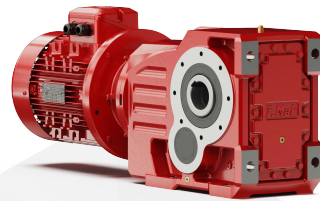


Konik Dişli Redüktörler

Helical Bevel Geared Motor / Motoréducteurs à couple conique

K00



SERIES
İRK



i.Mak®



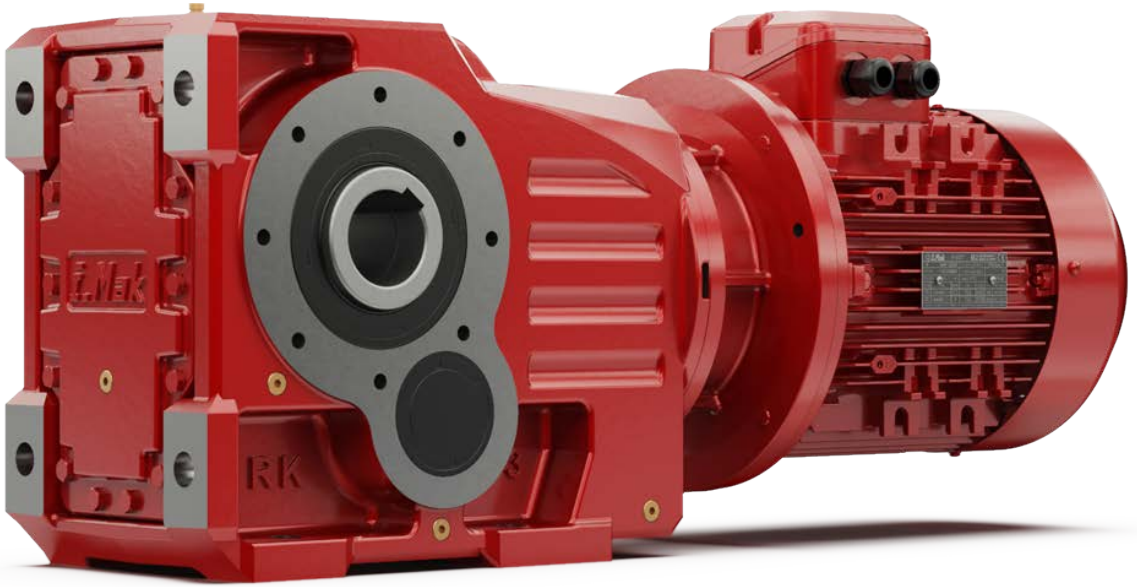
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Genel Bilgiler

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İRK

SERİSİ / SERIES / SÉRIES



- Monoblok döküm gövdeli
- 10 Farklı gövde büyüklüğü
- 200 – 18000 Nm moment aralığı
- 4 – 21000 Tahvil aralığı

- Cast iron monobloc housing
- 10 Size of housing
- Torque range from 200 to 18000 Nm
- Ratio range from 4 to 21000

- *Carter monobloc en fonte*
- *10 tailles de carter*
- *Couple allant de 200 à 18000 Nm*
- *Rapport de réduction compris entre 4 et 21000*

İRK serisi redüktörlerin genel özellikleri

Tek kademesi konik dişli diğer dişli kademeleri helisel olan İRK serileri, devamlı yük altında ve ağır şartlarda çalışmaya elverişli olarak dizayn edilmiş redüktörlerimizdir. Dişli malzemesi, bu redüktörlere uygun yüksek dereceli çelikten 16MnCr5 veya fiziksel olarak eşdeğer malzemelerden yapılmış ve taşlanmıştır. Dişli sertliği 57 HRC değerindedir.

Yüksek kalite döküm teknolojisi ile elde edilen gövde yapısı GG22 pik malzemesinden tekil gövde (monoblok) olarak yapılmıştır.

Motor mili ve redüktör çıkış mili arasının 90 derece olmasından dolayı dik açılı olan durumlarda ve yüksek dayanıklılık gerektiren uygulamalarda kullanılır.

İRK serisi redüktörler kolay montaj ve esnek kullanım olanağına sahiptir.

Bu redüktörlerimiz , delik milli, çıkış milli, çift yönlü çıkış milli, sıkma bilezikli ve flanşlı şekilde kullanabilirsiniz.

İRK 43 İRK 153 10 gövde büyüklüğü
0,12 kW ' dan 200 kW ' a kadar motor bağlama opsiyonu
200 Nm ' den 18000 Nm ' ye kadar çıkış torku opsiyonu

Descriptions and specifications of the İRK serie.

Designed to work under heavy loads and in hard conditions, the bevel helical İRK serie is perfectly adapted to a wide range of applications. The gears are made of 16MnCr5 steel and match the 57 HRC Standards.

The robust monobloc housing is made of GG22 iron and is machined under state of art standards. With a 90-degree configuration the İRK Series is perfectly adapted to applications requiring a high resistance from the gear unit. This configuration also makes the mounting and maintenance easier with a large range of option and technical features.

The İRK Series gear units are available with output shaft, hollow shaft, double output shaft, shrink disk and various flange configurations.

10 sizes of housing

Motor configuration from 0.12 kw to 200 kw

Torque ranging from 200 to 18000 Nm

Descriptions et spécifications de la série İRK.

Conçus pour résister à des charges importantes et fonctionner dans des conditions difficiles, les réducteurs à couple conique de la série İRK sont parfaitement adaptés à tous types d'applications et configurations.

Les pignons sont fabriqués à partir d'acier 16MnCr5 avec une dureté de 57 HRC.

Le carter en monobloc offre une grande robustesse et résistance aux réducteurs de la série İRK. La configuration à 90 degrés permet aussi de renforcer les qualités techniques du réducteur tout en facilitant les opérations de montage et de maintenance.

Les réducteurs İRK sont disponibles avec une large gamme d'options et configurations (Arbre de sortie, bride, arbre creux, arbre double, frette de serrage...) lui permettant de s'adapter à de nombreuses applications.

10 tailles de carter

Puissances moteur de 0.12 à 200 kw

Couple allant de 200 à 18000 Nm

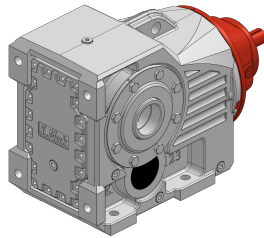
Konik dişlili redüktörler

Helical bevel geared motor / *Motoréducteurs à couple conique*

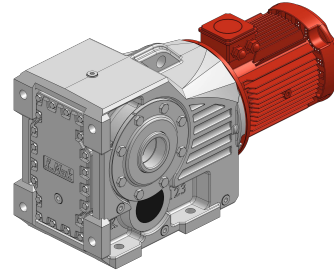
Kod	Tip tanımlama	Input type designation	Spécifications des types
IRK...	Giriş milli - delik milli	Input shaft - hollow shaft	Arbre d'entrée - arbre creux
IRKF...	Giriş milli - flanş montajlı - delik milli	Input shaft - flange mounted - hollow shaft	Arbre d'entrée - bride de sortie arbre creux
IRKM...	Motorlu - delik milli	With motor - hollow shaft	Avec moteur - arbre creux
IRKFM...	Motorlu - flanş montajlı - delik milli	With motor - flange mounted - hollow shaft	Avec moteur - bride de sortie arbre creux
IRKP...	IEC giriş flanşlı - delik milli	IEC input flange - hollow shaft	Bride d'entrée IEC - arbre creux
IRKFP...	IEC giriş flanşlı - flanş montajlı - delik milli	IEC input flange - flange mounted - hollow shaft	Bride d'entrée IEC - bride de sortie - arbre creux
IRKPM...	IEC giriş flanşlı motorlu - delik milli	IEC input flange with motor - hollow shaft	Bride d'entrée IEC - arbre creux
IRKFPM...	IEC giriş flanşlı motorlu - flanş montajlı delik milli	IEC input flange with motor - flange mounted - hollow shaft	Bride d'entrée IEC - avec moteur - bride de sortie - arbre creux

Giriş opsiyonları

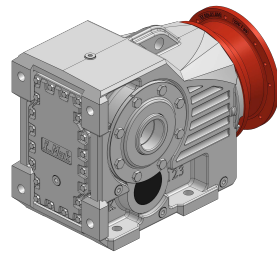
Input options / *Options d'entrée*



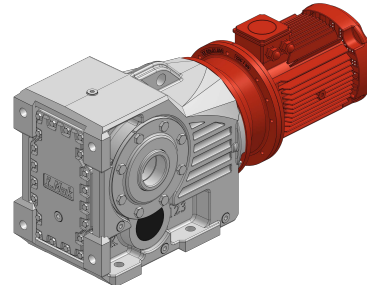
İRK
Giriş milli
Solid input shaft
Avec arbre de sortie



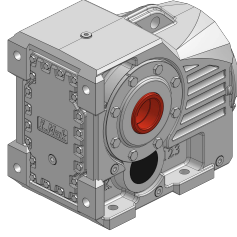
İRKM
Motorlu
With motor
Avec moteur



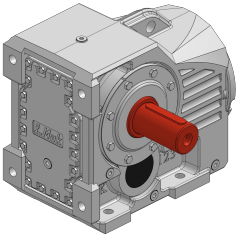
İRKP
IEC pam flanşlı
IEC input flange
Avec bride PAM - IEC



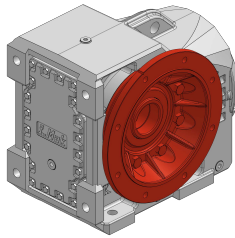
İRKPM
IEC pam flanşlı motorlu
IEC input flange with motor
Avec bride PAM-IEC et moteur



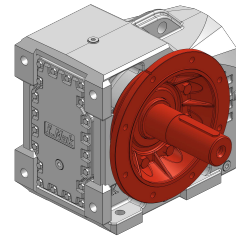
IRK..
Delik milli
Hollow output shaft
Arbre creux



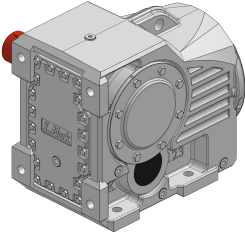
IRK...SL
Çıkış millî (Sol)
Output shaft (Left)
Arbre de sortie (Gauche)



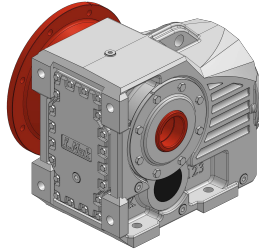
IRK...FL
Çıkış flanşlı (Sol)
Output shaft (Left)
Bride de sortie (Gauche)



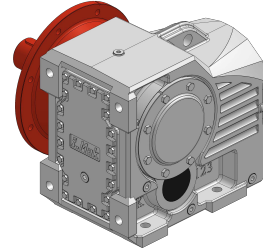
IRK...FL-SL
Çıkış millî - Çıkış flanşlı (Sol)
Output shaft-Output flange(Left)
Arbre et bride de sortie(Gauche)



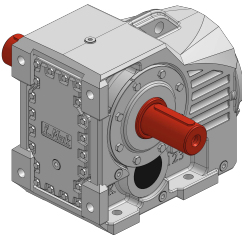
IRK...SR
Çıkış millî (Sağ)
Output flange (Right)
Arbre de sortie (Droite)



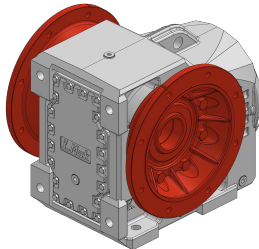
IRK...FR
Çıkış flanşlı (Sağ)
Output shaft (Right)
Bride de sortie (Droite)



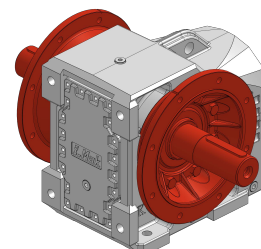
IRK...FR-SR
Çıkış millî - Çıkış flanşlı (Sağ)
Output shaft-Output flange(Right)
Arbre et bride de sortie(Droite)



IRK...SD
Çift çıkış flanşlı
Double output shaft
Double bride de sortie



IRK...FD
Çift çıkış flanşlı
Double output shaft
Double bride de sortie



IRK...FD-SD
Çift çıkış flanşlı - Çift çıkış millî
Double output flange
Double arbre de sortie

	Redüktör Opsiyonları	Gearboxes options	Options des motoréducteurs
Kod / Code	Opsiyon	Options	Options
FL	Sol çıkış flanşı	Output flange left	Bride de sortie (Gauche)
FR	Sağ çıkış flanşı	Output flange right	Bride de sortie (Droite)
FD	Çift çıkış flanşı	Double output flange	Bride de sortie (Double)
SL	Sol çıkış mili	Output shaft left	Arbre de sortie (Gauche)
SR	Sağ çıkış mili	Output shaft right	Arbre de sortie (Droite)
SD	Çift çıkış mili	Output shaft double	Arbre de sortie (Double)
SDL	Sol sıkma bileziği	Shrink disk left	Frette de serrage (Gauche)
SDR	Sağ sıkma bileziği	Shrink disk right	Frette de serrage (Droit)
EL	Sol ekstruder	Extruder left	Extruder (Gauche)
ER	Sağ ekstruder	Extruder right	Extruder (Droit)
H	Çektirme pulu	Retaining screw washer	Epaullement (vis de fixation)
OC	Çıkış koruma kapağı	Output cover	Bouchon (arbre creux)
BSL	Sol mekanik kilit	Backstop left	Antidévireur (Gauche)
BSR	Sağ mekanik kilit	Backstop right	Antidévireur (Droit)
TL	Sol tork kolu	Torque arm left	Bras de couple (Gauche)
TR	Sağ tork kolu	Torque arm right	Bras de couple (Droit)
SU	Şasi uygulaması	Baseplate	Châssis
OTS	Yağ sıcaklık sensörü	Oil temperature sensor	Capteurs de température

	Motor Opsiyonları	Motor options	Options des Moteurs
Kod / Code	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	Encoder	Encoder	Encoder
BS	Mekanik kilit	Backstop	Roulement anti-retour
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
DS	Çift çıkış (kuyruk) milli motor	Double shaft motor	Doble Ejes

	Çıkış Mili	Output shaft	Arbre de sortie
Kod / Code	Varyasyon	Options	Options
111	Özel mil ölçüsü	Special shaft dimensions	Dimensions de l'arbre spéciale
112	Özel mil malzemesi	Special shaft materials	Matériel de l'arbre spéciale
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
116	CEMA Mil	CEMA output shaft	Arbre de sortie CEMA
117	Kaplin bağlantılı	Coupling connection	Avec accouplement

	Kovan	Hollow shaft	Bride
Kod / Code	Varyasyon	Options	Options
121	Özel kovan ölçüsü	Dimensions of special hollow shaft	Arbre creux spéciale
122	Özel kovan malzemesi	Material of special output hollow shaft	Arbre creux spéciale
123	Sertleştirilmiş kovan	Hardened 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 hollow shaft	Arbre creux optionnel
126	Çoklu kama uygulaması	Hollow shaft with splining	Arbre creux cannelé

	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 spéciale
132	Özel mil malzemesi	Material of special shaft	Matériaux de l'arbre spéciale
133	Sertleştirilmiş mil	Hardened steel shaft	Arbre en acier trempé
134	Çoklu kama uygulaması	Hollow shaft with screw	Arbre creux a vis
136	Diş çekilmiş mil	Shaft with screw	Arbre de sortie avec vis
137	Kaplin bağlantısı	Coupling connection	Avec accouplement

	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 de sortie spéciale*
145	CEMA Flanş	CEMA output flange	Bride de sortie CEMA

* İstenilen değişiklik 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 où 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	Dimension of 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 input flange*	Bride d'entrée spéciale*
154	IEC B14 Flanş	IEC B14 flange	IEC B14 Bride
155	IEC B5 Flanş	IEC B5 flange	IEC B5 Bride
156	Kaplinli Pam Flanş	IEC PAM with integrated coupling	Bride IEC avec accouplement intégré
157	NEMA Flanş	NEMA input flange	Bride d'entrée NEMA

* İstenilen değişiklik 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 où la configuration de votre application requiert une bride d'entrée 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 spéciale
222	Özel ölçü tapa	Dimensions of special cover	Dimensions du bouchon spéciale
223	Özel marka keçe	Special brand of seal	Marque du joint spéciale
224	Özel marka tapa	Special brand of cover	Marque du bouchon spéciale
225	Viton keçe	Viton seal	Joint en viton
226	Özel tip keçe uygulaması	Special configuration of seal	Configuration spéciale du joint
	Redüktör Rulmanı	Gearboxes Bearing	Roulement des motoréducteurs
Kod / Code	Varyasyon	Options	Options
231	Güçlendirilmiş çıkış rulmanı	Reinforced 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 spéciale
234	Özel ölçü rulman	Special dimensions of bearing	Dimensions du roulement spéciale
235	Mekanik kilit CW*	Backstop bearing (CW)	Roulement anti-retour (CW)
236	Mekanik kilit CCW*	Backstop bearing (CCW)	Roulement anti-retour (CCW)
	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 (Environnement extérieur)
255	Su bazlı boya	Water based paint	Peinture à base d'eau
256	Antikorozyon 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 kodunu kapsamaktadır. / 261 and 262 codes are equivalent. / Les codes 261 et 262 sont équivalents.

	Voltaj - Frekans	Voltage and frequency	Voltage et fréquence
Kod / Code	Varyasyon	Options	Options
311	Özel voltaj motor	Special Voltage	Voltage spéciale
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

	Rulman	Bearing	Roulement
Kod / Code	Varyasyon	Options	Options
341	Sıcak ortam rulmanı*	Bearing for hot environment	Roulement pour environnement a températures élevées
342	Soğuk ortam rulmanı*	Bearing for cold environment	Roulement pour environnement 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 için bilgi alınız. / Adapted for outside environment with temperature in between 0 C° and 40 C° / Adapté aux environnements extérieurs avec une température comprises entre 0° C et 40° C

	Motor Markası	Brand motor	Marque de moteur
Kod / Code	Varyasyon	Options	Options
351	Gamak Motor	Gamak Motor	Gamak Motor
353	İ.Mak/A Motor*	İ.Mak/A Motor*	İ.Mak/A Motor*
354	İ.Mak/W Motor	İ.Mak/W Motor	İ.Mak/W Motor
356	Diğer**	Others**	Autres**

* İ.Mak/A marka motor standart kabul edilir. / İ.Mak/A brand motor standard category / Catégorie standard de moteur de marque İ.Mak/A

** Diğer motor seçeneği, sadece pam flanşlı bağlantı olarak verilebilmektedir / Other motors options are only available with IEC Connection flange / Les moteurs non listés sont disponibles seulement en configuration bride IEC

	Verim Sınıfı	Efficiency classifications	Classes d'efficience énergétique
Kod / Code	Varyasyon	Options	Options
363	IE4	IE4	IE4

* IE3 verim sınıfı standart kabul edilir. / IE3 is the standard category / IE3 étant la norme standard

	Kuyruk Milli Motor	Double shaft motor	Ejes con Doble Extensión
Kod / Code	Varyasyon	Options	Options
367	Özel mil ölçüsü	Dimensions of the shaft	Dimensions de l'arbre spéciale
368	Standart dışı mil*	Special output shaft*	Arbre de sortie spéciale*

* İstenilen değişiklik ürünün standart mili üzerinde yapılamayıp yeni bir mil tasarlanması durumudur. /The requested change cannot be made on the standard

	Fren markası	Brake's brand	Marque du frein
Kod / Code	Varyasyon	Options	Options
412	EMF fren	EMF brake	Frein - EMF
413	Fatih fren	Fatih brake	Frein - Fatih
414	Diğer	Others	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 refroidissement
424	24 V soğutmasız*	24 V without cooler	24 V - sans refroidissement
425	Çift balatalı fren	Double disk brake	Frein avec double disque
426	Özel tip fren	Special brake type	Type de frein spéciale
427	Özel voltaj fren	Special voltage for brake	Frein avec voltage spéciale

* Soğutmasız frenlerde motor fan muhafazası bulunmamaktadır / The brake without cooling are installed without fan or cover. / Les freins sans refroidissement ne sont

	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 de codeurs différents contactez notre équipe

	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	Interrupteur bilame
443	Basınç 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 coil heat	Bobine chauffante 220 V
446	PT 100	PT 100	PT 100

	Harici Fan	External fan	Ventilateur 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	Explosion 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 fabrikamız tarafından takıldığı durumlarda uygulanır / Motors installed in our factory / Moteur installés dans notre usine

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 catalogue.

