57	2,12	136,9	6150				
	7,97		168,18	2,26	129,0	6150				
	8,44		158,69	2,39	121,7	6150				
	9,44		142,00	2,67	108,9	6150				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
0,18 0,25	9,62	39	139,28	2,94	113,8	6150	İRSDM İRSDFM	64 / 63 M 4b	162	14 16
	10,21		131,18	3,13	107,2	6150				
	10,83		123,78	3,31	101,1	6150				
	12,10		110,76	3,70	90,5	6150				
	12,51	30	107,14	3,71	86,2	6150				
	13,28		100,90	3,94	81,2	6150				
	14,07		95,21	4,18	76,6	6150				
	15,73		85,20	4,67	68,6	6150				
	16,59		80,76	4,92	65,0	6150				
	21,30		62,90	6,32	50,6	6150				
	23,40		57,27	6,94	46,1	6150				
	26,15		51,25	7,76	41,2	6150				
	28,15	15	47,61	5,88	44,9	6150				
	31,46		42,60	6,57	40,2	6150				
	33,18		40,38	6,93	38,1	6150				
	42,60		31,46	8,90	29,7	6150				
	46,80		28,64	9,78	27,0	6150				
	52,30		25,62	10,93	24,2	6150				
	56,29	7,5	23,81	9,26	24,8	6150				
	62,91		21,30	10,35	22,2	6150				
	66,37		20,19	10,92	21,1	6150				
	85,20		15,73	14,01	16,4	6150				
	93,59		14,32	15,40	14,9	6150				
	104,61		12,81	17,21	13,4	6150				
0,25 0,34	2,69	82	339,71	1,74	477,8	15350	İRSDM İRSDFM	101 / 71 M 6b	166	58 63
	2,85		320,54	1,84	450,8	15350				
	3,14		291,10	2,03	409,4	15350				
	4,64	63	197,01	2,98	287,2	15350				
	5,11		178,92	3,29	260,8	15350				
	3,26	62	280,80	1,06	402,1	9900	İRSDM İRSDFM	81 / 71 M 6b	164	39 42
	3,71		246,45	1,21	352,9	9900				
	4,11		222,43	1,34	318,5	9900				
	4,04	53	226,45	1,50	382,2	9900				
	4,60		198,75	1,71	335,4	9900				
	5,10		179,38	1,89	302,7	9900				
	6,09	53	226,45	2,26	253,4	9900	İRSDM İRSDFM	81 / 71 M 4a	164	35 38
	6,94		198,75	2,57	222,4	9900				
	7,31		188,68	2,71	211,1	9900				
	7,69		179,38	2,85	200,7	9900				
	4,71	82	292,85	0,83	258,2	6100	İRSDM İRSDFM	64 / 71 M 4a	162	15 17
	5,00		275,81	0,88	243,2	6100				
	5,30		260,26	0,94	229,5	6100				
	5,93		232,88	1,05	205,3	6100				
	6,23	62	221,42	1,12	187,7	6100				
	6,62		208,54	1,19	176,8	6100				
	7,01		196,78	1,26	166,8	6100				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
0,25 0,34	7,73	50	178,57	1,58	184,7	6100	İRSDM İRSDFM	64 / 71 M 4a	162	15 17
	8,21		168,18	1,67	173,9	6100				
	8,70		158,69	1,77	164,1	6100				
	9,72		142,00	1,98	146,9	6100				
	9,91	39	139,28	2,18	153,5	6100				
	10,52		131,18	2,32	144,6	6100				
	11,15		123,78	2,46	136,4	6100				
	12,46		110,76	2,74	122,1	6100				
	12,88	30	107,14	2,75	116,3	6100				
	13,68		100,90	2,92	109,5	6100				
	14,49		95,21	3,10	103,3	6100				
	16,20		85,20	3,46	92,5	6100				
	17,09		80,76	3,65	87,6	6100				
	21,94		62,90	4,69	68,3	6100				
	24,10		57,27	5,15	62,1	6100				
	26,93		51,25	5,75	55,6	6100				
	27,36	15	50,45	4,12	64,1	6100				
	28,99		47,61	4,36	60,5	6100				
	32,39		42,60	4,87	54,2	6100				
	34,18		40,38	5,14	51,3	6100				
	43,87		31,46	6,60	40,0	6100				
	48,19		28,64	7,25	36,4	6100				
	53,86		25,62	8,10	32,6	6100				
	57,97	7,5	23,81	6,87	33,5	6100				
	64,79		21,30	7,67	30,0	6100				
	68,35		20,19	8,10	28,4	6100				
	87,74		15,73	10,39	22,1	6100				
	96,39		14,32	11,42	20,1	6100				
	107,73		12,81	12,76	18,0	6100				
	2,67	83	340,30	2,03	738,1	21000	İRSDM İRSDFM	126 / 80 M 6a	168	99 107
	2,84		320,14	2,16	694,4	21000				
	3,02		301,81	2,29	654,6	21000				
	3,75		242,61	2,84	526,2	21000				
	2,68	82	339,71	1,17	711,0	15250	İRSDM İRSDFM	101 / 80 M 6a	166	60 65
	2,84		320,54	1,24	670,9	15250				
	3,13		291,10	1,36	609,2	15250				
	3,49	63	261,00	1,51	566,1	15250				
0,37 0,5	3,70		246,27	1,60	534,2	15250				
	4,07		223,65	1,77	485,1	15250				
	4,39	50	207,14	2,19	520,2	15250				
	4,66		195,45	2,32	490,9	15250				
	5,13		177,50	2,56	445,8	15250				
	4,02	53	226,45	1,08	560,1	9800	İRSDM İRSDFM	81 / 80 M 6a	164	38 41
	4,58		198,75	1,23	491,6	9800				
	5,07		179,38	1,37	443,7	9800				
	5,32	40	170,91	1,43	409,7	9800				
	6,07		150,00	1,62	359,6	9800				
	6,72		135,38	1,80	324,6	9800				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
0,37 0,5	6,99	53	198,75	1,88	321,8	9800	İRSDM İRSDFM	81 / 71 M 4b	164	35 38
	7,37		188,68	1,98	305,5	9800				
	7,75		179,38	2,09	290,5	9800				
	8,13	40	170,91	2,18	268,2	9800				
	9,27		150,00	2,48	235,4	9800				
	9,76		142,40	2,61	223,5	9800				
	10,84	30	128,18	3,23	217,1	9800				
	12,36		112,50	3,68	190,6	9800				
	13,69		101,53	4,08	172,0	9800				
	15,09		92,14	4,49	156,1	9800				
	17,31		80,32	5,15	136,1	9800				
	20,53		67,71	6,11	114,7	9800				
	6,28	62	221,42	0,77	275,8	6040	İRSDM İRSDFM	64 / 71 M 4b	162	16 18
	6,67		208,54	0,81	259,8	6040				
	7,06		196,78	0,86	245,1	6040				
	7,78	50	178,57	1,07	271,4	6040				
	8,26		168,18	1,14	255,6	6040				
	8,76		158,69	1,21	241,2	6040				
	9,79		142,00	1,35	215,8	6040				
	9,98	39	139,28	1,49	225,5	6040				
	10,60		131,18	1,58	212,4	6040				
	11,23		123,78	1,67	200,4	6040				
	12,55		110,76	1,87	179,4	6040				
	12,97	30	107,14	1,87	170,8	6040				
	13,78		100,90	1,99	160,9	6040				
	14,60		95,21	2,11	151,8	6040				
	16,31		85,20	2,36	135,8	6040				
	17,21		80,76	2,49	128,8	6040				
	22,10		62,90	3,19	100,3	6040				
	24,27		57,27	3,50	91,3	6040				
	27,12		51,25	3,92	81,7	6040				
	33,10		42,00	4,78	67,0	6040				
	34,42	15	40,38	3,50	75,4	6040				
	44,19		31,46	4,49	58,8	6040				
	48,54		28,64	4,93	53,5	6040				
	54,25		25,62	5,52	47,9	6040				
	55,11	7,5	25,22	4,41	52,2	6040				
	58,39		23,81	4,67	49,2	6040				
	65,26		21,30	5,22	44,0	6040				
	68,85		20,19	5,51	41,7	6040				
	88,38		15,73	7,07	32,5	6040				
	97,08		14,32	7,77	29,6	6040				
	108,51		12,81	8,68	26,5	6040				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	2,62	83	340,30	1,33	1121,9	21000	İRSDM İRSDFM	126 / 80 M 6b	168	100 108
	2,78		320,14	1,42	1055,4	21000				
	2,95		301,81	1,50	995,0	21000				
	3,67		242,61	1,87	799,8	21000				
	4,30	50	207,14	1,44	790,7	15170	İRSDM İRSDFM	101 / 80 M 6b	166	60 65
	4,55		195,45	1,53	746,1	15170				
	5,01		177,50	1,68	677,6	15170				
	5,37	40	165,71	1,91	651,7	15170				
	6,02		147,82	2,14	581,4	15170				
	6,59	50	207,14	2,21	515,5	15170	İRSDM İRSDFM	101 / 80 M 4a	166	59 64
	6,98		195,45	2,34	486,5	15170				
	7,69		177,50	2,58	441,8	15170				
	8,24	40	165,71	2,93	424,9	15170				
	8,73		156,36	3,10	401,0	15170				
	9,61		142,00	3,41	364,1	15170				
	4,48	53	198,75	0,81	747,2	9670	İRSDM İRSDFM	81 / 80 M 6b	164	38 41
	4,96		179,38	0,90	674,4	9670				
	5,21	40	170,91	0,94	622,7	9670				
	5,93		150,00	1,07	546,6	9670				
	6,57		135,38	1,18	493,3	9670				
0,55 0,75	6,87	53	198,75	1,24	487,2	9670	İRSDM İRSDFM	81 / 80 M 4a	164	38 41
	7,23		188,68	1,31	462,5	9670				
	7,61		179,38	1,38	439,7	9670				
	7,99	40	170,91	1,44	406,0	9670				
	9,10		150,00	1,64	356,4	9670				
	9,59		142,40	1,73	338,3	9670				
	10,65	30	128,18	2,13	328,7	9670				
	12,13		112,50	2,43	288,5	9670				
	13,44		101,53	2,69	260,4	9670				
	14,81		92,14	2,97	236,3	9670				
	16,99		80,32	3,40	206,0	9670				
	20,16		67,71	4,04	173,6	9670				
	8,60	50	158,69	0,80	365,0	5890	İRSDM İRSDFM	64 / 80 M 4a	162	18 20
	9,61		142,00	0,89	326,6	5890				
	9,80	39	139,28	0,98	341,4	5890				
	10,41		131,18	1,04	321,5	5890				
	11,03		123,78	1,10	303,4	5890				
	12,32		110,76	1,23	271,5	5890				
	12,74	30	107,14	1,24	258,6	5890				
	13,53		100,90	1,31	243,5	5890				
	14,34		95,21	1,39	229,8	5890				
	16,02		85,20	1,56	205,6	5890				
	16,90		80,76	1,64	194,9	5890				
	21,70		62,90	2,11	151,8	5890				
	23,83		57,27	2,32	138,2	5890				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type		kg
0,55 0,75	25,48	15	53,57	1,74	151,5	5890	İRSDM İRSDFM	64 / 80 M 4a	162	18 20
	27,06		50,45	1,85	142,7	5890				
	28,67		47,61	1,96	134,7	5890				
	32,04		42,60	2,19	120,5	5890				
	33,80		40,38	2,31	114,2	5890				
	43,40		31,46	2,97	89,0	5890				
	47,67		28,64	3,26	81,0	5890				
	53,28		25,62	3,64	72,5	5890				
	54,12	7,5	25,22	2,91	78,9	5890				
	57,34		23,81	3,09	74,5	5890				
	64,08		21,30	3,45	66,7	5890				
	67,61		20,19	3,64	63,2	5890				
	86,79		15,73	4,67	49,2	5890				
	95,34		14,32	5,13	44,8	5890				
	106,56		12,81	5,74	40,1	5890				
0,75 1	2,48	87	370,89	1,72	1641,3	25200	İRSDM İRSDFM	161 / 90 S 6	170	173 183
	2,81		327,28	1,95	1448,3	25200				
	3,52		261,00	2,44	1155,0	25200				
	3,24	65	283,91	0,90	1408,0	21000	İRSDM İRSDFM	126 / 90 S 6	168	98 106
	3,67		250,70	1,02	1243,3	21000				
	3,89		236,34	1,08	1172,1	21000				
	4,05	52	227,13	1,80	1178,4	21000				
	4,59		200,56	2,04	1040,5	21000				
	4,87		189,07	2,16	980,9	21000				
	4,44	50	207,14	1,09	1043,1	15060	İRSDM İRSDFM	101 / 90 S 6	166	63 68
	4,71		195,45	1,16	984,2	15060				
	5,18		177,50	1,27	893,8	15060				
	5,55	40	165,71	1,45	859,7	15060				
	6,22		147,82	1,62	766,9	15060				
	6,81	50	207,14	1,67	680,6	15060	İRSDM İRSDFM	101 / 80 M 4b	166	60 65
	7,21		195,45	1,77	642,2	15060				
	7,94		177,50	1,95	583,2	15060				
	8,51	40	165,71	2,22	561,0	15060				
	9,02		156,36	2,35	529,3	15060				
	9,93		142,00	2,59	480,7	15060				
	11,35	30	124,28	2,98	426,9	15060				
	12,02		117,27	3,16	402,8	15060				
	13,24		106,50	3,47	365,8	15060				
	14,10		99,99	3,70	343,5	15060				
	6,23	53	226,45	0,83	732,8	9490	İRSDM İRSDFM	81 / 80 M 4b	164	39 42
	7,09		198,75	0,94	643,1	9490				
	7,47		188,68	0,99	610,5	9490				
	7,86		179,38	1,04	580,4	9490				
	8,25	40	170,91	1,09	536,0	9490				
	9,40		150,00	1,24	470,4	9490				
	9,90		142,40	1,31	446,6	9490				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	11,00	30	128,18	1,62	433,9	9490	İRSDM İRSDFM	81 / 80 M 4b	164	39 42
	12,53		112,50	1,84	380,8	9490				
	13,89		101,53	2,04	343,7	9490				
	15,30		92,14	2,25	311,9	9490				
	17,55		80,32	2,58	271,9	9490				
	20,82		67,71	3,06	229,2	9490				
	10,12	39	139,28	0,74	450,7	5650	İRSDM İRSDFM	64 / 80 M 4b	162	19 21
	10,75		131,18	0,79	424,5	5650				
	11,39		123,78	0,84	400,5	5650				
	12,73		110,76	0,93	358,4	5650				
	13,16	30	107,14	0,94	341,4	5650				
	13,97		100,90	1,00	321,5	5650				
	14,81		95,21	1,05	303,3	5650				
	16,55		85,20	1,18	271,5	5650				
0,75	17,46		80,76	1,24	257,3	5650				
1	22,42		62,90	1,60	200,4	5650				
	24,62		57,27	1,75	182,5	5650				
	27,51		51,25	1,96	163,3	5650				
	29,62	15	47,61	1,49	177,8	5650				
	33,10		42,60	1,66	159,1	5650				
	34,92		40,38	1,75	150,8	5650				
	44,83		31,46	2,25	117,4	5650				
	49,24		28,64	2,47	106,9	5650				
	55,04		25,62	2,76	95,7	5650				
	59,23	7,5	23,81	2,34	98,4	5650				
	66,20		21,30	2,61	88,0	5650				
	69,84		20,19	2,76	83,4	5650				
	89,65		15,73	3,54	65,0	5650				
	98,48		14,32	3,89	59,2	5650				
	110,07		12,81	4,35	52,9	5650				
	2,51	87	370,89	1,19	2381,3	25000	İRSDM İRSDFM	161 / 90 L 6	170	168 178
	2,84		327,28	1,34	2101,3	25000				
	3,19		291,26	1,51	1870,0	25000				
	3,56		261,00	1,68	1675,7	25000				
	4,04	54	230,21	2,34	1758,4	25000				
1,1	4,58		203,14	2,65	1551,6	25000				
1,5	5,14		180,78	2,98	1380,8	25000				
	5,74		162,00	3,33	1237,4	25000				
	4,64	52	200,56	1,41	1509,7	20750	İRSDM İRSDFM	126 / 90 L 6	168	99 107
	4,92		189,07	1,49	1423,2	20750				
	6,77		137,42	2,05	1034,4	20750				
	5,61	40	165,71	1,00	1247,4	14750	İRSDM İRSDFM	101 / 90 L 6	166	65 70
	6,29		147,82	1,12	1112,7	14750				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	6,86		207,14	1,15	991,2	14750				
	7,27	50	195,45	1,22	935,2	14750				
	8,00		177,50	1,34	849,3	14750	İRSDM İRSDFM	101 / 90 S 4	166	63 68
	8,57		165,71	1,52	816,9	14750				
	9,08	40	156,36	1,61	770,8	14750				
	10,00		142,00	1,78	700,1	14750				
	11,08		128,18	1,11	631,9	9250				
	12,62		112,50	1,26	554,6	9250				
	13,99	30	101,53	1,40	500,5	9250	İRSDM İRSDFM	81 / 90 S 4	164	44 47
	15,41		92,14	1,54	454,2	9250				
	17,68		80,32	1,77	396,0	9250				
	20,97		67,71	2,10	333,8	9250				
	17,58		80,76	0,85	374,7	5400				
1,1	22,58	30	62,90	1,10	291,9	5400				
1,5	24,79		57,27	1,20	265,7	5400				
	27,71		51,25	1,35	237,8	5400				
	29,83		47,61	1,02	258,9	5400				
	33,33		42,60	1,14	231,6	5400				
	35,17	15	40,38	1,20	219,6	5400				
	45,14		31,46	1,54	171,0	5400	İRSDM İRSDFM	64 / 90 S 4	162	22 25
	49,59		28,64	1,70	155,7	5400				
	55,43		25,62	1,90	139,3	5400				
	59,65		23,81	1,61	143,2	5400				
	66,67		21,30	1,79	128,2	5400				
	70,33	7,5	20,19	1,89	121,5	5400				
	90,29		15,73	2,43	94,6	5400				
	99,18		14,32	2,67	86,2	5400				
	110,85		12,81	2,98	77,1	5400				
	2,55		370,89	0,88	3195,7	24700				
	2,89	87	327,28	1,00	2819,9	24700				
	3,62		261,00	1,26	2248,8	24700	İRSDM İRSDFM	161 / 100 L 6a	170	168 178
	4,02		235,22	1,39	2026,7	24700				
	4,43		213,20	0,99	2153,7	20000				
	4,71	52	200,56	1,05	2026,0	20000				
	5,00		189,07	1,11	1909,9	20000	İRSDM İRSDFM	126 / 100 L 6a	168	104 112
1,5	6,22		151,99	1,38	1535,4	20000				
2	9,45	40	100,00	1,23	1010,2	14440				
	12,60		75,00	1,65	768,8	14440				
	13,29	30	71,11	1,74	728,9	14440	İRSDM İRSDFM	101 / 100 L 6a	166	71 76
	17,92		52,72	2,35	540,4	14440				
	8,06		177,50	0,99	1150,1	14440				
	8,58	50	166,66	1,05	1079,8	14440				
	11,44		125,00	1,41	809,9	14440	İRSDM İRSDFM	101 / 90 L 4a	166	71 76
	12,07		118,51	1,48	767,9	14440				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
1,5 2	14,30	40	100,00	1,86	667,6	14440	İRSDM İRSDFM	101 / 90 L 4a	166	71 76
	15,08		94,81	1,96	632,9	14440				
	19,07	30	75,00	2,50	508,0	14440				
	20,11		71,11	2,64	481,7	14440				
	27,12		52,72	3,56	357,1	14440				
	30,17	20	47,40	2,87	363,0	14440				
	38,13	15	37,50	3,67	290,8	14440				
	12,71	30,00	112,50	0,93	751,0	8900	İRSDM İRSDFM	81 / 90 L 4a	164	42 45
	14,08		101,53	1,03	677,8	8900				
	15,52		92,14	1,14	615,1	8900				
	17,80		80,32	1,31	536,2	8900				
	21,12		67,71	1,55	452,0	8900				
	25,42	15,00	56,25	1,35	430,7	8900				
	28,17		50,76	1,50	388,7	8900				
	31,04		46,07	1,65	352,8	8900				
	35,61		40,16	1,90	307,5	8900				
	42,24		33,86	2,25	259,2	8900				
	47,67		30,00	2,54	229,7	8900				
	53,55		26,71	2,85	204,5	8900				
	53,39	7,5	26,78	1,05	218,2	5400	İRSDM İRSDFM	64 / 90 L 4	162	22 25
	56,70		25,22	1,12	205,5	5400				
	60,07		23,81	1,19	194,0	5400				
	67,14		21,30	1,33	173,6	5400				
	70,83		20,19	1,40	164,5	5400				
	90,92		15,73	1,79	128,2	5400				
	99,88		14,32	1,97	116,7	5400				
	111,63		12,81	2,20	104,4	5400				
2,2 3	4,93	87	291,26	1,16	2423,9	24350	İRSDM İRSDFM	161 / 100 L 4a	170	175 185
	5,50		261,00	1,30	2172,0	24350				
	6,10		235,22	1,44	1957,5	24350				
	7,06	54	203,14	2,05	2011,2	24350				
	7,94		180,78	2,30	1789,8	24350				
	8,86		162,00	2,57	1603,9	24350				
	9,83		146,00	2,85	1445,4	24350				
	5,02	52	189,07	0,76	2786,5	19450	İRSDM İRSDFM	126 / 112 M 6a	168	114 122
	6,25		151,99	0,95	2240,0	19450				
	6,73	52	213,20	1,02	2080,2	19450	İRSDM İRSDFM	126 / 100 L 4a	168	102 110
	7,15		200,56	1,08	1956,8	19450				
	7,59		189,07	1,15	1844,7	19450				
	9,30	40	154,28	1,48	1527,4	19450				
	9,87		145,44	1,57	1439,9	19450				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type		kg
2,2 3	11,63	32	123,42	1,87	1239,6	19450	İRSDM İRSDFM	126 / 100 L 4a	168	102 110
	12,33		116,35	1,99	1168,6	19450				
	15,34		93,53	2,47	939,4	19450				
	16,97		84,54	2,74	849,1	19450				
	20,31		70,66	3,27	709,7	19450				
	23,32		61,53	3,76	618,0	19450				
	27,68		51,84	4,46	520,7	19450				
	30,91		46,43	4,98	466,3	19450				
	11,48	50	125,00	0,96	1183,7	14100	İRSDM İRSDFM	101 / 100 L 4a	166	69 74
	12,11		118,51	1,01	1122,3	14100				
	14,35	40	100,00	1,27	975,7	14100				
	15,14		94,81	1,34	925,0	14100				
	19,13	30	75,00	1,71	742,5	14100				
	20,18		71,11	1,81	704,0	14100				
	27,22		52,72	2,44	521,9	14100				
	17,87	30	80,32	0,89	783,7	8700	İRSDM İRSDFM	81 / 100 L 4a	164	42 45
	21,19		67,71	1,06	660,6	8700				
	23,92		60,00	1,20	585,4	8700				
	26,87		53,41	1,35	521,1	8700				
	27,91		51,42	1,40	501,7	8700				
	37,37		38,40	1,87	374,7	8700				
	42,39	15	33,86	1,54	378,9	8700				
	47,83		30,00	1,74	335,8	8700				
	53,74		26,70	1,95	298,9	8700				
	55,81		25,71	2,03	287,7	8700				
	74,74		19,20	2,71	214,9	8700				
	84,77	7,5	16,93	2,27	204,0	8700				
	95,67		15,00	2,57	180,8	8700				
	107,47		13,35	2,88	160,9	8700				
	111,63		12,86	2,99	154,9	8700				
	149,48		9,60	4,01	115,7	8700				
3 4	5,50	87	261,00	0,95	2961,9	24100	İRSDM İRSDFM	161 / 100 L 4b	170	174 184
	6,10		235,22	1,06	2669,3	24100				
	6,74		213,00	1,17	2417,2	24100				
	7,41		193,64	1,28	2197,5	24100				
	8,86	54	162,00	1,88	2187,1	24100				
	9,83		146,00	2,09	1971,1	24100				
	10,85		132,20	2,31	1784,8	24100				
	11,94		120,19	2,54	1622,6	24100				
	6,73	52	213,20	0,75	2836,6	19100	İRSDM İRSDFM	126 / 100 L 4b	168	105 113
	7,15		200,56	0,80	2668,4	19100				
	7,59		189,07	0,84	2515,5	19100				
	9,30	40	154,28	1,08	2082,8	19100				
	9,87		145,44	1,15	1963,5	19100				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
	11,63	32	123,42	1,37	1690,4	19100	İRSDM İRSDFM	126 / 100 L 4b	168	105 113
	12,33		116,35	1,46	1593,5	19100				
	15,34		93,53	1,81	1281,0	19100				
	16,97		84,54	2,01	1157,9	19100				
	20,31		70,66	2,40	967,8	19100				
	23,32		61,53	2,76	842,7	19100				
	27,67		51,86	3,27	710,3	19100				
	30,91		46,43	3,65	635,9	19100				
	14,35	40	100,00	0,93	1330,5	13700	İRSDM İRSDFM	101 / 100 L 4b	166	71 76
	15,14		94,81	0,99	1261,4	13700				
	19,13	30	75,00	1,26	1012,5	13700				
3	20,18		71,11	1,32	960,0	13700				
4	27,22		52,72	1,79	711,7	13700				
	35,73	15	40,16	0,95	612,9	8700	İRSDM İRSDFM	81 / 100 L 4b	164	45 48
	42,39		33,86	1,13	516,7	8700				
	47,83		30,00	1,27	457,8	8700				
	53,74		26,70	1,43	407,5	8700				
	55,81		25,71	1,49	392,4	8700				
	74,74		19,20	1,99	293,0	8700				
	84,77	7,5	16,93	1,80	258,3	8700				
	95,67		15,00	2,03	228,9	8700				
	107,47		13,35	2,28	203,8	8700				
	111,63		12,86	2,37	196,2	8700				
	149,48		9,60	3,17	146,5	8700				
	5,57	87	261,00	0,72	3894,9	23500	İRSDM İRSDFM	161 / 112 M 4b	170	184 194
	6,19		235,22	0,80	3510,2	23500				
	6,83		213,00	0,89	3178,6	23500				
	7,16	54	203,14	1,14	3606,4	23500				
	8,05		180,78	1,28	3209,4	23500				
	8,98		162,00	1,43	2876,0	23500				
	9,97		146,00	1,59	2592,0	23500				
	11,01		132,20	1,75	2347,0	23500				
	12,11		120,19	1,93	2133,8	23500				
	11,55	42	126,00	1,87	2236,9	23500				
	12,81		113,55	2,08	2015,9	23500				
4	14,15		102,82	2,30	1825,4	23500				
5,5	15,56		93,48	2,53	1659,6	23500				
	9,43	40	154,28	0,82	2739,0	18500	İRSDM İRSDFM	126 / 112 M 4b	168	115 123
	10,00		145,44	0,87	2582,0	18500				
	11,79	32	123,42	1,05	2222,8	18500				
	12,51		116,35	1,11	2095,5	18500				
	15,56		93,53	1,38	1684,5	18500				
	17,21		84,54	1,53	1522,6	18500				
	20,59		70,65	1,83	1272,4	18500				
	23,65		61,53	2,10	1108,2	18500				
	28,06		51,86	2,49	934,0	18500				
	31,34		46,43	2,78	836,2	18500				