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 caractéristique de l'application. Ont distingue trois type de charges différentes

1. Charges uniformes (U)
2. Charges modérées (M)
3. Charges élevées (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'arrêt/rédemarrage est donc à prendre en compte lors de l'analyse du service facteur.

L'exemple ci-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 électrique. La charge est "élevée" et la durée de fonctionnement journalière 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 (Caterpillar)	H	Convoyeur à étage	H
Ray üzerinde yürüyüşler	M	Travelling gears (Rails)	M	Convoyeur à rails	M
Manevra mekanizmaları	U	Manoeuvring 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 Makinaları		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 construction 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 élect. Türbin / Turbin / Turbine Hidrolik / Hydraulic / 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 Cylinder) 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 Cylinder) 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

Ventilatör Ve Aspiratörler		Fans		Ventilations	
Pistonlu ventilatörler	M	Rotary piston blowers	M	Souffleurs rotatifs	M
Ventilatör (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
Silindirme 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

Yıkama 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 élect. Türbin / Turbin / Turbine Hidrolik / Hydraulic / 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 Cylinder) 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 Cylinder) 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		Métallurgie 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 Tahrir)	M	Machines tools (Main Drives)	M	Machine outil (Axe principal)	M
Takım tezgahları (Yardımcı Tahrir)	U	Machines tools (Auxiliarily 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

Tahrir 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 élect. Türbin / Turbin / Turbine Hidrolik / Hydraulic / 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 Cylinder) 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 Cylinder) 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 pavés	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

Silindirme 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 / <i>Moteurs élect.</i> Türbin / Turbin / <i>Turbine</i> Hidrolik / Hydraulic / <i>Hydraulique</i>	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 Cylinder) <i>Machine à pistons (4....6 Cylindres)</i>	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 Cylinder) <i>Machine à pistons (1....2 Cylindres)</i>	0.....3	1.25	1.5	2
	3....10	1.5	1.75	2.25
	10...24	1.75	2	2.5

Radyal Yüklerin Belirlenmesi

Meydana gelen radyal yükün hesaplanabilmesi için redüktörün çıkış veya giriş miline bağlanan iletme elemanının tipi dikkate alınmalıdır. Aşağıdaki tabloda bazı iletme elemanları faktörleri (f_i) verilmiştir.

İletme Elemanı	İletme Elemanı Faktörü (f_i)	Açıklama
Dişli	1,15	< 17 diş
Zincir Dişli	1,40	< 13 diş
Zincir Dişli	1,25	< 20 diş
V- Kayış Kasnakları	1,75	Ön Gerilme Kuvveti
Düz Kayış Kasnakları	2,50	Ön Gerilme Kuvveti
Triger Kayış Kasnakları	1,50	Ön Gerilme Kuvveti

Mil üzerindeki radyal yük aşağıdaki formülle hesaplanır:

$$F_R = \frac{Md \cdot 2000}{d_0} \cdot f_i$$

$F_R[N]$ = Radyal Yük
 $M_d[Nm]$ = Döndürme Momenti
 $d_0[mm]$ = İletme elemanının Ortalama Çapı
 f_i = İletme Elemanı Faktörü

Bu değerler gözönüne alınarak hesaplanan sonuçlar doğrultusunda, kataloğumuzda yer alan redüktörlere ait radyal yükleri görerek seçim yapabilirsiniz. Bu tablolarda verilen radyal yükler rulman ömrüne göre belirlenmiş olup $S_f = 1$ şartına ve yükün milin ortasını yüklediği durumlar için verilmiştir.

Determining of Overhung Loads

Type of transmission component mounting output or input shaft has to be consideration to find occurred overhung loads. Some transmission component factor (f_i) is given at the table below.

Transmission Component	Transmission Component Factor (f_i)	Explanation
Gear	1,15	< 17 teeth
Sprockets	1,40	< 13 teeth
Sprockets	1,25	< 20 teeth
V- Belt Pulleys	1,75	Pre-tension
Flat Belt Pulleys	2,50	Pre-tension
Trigger Belt Pulleys	1,50	Pre-tension

Overhung Loads on shaft is find by at the formula below:

$$F_R = \frac{Md \cdot 2000}{d_0} \cdot f_i$$

$F_R[N]$ = Overhung Load
 $M_d[Nm]$ = Torque
 $d_0[mm]$ = Mean Diameter of Transmission Component
 f_i = Transmission Component Factor

You can Choose, by seeing overhung loads belong to gearboxes in our catalog according to determined results by considering these values. The given overhung loads on the tables are determined according to working life, on $S_f = 1$ and force which are applied to the midpoint of the shaft

Calcul des charges radiales

Afin de déterminer les charges radiales en bouts d'arbres il conviens de prendre en compte les paramètre et coefficients suivants. Le coefficient correcteur (f_i) est a appliquer en fonction du type de transmission

Élément de transmission	Coefficient correcteur (f_i)	Remarques
Pignons	1,15	< 17 dents
Roue a chaine	1,40	< 13 dents
Roue a chaine	1,25	< 20 dents
Poulies a gorges	1,75	En fonction de la précontrainte
Poulies plates	2,50	En fonction de la précontrainte
Poulies dentées	1,50	En fonction de la précontrainte

La charge radiale en bout d'arbre se calcule en utilisant la formule suivante:

$$F_R = \frac{Md \cdot 2000}{d_0} \cdot f_i$$

$F_R[N]$ = Charge appliquée en bout d'arbre(N)
 $M_d[Nm]$ = Couple en Nm
 $d_0[mm]$ = Diamètre de l'élément de transmission(mm)
 f_i = Coefficient correcteur pour charge radiale

Les résultats sont définis en fonction de la durée de vie et d'utilisation des réducteurs. Les résultats se basent sur les charges radiales appliquées au centre de l'arbre.

Radial Yük Hesabı, Çıkış Miline etkiyen Durum için

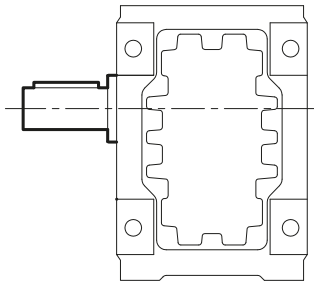
Calculation of Overhung Load for State Acting on Output Shaft

Calcul des charges radiales appliquées sur l'arbre de sortie

Radial Yük Hesabı için Sabit Değerler Tablosu

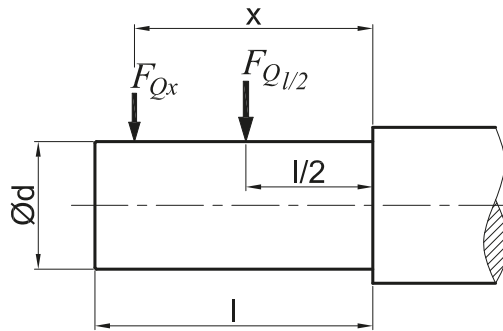
Tables of Fixed Values for Calculation of Overhung Load

Tableau des valeurs préétablies pour le calcul des charges radiales



İRK Serisi
İRK Series / İRK Serie

İRK Serisi / İRK Series / İRK Serie				
Tip/Type	k	c	d	l
İRK 43-42	156	121	35	70
İRK 53-52	156	121	35	70
İRK 63	159.5	129.5	30	60
İRK 73	186.25	146.25	40	80
İRK 83	223.65	173.65	50	100
İRK 93	246	186	60	120
İRK 103	312.75	242.75	70	140
İRK 123	393	308	90	170
İRK 143	434	329	110	210
İRK 153	508	403	120	210



Radial yük, milin orta noktasında değil ise $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$ formülü ile hesaplanır.

If overhung load is not applied at the midpoint of output shaft; it is calculated by $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$

Dans le cas où les charges radiales ne sont pas appliquées au centre de l'arbre d'entrée, la formule à appliquer est $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$

Radyal Yk Hesabı, Kovana etkiyen Durum iin

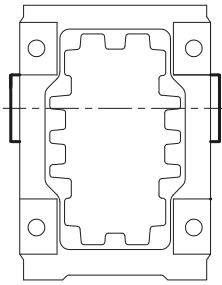
Calculation of Overhung Load for State Acting on Hollow Shaft

Calcul des charges radiales appliques en configuration arbre creux

Radyal Yk Hesabı iin Sabit Deęerler Tablosu

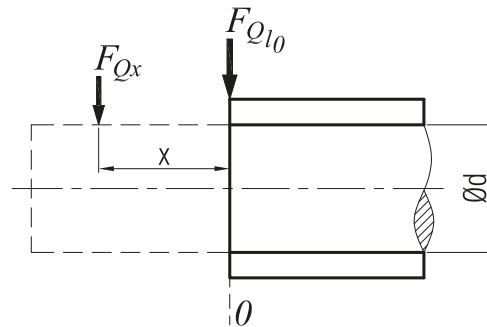
Tables of Fixed Values for Calculation of Overhung Load

Tableau des valeurs prtablies pour le calcul des charges radiales



İRK Serisi
İRK Series / İRK Sries

İRK Serisi / İRK Series / İRK Sries				
Tip/Type	k	c	d	l
İRK 43-42	117	117	35	-
İRK 53-52	117	117	35	-
İRK 63	125.5	125.5	35	-
İRK 73	146.25	146.25	40	-
İRK 83	176.65	176.65	50	-
İRK 93	186	186	60	-
İRK 103	242.75	242.75	70	-
İRK 123	308	308	90	-
İRK 143	329	329	110	-
İRK 153	403	403	120	-



Radyal yk, kovanın 0 noktasında deęil ise $F_{Qx} = F_{Ql0} \cdot \frac{k}{c+x}$ forml ile hesaplanır.

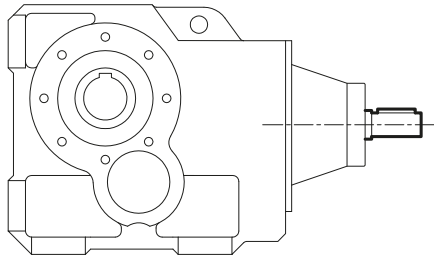
If overhung load is not applied at the zero point of hollow shaft; it is calculated by $F_{Qx} = F_{Ql0} \cdot \frac{k}{c+x}$

Si les charges radiales ne sont pas appliques au point 0 de l'arbre creux, il convient d'appliquer la formule suivante

$$F_{Qx} = F_{Ql0} \cdot \frac{k}{c+x}$$

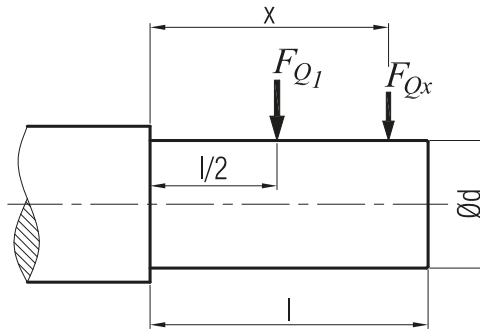
Radyal Yk Hesabı, Giriş Miline etkiyen Durum için
Calculation of Overhung Load for State Acting on Input Shaft
Calcul des charges appliquées sur l'arbre d'entrée

Radyal Yk Hesabı için Sabit Değerler Tablosu
Tables of Fixed Values for Calculation of Overhung Load
Tableau des valeurs préétablies pour le calcul des charges radiales



İRK Serisi
İRK Series / İRK Séries

İRK Serisi / İRK Series / İRK Séries				
Tip/Type	k	c	d	l
İRK 43-42	89	64	24	50
İRK 53-52	89	64	24	50
İRK 63	52,5	67,5	24	50
İRK 73	110	77	24	50
İRK 83	119	89	28	60
İRK 93	123	88	34	70
İRK 103	159,5	109,5	48	100
İRK 123	187,5	132,5	55	110
İRK 143	231	176	55	110
İRK 153	271,5	201,5	70	140



Radyal yük, milin orta noktasında değil ise $F_{Qx} = F_{Ql} \cdot \frac{k}{c+x}$ formülü ile hesaplanır.

If overhung load is not applied at the midpoint of input shaft; it is calculated by $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$

Dans le cas où les charges radiales ne sont appliquées au centre de l'arbre d'entrée, la formule à appliquer est

$$F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$$

Korozyon Sınıfı Corrosion Categories Catégories de corrosion	Uygulama Alanları Field of Applications Domaines d'applications	Boya Türü Type of Paint Type de Peinture	Boya Kalınlığı (µm) Paint Thickness (µm) Epaisseur des Peintures (µm)	Toplam Boya Kalınlığı (µm) Total Paint Thickness (µm) Epaisseur des Peintures Total (µm)
C2 EN 12944	Üstü kapalı olacak şekilde iç mekan ve dış mekan uygulamaları. Nem ve kir değerleri kontrol altında olan çevre koşulları. Indoor installation and outdoor applications with protection roof. Environment with controlled humidity and low contamination. <i>Installation en intérieur, applications à l'extérieur avec une protection contre les intempéries. Environnement avec une humidité contrôlée et une faible contamination.</i>	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	60	120
		Alifatik akrilik poliüretan Aliphatic acrylic polyurethane <i>Acrylique-polyuréthane aliphatique</i>	60	
C3 EN 12944	Olağan hava koşullarına maruz iç mekan ve dış mekan uygulamaları. Nemli ve kirli çevre koşulları. Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of humidity and contamination. <i>Installations en intérieur et extérieur soumises aux aléas climatiques. Environnement avec la présence d'humidité et de contamination.</i>	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	110	160
		Alifatik akrilik poliüretan Aliphatic acrylic polyurethane <i>Acrylique-polyuréthane aliphatique</i>	50	
C4 EN 12944	Olağan hava koşullarına maruz iç mekan ve dış mekan uygulamaları. Yüksek nemli ve kimyasal kirlilikli çevre koşulları. Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of high humidity and chemical contamination. <i>Installations en intérieur et extérieur soumises aux aléas climatiques. Environnement avec la présence d'une forte humidité et de contaminations chimiques.</i>	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	90	240
		Yüksek yapılı epoksi High-volume epoxy <i>Epoxy haut volume</i>	100	
		Alifatik akrilik poliüretan Aliphatic acrylic polyurethane <i>Acrylique-polyuréthane aliphatique</i>	50	
C5 EN 12944	Olağan hava koşullarına maruz iç mekan ve dış mekan uygulamaları. Yüksak oranda daimi neme maruz ve kirliliğe karşı kimyasal temizlik ürünü kullanılan çevre koşulları. Indoor and outdoor applications with regular exposition to weathering. Environment with the presence of continuous high humidity and chemical cleaning contamination. <i>Installations en intérieur et extérieur soumises aux aléas climatiques. Environnement avec la présence d'une forte humidité et de contaminations chimiques.</i>	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	80	500
		Yüksek yapılı MOI epoksi High-volume MOI epoxy <i>Epoxy MOI à haut volume</i>	160	
		Alifatik akrilik poliüretan Aliphatic acrylic polyurethane <i>Acrylique-polyuréthane aliphatique</i>	60	

1500 d/d Motorlar / 1500 r.p.m. Motors / Moteurs 1500 r.p.m.

Kod Code Code	Güç (kW) Power (kW) Puissance (kW)	Hız (d/d) Speed (r.p.m.) Vitesse (r.p.m.)	Anma Akımı Rated Current Ampère	Moment (Nm) Torque (Nm) Couple (Nm)	Verim		IE Sınıfı IE Class Classe IE	Çalışma Sınıfı Duty Type Classe d'utilisation
					100%	75%		
					Efficiency			
					100%	75%		
					Efficiency			
					100%	75%		
63M4a	0,12	1315	0,42	0,88	50,0	49,8	IE1	S1
63M4b	0,18	1320	0,58	1,30	57,0	56,5		
71M4a	0,25	1375	0,71	1,80	68,5	66,1	IE2	
71M4b	0,37	1375	1,12	2,50	66,0	64,9		
80M4a	0,55	1410	1,55	3,70	77,1	74,5		
80M4b	0,75	1435	1,90	5,00	82,5	81,0	IE3	
90S4a	1,1	1435	2,55	7,35	84,1	82,9		
90L4a	1,5	1450	3,40	9,9	85,3	84,8		
100L4a	2,2	1450	4,90	14,5	86,7	86,7		
100L4b	3	1450	6,40	19,8	87,7	87,3		
112M4a	4	1450	8,20	26,3	88,6	87,8		
132S4a	5,5	1460	11,5	35,8	89,6	89,3		
132M4a	7,5	1460	15,9	49,1	90,4	89,1		
160M4a	11	1470	22,9	71,6	91,4	91,4		
160L4a	15	1470	30,5	97,5	92,1	90,3		
180M4a	18,5	1475	36,3	120	92,6	92,5		
180L4a	22	1480	44,5	143	93,0	92,6		
200L4a	30	1470	52,5	195	93,6	92,4		
225S4a	37	1470	64,8	240	93,9	93,6		
225M4a	45	1480	81,0	290	94,2	93,4		
250M4a	55	1480	96,0	355	94,6	94,6		
280S4a	75	1490	128,6	481	96,0	95,2	IE4	
280M4a	90	1490	153,0	577	96,1	94,5		
315S4a	110	1489	193,5	705	96,3	95,4		
315M4a	132	1488	230,0	847	96,4	95,2		
315M4b	160	1485	271,7	1029	96,6	96,1		
315L4a	185	1482	317,7	1195	96,6	96,3		
315L4b	200	1486	347,1	1285	96,7	96,6		
355M4a	250	1485	460,0	1608	96,7	96,5		
355M4b	315	1484	535,3	2027	96,7	96,6		
355L4c	355	1485	588,7	2286	96,7	96,5		
355L4d	400	1482	686,2	2577	96,7	96,3		
400L4a	450	1483	754,7	2898	96,7	96,4		

* Motor teknik değerleri İ.Mak-A marka motorlar içindir, kullanılan diğer markalar için değişiklik gösterebilir.

1000 d/d Motorlar / 1000 r.p.m. Motors / Moteurs 1000 r.p.m.

Kod Code Code	Güç (kW) Power (kW) Puissance (kW)	Hız (d/d) Speed (r.p.m.) Vitesse (r.p.m.)	Anma Akımı Rated Current Ampère	Moment (Nm) Torque (Nm) Couple (Nm)	Verim		IE Sınıfı IE Class Classe IE	Çalışma Sınıfı Duty Type Classe d'utilisation
					100%	75%		
					Efficiency			
					100%	75%		
		Efficiency						
		Efficiency						
		Efficiency						
		Efficiency						
71M6a	0,18	835	0,75	2,00	45,5	43,6	IE1	S1
71M6b	0,25	860	0,80	2,70	52,1	46,3		
80M6a	0,37	950	1,15	3,73	73,5	72,5	IE3	
80M6b	0,55	950	1,60	5,64	74,4	73,6		
90S6a	0,75	940	2,05	7,62	78,9	77,5		
90L6a	1,1	935	3,05	11,30	81,0	78,5		
10L6a	1,5	940	3,60	15,3	82,5	81,5		
112M6a	2,2	970	5,10	21,2	84,3	83,5		
132S6a	3	970	6,90	29,7	85,6	87,4		
132M6a	4	965	8,75	39,6	86,8	87,6		
132M6b	5,5	960	12,5	54,6	88,0	87,7		
160M6a	7,5	975	16,2	73,5	89,1	89,8		
160L6a	11	975	25,0	107,7	90,3	89,9		
180L6a	15	975	30,0	147,0	91,2	91,0		
200L6a	18,5	980	35,0	181	91,7	91,1		
200L6b	22	975	43,0	215	92,2	91,6		
225M6a	30	985	58,0	290	92,9	92,0		
250M6a	37	985	69,5	360	93,3	92,2		
280S6a	45	985	90,2	436	93,7	93,5		
280M6a	55	985	109,8	530	94,1	93,3		
315S6a	75	995	145,6	719	95,4	95,4	IE4	
315M6a	90	995	168,3	869	95,6	95,5		
315M6b	110	992	209,3	1059	95,8	95,6		
315L6a	132	991	236,2	1272	96,0	95,8		
355M6a	160	990	289,2	1543	96,2	96,2		
355M6b	200	992	365,6	1930	96,3	96,2		
355M6c	250	992	437,8	2407	96,5	96,2		
355L6a	315	991	547,2	3035	96,6	96,5		
355L6b	355	990	602,8	3424	96,6	96,5		

* Motor teknik değerleri İ.Mak-A marka motorlar içindir, kullanılan diğer markalar için değişiklik gösterebilir.