P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	f_s Servis Faktörü Service Factor *Service facteur*	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type		kg
4 5,5	19,40	30	75,00	0,95	1331,5	13200	İRSDM İRSDFM	101 / C100 L 4	166	69 74
	20,46		71,11	1,01	1262,4	13200				
	23,41	15	62,14	0,84	1263,1	13200				
	24,81		58,64	0,90	1191,8	13200				
	26,25		55,43	0,95	1126,8	13200				
	27,71		52,50	1,00	1067,1	13200				
	38,80		37,50	1,40	762,2	13200				
	40,92		35,55	1,48	722,7	13200				
	46,83	7,5	31,07	1,24	679,5	13200				
	49,63		29,32	1,32	641,2	13200				
	52,49		27,72	1,39	606,2	13200				
	55,43		26,25	1,47	574,1	13200				
	77,60		18,75	2,06	410,1	13200				
	81,85		17,78	2,17	388,8	13200				
	110,38		13,18	2,93	288,3	13200				
5,5 7,5	9,07	87	161,57	0,86	3292,6	23500	İRSDM İRSDFM	161 / 132 S 4c	170	193 203
	9,89		148,13	0,94	3018,7	23500				
	10,77		136,07	1,02	2773,0	23500				
	13,36	54	109,63	1,55	2657,9	23000				
	14,61		100,28	1,69	2431,2	23000				
	15,93		91,94	1,85	2229,0	23000				
	17,18	42	85,27	2,03	2067,3	23000				
	18,78		78,00	2,22	1891,0	23000				
	20,49		71,51	2,42	1733,7	23000				
	24,06	30	60,90	2,91	1540,7	23000				
	26,30		55,71	3,18	1409,4	23000				
	28,68		51,08	3,47	1292,2	23000				
	31,22		46,92	3,77	1187,0	23000				
	43,54		33,65	5,26	851,3	23000				
	11,87	32	123,42	0,77	3035,6	17250	İRSDM İRSDFM	126 / C112 M 4	168	116 124
	12,59		116,35	0,81	2861,7	17250				
	15,66		93,53	1,01	2300,4	17250				
	17,33		84,54	1,12	2079,3	17250				
	20,74		70,65	1,34	1737,7	17250				
	23,81		61,53	1,54	1513,4	17250				
	25,18	16	58,17	1,21	1635,2	17250				
	31,33		46,76	1,50	1314,5	17250				
	34,66		42,27	1,66	1188,1	17250				
	41,47		35,32	1,99	992,9	17250				
	47,62		30,76	2,28	864,8	17250				
	56,52		25,92	2,71	728,6	17250				
	63,11		23,21	3,02	652,5	17250				
	66,36	10	22,08	2,23	659,4	17250				
	76,19		19,23	2,56	574,3	17250				
	90,43		16,20	3,04	483,8	17250				
	100,97		14,51	3,39	433,3	17250				

P1 **GÜÇ** Power *Puissance* **[kW]** Hp	n_2 **Çıkış Devri** Output Speeds *Vitesse de sortie* **[r.p.m]**	**i** **Sonsuz V. Tahvili** Worm Ratio *Rapport de réduction*	i_t **Toplam Tahvil** Total Ratio *Rapport de réduction total*	f_s **Servis Faktörü** Service Factor *Service facteur*	M_2 **Çıkış Momenti** Output Torque *Couple de sortie* **[Nm]**	F_{Qlo} **Rad. Yük** Over Loads *Charges radiales* **[N]**	**Tip** Type			**kg**
	13,36		109,63	1,14	3624,4	22440				
	14,61	54	100,28	1,24	3315,3	22440				
	15,93		91,94	1,35	3039,5	22440				
	17,18		85,27	1,49	2819,0	22440				
	18,78	42	78,00	1,63	2578,7	22440				
	20,49		71,51	1,77	2364,1	22440				
	22,30		65,69	1,93	2171,7	22440				
	24,06		60,90	2,13	2100,9	22440				
	26,30		55,71	2,33	1921,8	22440				
	28,68	30	51,08	2,54	1762,1	22440				
7,5	31,22		46,92	2,77	1618,6	22440	İRSDM			201
10	43,54		33,65	3,86	1160,8	22440	İRSDFM	161 / 132 M 4b	170	211
	48,11		30,45	3,09	1181,7	22440				
	52,59		27,86	3,37	1081,0	22440				
	57,36	15	25,54	3,68	991,2	22440				
	62,45		23,46	4,01	910,5	22440				
	87,08		16,82	5,59	652,9	22440				
	96,22		15,23	4,49	627,3	22440				
	105,19		13,93	4,91	573,9	22440				
	114,73	7,5	12,77	5,35	526,2	22440				
	124,89		11,73	5,83	483,3	22440				
	174,16		8,41	8,12	346,6	22440				
	17,18		85,27	1,01	4134,6	22440				
	18,78	42	78,00	1,11	3782,1	22440				
	20,49		71,51	1,21	3467,4	22440				
	22,30		65,69	1,32	3185,2	22440				
	24,06		60,90	1,45	3081,3	22440				
	26,30		55,71	1,59	2818,7	22440				
11	28,68	30	51,08	1,73	2584,4	22440	İRSDM			210
15	31,22		46,92	1,89	2374,0	22440	İRSDFM	161 / C132 M 4	170	220
	43,54		33,65	2,63	1702,6	22440				
	48,11		30,45	2,10	1733,2	22440				
	52,60		27,85	2,30	1585,2	22440				
	57,36	15	25,54	2,51	1453,8	22440				
	62,45		23,46	2,73	1335,4	22440				
	87,10		16,82	3,81	957,4	22440				

Helisel Sonsuz Vidalı Redüktörler Güç ve Devir Tabloları

Helical Worm Gear Unit - Performances Tables

Réducteurs Hélicoïdaux à roue et vis sans fin - Table de performances

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
211-320 Nm	0,21	4,8	82	292,85	0,51	215	420	5870	İRSD İRSDF	64	162	13 15
	0,22	5		275,81		215	420	5870				
	0,24	5,4		260,26		215	420	5870				
	0,27	6		232,88		215	420	5870				
	0,28	6,3	62	221,42	0,49	211	420	5870				
	0,30	6,7		208,54		211	420	5870				
	0,32	7		196,78		211	420	5870				
	0,40	7,8	50	178,57	0,60	291	420	5870				
	0,41	8		168,18		291	420	5870				
	0,45	8,8		158,69		291	420	5870				
	0,53	10,4		134,61		291	420	5870				
	0,53	10	30	138,28	0,63	320	420	5870				
	0,57	10,6		131,18		320	420	5870				
	0,60	11,3		123,78		320	420	5870				
	0,67	12,6		110,76		320	420	5870				
	0,69	13		107,14		320	420	5870				
	0,74	13,8		100,90		320	420	5870				
	0,79	14,7		95,21		320	420	5870				
	0,88	16,4		85,20		320	420	5870				
	0,92	17,3		80,76		320	420	5870				
	1,30	24,4		57,27		320	420	5870				
	1,46	27,3		51,25		320	420	5870				
606-700 Nm	0,61	6,1	53	226,45	0,64	606	700	8700	İRSD İRSDF	81	164	24 27
	0,70	7		198,75		606	700	8700				
	0,74	7,4		188,68		606	700	8700				
	0,78	7,8		179,38		606	700	8700				
	0,81	8,2	40	170,91	0,62	584	700	8700				
	0,92	9,3		150,00		584	700	8700				
	0,97	9,8		142,50		584	700	8700				
	1,20	10,9	30	128,18	0,67	701	700	8700				
	1,37	12,4		112,50		701	700	8700				
	1,52	13,8		101,53		701	700	8700				
	1,67	15,2		92,14		701	700	8700				
	1,92	17,4		80,32		701	700	8700				
	2,27	20,6		67,71		701	700	8700				
1043-1271 Nm	1,24	6,7	50	207,14	0,65	1139	1100	13300	İRSD İRSDF	101	166	57 62
	1,31	7,1		195,45		1139	1100	13300				
	1,46	7,9		177,50		1139	1100	13300				
	1,64	8,4	40	165,71	0,67	1243	1100	13300				
	1,74	8,9		156,36		1243	1100	13300				
	1,91	9,8		142,00		1243	1100	13300				
	2,20	11,2	30	124,28	0,68	1271	1100	13300				
	2,36	12		117,27		1271	1100	13300				
	2,56	13		106,50		1271	1100	13300				
	2,76	14		99,99		1271	1100	13300				

n_1 = 1400 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
1043-1271 Nm	2,41	16,9	20	82,85	0,76	1043	1100	13300	İRSD İRSDF	101	166	57
	2,56	17,9		78,18		1043	1100	13300				62
	2,81	19,7		71,00		1043	1100	13300				
	4,21	29,5		47,40		1043	1100	13300				
	3,25	22,5	15	62,14	0,77	1067	1100	13300				
	3,43	23,8		58,63		1067	1100	13300				
	3,80	26,3		53,25		1067	1100	13300				
	4,04	28		50,00		1067	1100	13300				
2123-2323 Nm	2,17	6,5	52	213,20	0,67	2123	1550	18800	İRSD İRSDF	126	168	90
	2,34	7		200,56		2123	1550	18800				98
	2,47	7,4		189,07		2123	1550	18800				
	3,15	9	40	154,28	0,68	2259	1550	18800				
	3,36	9,6		145,44		2259	1550	18800				
	4,01	11,3	32	123,42	0,69	2323	1550	18800				
	4,26	12		116,35		2323	1550	18800				
	5,32	15		93,53		2323	1550	18800				
	5,85	16,5		84,54		2323	1550	18800				
	7,09	20		70,65		2323	1550	18800				
	8,08	22,8		61,53		2323	1550	18800				
	9,57	27		51,84		2323	1550	18800				
	10,64	30		46,43		2323	1550	18800				
2823-4479 Nm	2,11	4,2	111	333,00	0,56	2676	2120	22000	İRSD İRSDF	161	170	160
	2,31	4,6		300,11		2676	2120	22000				170
	2,56	5,1		271,75		2676	2120	22000				
	3,44	5,4	54	261,00	0,68	4117	2120	22000				
	3,83	6		235,22		4117	2120	22000				
	4,14	6,5		213,00		4117	2120	22000				
	4,59	7,2		193,64		4117	2120	22000				
	3,59	6,9	87	203,14	0,57	2823	2120	22000				
	4,00	7,7		180,78		2823	2120	22000				
	4,47	8,6		162,00		2823	2120	22000				
	4,99	9,6		146,00		2823	2120	22000				
	5,51	10,6		132,20		2823	2120	22000				
	6,03	11,6		120,19		2823	2120	22000				
	7,20	11,1	42	126,00	0,68	4191	2120	22000				
	7,98	12,3		113,55		4191	2120	22000				
	8,83	13,6		102,82		4191	2120	22000				
	9,73	15		93,48		4191	2120	22000				
	10,64	16,4		85,27		4191	2120	22000				
	11,68	18		78,00		4191	2120	22000				
	12,72	19,6		71,51		4191	2120	22000				
	13,82	21,3		65,69		4191	2120	22000				
	15,29	23	30	60,90	0,71	4479	2120	22000				
	16,62	25		55,71		4479	2120	22000				
	18,21	27,4		51,08		4479	2120	22000				
	19,94	30		46,92		4479	2120	22000				
	27,65	41,6		33,65		4479	2120	22000				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
211-335 Nm	0,13	3	82	292,85	0,51	215	420	6000	İRSD İRSDF	64	162	13 15
	0,15	3,3		275,81		215	420	6000				
	0,15	3,5		260,26		215	420	6000				
	0,17	3,8		232,88		215	420	6000				
	0,18	4		220,76		215	420	6000				
	0,18	4,1	62	221,42	0,49	211	420	6000				
	0,19	4,3		208,54		211	420	6000				
	0,21	4,6		196,78		211	420	6000				
	0,25	5	50	178,57	0,60	291	420	6000				
	0,28	5,4		168,18		291	420	6000				
	0,29	5,7		158,69		291	420	6000				
	0,34	6,7		134,61		291	420	6000				
	0,36	6,5	39	139,28	0,64	335	420	6000				
	0,38	6,9		131,18		335	420	6000				
	0,40	7,3		123,78		335	420	6000				
	0,44	8		110,76		335	420	6000				
	0,45	8,4	30	107,14	0,63	320	420	6000				
	0,48	9		100,90		320	420	6000				
	0,51	9,5		95,21		320	420	6000				
	0,59	11		80,76		320	420	6000				
	0,83	15,5		57,27		320	420	6000				
	0,93	17,5		51,25		320	420	6000				
584-701 Nm	0,45	4,5	53	198,75	0,64	606	700	8950	İRSD İRSDF	81	164	24 27
	0,48	4,8		188,68		606	700	8950				
	0,50	5		179,38		606	700	8950				
	0,52	5,3	40	170,90	0,62	584	700	8950				
	0,59	6		150,00		584	700	8950				
	0,62	6,3		142,40		584	700	8950				
	0,65	6,6		135,38		584	700	8950				
	0,77	7	30	128,18	0,67	701	700	8950				
	0,88	8		112,50		701	700	8950				
	0,99	9		101,53		701	700	8950				
	1,10	10		92,14		701	700	8950				
	1,21	11		80,32		701	700	8950				
	1,43	13		67,71		701	700	8950				
1043-1271 Nm	0,79	4,3	50	207,14	0,65	1139	1100	14100	İRSD İRSDF	101	166	57 62
	0,85	4,6		195,45		1139	1100	14100				
	0,92	5		177,50		1139	1100	14100				
	1,05	5,4	40	165,71	0,67	1243	1100	14100				
	1,17	6		147,82		1243	1100	14100				
	1,31	6,7		133,33		1243	1100	14100				
	1,76	9		100,00		1243	1100	14100				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
1043-1271 Nm	1,38	7	30	124,28	0,68	1271	1100	14100	İRSD İRSDF	101	166	57 62
	1,54	7,8		117,27		1271	1100	14100				
	1,67	8,5		106,50		1271	1100	14100				
	1,77	9		99,99		1271	1100	14100				
	2,36	12		75,00		1271	1100	14100				
	2,48	12,6		71,11	0,68	1271	1100	14100				
	3,35	17		52,72		1271	1100	14100				
	1,57	11	20	82,85	0,76	1043	1100	14100				
	1,64	11,5		78,18		1043	1100	14100				
	1,81	12,7		71,00		1043	1100	14100				
	2,71	19		47,40		1043	1100	14100				
	2,09	14,5	15	62,14	0,77	1067	1100	14100				
	2,21	15,3		58,63		1067	1100	14100				
	2,45	17		53,25		1067	1100	14100				
	2,60	18		50,00		1067	1100	14100				
1963-2323 Nm	1,40	4,2	52	213,20	0,67	2123	1550	19600	İRSD İRSDF	126	168	90 98
	1,50	4,5		200,56		2123	1550	19600				
	1,57	4,7		189,07		2123	1550	19600				
	1,97	5,9		151,99		2123	1550	19600				
	2,03	5,8	40	154,28	0,68	2259	1550	19600				
	2,17	6,2		145,44		2259	1550	19600				
	2,59	7,3	32	123,42	0,69	2323	1550	19600				
	2,73	7,7		116,35		2323	1550	19600				
	3,37	9,5		93,53		2323	1550	19600				
	3,72	10,5		84,54		2323	1550	19600				
	4,61	13		70,65		2323	1550	19600				
	5,14	14,5		61,53		2323	1550	19600				
	6,21	17,5		51,84		2323	1550	19600				
	6,84	19,3		46,43		2323	1550	19600				
	7,62	21,5		41,69		2323	1550	19600				
	8,08	22,8		39,52		2323	1550	19600				
	6,72	25,5	16	35,33	0,78	1973	1550	19600				
	7,64	29		30,76		1973	1550	19600				
	8,17	31		29,03		1973	1550	19600				
	9,14	34,7		25,93		1973	1550	19600				
2676-4479 Nm	1,35	2,7	111	333,00	0,56	2676	2120	22790	İRSD İRSDF	161	170	160 170
	1,50	3		300,11		2676	2120	22790				
	1,66	3,3		271,75		2676	2120	22790				
	1,81	3,6		247,06		2676	2120	22790				
	1,77	3,4	87	261,00	0,57	2823	2120	22790				
	1,98	3,8		235,22		2823	2120	22790				
	2,18	4,2		213,00		2823	2120	22790				
	2,39	4,6		193,64		2823	2120	22790				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
2676-4479 Nm	2,81	4,4	54	203,14	0,68	4117	2120	22790	İRSD İRSDF	161	170	160 170
	3,19	5		180,78		4117	2120	22790				
	3,51	5,5		162,00		4117	2120	22790				
	3,83	6		146,00		4117	2120	22790				
	4,34	6,8		132,20		4117	2120	22790				
	4,78	7,5		120,19		4117	2120	22790				
	4,61	7,1	42	126,00	0,68	4191	2120	22790				
	5,19	8		113,55		4191	2120	22790				
	5,71	8,8		102,82		4191	2120	22790				
	6,17	9,5		93,48	0,68	4191	2120	22790				
	6,81	10,5		85,27		4191	2120	22790				
	7,46	11,5		78,00		4191	2120	22790				
	8,11	12,5		71,51		4191	2120	22790				
	8,89	13,7		65,69		4191	2120	22790				
	9,84	14,8	30	60,90	0,71	4479	2120	22790				
	10,64	16		55,71		4479	2120	22790				
	11,63	17,5		51,08		4479	2120	22790				
	12,63	19		46,92		4479	2120	22790				
	17,75	26,7		33,65		4479	2120	22790				