Tip Type Typ	Motor büyüklüğü Motor size Taille du moteur				
	63	71	80	90	100
IRK 42	14,252*4,324*	10,666-4,324	10,666-4,324	8,228-4,324	6,463*-4,324*
IRK 43	77,198-4,324*	57,777-4,324(14,252-12,270)	57,777-4,324(14,252-12,270)	33,600-4,324(32,184-12,270-14,252-10,666-9,341)	19,829*-4,324*(14,252-12,270-10,666-9,341-8,228-7,280)
IRK 52	14,252*4,324*	10,666-4,324	10,666-4,324	8,228-4,324	6,463*-4,324*
IRK 53	77,198-4,324*	57,777-4,324(14,252-12,270)	57,777-4,324(14,252-12,270)	33,600-4,324(32,184-12,270-14,252-10,666-9,341)	19,829*-4,324*(14,252-12,270-10,666-9,341-8,228-7,280)
IRK 63	133,140*-50,515*	115,460-6,042*(82,843-21,591-19,106-8,096-7,165)	115,460-5,080*(82,843)	50,515-5,080	34,472*-5,080(16,836)
IRK 73	133,989*-125,038*	117,030-46,413*	117,030-35,251*	91,961-5,466*	74,320*-5,466
IRK 74	388,049*119,060*	388,049-119,060	388,049*-119,060	190,647*-119,060	
IRK 83		236,322-106,331*	236,322-19,334*	204,303-9,349*	126,500*-6,189
IRK 84		619,088-261,559	619,088*-261,559		
IRK 93			179,487-73,814*	179,487-16,827*(38,929-35,330-24,292-22,046)	133,779*-6,989*
IRK 94		501,506-344,241*	501,506-195,000	501,506*-195,000	303,571*-195,000*
IRK 103			171,785*-101,108*	171,785*-57,114*	140,786-10,921*
IRK 104			612,116-160,205*	612,116-160,205	612,116*-160,202
IRK 123			146,568*128,859*	146,568*-114,523*	146,568*-16,540*(39,597-24,150-21,739)
IRK 124			446,439*-301,659*	446,439-143,000*	446,439*-143,000
IRK 143				154,311*-137,307*	154,311*-111,461*
IRK 144				725,769*-158,751*	725,769*-158,751
IRK 153					140,620*
IRK 154					546,857-121,961*

Parantez içindekiler o aralık arası mümkün olmayan tahvil değerleridir. (Mil ve delik çapı birbirine uymayan.)

* İşaretli olanlar mevcut tahvil çizelgesi dışında olanlardır. (Önerilmeyen tahvil değerleridir.)

Gövde Büyüklüklerine Göre IEC Pam Flanş Uygunlukları

Combinations of Gearbox According to Motor IEC Input Flange / *Combinaisons de reducteurs en fonction de la bride moteur*

Tip Type Typ	Motor büyüklüğü Motor size Taille du moteur									
	63 B14	63 B5	71 B14	71 B5	80 B14	80 B5	90 B14	90 B5	100 B14	100 B5
IRK 42-43										
IRK 52-53										
IRK 63										
IRK 73										
IRK 74										
IRK 83										
IRK 84										
IRK 93										
IRK 94										
IRK 103										
IRK 104										
IRK 123										
IRK 124										
IRK 143										
IRK 144										
IRK 153										
IRK 154										

Motor büyüklüğü							
Motor size							
Taille du moteur							
112	132	160	180	200	225	250	280
6,463*-4,324*							
19,829*-4,324*(14,252-12,270-10,666-9,341-8,228-7,280)							
6,463*-4,324*							
19,829*-4,324*(14,252-12,270-10,666-9,341-8,228-7,280)							
34,472*-5,080(16,836)							
74,320*-5,466	35,251*-5,466						
126,500*-6,189	53,241*-6,189	22,329-6,189*					
133,779*-6,989*	66,272-6,202	53,181*-6,202	43,025*-6,202				
303,571*-195,000*							
140,786-10,921*	101,108*-7,102*	57,114-6,533	45,417*-6,533	36,947*-6,533	36,947*-6,533*		
612,116*-160,202							
146,568*-16,540*(39,597-24,150-21,739)	114,523-9,875*	102,681-9,875*	62,936-8,120	55,579*-8,120	55,579*-8,120	44,135*-8,120*	
446,439*-143,000	273,000-143,000						
154,311*-111,461*	137,307*-13,157*(18,504-16,813-15,315-13,979)	123,260-9,002	93,097-9,002*	81,923*-6,901*	81,923*-6,901	41,154*-6,901	41,154*-6,901
725,769*-158,751	725,769*-158,751						
140,620*	140,620*-32,911*(41,986-37,680)	140,620-21,502*	127,454-12,349*	99,252-12,349*	99,252*-12,349*	79,539-12,349*	69,789*-12,349
546,857-121,961*	546,857-121,961*	546,857*-121,961	173,356-121,961				

[illegible]

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 necessary 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'entraînement 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 entraîne 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 doit être correctement connecté pour permettre un fonctionnement optimale de cette option.

Fren alıştırma 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 boîte de Klemens, Les freins fonctionnant sous 24V doivent impérativement être couplés à un transformateur, 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

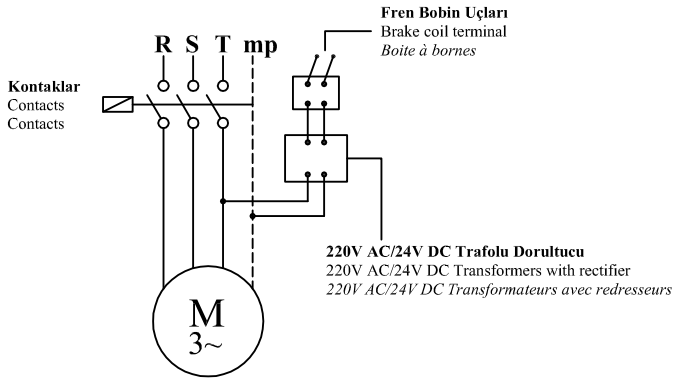
Veillez à nous informer si une unité de transformation 220/30V est nécessaire au branchement de votre frein (24 V)

Type de connexion des freins

Gecikmeli Frenleme (24V)

Delayed Running Brake (24V)

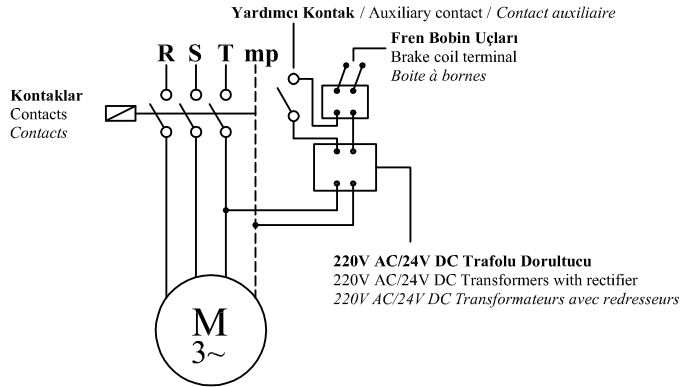
Frein à retardement (24 V)



Ani Frenleme (24V)

Sudden Running Brake (24V)

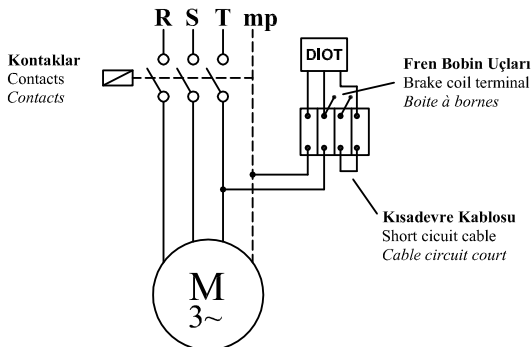
Frein à arrêt immédiat (24 V)



Gecikmeli Frenleme (220V)

Delayed Running Brake (220V)

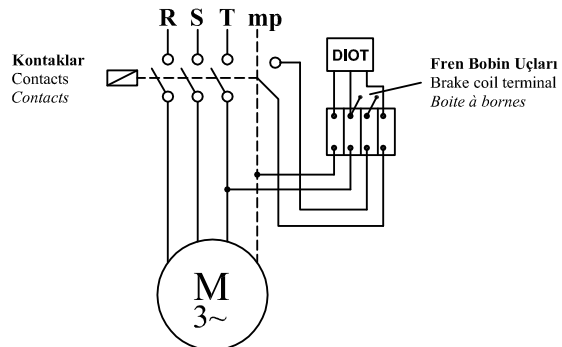
Frein à retardement (220 V)



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 légers										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.

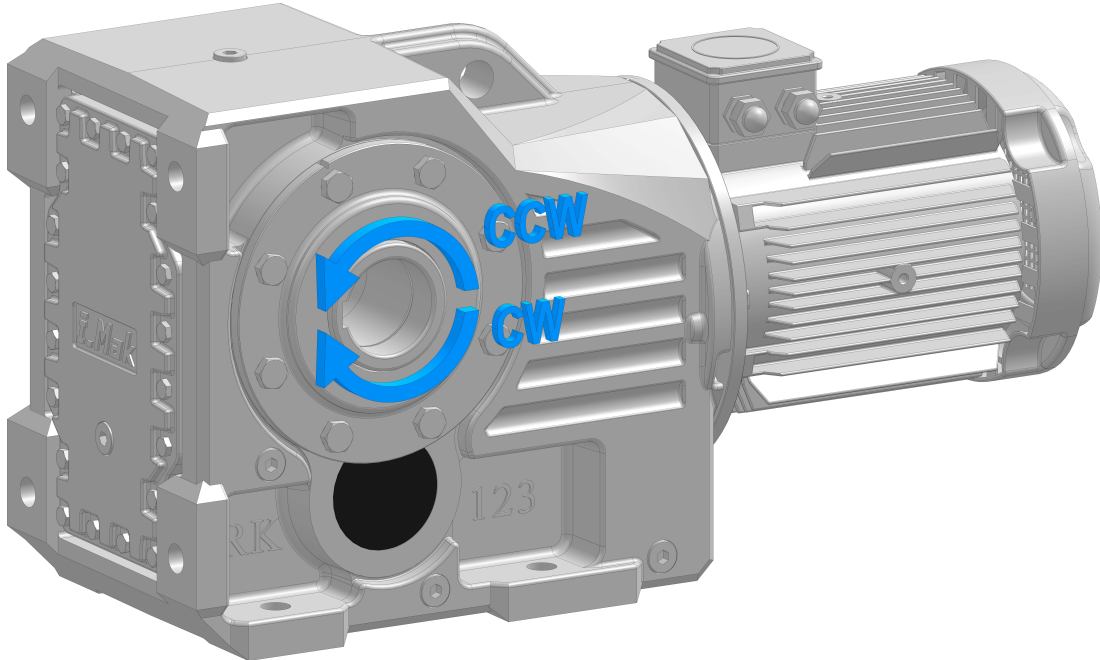
Ccw : Counterclockwise

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



Moment kolu

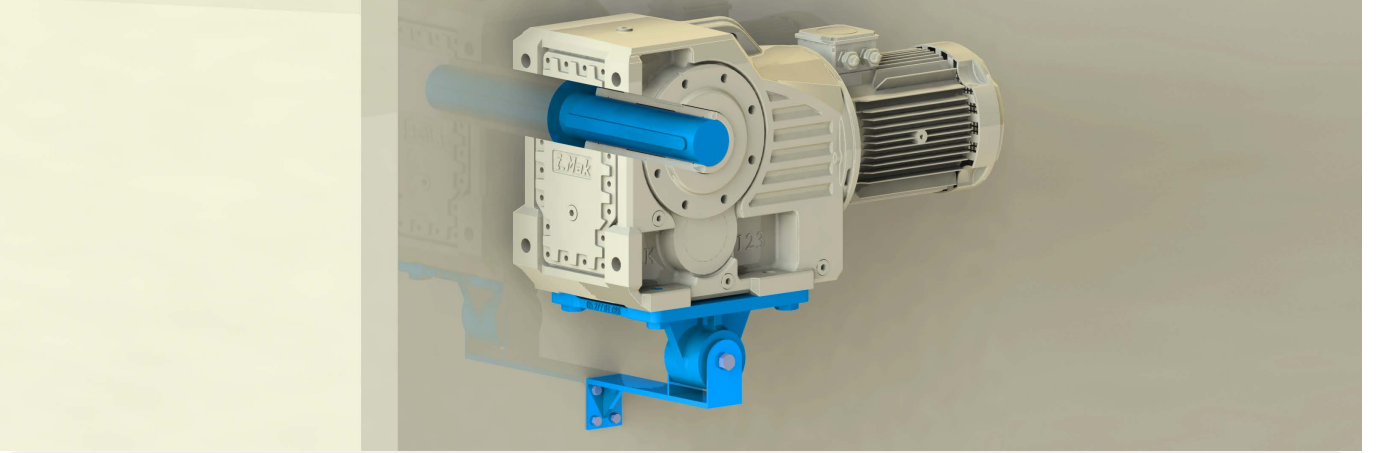
Redüktörünüzün sabitlendiği yüzeyle buluşturan, bağlantı noktaları zamanla aşınıp kırılmalara neden olabilir. Bu nedenle IRK serisi için özel olarak tasarladığımız tork kolu, içindeki lastik takoz sayesinde redüktörünüzü ani kalkışlara ve mil salgılarına karşı koruyup, sistem kaynaklı kasma ve gerilmeleri en aza indirir. İsteğinize bağlı olarak redüktörünüzle beraber gönderilecek olan tork kolu yardımıyla redüktörünüzün montajını kolayca gerçekleştirebilirsiniz.

Moment Kolunun Kullanılabilmesi için,

Konstruksiyonunuza ait bir çıkış mili olması gerekir. Bu çıkış miline, redüktörünüzü astıktan sonra , moment kolunu, redüktörün kendi eksenini etrafında dönmemesi için sabitlemeniz gerekiyor. Resimden de incelemeniz mümkün.

Moment Kollu Bağlantı ile,

- Kolay montaj ve demontaj imkanı
- Sistemsel kasmalara karşı redüktörünüzü koruma imkanı sağlanmış olmaktadır.



Torque arm

Lot of gearboxes failures and problems are due to the connection of the gearbox to the hosting structure or application. The vibration or weight are damaging the gearboxes housing, connection elements and shafts. In order to avoid such issues, we designed a special torque arm to connect the gearbox with the hosting structure. This special element is composed of steel and caoutchouc parts to support the weight and vibration generated by the application. In the same time the torque arm is making mounting and maintenance process faster and easier. Mounting and usage:

In order to use a torque arm, the structure of the application should have an output shaft. The gearbox should be connected to the shaft and the torque arm should be mounted of the down or side part of the gearbox using the specific holes on the housing design.

Advantages:

- Quick mounting
- Easy maintenance process
- Longer lifetime of the gearbox

Bras d'attraction

En cause de la majorité des pannes et défaillances, l'accouplement des réducteurs à la structure de l'application finale est un point essentiel au bon fonctionnement et au prolongement de la durée de vie des réducteurs. En effet, un accouplement défaillant ou mal adapté est souvent la cause de fissures, vibration excessives et déformation de l'arbre d'entrée. Pour pallier à ce problème, nous avons mis au point un bras d'attraction permettant d'absorber les chocs et vibration liés au fonctionnement et aux phases d'arrêt/démarrage de l'application. Ce bras d'attraction est composé d'une structure en fonte et de deux joints en caoutchouc. En plus de prolonger la durée de vie du motoréducteur et maintenir un bon fonctionnement de vos applications, le bras d'attraction rend les phases de montages et maintenance plus rapides et efficaces.

Montage et utilisation :

L'utilisation d'un bras d'attraction nécessite la présence d'un arbre de sortie sur la structure de l'application. Après avoir effectué l'accouplement du réducteur, le bras d'attraction doit être placé sur la face arrière ou basse du réducteur. La fixation s'effectue grave aux emplacements prévus sur le carter du réducteur.

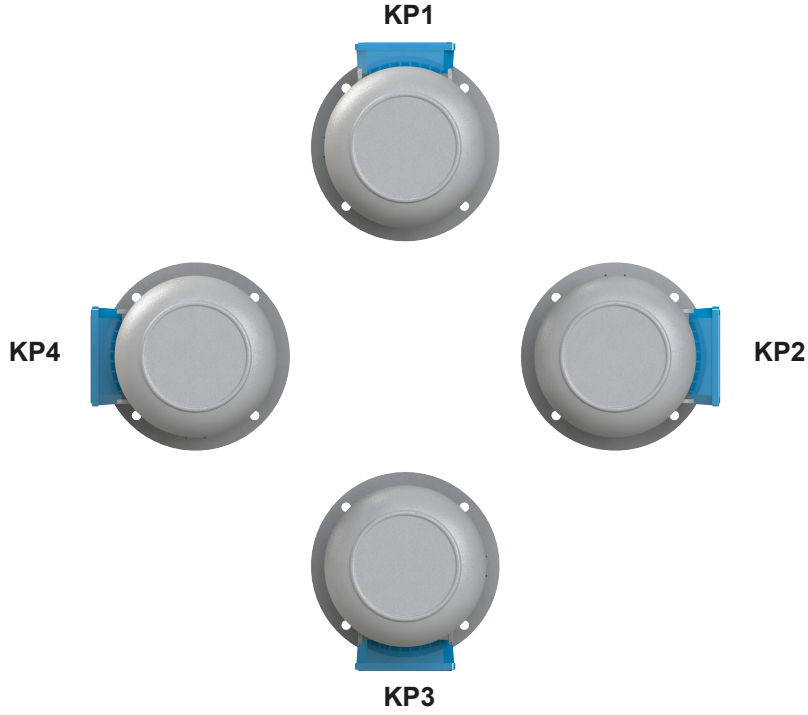
Les avantages :

- Phase de montage facilitée
- Prolongement de la durée de vie
- Maintenance rapide

Standart klemens pozisyonu "KP1" dir, aksi belirtilmediği sürece standart pozisyonunda yapılır.

The standard mounting position is "KP1", if the mounting is not 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

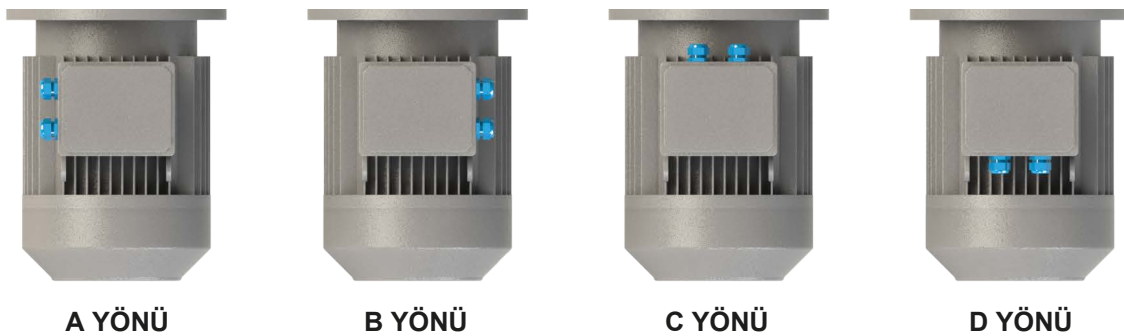
**Rakor yönleri**

Cable entry / Entrée des câbles

Standart rakor yönü "A" dir, belirtilmediği sürece standart yönde yapılır.