n_1 = 900 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
215-335 Nm	0,11	2,4	82	292,85	0,51	215	420	6140	İRSD İRSDF	64	162	13 15
	0,11	2,5		275,81	0,51	215	420	6140				
	0,12	2,7		260,26	0,51	215	420	6140				
	0,13	3		232,88	0,51	215	420	6140				
	0,14	3,2	62	221,42	0,49	211	420	6140				
	0,15	3,4		208,54	0,49	211	420	6140				
	0,16	3,5		196,28	0,49	211	420	6140				
	0,20	4	50	178,57	0,60	291	420	6140				
	0,21	4,2		168,18	0,60	291	420	6140				
	0,22	4,4		158,69	0,60	291	420	6140				
	0,27	5,2		134,61	0,60	291	420	6140				
	0,28	5	39	139,28	0,64	335	420	6140				
	0,29	5,3		131,18	0,64	335	420	6140				
	0,31	5,7		123,78	0,64	335	420	6140				
	0,35	6,3		110,76	0,64	335	420	6140				
	0,35	6,5	30	107,14	0,63	320	420	6140				
	0,37	7		100,90	0,63	320	420	6140				
	0,39	7,3		95,21	0,63	320	420	6140				
	0,43	8		85,20	0,63	320	420	6140				
	0,46	8,7		80,76	0,63	320	420	6140				
	0,64	12		57,20	0,63	320	420	6140				
	0,72	13,5		51,25	0,63	320	420	6140				
584-701 Nm	0,30	3	53	226,45	0,64	606	700	9400	İRSD İRSDF	81	164	24 27
	0,35	3,5		198,75	0,64	606	700	9400				
	0,37	3,7		188,68	0,64	606	700	9400				
	0,40	4		179,38	0,64	606	700	9400				
	0,40	4	40	170,91	0,62	584	700	9400				
	0,45	4,5		150,00	0,62	584	700	9400				
	0,50	5		142,40	0,62	584	700	9400				
	0,61	5,5	30	128,18	0,67	701	700	9400				
	0,66	6		112,50	0,67	701	700	9400				
	0,77	7		101,53	0,67	701	700	9400				
	0,83	7,5		92,14	0,67	701	700	9400				
	0,94	8,5		80,32	0,67	701	700	9400				
	1,10	10		67,71	0,67	701	700	9400				
1043-1271 Nm	0,63	3,4	50	207,14	0,65	1139	1100	14700	İRSD İRSDF	101	166	57 62
	0,66	3,6		195,45	0,65	1139	1100	14700				
	0,74	4		177,50	0,65	1139	1100	14700				
	0,78	4	40	165,71	0,67	1243	1100	14700				
	0,88	4,5		156,36	0,67	1243	1100	14700				
	0,98	5		142,00	0,67	1243	1100	14700				

n_1 = 700 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
1043-1271 Nm	1,08	5,5	30	124,28	0,68	1271	1100	14700	İRSD İRSDF	101	166	57 62
	1,18	6		117,27	0,68	1271	1100	14700				
	1,28	6,5		106,50	0,68	1271	1100	14700				
	1,38	7		99,99	0,68	1271	1100	14700				
	1,21	8,5	20	82,85	0,76	1043	1100	14700				
	1,29	9		78,18	0,76	1043	1100	14700				
	1,43	10		71,00	0,76	1043	1100	14700				
	2,14	15		47,40	0,76	1043	1100	14700				
	1,59	11	15	62,14	0,77	1067	1100	14700				
	1,73	12		58,63	0,77	1067	1100	14700				
	1,88	13		53,26	0,77	1067	1100	14700				
	2,02	14		50,00	0,77	1067	1100	14700				
1973-2323 Nm	1,10	3,3	52	213,20	0,67	2123	1550	20200	İRSD İRSDF	126	168	90 98
	1,17	3,5		200,56	0,67	2123	1550	20200				
	1,23	3,7		189,07	0,67	2123	1550	20200				
	1,57	4,5	40	154,28	0,68	2259	1550	20200				
	1,68	4,8		145,44	0,68	2259	1550	20200				
	1,95	5,5	32	123,42	0,69	2323	1550	20200				
	2,13	6		116,34	0,69	2323	1550	20200				
	2,66	7,5		93,53	0,69	2323	1550	20200				
	2,84	8		84,54	0,69	2323	1550	20200				
	3,55	10		70,65	0,69	2323	1550	20200				
	3,90	11		61,53	0,69	2323	1550	20200				
	4,79	13,5		51,84	0,69	2323	1550	20200				
	5,32	15		46,43	0,69	2323	1550	20200				
	6,03	17		41,69	0,69	2323	1550	20200				
	6,38	18		39,52	0,69	2323	1550	20200				
	5,27	20	16	35,33	0,78	1973	1550	20200				
	6,06	23		30,76	0,78	1973	1550	20200				
	6,32	24		29,03	0,78	1973	1550	20200				
	7,11	27		25,93	0,78	1973	1550	20200				
2676-4479 Nm	1,05	2,1	111	333,00	0,56	2676	2120	23600	İRSD İRSDF	161	170	160 170
	1,15	2,3		300,11	0,56	2676	2120	23600				
	1,25	2,5		271,75	0,56	2676	2120	23600				
	1,40	2,7	87	261,00	0,57	2823	2120	23600				
	1,56	3		235,22	0,57	2823	2120	23600				
	1,72	3,3		213,00	0,57	2823	2120	23600				
	1,87	3,6		193,64	0,57	2823	2120	23600				
	2,17	3,4	54	203,14	0,68	4117	2120	23600				
	2,49	3,9		180,78	0,68	4117	2120	23600				
	2,74	4,3		162,00	0,68	4117	2120	23600				
	3,06	4,8		146,00	0,68	4117	2120	23600				
	3,38	5,3		132,20	0,68	4117	2120	23600				
	3,70	5,8		120,19	0,68	4117	2120	23600				

n_1 = 700 d/d

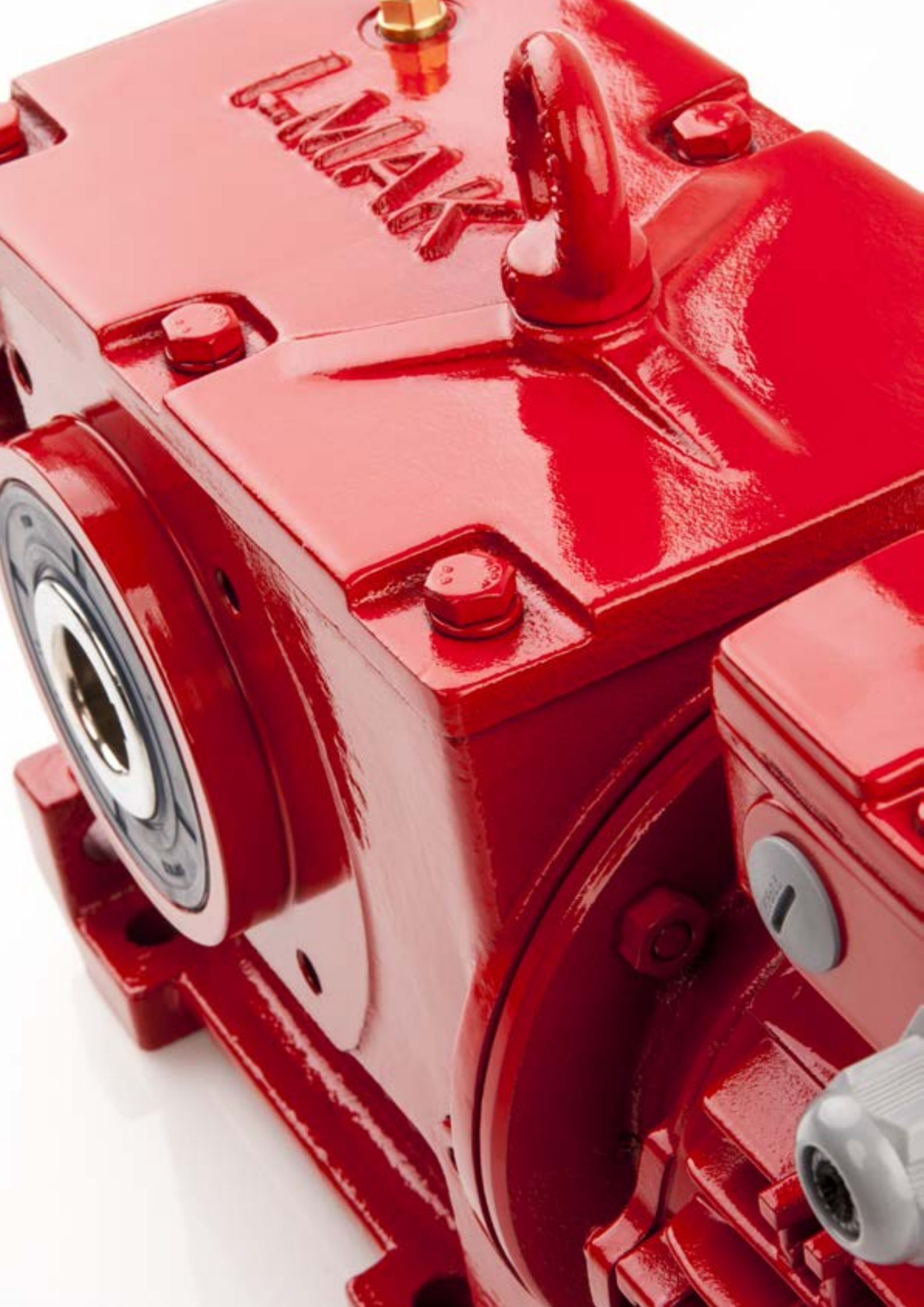
Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			 kg
2676-4479 Nm	3,57	5,5	42	126,00	0,68	4191	2120	23600	İRSD İRSDF	161	170	160 170
	3,89	6		113,55	0,68	4191	2120	23600				
	4,41	6,8		102,82	0,68	4191	2120	23600				
	4,87	7,5		93,48	0,68	4191	2120	23600				
	5,32	8,2		85,20	0,68	4191	2120	23600				
	5,84	9		78,00	0,68	4191	2120	23600				
	6,49	10		71,51	0,68	4191	2120	23600				
	6,88	10,6		65,69	0,68	4191	2120	23600				
	7,64	11,5	30	60,90	0,71	4479	2120	23600				
	8,31	12,5		55,71	0,71	4479	2120	23600				
	8,97	13,5		51,08	0,71	4479	2120	23600				
	9,97	15		46,92	0,71	4479	2120	23600				
	13,96	21		33,65	0,71	4479	2120	23600				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
211-335 Nm	0,07	1,54	82	292,85	0,51	215	420	6250	İRSD İRSDF	64	162	13 15
	0,07	1,63		275,81	0,51	215	420	6250				
	0,08	1,73		260,26	0,51	215	420	6250				
	0,09	1,93		232,88	0,51	215	420	6250				
	0,09	2,03	62	221,42	0,49	211	420	6250				
	0,10	2,16		208,54	0,49	211	420	6250				
	0,10	2,29		196,78	0,49	211	420	6250				
	0,13	2,52	50	178,57	0,60	291	420	6250				
	0,14	2,68		168,18	0,60	291	420	6250				
	0,14	2,84		158,69	0,60	291	420	6250				
	0,17	3,34		134,61	0,60	291	420	6250				
	0,18	3,23	39	139,28	0,64	335	420	6250				
	0,19	3,43		131,18	0,64	335	420	6250				
	0,20	3,64		123,78	0,64	335	420	6250				
	0,22	4,06		110,76	0,64	335	420	6250				
	0,22	4,20	30	107,14	0,63	320	420	6250				
	0,24	4,46		100,90	0,63	320	420	6250				
	0,25	4,73		95,21	0,63	320	420	6250				
	0,28	5,28		85,20	0,63	320	420	6250				
	0,30	5,57		80,76	0,63	320	420	6250				
	0,42	7,86		57,27	0,63	320	420	6250				
	0,47	8,78		51,25	0,63	320	420	6250				
584-701 Nm	0,20	1,99	53	226,45	0,64	606	700	10000	İRSD İRSDF	81	164	24 27
	0,23	2,26		198,75	0,64	606	700	10000				
	0,24	2,38		188,68	0,64	606	700	10000				
	0,25	2,51		179,38	0,64	606	700	10000				
	0,20	1,99	40	226,45	0,62	584	700	10000				
	0,22	2,26		198,75	0,62	584	700	10000				
	0,31	3,16		142,40	0,62	584	700	10000				
	0,39	3,51	30	128,18	0,67	701	700	10000				
	0,44	4,00		112,50	0,67	701	700	10000				
	0,49	4,43		101,53	0,67	701	700	10000				
	0,54	4,88		92,14	0,67	701	700	10000				
	0,62	5,60		80,32	0,67	701	700	10000				
	0,73	6,65		67,71	0,67	701	700	10000				
1043-1271 Nm	0,40	2,17	50	207,14	0,65	1139	1100	15500	İRSD İRSDF	101	166	57 62
	0,42	2,30		195,45	0,65	1139	1100	15500				
	0,47	2,54		177,50	0,65	1139	1100	15500				
	0,53	2,72	40	165,71	0,67	1243	1100	15500				
	0,56	2,88		156,36	0,67	1243	1100	15500				
	0,62	3,17		142,00	0,67	1243	1100	15500				
	0,71	3,62	30	124,28	0,68	1271	1100	15500				
	0,76	3,84		117,27	0,68	1271	1100	15500				
	0,83	4,23		106,50	0,68	1271	1100	15500				
	0,89	4,50		99,99	0,68	1271	1100	15500				