The standard position of the cable entry is "A", if the position is not specified during the order, the mounting position will be accepted as "A"

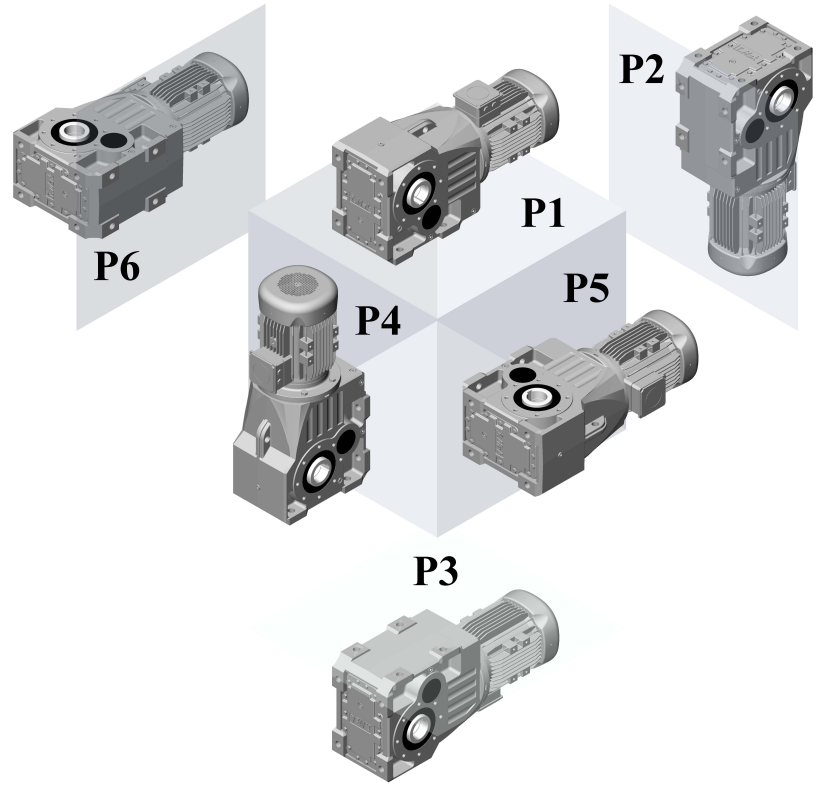
La position standard de l'entrée des câbles est "A", si aucune position de montage n'est précisée lors de la prise de commande, la position "A" sera attribuée par défaut.



Ayak montajlı redüktörlerde
montaj pozisyonu "P" ile
gösterilir

Foot mounted gearboxes
position are defined as "P"

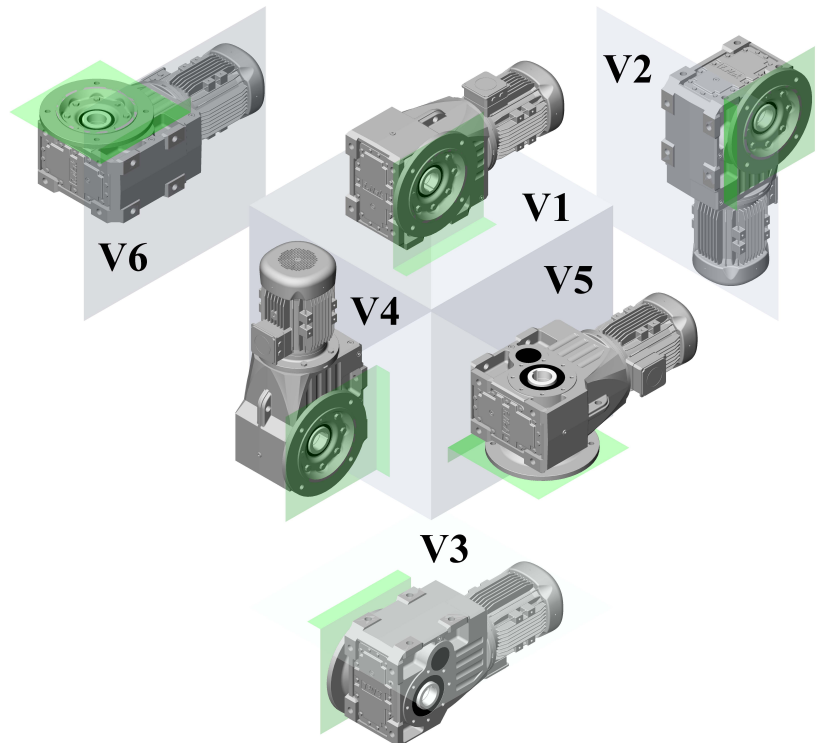
Les positions de montages
des réducteurs à pattes sont
définis par "P"



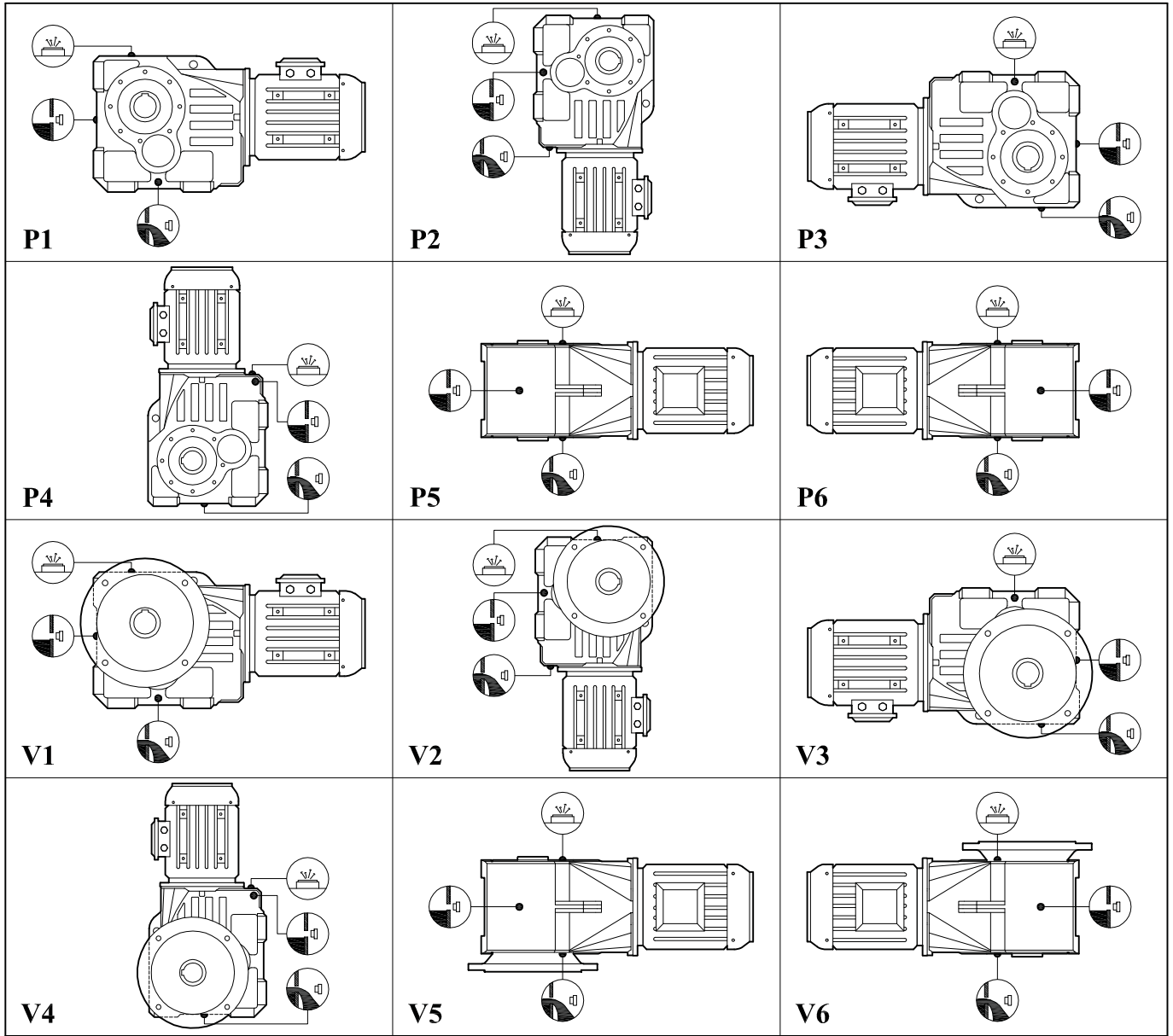
Flanş montajlı redüktörlerde
montaj pozisyonu "V" ile
gösterilir

Flange mounted gearboxes
position are defined as "V"

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



Yağ Cinsi Lubricant Art des Lubrifiant	ISO Viskozite sinifi Viscosity class Catégorie de viscosite	DIN 51517-3	Kullanım sicaklığı Usage temperature Gebrauchs temperatur d'usage C°	Firma Firm Marque						
										
Mineral Yağ Mineral Oil Huile Minéral	ISO VG 320	CLP	-10.....+90	Mobilgear 600XP320	Degol BG 320	Energol GR-XP 320	OmalaS2 GX320	Alpha SP 320	Klüberoil GEM 1 N 320	Recompound FL 320
	ISO VG 220	CLP	-10.....+90	Mobilgear 600 XP 220	Degol BG 220	Energol GR-XP 220	OmalaS2 GX220	Alpha SP 220	Klüberoil GEM 1 N 220	Recompound FL 220
	ISO VG 150	CLP	-10.....+90	Mobilgear 600 XP 150	Degol BG 150	Energol GR-XP 150	OmalaS2 GX150	Alpha SP 150	Klüberoil GEM 1 N 150	Recompound FL 150
	ISO VG 100	CLP	-15.....+90	Mobilgear 600 XP 100	-	-	OmalaS2 GX100	Alpha SP 100	Klüberoil GEM 1 N 100	Recompound FL 100
Sentetik Yağ Synthetic Oil Huile Synthétique	ISO VG 320	CLP HC	-30.....+110	Mobil SHC Gear 320	Degol GS 320	Energol SG-XP320	OmalaS4 GX V 320	Optigear Synthetic PD 320 ES	Klübersynth GEM4N 320	Recompound Syn 320
	ISO VG 220	CLP HC	-35.....+110	Mobil SHC Gear 220	Degol GS 220	Energol SG-XP220	OmalaS4 GX V 220	Optigear Synthetic PD 220 ES	Klübersynth GEM4N 220	Recompound Syn 220
	ISO VG 150	CLP HC	-40.....+110	Mobil SHC Gear 150	Degol GS 150	Energol SG-XP150	OmalaS4 GX V 150	Optigear Synthetic PD 150 ES	Klübersynth GEM4N 150	Recompound Syn 150
	ISO VG 100	CLP HC	-45.....+110	Mobil SHC 627	-	-	-	Optigear Synthetic PD 100 ES	Klübersynth GEM4N 100	Recompound Syn 100



Semboller :
Seymbols :
Seymboles :



Yağ Doldurma ve Havalandırma
Oil Filling and Vent Plug
Valve d'aération

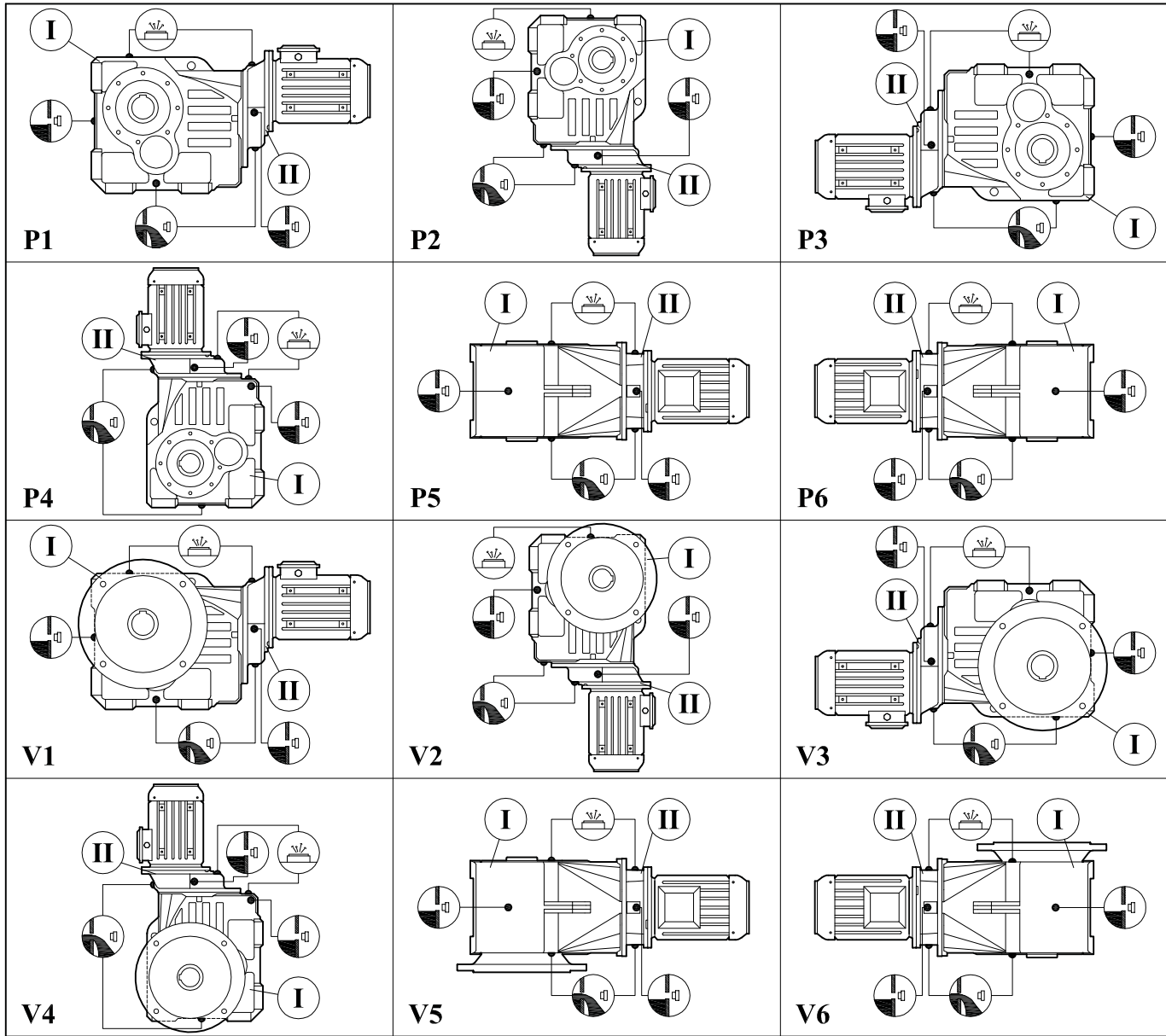


Yağ Seviye Tespit
Oil Level
Niveau d'huile



Yağ Boşaltma
Oil Drain Plug
Bouchon de drainage

TİP Type Type	Bağlantı Pozisyonları ve Yağ Miktarları (litre) Oil Quantities for Mounting Positions (liter) Quantités d'huiles en fonction de la position de montage (litres)											
	P1	V1	P2	V2	P3	V3	P4	V4	P5	V5	P6	V6
İRK.... 42-43	1		1,1		1,1		2,1			1,1		
İRK.... 52-53	1,1		1,2		1,2		2			1,2		
İRK.... 63	1,3		1,3		1,3		2,2			1,3		
İRK.... 73	2		3,7		3,5		4,2			2,8		
İRK.... 83	5		6		6,5		8			5,5		
İRK.... 93	8		9		10		11			9		
İRK.... 103	10		21		24		28			17		
İRK.... 123	17		31		35		39			25		
İRK.... 143	30		50,5		53		70			49		
İRK.... 153	40		75		74		99			69		



Semboller :
Symbols :
Symböles :



Yağ Doldurma ve Havalandırma
Oil Filling and Vent Plug
Valve d'aération

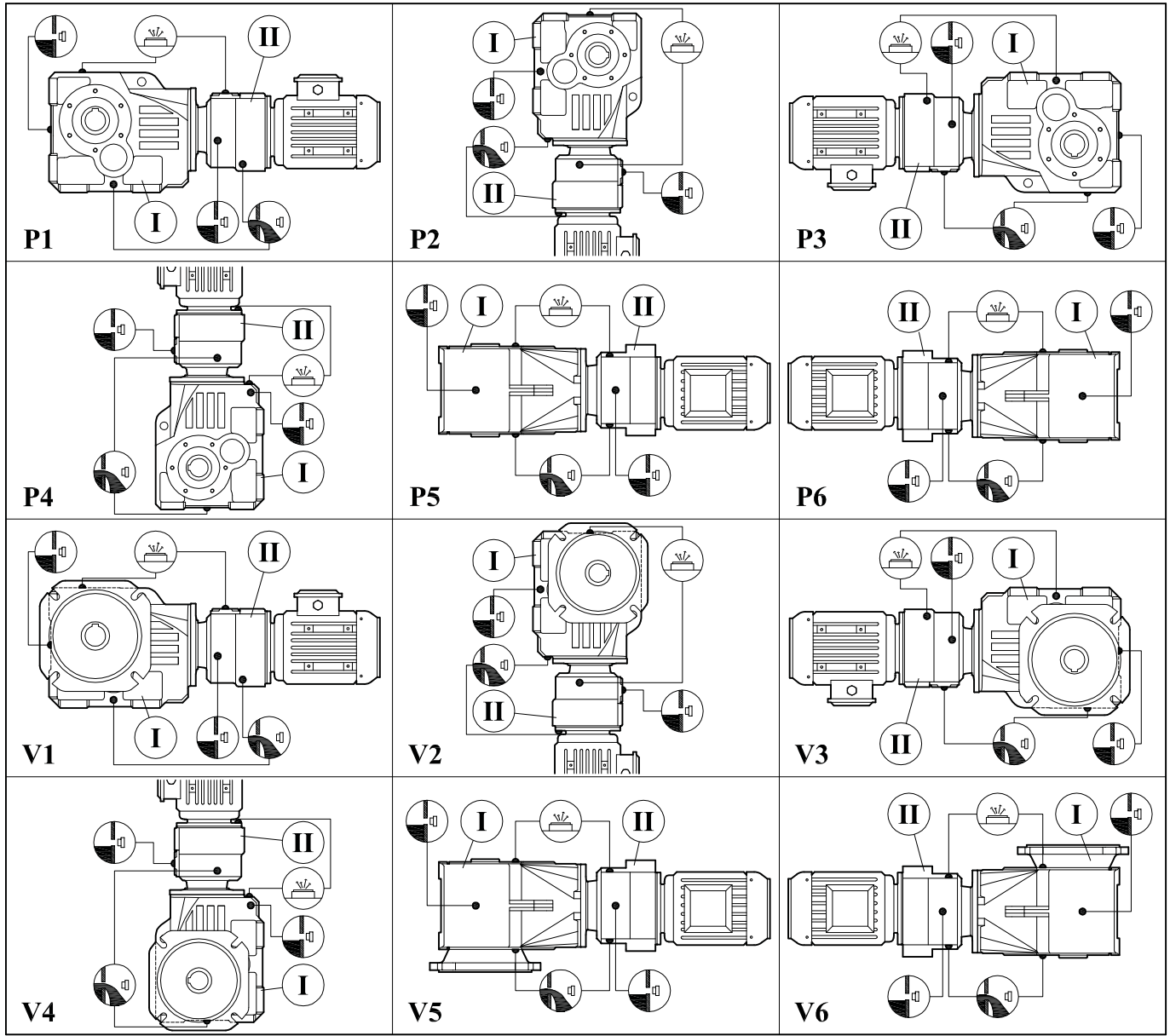


Yağ Seviye Tespit
Oil Level
Niveau d'huile



Yağ Boşaltma
Oil Drain Plug
Bouchon de drainage

TİP Type Type	Bağlantı Pozisyonları ve Yağ Miktarları (litre) Oil Quantities for Mounting Positions (liter) Quantités d'huiles en fonction de la position de montage (litres)											
	P1	V1	P2	V2	P3	V3	P4	V4	P5	V5	P6	V6
	I / II		I / II		I / II		I / II		I / II			
	I / II		I / II		I / II		I / II		I / II			
İRK.... 74	2 / 0,1		3,7 / 0,3		3,5 / 0,25		4,2 / 0,2		2,8 / 0,2			
İRK.... 84	5 / 0,2		6 / 0,35		6,5 / 0,4		8 / 0,35		5,5 / 0,35			
İRK.... 94	8 / 0,3		9 / 0,75		10 / 0,75		11 / 0,5		9 / 0,5			
İRK.... 104	10 / 0,6		21 / 1,2		24 / 1,3		28 / 1,1		17 / 1			
İRK.... 124	17 / 0,7		31 / 1,35		35 / 1,8		39 / 1,5		25 / 1,2			
İRK.... 144	30 / 1,85		50,5 / 4		53 / 4,5		70 / 4		49 / 2,75			



Semboller :
Seymbols :
Seymboles :



Yağ Doldurma ve Havalandırma
Oil Filling and Vent Plug
Valve d'aération



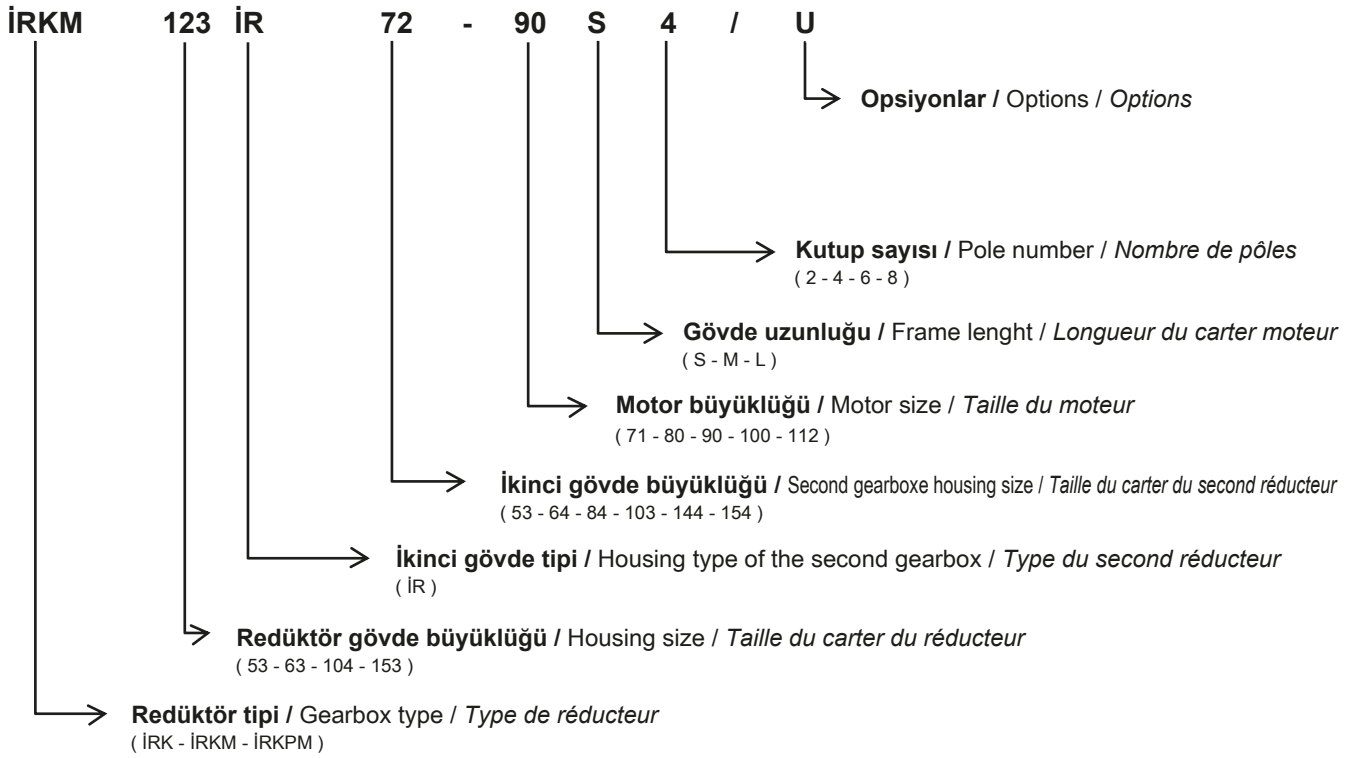
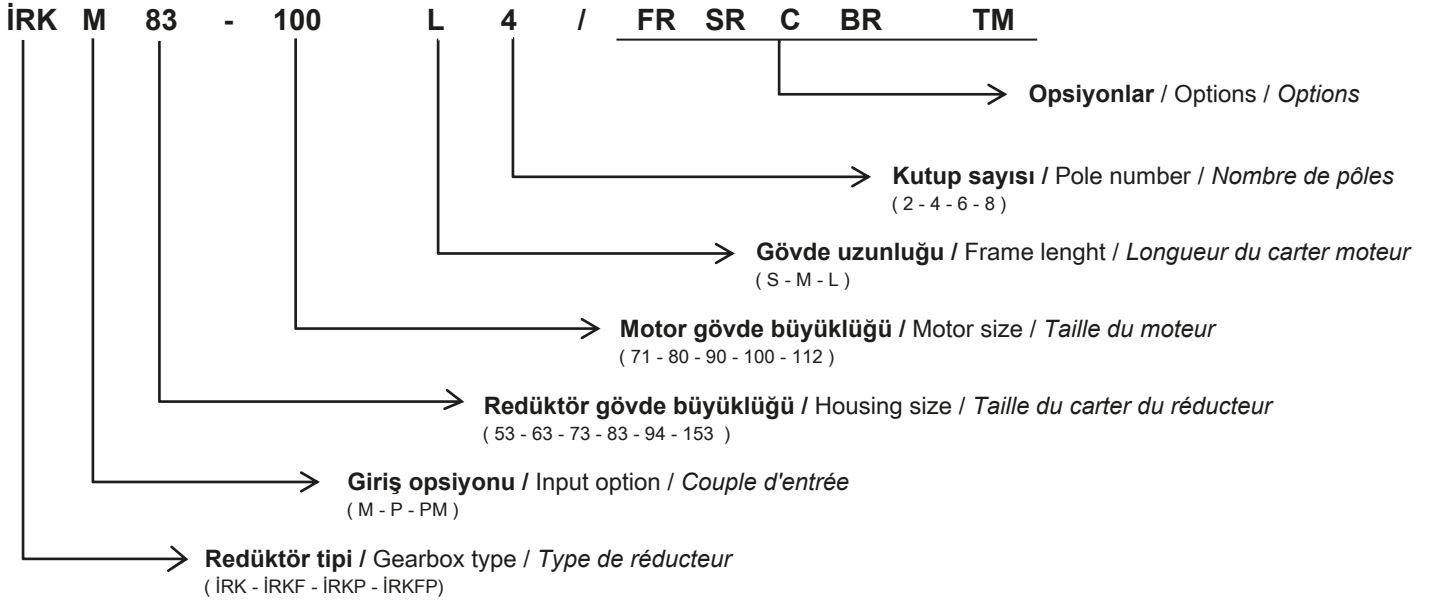
Yağ Seviye Tespit
Oil Level
Niveau d'huile



Yağ Boşaltma
Oil Drain Plug
Bouchon de drainage

TİP Type Type	Bağlantı Pozisyonları ve Yağ Miktarları (litre) Oil Quantities for Mounting Positions (liter) Quantites d'huiles en fonction de la position de montage (lites)											
	P1	V1	P2	V2	P3	V3	P4	V4	P5	V5	P6	V6
	I / II		I / II		I / II		I / II		I / II			
İRK.... 63 İR 52	1,3 / 0,8		1,3 / 1,2		1,3 / 0,8		2,2 / 0,8		1,3 / 0,8			
İRK.... 63 İR 53	1,3 / 0,75		1,3 / 1,15		1,3 / 0,75		2,2 / 0,75		1,3 / 0,75			
İRK.... 73 İR 52	2 / 0,8		3,7 / 1,2		3,5 / 0,8		4,2 / 0,8		2,8 / 0,8			
İRK.... 73 İR 53	2 / 0,75		3,7 / 1,15		3,5 / 0,75		4,2 / 0,75		2,8 / 0,75			
İRK.... 83 İR 52	5 / 0,8		6 / 1,2		6,5 / 0,8		8 / 0,8		5,5 / 0,8			
İRK.... 83 İR 53	5 / 0,75		6 / 1,15		6,5 / 0,75		8 / 0,75		5,5 / 0,75			
İRK.... 93 İR 62	8 / 1,25		9 / 1,8		10 / 1,25		11 / 1,8		9 / 1,25			
İRK.... 93 İR 63	8 / 1,1		9 / 1,65		10 / 1,1		11 / 1,65		9 / 1,1			
İRK.... 103 İR 62	10 / 1,25		21 / 1,8		24 / 1,8		28 / 1,8		17 / 1,25			
İRK.... 103 İR 63	10 / 1,1		21 / 1,65		24 / 1,65		28 / 1,65		17 / 1,1			

TİP Type Type	Bağlantı Pozisyonları ve Yağ Miktarları (litre) Oil Quantities for Mounting Positions (liter) Quantités d'huiles en fonction de la position de montage (litres)											
	P1	V1	P2	V2	P3	V3	P4	V4	P5	V5	P6	V6
	I / II		I / II		I / II		I / II		I / II			
İRK.... 123 İR 72	17 / 2,5		31 / 3		35 / 2,5		39 / 3		25 / 2,5			
İRK.... 123 İR 73	17 / 2,3		31 / 2,8		35 / 2,3		39 / 2,8		25 / 2,3			
İRK.... 143 İR 72	30 / 2,5		50,5 / 3		53 / 2,5		70 / 3		49 / 2,5			
İRK.... 143 İR 73	30 / 2,3		50,5 / 2,8		53 / 2,3		70 / 2,8		49 / 2,3			
İRK.... 143 İR 82	30 / 5,5		50,5 / 7,5		53 / 5,5		70 / 7,5		49 / 5,5			
İRK.... 143 İR 83	30 / 5		50,5 / 7		53 / 5		70 / 7		49 / 5			
İRK.... 153 İR 92	40 / 9		75 / 11		74 / 9		75 / 11		69 / 9			
İRK.... 153 İR 93	40 / 8		75 / 10		74 / 8		75 / 10		69 / 8			
İRK.... 153 İR 102	40 / 14		75 / 17		74 / 14		75 / 17		69 / 14			



Redüktörlerin Kontrol ve Bakımları

- 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 sıkamak 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 entraînant 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, veuillez à contacter votre revendeur ou le centre technique I-MAK le plus proche.

		YERLİ MALİ BELGESİ Domestic goods certificate <i>Certificat de produit national</i>
		TÜRK STANDARTLARI ENSTİTÜSÜ KRİTERE UYGUNLUK BELGESİ Certificate of conformity to Turkish standards <i>Certificats de conformité aux standards Turcs</i>
		MARKA YENİLEME BELGESİ Certificate of trademark registration <i>Certificat d'enregistrement de marque</i>
		ISO 9001:2008 YÖNETİM SİSTEMİ ISO 9000:2008 Quality management system <i>ISO 9000:2008 : Systèmes de management de la qualité</i>
		ISO10002:2004 MÜŞTERİ MEMNUNİYETİ YÖNETİM SİSTEMİ ISO 10002:2004 Customer satisfaction management system <i>ISO 10002:2004 Management de la qualité - Satisfaction clients</i>
		OHSAS 18001:2007 İŞ SAĞLIĞI VE GÜVENLİĞİ YÖNETİM SİSTEMİ OHSAS 18001:2007 : Occupational health and safety management <i>OHSAS 18001:2007 : Management de la santé et de la sécurité au travail</i>
		AT UYGUNLUK BEYANI CE Declaration of conformity <i>Déclaration de conformité aux standards CE</i>
		EC TYPE EXAMINATION CERTIFICATE ATEX Certificate <i>Certificat ATEX</i>

İRK Serisi Motorlu Redüktörler Güç ve Devir Tabloları

IRK Series Motor Power Ratings and Output Speed
IRK Series puissances et vitesses de sorties moteur



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,12 0,16	0,17	8292	0,77	6199	38600	İRK İRKFM	103 İR 63 / 63 M 4a	169 170	206 226
	0,19	7307	0,88	5463	38600				
	0,26	5423	1,13	4054	38600				
	0,32	4412	1,35	3298	38600				
	0,35	4004	1,45	2993	38600				
	0,38	3660	1,79	2736	38600				
	0,43	3293	1,94	2462	38600				
	0,47	2977	2,20	2226	38600				
	0,57	2460	2,70	1839	38600				
	0,66	2125	2,80	1589	38600				
	0,73	1912	2,90	1429	38600				
	0,89	1569	3,40	1173	38600				
	0,98	1428	3,40	1068	38600				
	1,1	1304	3,40	975	38600				
	1,2	1193	3,40	892	38600				
	0,27	5137	0,80	3840	26150	İRK İRKFM	93 İR 63 / 63 M 4a	163 164	146 157
	0,33	4218	0,97	3153	26150				
	0,35	3962	1,07	2962	26150				
	0,39	3555	1,19	2658	26150				
	0,44	3206	1,27	2397	26150				
	0,53	2632	1,55	1968	26150				
	0,56	2484	1,69	1857	26150				
	0,63	2229	1,86	1666	26150	İRKPM İRKFPM	83 İR 53 / 63 M 4a	157 158	83 89
	0,48	2919	0,88	2182	19180				
	0,54	2577	0,98	1927	19180				
	0,68	2047	1,18	1530	19180				
	0,75	1860	1,24	1391	19180				
	0,93	1502	1,50	1123	19180				
	1,0	1379	1,62	1031	19180				
	1,1	1225	1,85	916	19180	İRKPM İRKFPM	83 İR 52 / 63 M 4a	157 158	82 88
	1,3	1041	2,10	790	19180				
	1,5	912	2,40	692	19180				
	1,7	813	2,90	617	19180				
	1,9	726	3,70	551	19180				
	2,2	636	3,90	483	19180				
	1,0	1374	0,82	1027	12100	İRKPM İRKFPM	73 İR 53 / 63 M 4a	151 152	52 56
	1,2	1208	0,98	903	12100				
	1,3	1068	1,15	798	12100				
	1,5	944	1,30	706	12100				
	1,6	852	1,41	637	12100				
	1,8	774	1,55	579	12100				
	2,0	683	1,89	511	12100				
2,3	606	1,82	460	12100	İRKPM İRKFPM	73 İR 52 / 63 M 4a	151 152	51 55	
2,5	552	2,00	419	12100					
2,9	484	2,30	367	12100					
3,3	427	2,60	324	12100					
3,7	375	3,30	285	12100					
4,2	331	3,70	251	12100					
5,3	265	4,30	201	12100					
6,0	234	4,90	178	12100	İRKPM İRKFPM	74 / 63 M 4a	149 150	40 44	
6,8	207	5,50	157	12100					
3,6	388	2,80	299	12100					
4,6	305	3,60	235	12100					
2,4	592	1,03	449	7450					
2,7	519	1,17	394	7450					
3,0	466	1,30	354	7450					
3,3	419	1,45	318	7450	İRKPM İRKFPM	63 İR 52 / 63 M 4a	145 146	42 44	



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
Helical Bevel Geared Motor Performance Tables / Motoréducteur à couple conique table des performances



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,12 0,16	3,7	378	1,60	287	7450	İRKPM İRKFPM	63 İR 52 / 63 M 4a	145 146	42 44
	4,1	342	1,78	260	7450				
	4,3	325	1,87	247	7450				
	4,9	288	2,10	219	7450				
	5,5	253	2,00	192	7450				
	6,3	224	2,30	170	7450				
	7,0	200	2,50	152	7450				
	7,8	179	2,70	136	7450				
	8,7	161	2,90	122	7450				
	9,6	146	3,10	111	7450				
	10	139	3,10	106	7450	İRKPM İRKFPM	63 / 63 M 4a	143 144	27 30
	11	133	3,70	104	7450				
	12	121	4,00	95	7450				
	12	115	4,30	90	7450				
	13	105	4,70	82	7450				
	15	91,93	5,40	72	7450				
	17	82,84	6,20	65	7450				
	19	71,84	6,90	56	7450				
	21	65,30	7,60	51	7450				
	24	57,20	8,70	45	7450				
	28	50,52	9,60	40	7450	İRKPM İRKFPM	53 / 63 M 4a	139 140	16 18
	18	77,20	4,10	60	5450				
	21	66,47	4,50	52	5450				
	24	57,78	5,50	45	5450				
	28	50,60	6,40	40	5450				
	32	43,56	7,30	34	5450				
	37	38,14	8,20	30	5450				
	42	33,60	9,60	26	5450				
	43	32,18	10,50	25	5450				
	47	29,92	10,50	23	5450	İRKPM İRKFPM	43 / 63 M 4a	139 140	16 18
	18	77,20	4,10	60	5450				
	21	66,47	4,50	52	5450				
	24	57,78	5,50	45	5450				
	28	50,60	6,40	40	5450				
	32	43,56	7,30	34	5450				
	37	38,14	8,20	30	5450				
	42	33,60	9,60	26	5450				
	43	32,18	10,5	25	5450				
	47	29,92	10,5	23	5450	İRKPM İRKFPM	103 İR 63 / 63 M 4b	169 170	206 226
0,18 0,25	0,32	4412	0,90	4948	38600				
	0,35	4004	0,97	4490	38600				
	0,38	3660	1,19	4104	38600				
	0,43	3293	1,29	3693	38600				
	0,47	2977	1,47	3338	38600				
	0,57	2460	1,80	2759	38600				
	0,66	2125	1,86	2383	38600				
	0,73	1912	1,96	2144	38600				
	0,89	1569	2,20	1759	38600				
	0,98	1428	2,20	1601	38600				
	1,1	1304	2,20	1462	38600				
	1,2	1193	2,20	1338	38600				
	0,44	3206	0,85	3595	26150	İRKPM İRKFPM	93 İR 63 / 63 M 4b	163 164	146 157
	0,53	2632	1,03	2952	26150				
	0,56	2484	1,13	2786	26150				
	0,63	2229	1,24	2500	26150	İRKPM İRKFPM	83 İR 53 / 63 M 4b	157 158	83 89
	0,93	1502	1,00	1684	19180				
	1,0	1379	1,08	1546	19180				
	1,1	1225	1,23	1374	19180				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,18 0,25	1,3	1041	1,40	1185	19180	İRKPM İRKFPM	83 İR 52 / 63 M 4b	157 158	82 88
	1,5	912	1,60	1038	19180				
	1,7	813	1,93	926	19180				
	1,9	726	2,50	827	19180				
	2,2	636	2,60	724	19180				
	2,4	586	2,60	667	19180				
	2,7	514	2,90	585	19180				
	3,3	428	3,40	487	19180				
	3,7	375	3,80	427	19180	İRKPM İRKFPM	84 / 71 M 6a	155 156	74 80
	1,5	619	1,19	1113	19180				
	1,6	546	1,35	982	19180				
	1,9	486	1,53	873	19180				
	2,0	459	1,75	825	19180	İRKPM İRKFPM	73 İR 53 / 63 M 4b	151 152	52 56
	2,2	405	1,96	728	19180				
	1,5	944	0,87	1059	12100				
	1,6	852	0,94	955	12100				
	1,8	774	1,03	868	12100				
	2,0	683	1,26	766	12100				
	2,3	606	1,21	690	12100				
	2,5	552	1,33	628	12100	İRKPM İRKFPM	73 İR 52 / 63 M 4b	151 152	51 55
	2,9	484	1,53	551	12100				
	3,3	427	1,73	486	12100				
	3,7	375	2,20	427	12100				
	4,2	331	2,50	377	12100				
	5,3	265	2,90	302	12100				
	6,0	234	3,30	266	12100				
	6,8	207	3,70	236	12100	İRKPM İRKFPM	74 / 71 M 6a	149 150	41 45
	2,3	388	1,23	698	12100				
	3,0	305	1,56	548	12100	İRKPM İRKFPM	74 / 63 M 4b	149 150	40 44
	3,6	388	1,92	449	12100				
	4,6	305	2,40	352	12100				
	5,7	246	3,00	285	12100				
	6,7	210	3,50	243	12100	İRKPM İRKFPM	73 / 71 M 6a	147 148	38 42
	7,3	191	3,90	220	12100				
	6,7	134	3,00	245	12100	İRKPM İRKFPM	73 / 71 M 6a	147 148	38 42
	7,2	125	3,20	228	12100				
	7,7	117	3,40	214	12100	İRKPM İRKFPM	63 İR 52 / 63 M 4b	145 146	42 44
	3,0	466	0,87	531	7450				
	3,3	419	0,97	477	7450				
	3,7	378	1,07	430	7450				
4,1	342	1,19	389	7450					
4,3	325	1,25	370	7450					
4,9	288	1,40	328	7450					
5,5	253	1,36	288	7450					
6,3	224	1,53	255	7450					
7,0	200	1,67	228	7450					
7,8	179	1,80	204	7450					
8,7	161	1,94	183	7450					
9,6	146	2,10	166	7450					
10	139	2,10	158	7450					
6,8	133	1,60	243	7450	İRKPM İRKFPM	63 / 71 M 6a	143 144	29 31	
7,4	121	1,73	221	7450					
11	82,84	2,70	151	7450	İRKPM İRKFPM	63 / 71 M 6a	143 144	29 31	
7,8	115	1,80	211	7450					
8,6	105	2,00	192	7450					
9,8	91,93	2,30	168	7450					
13	71,84	3,00	131	7450					
14	65,30	3,30	119	7450					