n_1 = 450 d/d

Servis Faktörü Service Factor *Service Facteur Sf = 1*	P1 GÜÇ Power *Puissance* [kW] Hp	n_2 Çıkış Devri Output Speeds *Vitesse de sortie* [r.p.m]	i_s Sonsuz V. Tahvili Worm Ratio *Rapport de réduction*	i_t Toplam Tahvil Total Ratio *Rapport de réduction total*	η Verim Efficiency *efficience* [%]	M_2 Çıkış Momenti Output Torque *Couple de sortie* [Nm]	F_{Q1} Rad. Yük Over Loads *Charges radiales* [N]	F_{Qlo} Rad. Yük Over Loads *Charges radiales* [N]	Tip Type			kg
1043-1271 Nm	0,78	5,43	20	82,85	0,76	1043	1100	15500	İRSD İRSDF	101	166	57
	0,82	5,76		78,18	0,76	1043	1100	15500				62
	0,91	6,34		71,00	0,76	1043	1100	15500				
	1,36	9,49		47,40	0,76	1043	1100	15500				
	1,05	7,24	15	62,14	0,77	1067	1100	15500				
	1,11	7,68		58,63	0,77	1067	1100	15500				
	1,22	8,45		53,25	0,77	1067	1100	15500				
	1,30	9,00		50,00	0,77	1067	1100	15500				
2123-2323 Nm	0,70	2,11	52	213,20	0,67	2123	1550	21500	İRSD İRSDF	126	168	90
	0,75	2,24		200,56	0,67	2123	1550	21500				98
	0,79	2,38		189,07	0,67	2123	1550	21500				
	1,02	2,92	40	154,28	0,68	2259	1550	21500				
	1,08	3,09		145,44	0,68	2259	1550	21500				
	1,29	3,65	32	123,42	0,69	2323	1550	21500				
	1,37	3,87		116,35	0,69	2323	1550	21500				
	1,71	4,81		93,53	0,69	2323	1550	21500				
	1,89	5,32		84,54	0,69	2323	1550	21500				
	2,26	6,37		70,65	0,69	2323	1550	21500				
	2,59	7,31		61,53	0,69	2323	1550	21500				
	3,08	8,68		51,84	0,69	2323	1550	21500				
	3,44	9,69		46,43	0,69	2323	1550	21500				
2676-4479 Nm	0,68	1,35	111	333,00	0,56	2676	2120	25500	İRSD İRSDF	161	170	160
	0,75	1,50		300,11	0,56	2676	2120	25500				170
	0,83	1,66		271,75	0,56	2676	2120	25500				
	0,90	1,72	87	261,00	0,57	2823	2120	25500				
	0,99	1,91		235,22	0,57	2823	2120	25500				
	1,10	2,11		213,00	0,57	2823	2120	25500				
	1,21	2,32		193,64	0,57	2823	2120	25500				
	1,41	2,22	54	203,14	0,68	4117	2120	25500				
	1,59	2,49		180,78	0,68	4117	2120	25500				
	1,77	2,78		162,00	0,68	4117	2120	25500				
	1,96	3,08		146,00	0,68	4117	2120	25500				
	2,17	3,40		132,20	0,68	4117	2120	25500				
	2,39	3,74		120,19	0,68	4117	2120	25500				
	2,32	3,57	42	126,00	0,68	4191	2120	25500				
	2,57	3,96		113,55	0,68	4191	2120	25500				
	2,84	4,38		102,82	0,68	4191	2120	25500				
	3,12	4,81		93,48	0,68	4191	2120	25500				
	3,42	5,28		85,27	0,68	4191	2120	25500				
	3,74	5,77		78,00	0,68	4191	2120	25500				
	4,08	6,29		71,51	0,68	4191	2120	25500				
	4,45	6,85		65,69	0,68	4191	2120	25500				
	4,91	7,39	30	60,90	0,71	4479	2120	25500				
	5,37	8,08		55,71	0,71	4479	2120	25500				
	5,86	8,81		51,08	0,71	4479	2120	25500				
	6,37	9,59		46,92	0,71	4479	2120	25500				
	8,89	13,37		33,65	0,71	4479	2120	25500				

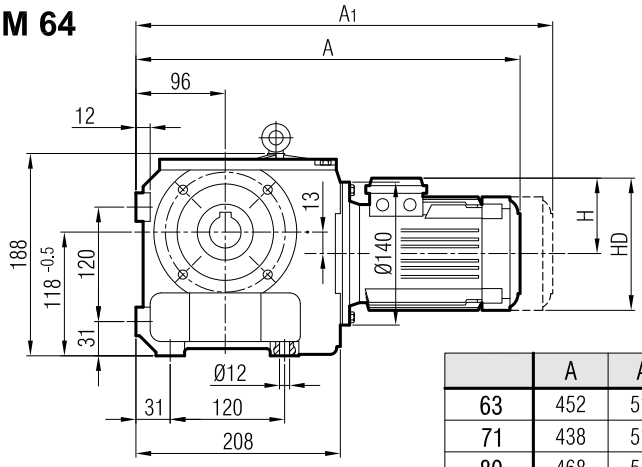

LIMAK

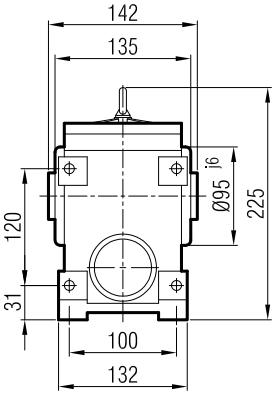
Helisel Sonsuz Vidalı Redüktörler Ölçü Sayfaları

Helical,Worm Gearbox

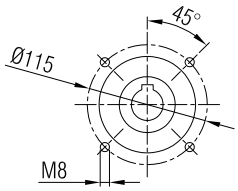
Réducteurs hélicoïdaux à roue et vis sans fin

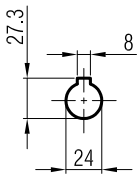
İRSDM 64

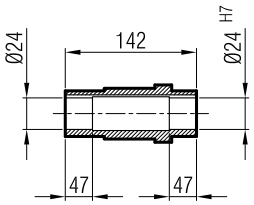




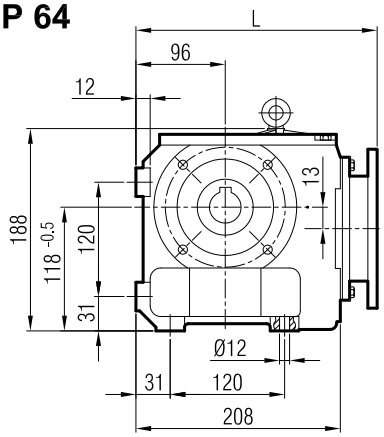
	A	A1	H	HD
63	452	510	99	162
71	438	518	111	182
80	468	558	118	198

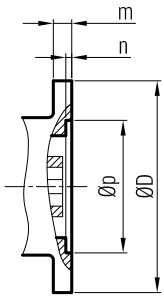


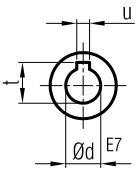


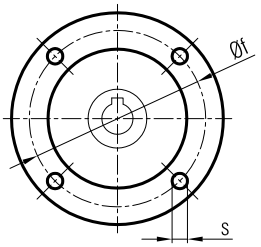


İRSDP 64



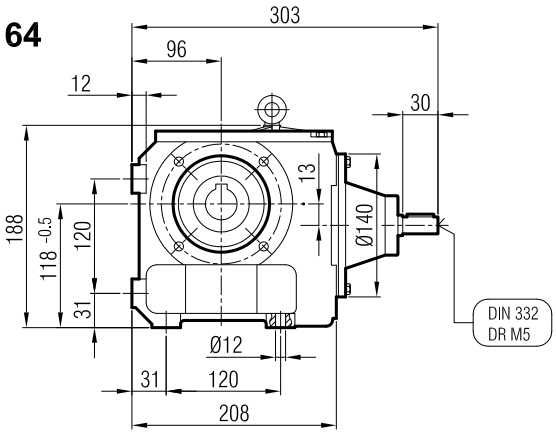


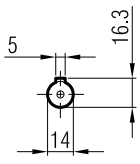


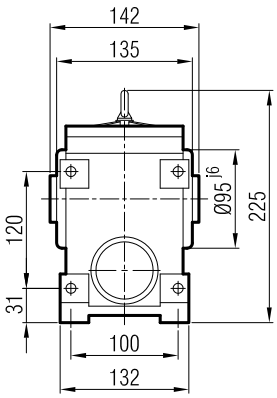


IEC B5	L	m	n	p	f	D	d	t	u	s
63	244	8	4	95	115	140	11	12.8	4	M8
71	252	9	4	110	130	160	14	16.3	5	M8
80	254	12	5	130	165	200	19	21.8	6	M10