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg			
0,18 0,25	11	133	2,50	156	7450	İRKPM İRKFPM	63 / 63 M 4b	143 144	27 30			
	12	121	2,70	142	7450							
	12	115	2,90	135	7450							
	13	105	3,10	123	7450							
	15	91,93	3,60	108	7450							
	17	82,84	4,10	97	7450							
	19	71,84	4,60	84	7450							
	21	65,30	5,00	77	7450							
	24	57,20	5,80	67	7450							
	28	50,52	6,40	59	7450							
	12	77,20	1,80	141	5450	İRKPM İRKFPM	53 / 71 M 6a	139 140	18 19			
	14	66,47	2,00	121	5450							
	16	57,78	2,40	105	5450	İRKPM İRKFM	53 / 71 M 6a	139 140	18 19			
	18	50,60	2,70	92	5450							
	21	43,56	3,20	80	5450	İRKPM İRKFPM	53 / 63 M 4b	139 140	16 18			
	18	77,20	2,70	91	5450							
	21	66,47	3,00	78	5450							
	24	57,78	3,60	68	5450							
	28	50,60	4,20	59	5450							
	32	43,56	4,90	51	5450							
	37	38,14	5,50	45	5450							
	42	33,60	6,40	39	5450							
	43	32,18	7,00	38	5450							
	47	29,92	7,00	35	5450							
	49	28,66	7,90	34	5450	İRKPM İRKFPM	43 / 71 M 6a	139 140	18 19			
	55	25,25	7,00	30	5450							
	63	22,34	10,00	26	5450	İRKPM İRKFPM	43 / 71 M 6a	139 140	18 19			
	12	77,20	1,80	141	5450							
	14	66,47	2,00	121	5450	İRKPM İRKFPM	43 / 63 M 4b	139 140	16 18			
	16	57,78	2,40	105	5450							
	18	50,60	2,70	92	5450	İRKPM İRKFPM	43 / 63 M 4b	139 140	16 18			
	21	43,56	3,20	80	5450							
	18	77,20	2,70	91	5450							
	21	66,47	3,00	78	5450							
	24	57,78	3,60	68	5450							
	28	50,60	4,20	59	5450							
	32	43,56	4,90	51	5450							
	37	38,14	5,50	45	5450							
	42	33,60	6,40	39	5450							
	43	32,18	7,00	38	5450							
47	29,92	7,00	35	5450	İRKPM İRKFM	143 İR 73 / 71 M 4a	181 182	594 644				
49	28,66	7,90	34	5450								
55	25,25	7,00	30	5450								
63	22,34	10,00	26	5450								
0,25 0,34	0,14	9706	1,00	15117	75000				İRKPM İRKFM	143 İR 73 / 71 M 4a	181 182	594 644
	0,16	8552	1,10	13320	75000							
	0,18	7589	1,20	11820	75000							
	0,21	6779	1,34	10558	75000							
	0,23	6090	1,58	9485	75000							
	0,25	5495	1,73	8559	75000							
	0,28	5059	1,94	7879	75000							
	0,31	4489	2,20	6992	75000							
	0,35	4010	2,40	6246	75000							
	0,39	3602	2,90	5610	75000							
	0,43	3251	3,50	5063	75000							
	0,51	2728	3,50	4249	75000							
	0,62	2245	3,50	3497	75000							
	0,75	1866	3,50	2906	75000							
	0,80	1757	3,50	2737	75000							
	0,97	1446	3,50	2252	75000							



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,25 0,34	0,18	7630	0,79	11884	60800	İRK İRKFM	123 İR 73 / 71 M 4a	175 176	321 351
	0,21	6596	0,93	10273	60800				
	0,24	5893	0,99	9178	60800				
	0,26	5288	1,07	8236	60800				
	0,31	4526	1,25	7049	60800				
	0,35	4023	1,40	6266	60800				
	0,39	3594	1,57	5598	60800				
	0,43	3225	1,77	5023	60800				
	0,48	2903	1,84	4521	60800				
	0,50	2781	1,69	4331	60800				
	0,57	2472	2,10	3850	60800				
	0,63	2208	2,40	3439	60800				
	0,71	1982	2,60	3087	60800				
	0,78	1784	3,00	2779	60800				
	0,87	1610	3,10	2508	60800				
	0,96	1456	3,10	2268	60800				
	1,1	1319	3,10	2054	60800				
	1,2	1195	3,10	1861	60800				
	1,3	1084	3,10	1688	60800				
	0,40	3486	0,80	5430	38600				
	0,51	2772	0,98	4317	38600				
	0,62	2255	1,17	3512	38600				
	0,68	2047	1,23	3188	38600				
	0,75	1871	1,57	2914	38600				
	0,83	1683	1,78	2621	38600				
	0,92	1521	2,10	2369	38600				
	1,1	1257	2,50	1958	38600				
	1,2	1148	2,70	1788	38600				
	1,4	977	2,70	1522	38600				
	1,6	883	2,70	1375	38600				
	1,9	748	3,90	1165	38600				
	2,1	678	3,90	1056	38600				
	2,5	564	3,90	878	38600				
	0,70	2002	0,91	3118	26150				
	0,78	1797	0,98	2799	26150				
	0,86	1620	1,09	2523	26150				
	0,95	1466	1,24	2283	26150				
	1,2	1210	1,41	1885	26150				
	1,3	1103	1,49	1718	26150				
	1,4	1007	1,81	1568	26150				
	1,7	806	1,71	1255	26150				
	1,9	736	1,81	1146	26150				
	2,3	614	2,10	956	26150				
	2,5	560	2,50	872	26150				
3,0	467	2,80	727	26150					
3,3	427	3,00	665	26150					
1,8	502	2,00	1252	26150					
2,0	455	2,20	1136	26150					
2,2	415	2,50	1036	26150					
2,6	344	2,90	860	26150					
1,1	1225	0,89	1908	19180					
1,3	1041	1,00	1646	19180					
1,5	912	1,15	1442	19180					
1,7	813	1,39	1286	19180					
1,9	726	1,77	1148	19180					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,25 0,34	2,2	636	1,87	1006	19180	İRK İRKFM	83 İR 52 / 71 M 4a	157 158	85 91
	2,4	586	1,87	927	19180				
	2,7	514	2,10	813	19180				
	3,3	428	2,50	677	19180				
	3,7	375	2,70	593	19180				
	4,2	332	3,00	525	19180				
	4,7	297	3,30	470	19180				
	5,3	266	3,50	421	19180				
	6,0	233	4,00	368	19180				
	6,8	206	4,50	326	19180				
	7,7	183	5,10	289	19180				
	1,5	619	0,86	1546	19180	İRK İRKFM	84 / 71 M 6b	155 156	77 83
	1,6	546	0,97	1363	19180				
	1,9	486	1,10	1212	19180				
	2,0	459	1,26	1146	19180				
	2,2	405	1,43	1011	19180	İRK İRKFM	84 / 71 M 4a	155 156	75 81
	2,3	619	1,34	994	19180				
	2,6	546	1,51	876	19180				
	2,9	486	1,71	779	19180				
	3,1	459	1,95	737	19180				
	3,5	405	2,20	650	19180				
	3,9	360	2,50	578	19180				
	4,3	322	2,80	517	19180	İRK İRKFM	83 / 80 M 8b	153 154	75 81
	3,0	236	1,76	770	19180				
	3,4	204	2,00	666	19180				
	3,9	180	2,30	587	19180				
	4,2	166	2,50	541	19180	İRK İRKFM	83 / 71 M 6b	153 154	72 78
	4,9	143	2,90	468	19180				
	3,8	236	2,20	599	19180				
	4,4	204	2,60	518	19180	İRK İRKFM	73 İR 53 / 71 M 4a	151 152	54 58
	5,0	180	2,90	457	19180				
	5,4	166	3,30	421	19180				
	6,3	143	3,80	364	19180	İRK İRKFM	73 İR 52 / 71 M 4a	151 152	53 57
	2,0	683	0,91	1064	12100				
	2,3	606	0,87	958	12100				
	2,5	552	0,96	873	12100				
	2,9	484	1,10	765	12100				
	3,3	427	1,25	675	12100				
	3,7	375	1,58	593	12100				
	4,2	331	1,78	523	12100				
5,3	265	2,10	419	12100					
6,0	234	2,40	370	12100					
6,8	207	2,60	327	12100	İRK İRKFM	74 / 71 M 6b	149 150	44 48	
7,7	183	3,00	289	12100					
8,6	162	3,30	256	12100					
9,7	144	5,50	228	12100					
11	128	6,20	202	12100	İRK İRKFM	74 / 71 M 4a	149 150	42 46	
2,3	388	0,88	969	12100					
3,0	305	1,12	761	12100					
3,6	388	1,38	623	12100					
4,6	305	1,72	490	12100					
5,7	246	2,10	396	12100					
6,7	210	2,50	337	12100					
7,3	191	2,80	306	12100	İRK İRKFM				
8,6	163	3,30	261	12100					



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,25 0,34	6,7	134	2,20	340	12100	İRKPM	73 / 71 M 6b	147	41
	7,2	125	2,30	317	12100	İRKFPM		148	45
	7,7	117	2,40	297	12100	İRK İRKFM	73 / 71 M 6b	147	41
	10	134	3,30	218	12100	İRKPM		148	45
	11	125	3,60	204	12100	İRKPM	73 / 71 M 4a	147	39
	12	117	3,90	191	12100	İRKFPM		148	43
	15	91,96	4,90	150	12100	İRK İRKFM	73 / 71 M 4a	147	39
	4,1	342	0,85	541	7450	İRK İRKFM		63 İR 52 / 71 M 4a	148
	4,3	325	0,90	514	7450				
	4,9	288	1,01	455	7450				
	5,5	253	0,98	400	7450				
	6,3	224	1,10	354	7450				
	7,0	200	1,20	316	7450				
	7,8	179	1,30	283	7450				
	8,7	161	1,40	255	7450				
	9,6	146	1,51	231	7450				
	10	139	1,51	220	7450				
	6,8	133	1,15	338	7450	İRKPM İRKFPM	63 / 71 M 6b	145	44
	7,4	121	1,25	307	7450			146	47
	11	82,84	1,92	210	7450	İRK İRKFM	63 İR 52 / 71 M 4a	143	32
	7,8	115	1,30	293	7450			144	34
	8,6	105	1,44	266	7450	İRKPM İRKFPM	63 / 71 M 6b	143	32
	9,8	91,93	1,68	233	7450			144	34
	13	71,84	2,20	182	7450	İRK İRKFM	63 / 71 M 6b	143	32
	14	65,30	2,40	166	7450			144	34
	11	133	1,78	217	7450	İRKPM İRKFPM	63 / 71 M 4a	143	30
	12	121	1,92	197	7450			144	32
	17	82,84	3,00	135	7450	İRK İRKFM	63 / 71 M 4a	143	30
	28	50,52	4,60	82	7450			144	32
	12	115	2,10	188	7450	İRKPM İRKFPM	63 / 71 M 6b	143	32
	13	105	2,30	171	7450			144	32
	15	91,93	2,60	150	7450	İRK İRKFM	63 / 71 M 4a	143	30
	19	71,84	3,30	117	7450			144	32
	21	65,30	3,60	106	7450	İRKPM İRKFPM	53 / 71 M 6b	139	21
	24	57,20	4,20	93	7450			140	22
	31	44,90	5,20	73	7450	İRK İRKFM	53 / 71 M 6b	139	21
	12	77,20	1,30	196	5450			140	22
	14	66,47	1,44	169	5450	İRKPM İRKFPM	53 / 71 M 4a	139	19
	16	57,78	1,73	146	5450			140	20
	18	50,60	1,94	128	5450	İRK İRKFM	53 / 71 M 6b	139	19
	21	43,56	2,30	110	5450			140	22
	18	77,20	1,98	126	5450	İRKPM İRKFPM	53 / 71 M 4a	139	19
	21	66,47	2,20	108	5450			140	20
	24	57,78	2,60	94	5450	İRK İRKFM	53 / 71 M 4a	139	19
	28	50,60	3,10	82	5450			140	20
	32	43,56	3,50	71	5450				
	37	38,14	3,90	62	5450				
	42	33,60	4,60	55	5450				
43	32,18	5,10	52	5450					
47	29,92	5,10	49	5450					
49	28,66	5,70	47	5450					
55	25,25	5,10	41	5450					
63	22,34	7,20	36	5450					
71	19,83	8,10	32	5450					
79	17,65	9,20	29	5450					
89	15,73	10,30	26	5450					



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,25 0,34	98	14,25	8,6	24	5450	İRKPM İRKFPM	52 / 71 M 4a	139 140	18 19
	114	12,27	9,6	20	5450	İRKPM İRKFPM	52 / 71 M 4a	139 140	18 19
	131	10,67	10,7	18	5450				
	150	9,342	11,7	15	5450				
	170	8,229	12,7	14	5450				
	192	7,280	13,7	12	5450				
	217	6,463	14,6	11	5450				
	243	5,751	15,6	10	5450				
	257	5,453	14,6	9	5450				
	289	4,853	15,6	8	5450				
	324	4,325	16,5	7	5450				
	12	77,20	1,30	196	5450	İRKPM İRKFPM	43 / 71 M 6b	139 140	21 22
	14	66,47	1,44	169	5450	İRKPM İRKFPM	43 / 71 M 6b	139 140	21 22
	16	57,78	1,73	146	5450				
	18	50,60	1,94	128	5450	İRKPM İRKFPM	43 / 71 M 4a	139 140	19 20
	21	43,56	2,30	110	5450				
	18	77,20	1,98	126	5450	İRKPM İRKFPM	43 / 71 M 4a	139 140	19 20
	21	66,47	2,20	108	5450				
	24	57,78	2,60	94	5450				
	28	50,60	3,10	82	5450				
	32	43,56	3,50	71	5450				
	37	38,14	3,90	62	5450				
	42	33,60	4,60	55	5450				
	43	32,18	5,10	52	5450				
	47	29,92	5,10	49	5450				
	49	28,66	5,70	47	5450				
	55	25,25	5,10	41	5450	İRKPM İRKFPM	42 / 71 M 4a	139 140	18 19
	63	22,34	7,20	36	5450				
	71	19,83	8,10	32	5450				
	79	17,65	9,20	29	5450				
	89	15,73	10,3	26	5450				
	98	14,25	8,60	24	5450				
	114	12,27	9,60	20	5450				
	131	10,67	10,7	18	5450				
	150	9,342	11,7	15	5450				
	170	8,229	12,7	14	5450				
0,37 0,5	192	7,280	13,7	12	5450	İRKPM İRKFPM	143 İR 73 / 71 M 4b	181 182	594 644
	217	6,463	14,6	11	5450				
	243	5,751	15,6	10	5450				
	257	5,453	14,6	9	5450				
	289	4,853	15,6	8	5450				
	324	4,325	16,5	7	5450				
	0,18	7589	0,81	17494	75000				
	0,21	6779	0,91	15626	75000				
	0,23	6090	1,07	14038	75000				
	0,25	5495	1,17	12667	75000				
	0,28	5059	1,31	11662	75000				
	0,31	4489	1,46	10348	75000				
	0,35	4010	1,65	9244	75000				
	0,39	3602	1,95	8303	75000				
	0,43	3251	2,40	7494	75000				
	0,51	2728	2,40	6288	75000				
	0,62	2245	2,40	5175	75000				
	0,75	1866	2,40	4301	75000				
	0,80	1757	2,40	4050	75000				
	0,97	1446	2,40	3333	75000				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>							
0,37 0,5	0,31	4526	0,84	10433	60800	İRK İRKFM	123 İR 73 / 71 M 4b	175 176	321 351				
	0,35	4023	0,95	9274	60800								
	0,39	3594	1,06	8285	60800								
	0,43	3225	1,20	7434	60800								
	0,48	2903	1,24	6692	60800								
	0,50	2781	1,14	6411	60800								
	0,57	2472	1,42	5698	60800								
	0,63	2208	1,62	5090	60800								
	0,71	1982	1,75	4569	60800								
	0,78	1784	2,00	4112	60800								
	0,87	1610	2,10	3711	60800								
	0,96	1456	2,10	3356	60800								
	1,1	1319	2,10	3040	60800								
	1,2	1195	2,10	2755	60800								
	1,3	1084	2,10	2499	60800								
	0,62	2255	0,80	5198	38600	İRK İRKFM	103 İR 63 / 71 M 4b	169 170	209 229				
	0,68	2047	0,83	4719	38600								
	0,75	1871	1,06	4313	38600								
	0,83	1683	1,20	3880	38600								
	0,92	1521	1,42	3506	38600								
	1,1	1257	1,69	2898	38600								
	1,2	1148	1,82	2646	38600								
	1,4	977	1,82	2252	38600								
	1,6	883	1,82	2035	38600								
	1,9	748	2,60	1724	38600								
	2,1	678	2,60	1563	38600								
	2,5	564	2,60	1300	38600								
	0,95	1466	0,84	3379	26150					İRK İRKFM	93 İR 63 / 71 M 4b	163 164	149 160
	1,2	1210	0,95	2789	26150								
	1,3	1103	1,00	2543	26150								
	1,4	1007	1,22	2321	26150								
	1,7	806	1,15	1858	26150								
	1,9	736	1,22	1697	26150								
	2,3	614	1,41	1415	26150								
	2,5	560	1,69	1291	26150								
	3,0	467	1,89	1076	26150								
	3,3	427	2,00	984	26150								
	3,9	362	3,10	847	26150	İRK İRKFM	93 İR 62 / 71 M 4b	163 164	144 155				
	4,3	327	3,50	765	26150								
	5,0	280	4,10	655	26150								
	1,8	502	1,38	1853	26150	İRK İRKFM	94 / 80 M 6a	161 162	127 138				
	2,0	455	1,51	1681	26150								
	2,2	415	1,68	1533	26150								
	2,6	344	2,00	1272	26150								
	3,0	304	2,30	1122	26150								
3,3	271	2,50	1000	26150	İRK İRKFM	94 / 71 M 4b	161 162	125 136					
2,8	502	2,10	1192	26150									
3,1	455	2,30	1081	26150									
3,4	415	2,60	985	26150									
3,9	179	3,00	866	26150									
4,4	158	3,30	764	26150	İRK İRKFM	93 / 90 S 8a	159 160	124 135					
4,7	149	3,50	721	26150									
5,0	179	3,90	673	26150									
5,7	158	4,30	595	26150	İRK İRKFM	93 / 80 M 6a	159 160	121 132					
6,0	149	4,50	561	26150									
6,7	134	5,20	502	26150									
7,5	121	5,70	453	26150									



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,37 0,5	1,5	912	0,78	2134	19180	İRK İRKFM	83 İR 52 / 71 M 4b	157 158	85 91
	1,7	813	0,94	1903	19180				
	1,9	726	1,20	1699	19180				
	2,2	636	1,26	1488	19180				
	2,4	586	1,26	1371	19180				
	2,7	514	1,41	1203	19180				
	3,3	428	1,65	1002	19180				
	3,7	375	1,85	878	19180				
	4,2	332	2,00	777	19180				
	4,7	297	2,20	695	19180				
	5,3	266	2,40	623	19180				
	6,0	233	2,70	545	19180				
	6,8	206	3,00	482	19180				
	7,7	183	3,40	428	19180				
	9,4	149	4,10	349	19180				
	2,0	459	0,85	1696	19180	İRK İRKFM	84 / 80 M 6a	155 156	77 83
	2,2	405	0,96	1496	19180	İRK İRKFM	84 / 71 M 4b	155 156	75 81
	2,3	619	0,90	1471	19180				
	2,6	546	1,02	1297	19180				
	2,9	486	1,15	1154	19180				
	3,1	459	1,31	1090	19180				
	3,5	405	1,48	961	19180				
	3,9	360	1,69	855	19180				
	4,3	322	1,89	766	19180				
	5,4	261	2,20	621	19180	İRK İRKFM	83 / 90 S 8a	153 154	75 81
	3,4	204	1,35	986	19180				
	3,9	180	1,55	869	19180	İRK İRKFM	83 / 80 M 6a	153 154	72 78
	4,9	143	1,96	692	19180				
	3,8	236	1,48	887	19180				
	4,4	204	1,75	767	19180				
	5,0	180	1,96	676	19180				
	5,4	166	2,20	623	19180				
	6,3	143	2,50	538	19180				
	7,1	127	2,90	475	19180				
	8,0	113	3,20	422	19180	İRK İRKFM	83 / 71 M 4b	153 154	70 76
	5,9	236	2,40	570	19180				
	6,9	204	2,70	493	19180				
	7,8	180	3,10	435	19180				
	8,4	166	3,80	400	19180				
	9,8	143	4,30	346	19180	İRK İRKFM	73 İR 52 / 71 M 4b	151 152	53 57
3,3	427	0,84	999	12100					
3,7	375	1,07	878	12100					
4,2	331	1,20	775	12100					
5,3	265	1,39	620	12100					
6,0	234	1,59	548	12100					
6,8	207	1,78	484	12100					
7,7	183	2,00	428	12100					
8,6	162	2,20	379	12100					
9,7	144	3,70	337	12100					
11	128	4,20	300	12100	İRK İRKFM	74 / 71 M 4b	149 150	42 46	
3,6	388	0,93	922	12100					
4,6	305	1,16	724	12100					
5,7	246	1,46	585	12100					
6,7	210	1,70	499	12100					
7,3	191	1,89	453	12100					
8,6	163	2,20	386	12100					
11	131	2,70	312	12100					
12	119	3,00	283	12100					