İRSD 64

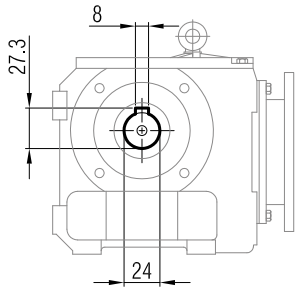




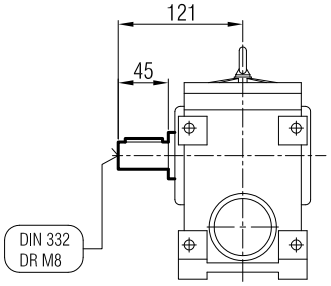


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

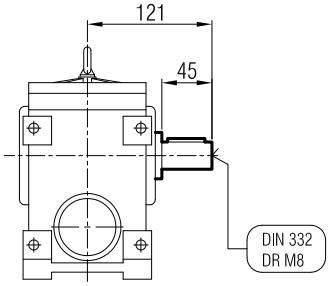
IRSDM / IRSDP / IRSD



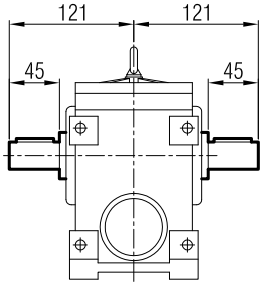
- SR



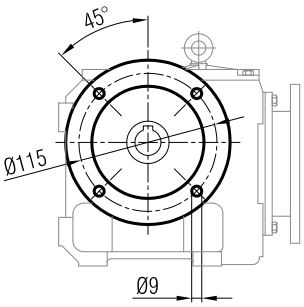
- SL



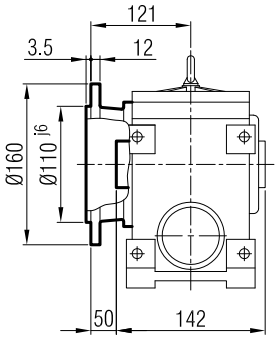
- SD



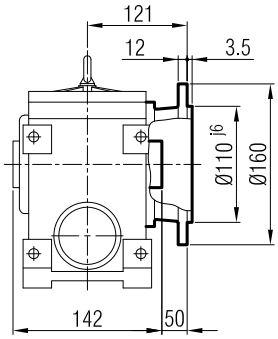
IRSDFM / IRSDFP / IRSDF



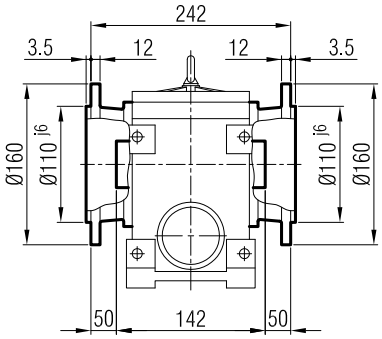
- FR



- FL

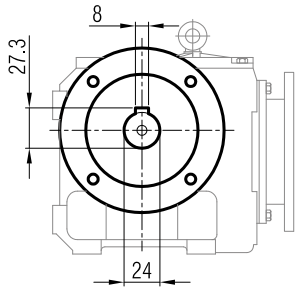


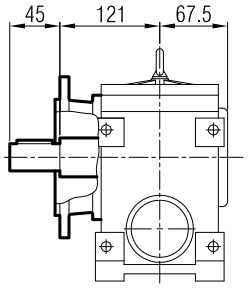
- FD



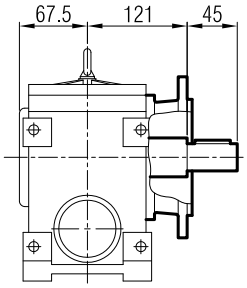
İRSDFM / İRSDFP / İRSDF

- FR - SR

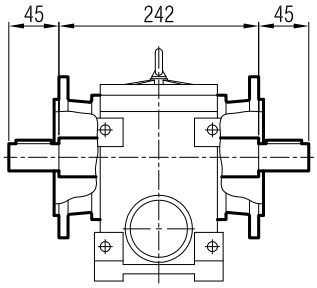




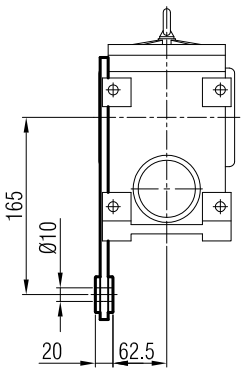
- FL - SL



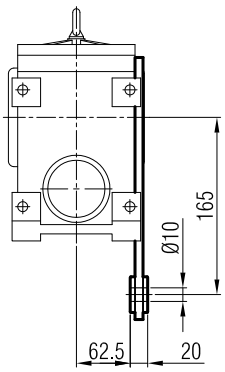
- FD - SD

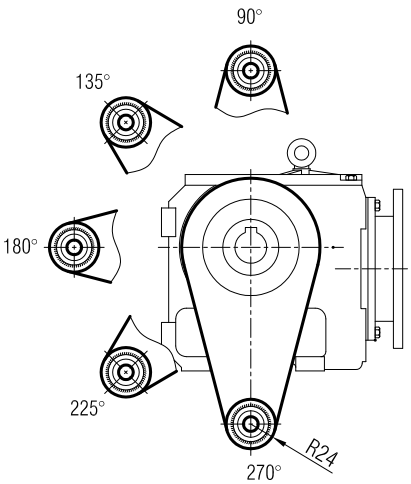


- TR

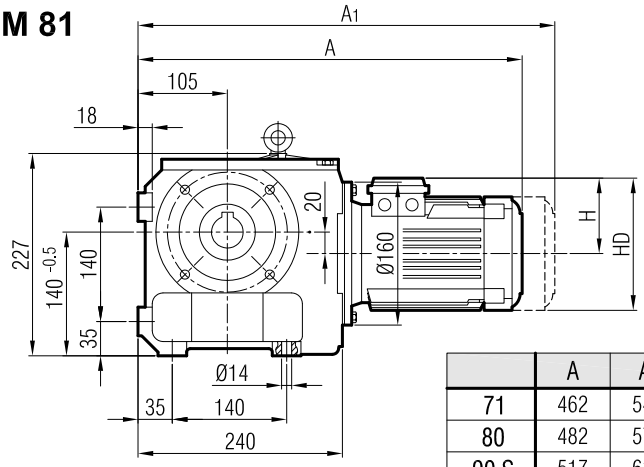


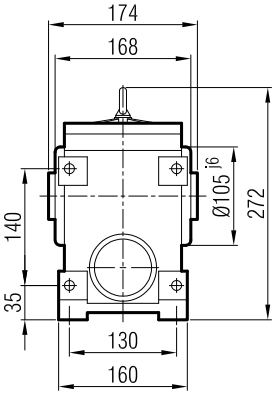
- TL



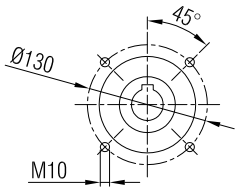


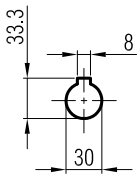
İRSDM 81

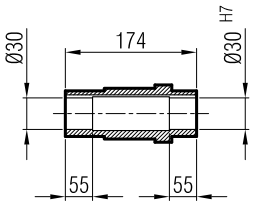




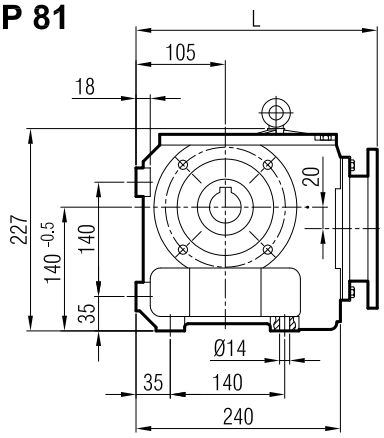
	A	A1	H	HD
71	462	542	111	182
80	482	572	118	198
90 S	517	612	132	222
90 L	542	637	132	222

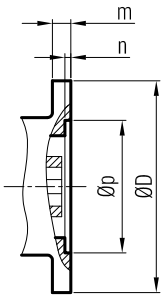


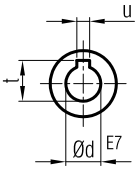


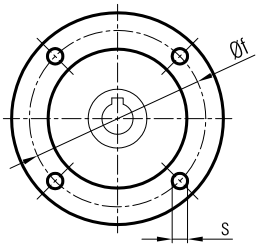


İRSDP 81



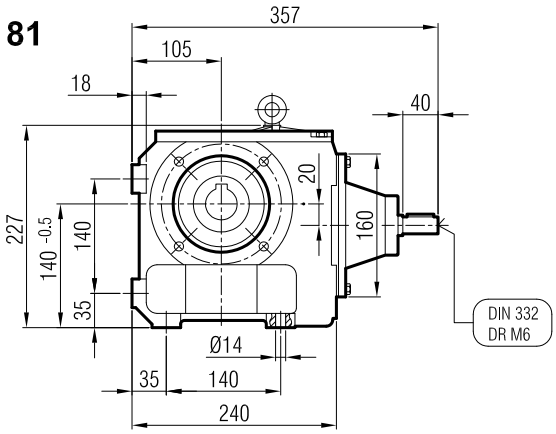


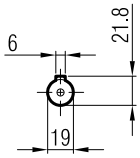


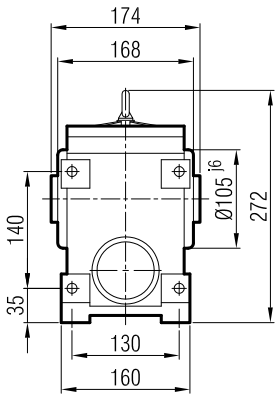


IEC B5	L	m	n	p	f	D	d	t	u	s
71	285	9	4	110	130	160	14	16.3	5	M8
80	290	12	5	130	165	200	19	21.8	6	M10
90	290	12	5	130	165	200	24	27.3	8	M10

İRSD 81

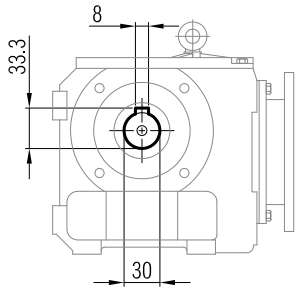




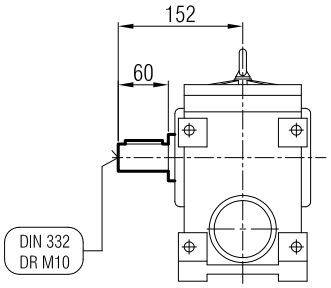


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

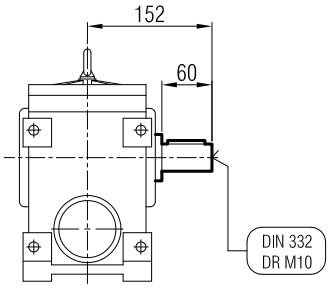
IRSDM / IRSDP / IRSD



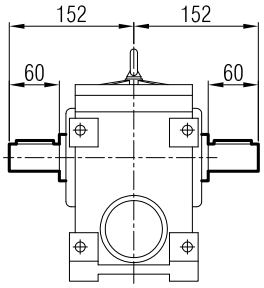
- SR



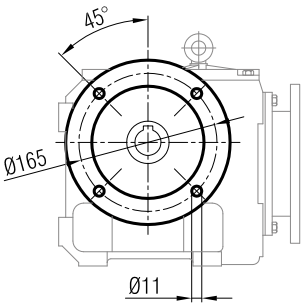
- SL



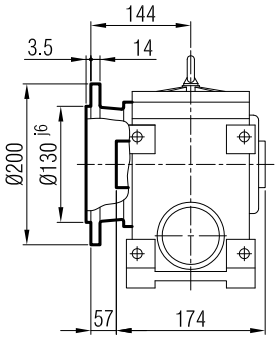
- SD



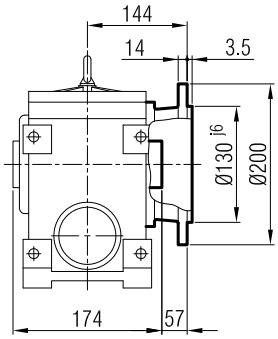
IRSDFM / IRSDFP / IRSDF



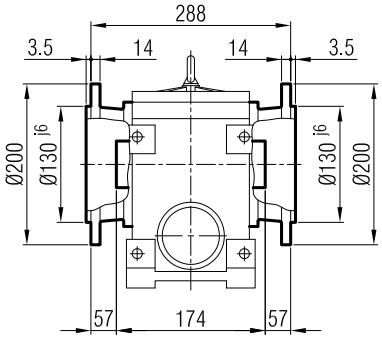
- FR



- FL

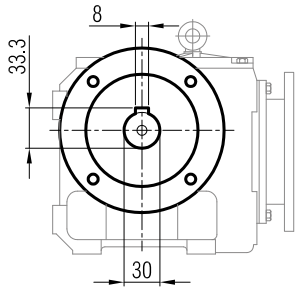


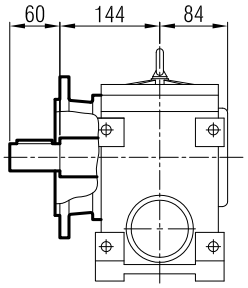
- FD



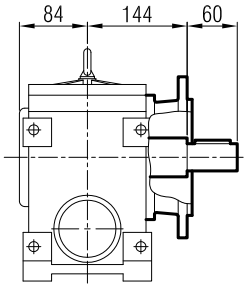
İRSDFM / İRSDFP / İRSDF

- FR - SR

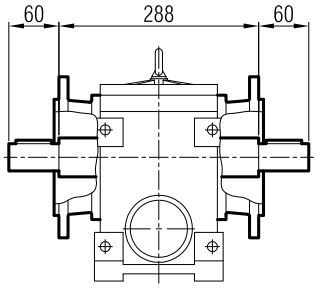




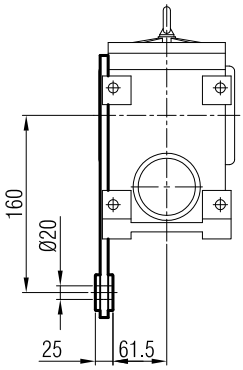
- FL - SL



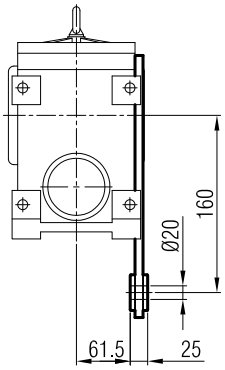
- FD - SD

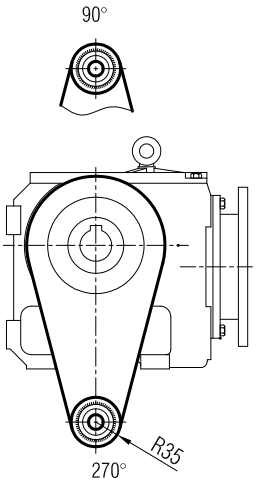


- TR

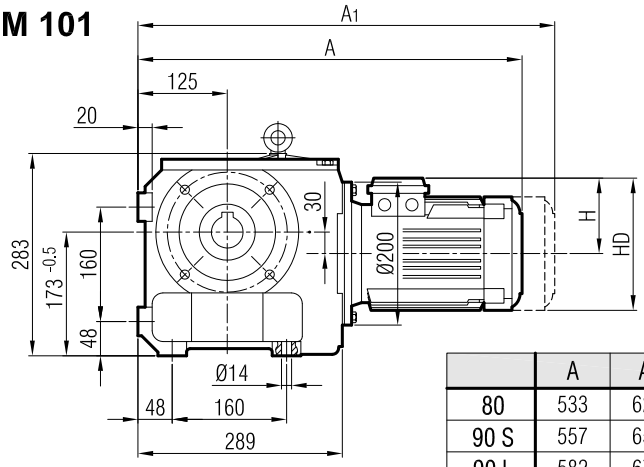


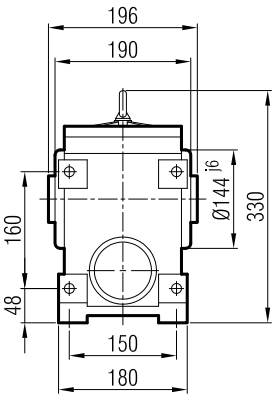
- TL



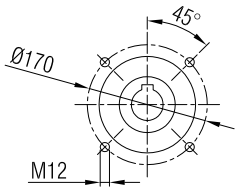


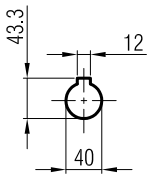
İRSDM 101

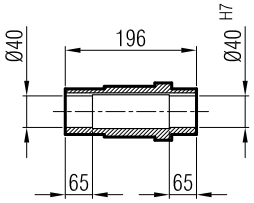




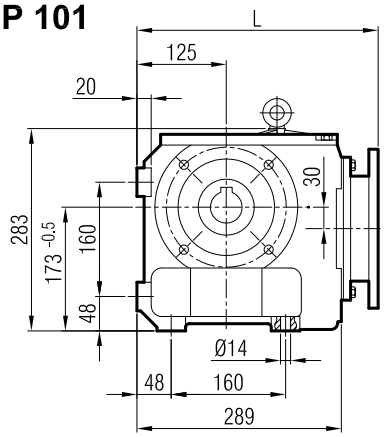
	A	A1	H	HD
80	533	623	118	198
90 S	557	652	132	222
90 L	582	677	132	222
100	624	739	141	241

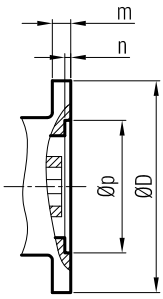


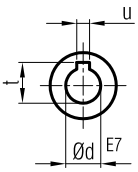


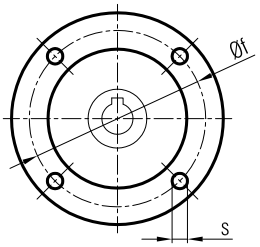


İRSDP 101



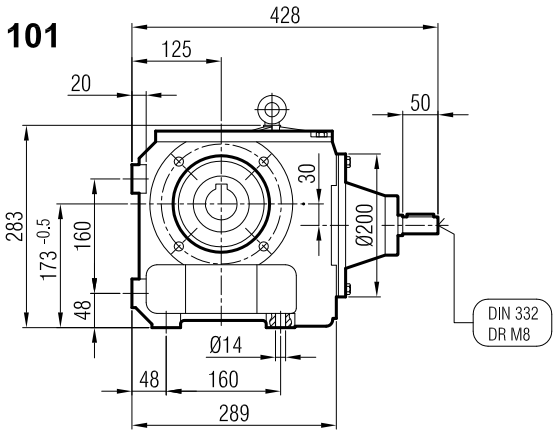


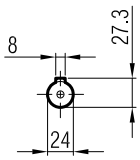


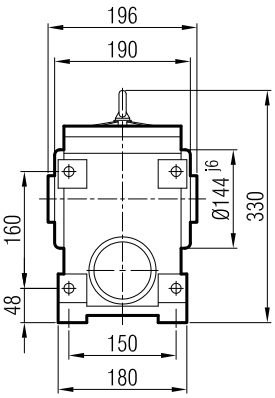


IEC B5	L	m	n	p	f	D	d	t	u	s
80	356	12	5	130	165	200	19	21.8	6	M10
90	356	12	5	130	165	200	24	27.3	8	M10
100	361	14	5	180	215	250	28	31.3	8	M12