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,37 0,5	6,7	134	1,45	503	12100	İRKPM İRKFPM	73 / 80 M 6a	147 148	41 45
	7,2	125	1,55	469	12100	İRKPM İRKFPM	73 / 80 M 6a	147 148	41 45
	7,7	117	1,65	439	12100	İRKPM İRKFPM	73 / 80 M 6a	147 148	41 45
	10	134	2,30	323	12100	İRKPM İRKFPM	73 / 71 M 4b	147 148	39 43
	11	125	2,40	302	12100	İRKPM İRKFPM	73 / 71 M 4b	147 148	39 43
	12	117	2,60	282	12100	İRKPM İRKFPM	73 / 71 M 4b	147 148	39 43
	15	91,96	3,30	222	12100	İRKPM İRKFPM	73 / 71 M 4b	147 148	39 43
	19	74,32	4,10	179	12100	İRKPM İRKFPM	73 / 71 M 4b	147 148	39 43
	7,0	200	0,81	468	7220	İRKPM İRKFPM	63 İR 52 / 71 M 4b	145 146	44 47
	7,8	179	0,88	419	7220				
	8,7	161	0,93	377	7220				
	9,6	146	1,02	342	7220				
	10	139	1,02	325	7220	İRKPM İRKFPM	63 / 80 M 6a	143 144	32 34
	11	82,84	1,30	311	7220	İRKPM İRKFPM	63 / 80 M 6a	143 144	32 34
	8,6	105	0,97	394	7220	İRKPM İRKFPM	63 / 80 M 6a	143 144	32 34
	9,8	91,93	1,14	345	7220				
	13	71,84	1,46	270	7220	İRKPM İRKFPM	63 / 80 M 6a	143 144	32 34
	14	65,30	1,59	245	7220				
	11	133	1,20	321	7220	İRKPM İRKFPM	63 / 71 M 4b	143 144	30 32
	12	121	1,30	292	7220				
	17	82,84	2,00	200	7220				
	28	50,52	3,10	122	7060	İRKPM İRKFPM	63 / 71 M 4b	143 144	30 32
	12	115	1,40	278	7220				
	13	105	1,52	253	7220				
	15	91,93	1,75	222	7060				
	19	71,84	2,20	173	7060				
	21	65,30	2,50	157	7060				
	24	57,20	2,80	138	7060				
	31	44,90	3,50	108	7060				
	36	38,58	4,20	93	7000				
	41	34,47	4,70	83	7000				
	45	30,93	5,30	75	7000	İRKPM İRKFPM	53 / 80 M 6a	139 140	21 22
	50	27,84	5,80	67	7000				
	56	25,13	6,50	61	7000				
	62	22,73	7,10	55	7000				
	12	77,20	0,88	290	5000				
	14	66,47	0,97	249	5000				
	16	57,78	1,17	217	5000				
	18	50,60	1,31	190	5000				
	21	43,56	1,56	163	5000				
	18	77,20	1,33	186	5000				
	21	66,47	1,48	160	5000				
	24	57,78	1,78	139	5000	İRKPM İRKFPM	53 / 71 M 4b	139 140	19 20
	28	50,60	2,10	122	5000				
	32	43,56	2,40	105	5000				
	37	38,14	2,70	92	5000				
	42	33,60	3,10	81	5000				
	43	32,18	3,40	78	5000				
	47	29,92	3,40	72	5000				
	49	28,66	3,90	69	5000				
	55	25,25	3,40	61	5000				
	63	22,34	4,80	54	5000				
	71	19,83	5,50	48	5000				
	79	17,65	6,20	43	5000				
	89	15,73	7,00	38	5000				



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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,37 0,5	98	14,25	5,80	35	5000	İRKPM İRKFPM	52 / 71 M 4b	139 140	18 19
	114	12,27	6,50	30	5000	İRKPM İRKFPM	52 / 71 M 4b	139 140	18 19
	131	10,67	7,20	26	5000				
	150	9,342	7,90	23	5000				
	170	8,229	8,60	20	5000				
	192	7,280	9,20	18	5000				
	217	6,463	9,90	16	5000				
	243	5,751	10,50	14	5000				
	257	5,453	9,90	13	5000				
	289	4,853	10,5	12	5000				
	324	4,325	11,1	11	5000				
	12	77,20	0,88	290	5000	İRKPM İRKFPM	43 / 80 M 6a	139 140	21 22
	14	66,47	0,97	249	5000	İRKPM İRKFPM	43 / 80 M 6a	139 140	21 22
	16	57,78	1,17	217	5000				
	18	50,60	1,31	190	5000	İRKPM İRKFPM	43 / 71 M 4b	139 140	19 20
	21	43,56	1,56	163	5000				
	18	77,20	1,33	186	5000	İRKPM İRKFPM	43 / 71 M 4b	139 140	19 20
	21	66,47	1,48	160	5000				
	24	57,78	1,78	139	5000				
	28	50,60	2,10	122	5000				
	32	43,56	2,40	105	5000				
	37	38,14	2,70	92	5000				
	42	33,60	3,10	81	5000				
	43	32,18	3,40	78	5000				
	47	29,92	3,40	72	5000				
	49	28,66	3,90	69	5000				
	55	25,25	3,40	61	5000	İRKPM İRKFPM	42 / 71 M 4b	139 140	18 19
	63	22,34	4,80	54	5000				
	71	19,83	5,50	48	5000				
	79	17,65	6,20	43	5000				
	89	15,73	7,00	38	5000				
	98	14,25	5,80	35	5000				
	114	12,27	6,50	30	5000				
	131	10,67	7,20	26	5000				
	150	9,342	7,90	23	5000				
	170	8,229	8,60	20	5000				
	192	7,280	9,20	18	5000				
	217	6,463	9,90	16	5000				
	243	5,751	10,5	14	5000				
	257	5,453	9,90	13	5000				
	289	4,853	10,5	12	5000				
	324	4,325	11,1	11	5000				
0,55 0,75	0,20	7030	0,85	24089	110000	İRKPM İRKFPM	153 İR 93 / 80 M 4a	189 190	877 967
	0,22	6298	0,95	21580	110000				
	0,25	5684	1,05	19476	110000				
	0,31	4553	1,31	15601	110000				
	0,34	4104	1,45	14063	110000				
	0,39	3636	1,60	12459	110000				
	0,42	3370	1,76	11547	110000				
	0,46	3066	1,90	10506	110000				
	0,55	2543	2,30	8714	110000	İRKPM İRKFPM	143 İR 73 / 80 M 4a	181 182	596 646
	0,25	5495	0,79	18829	75000				
	0,28	5059	0,88	17335	75000				
	0,31	4489	0,98	15382	75000				
	0,35	4010	1,11	13740	75000				
	0,39	3602	1,31	12342	75000				
	0,43	3251	1,61	11140	75000				
	0,51	2728	1,61	9348	75000				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
0,55 0,75	0,62	2245	1,61	7693	75000	İRK İRKFM	143 İR 73 / 80 M 4a	181 182	596 646
	0,75	1866	1,61	6394	75000				
	0,80	1757	1,61	6020	75000				
	0,97	1446	1,61	4955	75000				
	1,1	1259	3,00	4380	75000	İRK İRKFM	143 İR 72 / 80 M 4a	181 182	594 644
	1,3	1108	3,30	3854	75000				
	1,4	983	3,70	3420	75000				
	1,6	866	4,00	3013	75000				
	0,43	3225	0,80	11051	60800	İRK İRKFM	123 İR 73 / 80 M 4a	175 176	323 353
	0,48	2903	0,83	9947	60800				
	0,50	2781	0,77	9529	60800				
	0,57	2472	0,95	8470	60800				
	0,63	2208	1,09	7566	60800				
	0,71	1982	1,18	6791	60800				
	0,78	1784	1,36	6113	60800				
	0,87	1610	1,41	5517	60800				
	0,96	1456	1,41	4989	60800				
	1,1	1319	1,41	4520	60800				
	1,2	1195	1,41	4095	60800				
	1,3	1084	1,41	3714	60800				
	0,71	1983	1,18	6898	60800	İRK İRKFM	123 İR 72 / 80 M 4a	175 176	321 351
	0,80	1743	1,35	6063	60800				
	0,90	1549	1,52	5389	60800				
	1,0	1389	1,69	4832	60800				
	1,1	1255	1,89	4366	60800				
	1,2	1140	2,10	3966	60800				
	1,3	1041	2,30	3621	60800				
	1,6	852	2,60	2964	60800				
	1,9	752	3,00	2616	60800				
	2,1	668	3,40	2324	60800				
	2,3	597	3,70	2077	60800				
	2,6	536	4,20	1865	60800				
	0,92	1521	0,95	5212	38600	İRK İRKFM	103 İR 63 / 80 M 4a	169 170	211 231
	1,1	1257	1,14	4307	38600				
	1,2	1148	1,23	3934	38600				
	1,4	977	1,23	3348	38600				
	1,6	883	1,23	3026	38600				
	1,9	748	1,77	2563	38600				
	2,1	678	1,77	2323	38600				
	2,5	564	1,77	1933	38600				
2,8	509	2,40	1744	38600	İRK İRKFM	103 İR 62 / 80 M 4a	169 170	206 226	
2,9	486	2,90	1691	38600					
3,6	386	3,40	1343	38600					
4,5	314	3,80	1092	38600					
4,9	285	4,20	991	38600					
5,4	261	4,60	908	38600					
6,0	235	5,40	817	38600	İRK İRKFM	104 / 80 M 6b	167 168	195 215	
6,6	212	6,00	737	38600					
1,5	612	1,23	3363	38600					
1,7	544	1,38	2987	38600					
1,8	490	1,53	2693	38600	İRK İRKFM	93 İR 63 / 80 M 4a	163 164	151 162	
2,0	439	1,66	2413	38600					
1,4	1007	0,82	3451	26000					
1,7	806	0,78	2762	26000					
1,9	736	0,82	2522	26000					
2,3	614	0,95	2104	26000					
2,5	560	1,14	1919	26000					
3,0	467	1,27	1600	26000					
3,3	427	1,36	1463	26000					



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,55 0,75	3,9	362	2,10	1259	26000	İRK İRKFM	93 İR 62 / 80 M 4a	163 164	146 157
	4,3	327	2,40	1138	26000				
	5,0	280	2,80	974	26000				
	5,6	252	3,10	877	26000				
	6,2	227	3,40	790	26000				
	6,8	205	3,90	713	26000				
	7,5	186	4,20	647	26000	İRK İRKFM	94 / 80 M 6b	161 162	129 140
	1,8	502	0,93	2755	26150				
	2,0	455	1,01	2499	26150				
	2,2	415	1,13	2278	26150				
	2,6	344	1,35	1891	26150				
	3,0	304	1,55	1668	26150				
	3,3	271	1,68	1487	26150	İRK İRKFM	94 / 80 M 4a	161 162	127 138
	2,8	502	1,41	1771	26150				
	3,1	455	1,55	1606	26150				
	3,4	415	1,75	1465	26150				
	4,1	344	2,10	1216	26150				
	4,6	304	2,30	1072	26150				
	5,2	271	2,70	956	26150	İRK İRKFM	93 / 90 L 8a	159 160	126 137
	5,8	243	2,90	858	26150				
	3,9	179	2,00	1287	26000				
	4,4	158	2,20	1136	26000				
	4,7	149	2,40	1072	26000				
	5,0	179	2,60	1001	26000	İRK İRKFM	93 / 80 M 6b	159 160	123 134
	5,7	158	2,90	884	26000				
	6,0	149	3,00	834	26000				
	6,7	134	3,50	746	26000				
	7,5	121	3,80	673	26000	İRK İRKFM	83 İR 52 / 80 M 4a	157 158	87 93
	1,9	726	0,81	2526	19180				
	2,2	636	0,85	2212	19180				
	2,4	586	0,85	2039	19180				
	2,7	514	0,95	1788	19180				
	3,3	428	1,11	1489	19180				
	3,7	375	1,24	1305	19180				
	4,2	332	1,36	1155	19180				
	4,7	297	1,50	1033	19180				
	5,3	266	1,59	925	19180				
	6,0	233	1,82	811	19180				
	6,8	206	2,00	717	19180				
	7,7	183	2,30	637	19180				
	9,4	149	2,70	518	19180	İRK İRKFM	84 / 80 M 4a	155 156	77 83
	3,1	459	0,88	1621	19180				
	3,5	405	1,00	1429	19180				
	3,9	360	1,13	1271	19180				
	4,3	322	1,27	1138	19180				
	5,4	261	1,50	923	19180	İRK İRKFM	83 / 90 L 8a	153 154	77 83
	3,4	204	0,90	1465	19180				
	3,9	180	1,04	1292	19180				
	4,9	143	1,32	1029	19180				
	3,8	236	1,00	1318	19180	İRK İRKFM	83 / 80 M 6b	153 154	74 80
	4,4	204	1,18	1139	19180				
	5,0	180	1,32	1005	19180				
	5,4	166	1,50	925	19180				
	6,3	143	1,72	800	19180				
	7,1	127	1,95	706	19180				
	8,0	113	2,20	627	19180				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,55 0,75	5,9	236	1,61	847	19180	İRK İRKFM	83 / 80 M 4a	153 154	72 78
	6,9	204	1,81	733	19180				
	7,8	180	2,10	646	19180				
	8,4	166	2,50	595	19180				
	9,8	143	2,90	514	19180				
	11	127	3,10	454	19180				
	12	113	3,40	403	19180				
	13	106	3,80	381	19180	İRK İRKFM	73 İR 52 / 80 M 4a	151 152	55 59
	5,3	265	0,94	922	11900				
	6,0	234	1,07	814	11900				
	6,8	207	1,20	720	11900				
	7,7	183	1,36	637	11900				
	8,6	162	1,50	564	11900				
	9,7	144	2,50	501	11900				
	11	128	2,80	445	11900	İRK İRKFM	74 / 80 M 4a	149 150	44 48
	4,6	305	0,78	1077	11900				
	5,7	246	0,98	870	11900				
	6,7	210	1,14	742	11900				
	7,3	191	1,27	673	11900				
	8,6	163	1,50	574	11900				
	11	131	1,83	464	11900				
	12	119	2,00	420	11900	İRKPM İRKFPM	73 / 80 M 4a	147 148	41 45
	10	134	1,54	480	11900				
	11	125	1,64	448	11900	İRK İRKFM	73 / 80 M 4a	147 148	41 45
	12	117	1,77	420	11800				
	15	91,96	2,20	330	11800	İRK İRKFM	73 / 80 M 4a	143 144	34 36
	19	74,32	2,70	266	11800				
	22	63,40	3,40	227	11800	İRKPM İRKFPM	63 / 80 M 4a	143 144	32 34
	27	51,24	4,40	184	11800				
	13	71,84	0,98	401	7150	İRK İRKFM	63 / 80 M 6b	143 144	32 34
	14	65,30	1,07	364	7150				
	17	82,84	1,35	297	7150	İRK İRKFM	63 / 80 M 4a	143 144	32 34
	12	115	0,94	414	7150				
	13	105	1,03	376	7150				
	15	91,93	1,18	330	7000				
	19	71,84	1,50	258	7000				
	21	65,30	1,66	234	7000				
	24	57,20	1,90	205	7000				
	28	50,52	2,10	181	7000				
	31	44,90	2,30	161	6800				
	36	38,58	2,80	138	6800				
	41	34,47	3,20	124	6800				
	45	30,93	3,60	111	6800				
	50	27,84	3,90	100	6620				
	56	25,13	4,40	90	6620				
	62	22,73	4,80	81	6620				
	65	21,59	5,00	77	6620				
	73	19,11	5,60	69	6550				
	83	16,84	6,00	60	6550				
	93	15,04	6,50	54	6550				
	104	13,50	6,80	48	6550				
	115	12,15	7,30	44	6500				
	128	10,97	7,60	39	6500				
	134	10,44	7,30	37	6500				
	149	9,423	7,60	34	6500				
	164	8,522	8,10	31	6500				
	173	8,097	8,70	29	6500				
	195	7,165	9,00	26	6500				



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,55 0,75	18	77,20	0,90	277	4500	İRKPM	53 / 80 M 4a	139	21
	21	66,47	1,00	238	4500	İRKFPM		140	22
	24	57,78	1,20	207	4500	İRKPM İRKFM	53 / 80 M 4a	139 140	21 22
	28	50,60	1,40	181	4500				
	32	43,56	1,60	156	4500				
	37	38,14	1,80	137	4500				
	42	33,60	2,10	120	4500				
	43	32,18	2,30	115	4500				
	47	29,92	2,30	107	4500				
	49	28,66	2,60	103	4500				
	55	25,25	2,30	91	4500				
	63	22,34	3,30	80	4500				
	71	19,83	3,70	71	4500				
	79	17,65	4,20	63	4500				
	89	15,73	4,70	56	4500				
	98	14,25	3,90	52	4500	İRKPM	52 / 80 M 4a	139	20
	114	12,27	4,40	45	4500	İRKFPM		140	21
	131	10,67	4,90	39	4500	İRKPM İRKFM	52 / 80 M 4a	139 140	20 21
	150	9,342	5,30	34	4500				
	170	8,229	5,80	30	4500				
	192	7,280	6,20	27	4500				
	217	6,463	6,60	24	4500				
	243	5,751	7,10	21	4500				
	257	5,453	6,60	20	4500				
	289	4,853	7,10	18	4500				
	324	4,325	7,50	16	4500				
	18	77,20	0,90	277	4500	İRKPM	43 / 80 M 4a	139	21
	21	66,47	1,00	238	4500	İRKFPM		140	22
	24	57,78	1,20	207	4500	İRKPM İRKFM	43 / 80 M 4a	139 140	21 22
	28	50,60	1,40	181	4500				
	32	43,56	1,60	156	4500				
	37	38,14	1,80	137	4500				
	42	33,60	2,10	120	4500				
	43	32,18	2,30	115	4500				
	47	29,92	2,30	107	4500				
	49	28,66	2,60	103	4500				
	55	25,25	2,30	91	4500				
	63	22,34	3,30	80	4500				
	71	19,83	3,70	71	4500				
	79	17,65	4,20	63	4500				
	89	15,73	4,70	56	4500				
	98	14,25	3,90	52	4500	İRKPM	42 / 80 M 4a	139	20
	114	12,27	4,40	45	4500	İRKFPM		140	21
	131	10,67	4,90	39	4500	İRKPM İRKFM	42 / 80 M 4a	139 140	20 21
	150	9,342	5,30	34	4500				
	170	8,229	5,80	30	4500				
	192	7,280	6,20	27	4500				
	217	6,463	6,60	24	4500				
	243	5,751	7,10	21	4500				
	257	5,453	6,60	20	4500				
	289	4,853	7,10	18	4500				
	324	4,325	7,50	16	4500				
0,75 1,1	0,31	4553	0,96	21274	110000	İRKPM İRKFPM	153 İR 93 / 80 M 4b	189 190	882 972
	0,34	4104	1,06	19176	110000				
	0,39	3636	1,17	16989	110000				
	0,42	3370	1,29	15746	110000				
	0,46	3066	1,39	14326	110000				
	0,55	2543	1,98	11882	110000				
	0,66	2133	1,98	9967	110000				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,75 1,1	0,35	4010	0,82	18737	75000	İRK İRKFM	143 İR 73 / 80 M 4b	181 182	600 650
	0,39	3602	0,96	16831	75000				
	0,43	3251	1,18	15190	75000				
	0,51	2728	1,18	12747	75000				
	0,62	2245	1,18	10490	75000				
	0,75	1866	1,18	8719	75000				
	0,80	1757	1,18	8210	75000				
	0,97	1446	1,18	6757	75000	İRK İRKFM	143 İR 72 / 80 M 4b	181 182	598 648
	1,1	1259	2,20	5972	75000				
	1,3	1108	2,40	5256	75000				
	1,4	983	2,70	4663	75000				
	1,6	866	3,00	4108	75000				
	1,8	769	3,30	3648	75000	İRKPM İRKFPM	144 / 90 S 6a	179 180	596 646
	1,2	726	2,30	5437	75000				
	1,4	652	2,50	4881	75000	İRK İRKFM	123 İR 73 / 80 M 4b	175 176	327 357
	0,63	2208	0,80	10317	60800				
	0,71	1982	0,86	9261	60800				
	0,78	1784	1,00	8336	60800				
	0,87	1610	1,03	7523	60800				
	0,96	1456	1,03	6803	60800				
	1,1	1319	1,03	6163	60800				
	1,2	1195	1,03	5584	60800	İRK İRKFM	123 İR 72 / 80 M 4b	175 176	325 355
	1,3	1084	1,03	5065	60800				
	0,71	1983	0,87	9407	60800				
	0,80	1743	0,99	8268	60800				
	0,90	1549	1,11	7348	60800				
	1,0	1389	1,24	6589	60800	İRK İRKFM	123 İR 72 / 80 M 4b	175 176	325 355
	1,1	1255	1,39	5953	60800				
	1,2	1140	1,54	5408	60800				
	1,3	1041	1,69	4938	60800				
	1,6	852	1,90	4042	60800				
	1,9	752	2,20	3567	60800	İRK İRKFM	123 İR 72 / 80 M 4b	175 176	325 355
	2,1	668	2,50	3169	60800				
	2,3	597	2,70	2832	60800				
	2,6	536	3,10	2543	60800				
	3,1	458	3,90	2173	60800				
	2,0	446	2,40	3344	60800	İRK İRKFM	124 / 90 S 6a	173 174	303 333
	2,2	403	2,70	3020	60800				
	2,5	366	2,90	2744	60800				
	2,7	330	3,20	2474	60800				
	1,1	1257	0,83	5873	38600				
	1,2	1148	0,90	5364	38600				
	1,4	977	0,90	4565	38600				
	1,6	883	0,90	4126	38600				
	1,9	748	1,30	3495	38600				
2,1	678	1,30	3168	38600					
2,5	564	1,30	2635	38600					
2,8	509	1,76	2378	38600	İRK İRKFM	103 İR 62 / 80 M 4b	169 170	210 230	
2,9	486	2,10	2305	38600					
3,6	386	2,50	1831	38600					
4,5	314	2,80	1490	38600					
4,9	285	3,00	1352	38600					
5,4	261	3,30	1238	38600	İRK İRKFM	104 / 90 S 6a	167 168	198 218	
6,0	235	3,90	1115	38600					
6,6	212	4,40	1006	38600					
1,5	612	0,90	4586	38600					
1,7	544	1,01	4073	38600					
1,8	490	1,12	3672	38600	İRK İRKFM	104 / 90 S 6a	167 168	198 218	
2,0	439	1,22	3290	38600					