İRSD 101

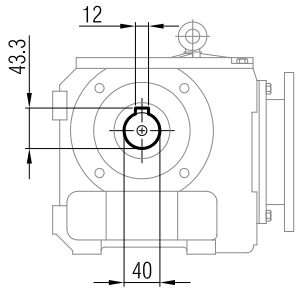




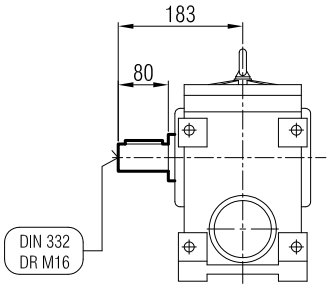


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

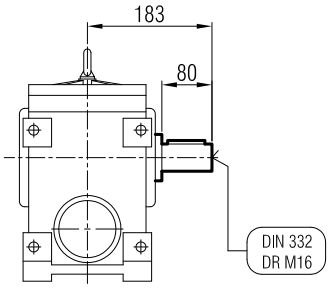
IRSDM / IRSDP / IRSD



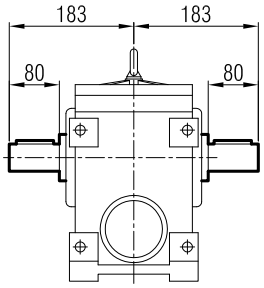
- SR



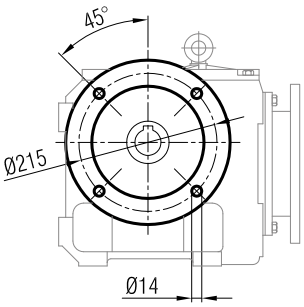
- SL



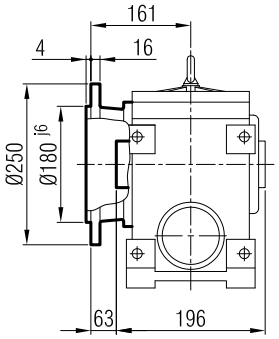
- SD



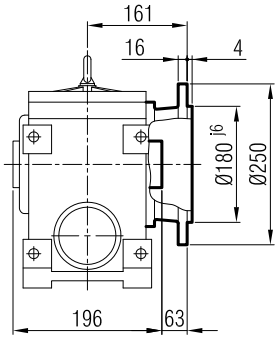
IRSDFM / IRSDFP / IRSDF



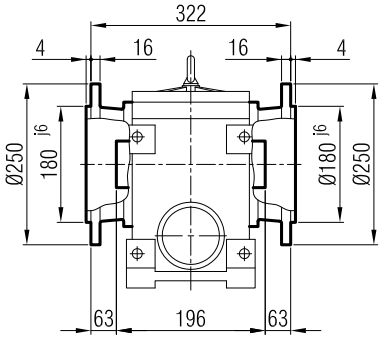
- FR



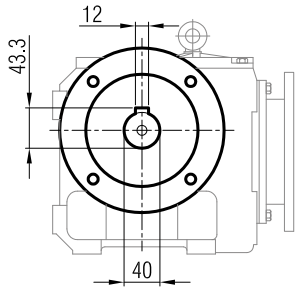
- FL



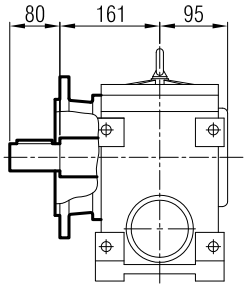
- FD



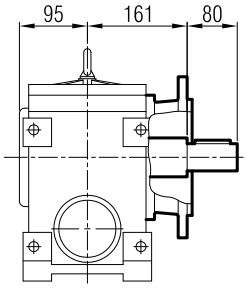
İRSDFM / İRSDFP / İRSDF



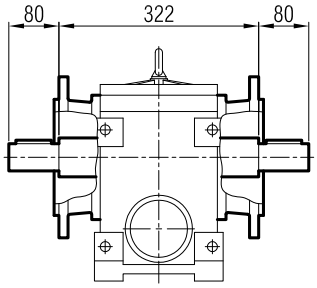
- FR - SR



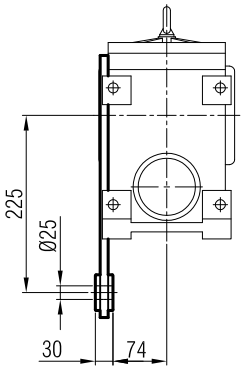
- FL - SL



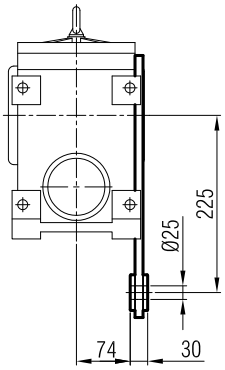
- FD - SD

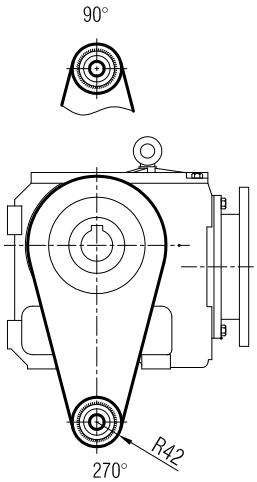


- TR

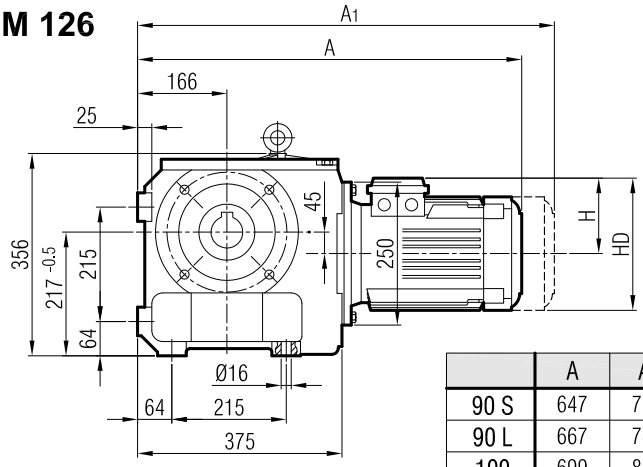


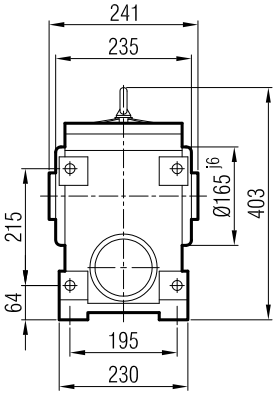
- TL



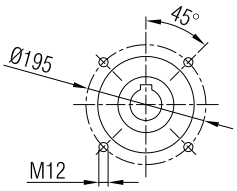


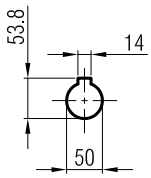
İRSDM 126

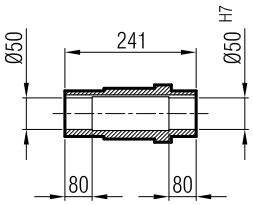




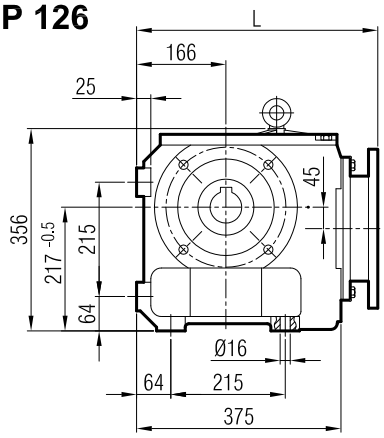
	A	A1	H	HD
90 S	647	727	132	222
90 L	667	747	132	222
100	699	814	141	241
112	721	846	149	261

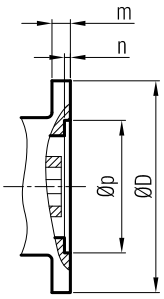


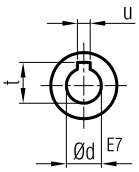


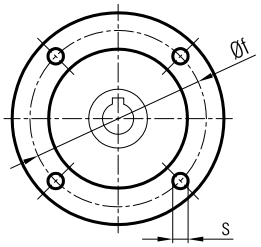


İRSDP 126



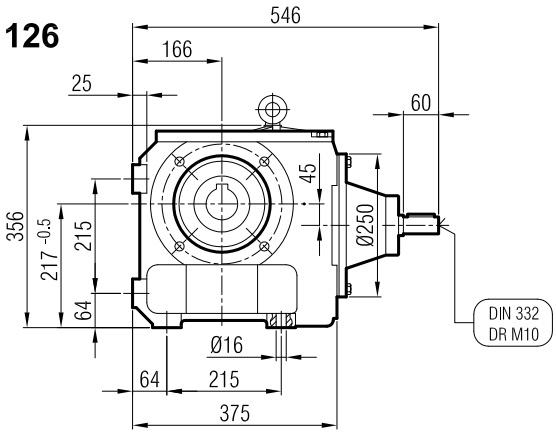


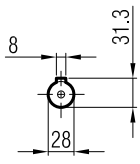


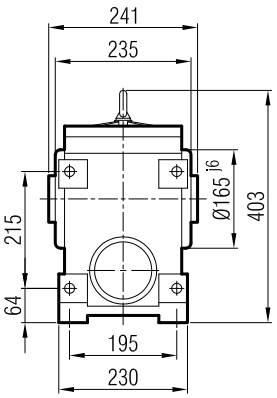


IEC B5	L	m	n	p	f	D	d	t	u	s
90	444	12	5	130	165	200	24	27.3	8	M10
100	449	14	5	180	215	250	28	31.3	8	M12
112	449	14	5	180	215	250	28	31.3	8	M12

İRSD 126

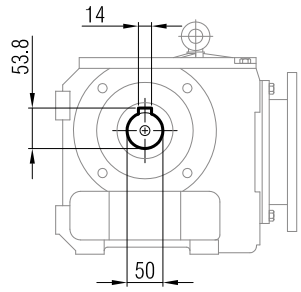




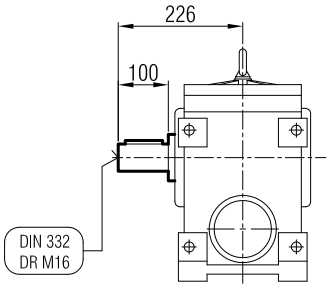


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

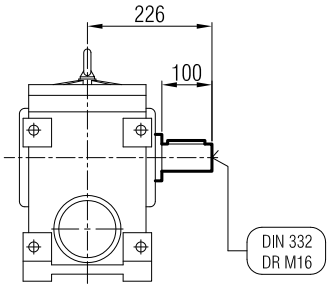
IRSDM / IRSDP / IRSD



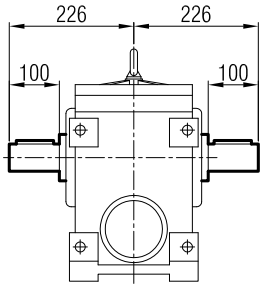
- SR



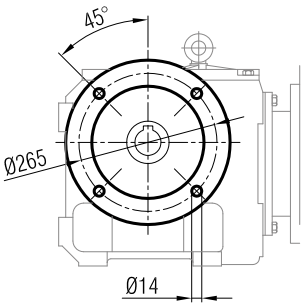
- SL



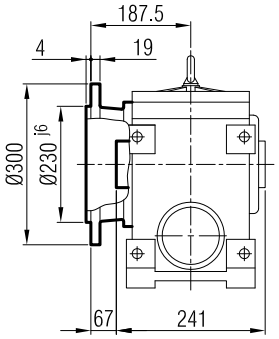
- SD



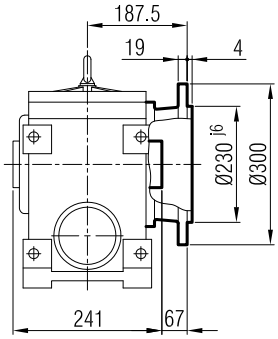
IRSDFM / IRSDFP / IRSDF



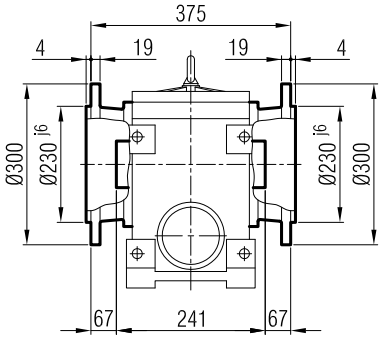
- FR



- FL

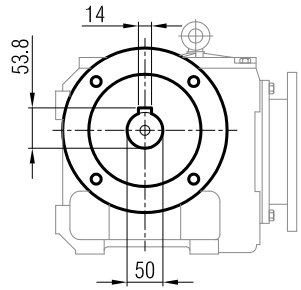


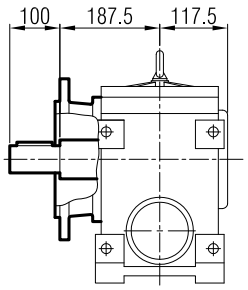
- FD



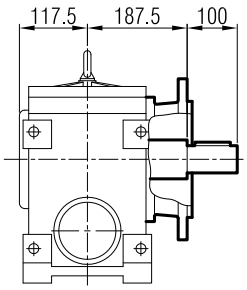
İRSDFM / İRSDFP / İRSDF

- FR - SR

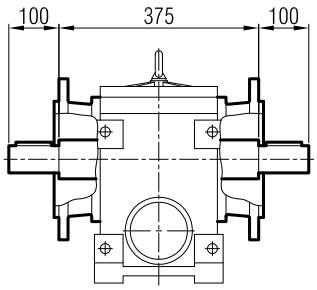




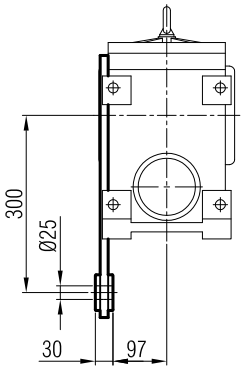
- FL - SL



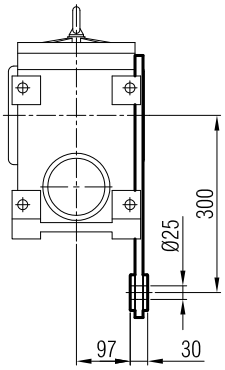
- FD - SD

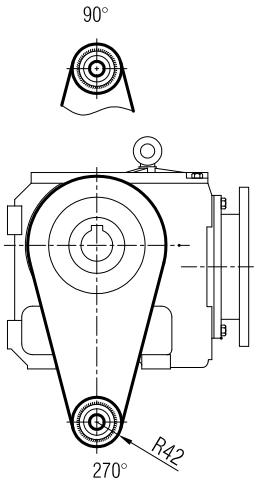


- TR

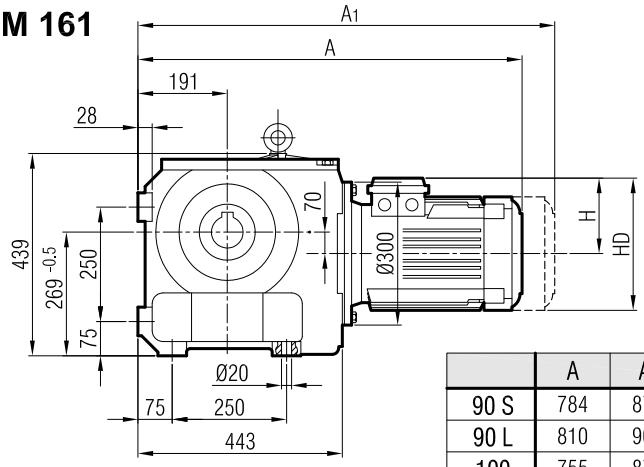


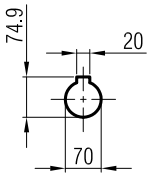
- TL



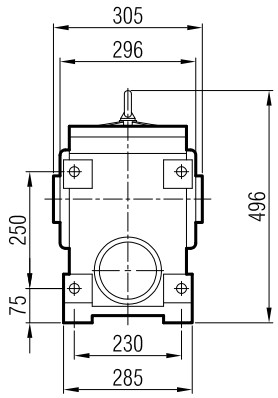


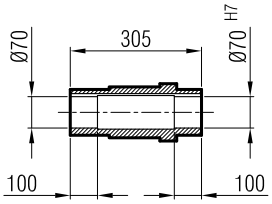
İRSDM 161



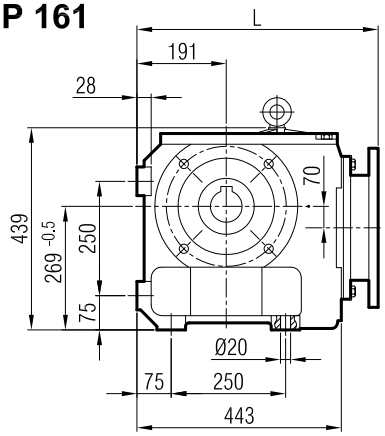


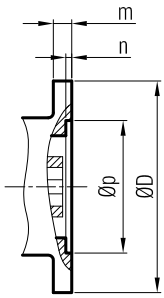
	A	A1	H	HD
90 S	784	879	132	222
90 L	810	905	132	222
100	755	870	141	241
112	778	903	149	261
132 S	825	980	182	314
132 M	871	1030	182	314

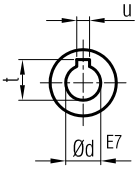


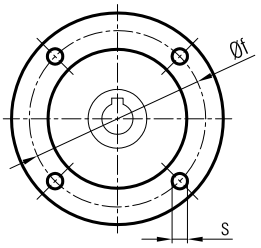


İRSDP 161



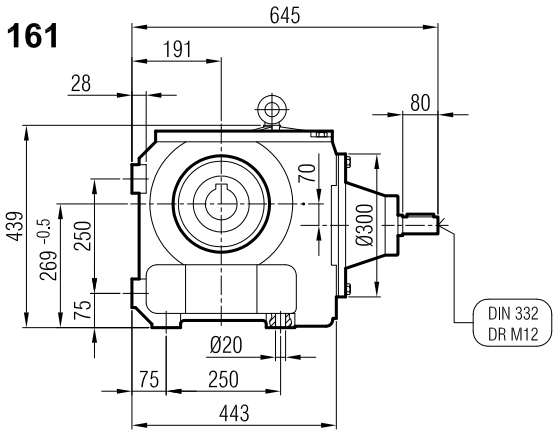


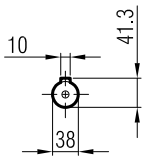


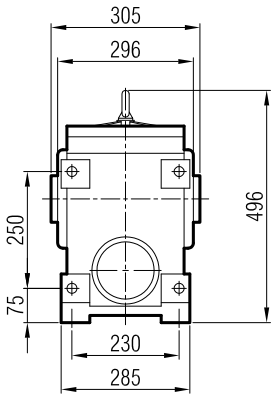


IEC B5	L	m	n	p	f	D	d	t	u	s
90	492	12	5	130	165	200	24	27.3	8	M10
100	501	14	5	180	215	250	28	31.3	8	M12
112	501	14	5	180	215	250	28	31.3	8	M12
132	538	17	6	230	265	300	38	41.3	10	M12

İRSD 161

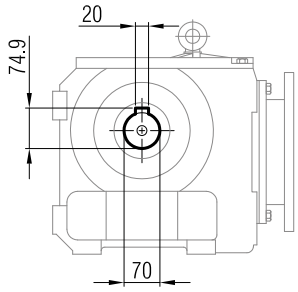




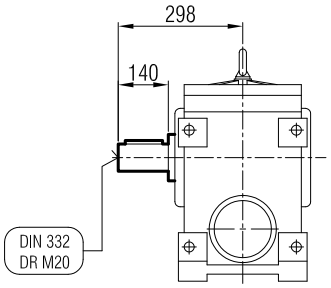


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

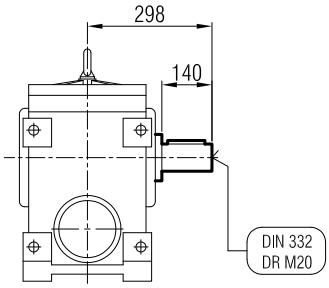
IRSDM / IRSDP / IRSD



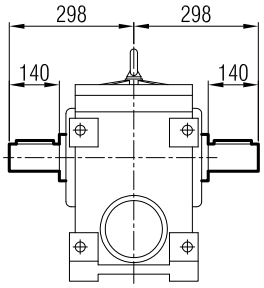
- SR



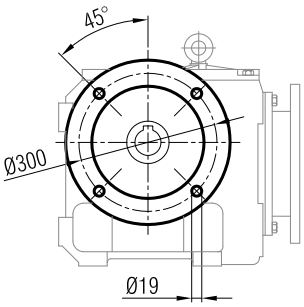
- SL



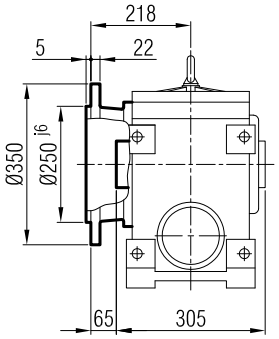
- SD



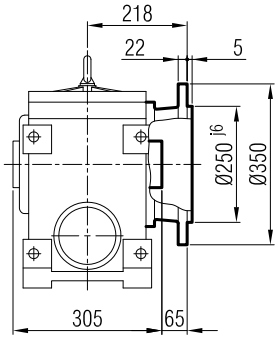
IRSDFM / IRSDFP / IRSDF



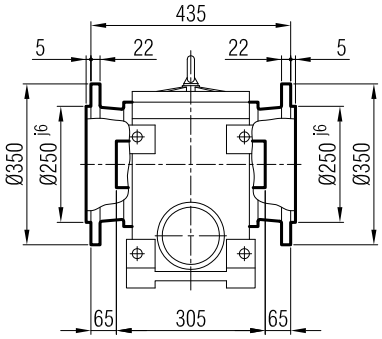
- FR



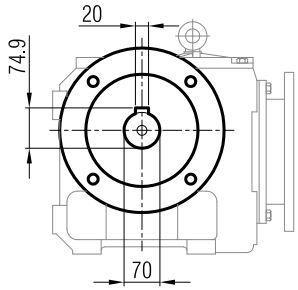
- FL



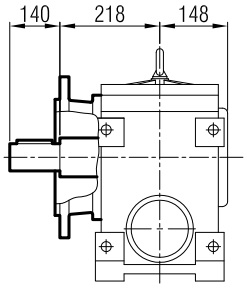
- FD



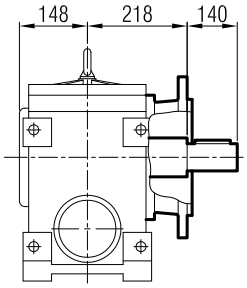
İRSDFM / İRSDFP / İRSDF



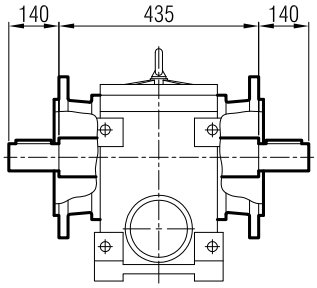
- FR - SR



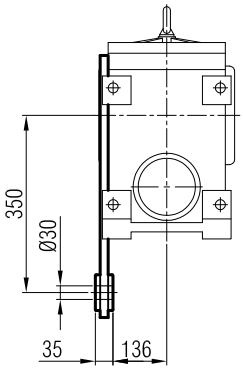
- FL - SL



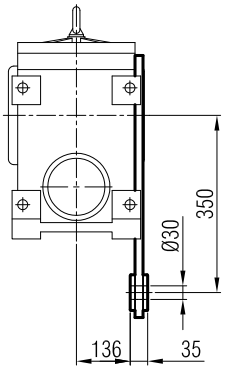
- FD - SD

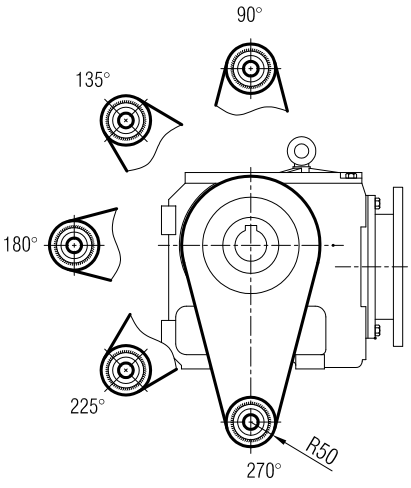


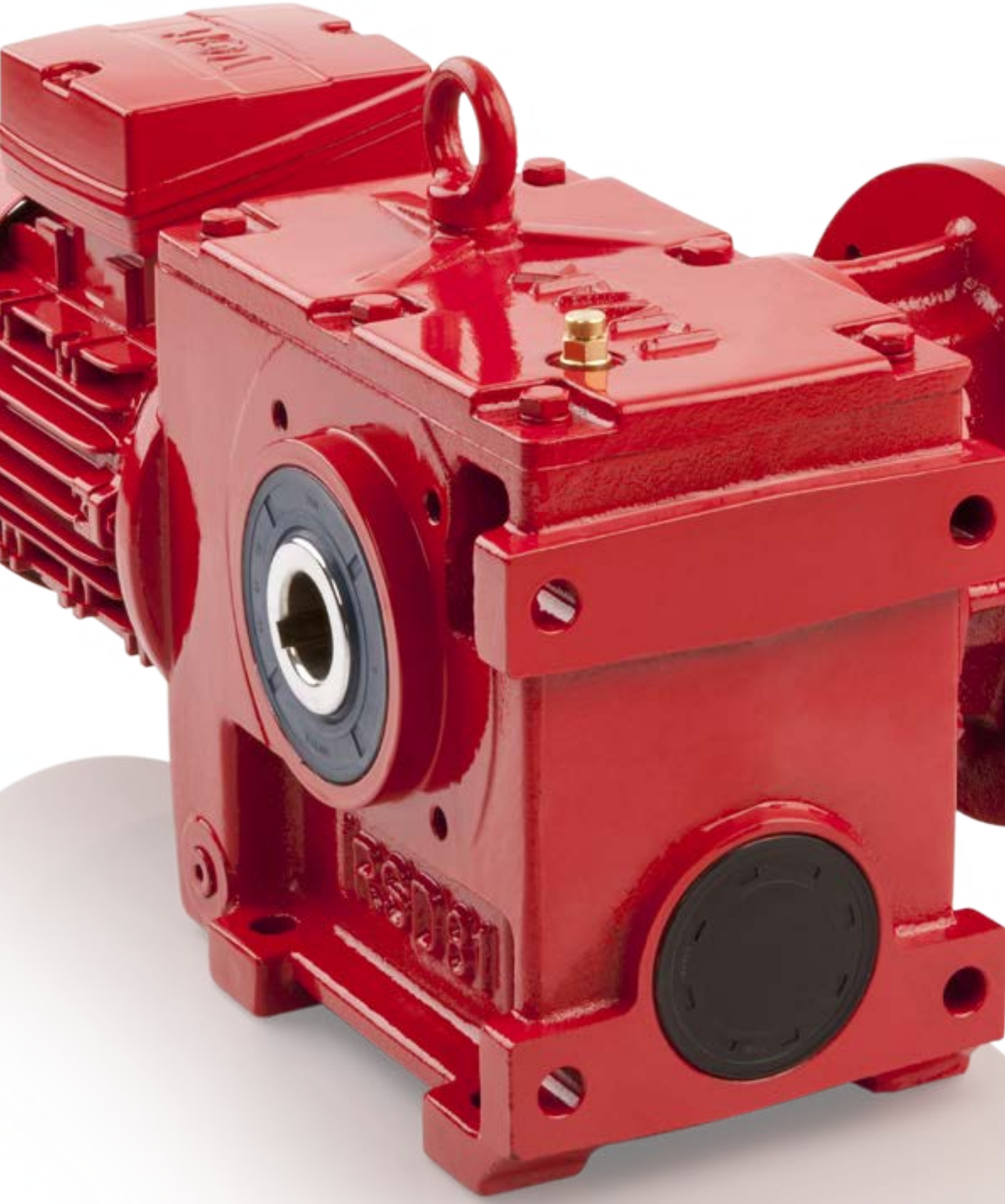
- TR



- TL







İMAK®
REDÜKTÖR & VARYATÖR SAN. VE TİC. A.Ş.

Fabrika - Merkez Satış
Şeyhli Sanayi Caddesi No:1 Pendik / İSTANBUL - TÜRKİYE
Tel. +90 216 378 03 26 (Pbx) - Fax. +90 216 378 06 86

Satış Ofisi
Demirkapı Mah. Kerestecİler Sit. Rıza Uzun Sk. No:5 Topçular / İSTANBUL - TÜRKİYE
Tel. +90 212 567 87 32/33 - Fax. +90 212 612 61 17

imak@imakreduktor.com

www.imakreduktor.com