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,75 1,1	2,3	612	1,40	2948	38600	İRK İRKFM	104 / 80 M 4b	167 168	198 218
	2,6	544	1,58	2618	38600				
	2,9	490	1,75	2361	38600				
	3,2	439	1,95	2115	38600				
	3,5	396	2,10	1909	38600				
	3,9	360	2,40	1733	38600				
	4,7	301	2,80	1450	38600				
	5,5	254	3,30	1223	38600	İRKPM İRKPFM	103 / 100 L 8a	165 166	190 210
	4,1	172	2,50	1680	38600				
	4,4	160	2,60	1567	38600				
	5,0	141	3,00	1377	38600	İRK İRKFM	103 / 100 L 8a	165 166	190 210
	5,6	125	3,40	1223	38600				
	2,5	560	0,83	2617	25850	İRK İRKFM	93 İR 63 / 80 M 4b	163 164	155 166
	3,0	467	0,93	2182	25850				
	3,3	427	1,00	1995	25850	İRK İRKFM	93 İR 62 / 80 M 4b	163 164	150 161
	3,9	362	1,53	1717	25850				
	4,3	327	1,73	1551	25850				
	5,0	280	2,00	1328	25850				
	5,6	252	2,20	1195	25850				
	6,2	227	2,50	1077	25850				
	6,8	205	2,80	972	25850				
	7,5	186	3,10	882	25850	İRK İRKFM	94 / 90 S 6a	161 162	132 143
	2,2	415	0,83	3107	26150				
	2,6	344	0,98	2579	26150				
	3,0	304	1,13	2274	26150				
	3,3	271	1,23	2028	26150				
	2,8	502	1,03	2415	26150	İRK İRKFM	94 / 80 M 4b	161 162	132 143
	3,1	455	1,13	2191	26150				
	3,4	415	1,28	1997	26150				
	4,1	344	1,53	1658	26150				
	4,6	304	1,73	1462	26150				
	5,2	271	1,97	1303	26150				
	5,8	243	2,20	1170	26150	İRK İRKFM	93 / 90 S 6a	159 160	126 137
	6,4	219	2,40	1057	26150				
	7,2	195	2,70	939	26150				
	5,0	179	1,92	1365	25850				
	5,7	158	2,10	1205	25850	İRK İRKFM	93 / 80 M 4b	159 160	126 137
	6,0	149	2,20	1137	25850				
	6,7	134	2,50	1017	25850				
	7,5	121	2,80	917	25850	İRK İRKFM	83 İR 52 / 80 M 4b	157 158	91 97
	7,8	179	3,20	878	26150				
	8,8	158	3,30	775	26150				
	9,4	149	3,50	731	26150	İRK İRKFM	84 / 80 M 4b	155 156	82 88
	10	134	3,90	654	26150				
	2,7	514	0,70	2438	18250				
	3,3	428	0,82	2030	18250				
	3,7	375	0,91	1779	18250				
	4,2	332	1,00	1575	18250				
	4,7	297	1,10	1409	18250				
	5,3	266	1,17	1262	18250				
	6,0	233	1,33	1105	18250				
	6,8	206	1,50	977	18250				
	7,7	183	1,70	868	18250				
	3,7	375	0,91	1779	18250	İRK İRKFM	84 / 80 M 4b	155 156	82 88
	3,9	360	0,83	1733	19180				
	4,3	322	0,93	1552	19180				
	5,4	261	1,10	1258	19180				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,75 1,1	4,4	204	0,86	1554	19180	İRK İRKFM	83 / 90 S 6a	153	77
	5,0	180	0,96	1370	19180			154	83
	6,3	143	1,26	1091	19180				
	7,1	127	1,43	962	19180				
	8,0	113	1,60	856	19180				
	5,9	236	1,18	1155	19180	İRK İRKFM	83 / 80 M 4b	153	77
	6,9	204	1,33	999	19180			154	83
	7,8	180	1,53	881	19180				
	8,4	166	1,87	811	19180				
	9,8	143	2,10	701	19180				
	11	127	2,20	618	19180				
	12	113	2,50	550	19180				
	13	106	2,80	520	19180				
	15	93,77	3,20	458	19180				
	17	83,39	3,60	408	19180				
	6,7	210	0,84	1012	11700	İRK İRKFM	74 / 80 M 4b	149	49
	7,3	191	0,93	918	11700			150	53
	8,6	163	1,10	783	11700				
	11	131	1,34	633	11700				
	12	119	1,48	573	11700				
	12	117	1,30	572	11700	İRK İRKFM	73 / 80 M 4b	147	45
	15	91,96	1,63	450	11700			148	49
	19	74,32	2,00	363	11700				
	22	63,40	2,50	310	11600				
	27	51,24	3,20	251	11600				
	30	46,41	3,50	227	11600				
	33	42,21	4,00	206	11600				
	19	71,84	1,10	351	6700	İRK İRKFM	63 / 80 M 4b	143	36
	21	65,30	1,22	319	6700			144	39
	24	57,20	1,39	280	6690				
	28	50,52	1,53	247	6690				
	31	44,90	1,73	220	6690				
	36	38,58	2,00	189	6600				
	41	34,47	2,30	169	6600				
	45	30,93	2,60	151	6600				
	50	27,84	2,90	136	6400				
	56	25,13	3,20	123	6400				
	62	22,73	3,50	111	6400				
	65	21,59	3,70	106	6400				
	73	19,11	4,10	93	6220				
	83	16,84	4,40	82	6220				
	93	15,04	4,80	74	6220				
	104	13,50	5,00	66	6220				
	115	12,15	5,40	59	6220				
	128	10,97	5,60	54	6220				
	134	10,44	5,40	51	6100				
	149	9,423	5,60	46	6100				
	164	8,522	6,00	42	6100				
	173	8,097	6,40	40	6100				
	195	7,165	6,60	35	6100				
	24	57,78	0,88	282	4100	İRK İRKFM	53 / 80 M 4b	139	25
	28	50,60	1,03	247	4100			140	27
	32	43,56	1,17	213	4100				
	37	38,14	1,32	187	4100				
	42	33,60	1,54	164	4100				
	43	32,18	1,69	157	4100				
	47	29,92	1,69	146	4100				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
0,75 1,1	49	28,66	1,91	140	4100	İRK İRKFM	53 / 80 M 4b	139 140	25 27
	55	25,25	1,69	123	4100				
	63	22,34	2,40	109	4100				
	71	19,83	2,70	97	4100				
	79	17,65	3,10	86	4100				
	89	15,73	3,40	77	4100	İRK İRKFM	52 / 80 M 4b	139 140	24 26
	98	14,25	2,90	71	4100				
	114	12,27	3,20	61	4100				
	131	10,67	3,60	53	4100				
	150	9,342	3,90	46	4100				
	170	8,229	4,20	41	4100	İRK İRKFM	52 / 80 M 4b	139 140	24 26
	192	7,280	4,60	36	4100				
	217	6,463	4,90	32	4100				
	243	5,751	5,20	29	4100				
	257	5,453	4,90	27	4100				
	289	4,853	5,20	24	4100				
	324	4,325	5,50	21	4100				
	24	57,78	0,88	282	4100				
	28	50,60	1,03	247	4100				
	32	43,56	1,17	213	4100				
	37	38,14	1,32	187	4100	İRK İRKFM	43 / 80 M 4b	139 140	25 27
	42	33,60	1,54	164	4100				
	43	32,18	1,69	157	4100				
	47	29,92	1,69	146	4100				
	49	28,66	1,91	140	4100				
	55	25,25	1,69	123	4100				
	63	22,34	2,40	109	4100				
	71	19,83	2,70	97	4100				
	79	17,65	3,10	86	4100				
	89	15,73	3,40	77	4100				
	98	14,25	2,90	71	4100	İRK İRKFM	42 / 80 M 4b	139 140	24 26
	114	12,27	3,20	61	4100				
	131	10,67	3,60	53	4100				
	150	9,342	3,90	46	4100				
	170	8,229	4,20	41	4100				
	192	7,280	4,60	36	4100	İRK İRKFM	42 / 80 M 4b	139 140	24 26
	217	6,463	4,90	32	4100				
	243	5,751	5,20	29	4100				
	257	5,453	4,90	27	4100				
	289	4,853	5,20	24	4100				
	324	4,325	5,50	21	4100				
	0,39	3636	0,80	24918	110000				
	0,42	3370	0,88	23095	110000				
	0,46	3066	0,95	21012	110000				
	0,55	2543	1,35	17427	110000				
1,1 1,5	0,66	2133	1,35	14618	110000	İRK İRKFM	153 İR 93 / 90 S 4a	189 190	883 973
	0,72	1936	1,50	13268	110000				
	0,86	1619	1,80	11095	110000				
	0,94	1482	1,91	10156	110000				
	1,0	1366	2,30	9361	110000				
	1,3	1064	2,70	7292	110000				
	1,5	952	3,00	6524	110000				
	1,7	847	3,40	5805	110000				
	2,5	564	3,40	3924	75000				
	2,8	501	3,80	3486	75000				
	3,1	447	4,00	3110	75000				
						İRK İRKFM	143 İR 82 / 90 S 4a	183 184	640 690



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
1,1 1,5	0,43	3251	0,80	22279	75000	İRK İRKFM	143 İR 73 / 90 S 4a	181 182	601 651
	0,51	2728	0,80	18695	75000				
	0,62	2245	0,80	15385	75000				
	0,75	1866	0,80	12788	75000				
	0,80	1757	0,80	12041	75000				
	0,97	1446	0,80	9910	75000	İRK İRKFM	143 İR 72 / 90 S 4a	181 182	599 649
	1,1	1259	1,50	8759	75000				
	1,3	1108	1,65	7709	75000				
	1,4	983	1,85	6839	75000				
	1,6	866	2,00	6025	75000				
	1,8	769	2,20	5350	75000				
	2,0	686	2,70	4773	75000				
	2,3	598	3,00	4161	75000				
	2,6	530	3,30	3687	75000				
	3,0	474	4,00	3298	75000				
	1,2	726	1,55	7974	75000	İRKPM İRKFPM	144 / 90 L 6b	179 180	598 648
	1,4	652	1,73	7159	75000				
	1,5	589	2,00	6473	75000				
	1,9	726	2,40	5126	60800	İRKPM İRKFPM	144 / 90 S 4a	179 180	597 647
	1,0	1389	0,84	9664	60800	İRK İRKFM	123 İR 72 / 90 S 4a	175 176	326 356
	1,1	1255	0,95	8732	60800				
	1,2	1140	1,05	7931	60800				
	1,3	1041	1,15	7243	60800				
	1,6	852	1,30	5928	60800				
	1,9	752	1,50	5232	60800				
	2,1	668	1,70	4648	60800				
	2,3	597	1,85	4154	60800				
	2,6	536	2,10	3729	60800				
	3,1	458	2,60	3187	60800				
	3,4	408	3,00	2839	60800				
	3,8	364	3,30	2533	60800				
	4,3	327	3,70	2275	60800				
	2,0	446	1,63	4905	60800	İRK İRKFM	124 / 90 L 6b	173 174	305 335
	2,2	403	1,80	4430	60800				
	2,5	366	1,98	4025	60800				
	2,7	330	2,20	3629	60800				
	3,0	302	2,40	3314	60800				
	3,3	273	2,70	3000	60800	İRK İRKFM	124 / 90 S 4a	173 174	304 334
	3,1	446	2,50	3153	60800				
	3,5	403	2,80	2848	60800				
	3,8	366	3,10	2588	60800	İRK İRKFM	103 İR 63 / 90 S 4a	169 170	216 236
	1,9	748	0,88	5126	38500				
	2,1	678	0,88	4646	38500				
2,5	564	0,88	3865	38500					
2,8	509	1,20	3488	38500					
2,9	486	1,45	3381	38500	İRK İRKFM	103 İR 62 / 90 S 4a	169 170	211 231	
3,6	386	1,72	2686	38500					
4,5	314	1,90	2185	38500					
4,9	285	2,10	1983	38500					
5,4	261	2,30	1816	38500					
6,0	235	2,70	1635	38500					
6,6	212	3,00	1475	38500					
2,0	439	0,83	4825	38450	İRK İRKFM	104 / 90 L 6b	167 168	200 220	



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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
1,1 1,5	2,3	612	0,95	4324	38450	İRK İRKFM	104 / 90 S 4a	167 168	199 219
	2,6	544	1,08	3840	38450				
	2,9	490	1,19	3462	38450				
	3,2	439	1,33	3102	38450				
	3,5	396	1,43	2800	38450				
	3,9	360	1,64	2542	38450				
	4,7	301	1,91	2126	38450				
	5,5	254	2,20	1794	38450				
	6,3	224	2,60	1581	38450				
	7,9	178	3,20	1257	38450				
	4,1	172	1,70	2464	38450	İRKPM İRKFPM	103 / 100 L 8b	165 166	192 212
	4,4	160	1,77	2298	38450	İRKPM İRKFPM		166	212
	5,0	141	2,00	2019	38450	İRK İRKFM	103 / 100 L 8b	165 166	192 212
	5,6	125	2,30	1793	38450	İRK İRKFM		166	212
	5,2	172	2,10	1916	38450	İRKPM İRKFPM	103 / 90 L 6b	165 166	188 208
	5,6	160	2,30	1787	38450				
	6,4	141	2,70	1570	38450				
	7,2	125	3,00	1395	38450				
	8,1	172	3,40	1232	38500	İRKPM İRKFPM	103 / 90 S 4a	165 166	187 207
	8,7	160	3,60	1149	38500				
	9,9	141	4,10	1010	38500				
	11	125	4,60	897	38500				
	3,0	467	0,64	3200	25350	İRK İRKFM	93 İR 63 / 90 S 4a	163 164	156 167
	3,3	427	0,68	2926	25350			164	167
	3,9	362	1,04	2519	25350	İRK İRKFM	93 İR 62 / 90 S 4a	163 164	151 162
	4,3	327	1,17	2275	25350				
	5,0	280	1,38	1948	25350				
	5,6	252	1,55	1753	25350				
	6,2	227	1,72	1579	25350				
	6,8	205	1,95	1426	25350				
	7,5	186	2,10	1294	25350				
	3,4	415	0,87	2929	26150	İRK İRKFM	94 / 90 S 4a	161 162	133 144
	4,1	344	1,04	2432	26150				
	4,6	304	1,18	2144	26150				
	5,2	271	1,35	1912	26150				
	5,8	243	1,48	1716	26150				
	6,4	219	1,65	1550	26150				
	7,2	195	1,85	1377	26150				
	5,0	179	1,31	2002	25350	İRK İRKFM	93 / 90 L 6b	159 160	128 139
	5,7	158	1,45	1768	25350				
6,0	149	1,51	1667	25350					
6,7	134	1,75	1492	25450					
7,5	121	1,92	1345	25450	İRK İRKFM	93 / 90 S 4a	159 160	127 138	
7,8	179	2,00	1287	25850					
8,8	158	2,20	1136	25850					
9,4	149	2,40	1072	25900					
10	134	2,70	959	25900					
12	121	3,00	865	26000					
13	109	3,20	785	26150					
14	99,73	3,40	715	26150					
17	82,79	4,10	594	26150	İRK İRKFM	83 / 90 L 6b	153 154	79 85	
6,3	143	0,86	1600	15900					
7,1	127	0,98	1411	16500					
8,0	113	1,09	1255	16700					
5,9	236	0,80	1695	18250	İRKPM İRKFPM	83 / 90 S 4a	153 154	78 84	
8,4	166	1.23	1190	18250	İRKPM İRKFPM		154	84	



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1,1 1,5	6,9	204	0,90	1465	18250	İRK İRKFM	83 / 90 S 4a	153 154	78 84
	7,8	180	1,04	1292	18250				
	9,8	143	1,45	1029	18250				
	11	127	1,53	907	18250				
	12	113	1,73	807	18250				
	13	106	1,92	762	18300				
	15	93,77	2,20	672	18470				
	17	83,39	2,50	598	18500				
	19	74,67	2,70	535	18500				
	23	60,61	3,20	435	19800				
	26	53,24	3,70	382	19800				
	30	47,32	4,10	339	11650	İRK İRKFM	74 / 90 S 4a	149 150	50 54
	8,6	163	0,75	1149	11650				
	11	131	0,91	928	11650				
	12	119	1,01	841	11650				
	15	91,96	1,11	659	11650	İRK İRKFM	73 / 90 S 4a	147 148	46 50
	19	74,32	1,38	533	11600				
	22	63,40	1,70	455	11600				
	27	51,24	2,20	367	11550				
	30	46,41	2,40	333	11550				
	33	42,21	2,70	303	11550				
	40	35,25	3,10	253	11550				
	44	32,15	3,40	231	11500				
	49	28,39	3,90	204	11500				
	56	24,95	4,40	179	11501				
	64	22,02	4,70	158	11502	İRK İRKFM	63 / 90 S 4a	143 144	37 40
	28	50,52	1,05	362	6240				
	31	44,90	1,18	322	6150				
	36	38,58	1,40	277	6150				
	41	34,47	1,60	247	6150				
	45	30,93	1,80	222	5950				
	50	27,84	1,95	200	5950				
	56	25,13	2,20	180	5950				
	62	22,73	2,40	163	5950				
	65	21,59	2,50	155	5770				
	73	19,11	2,80	137	5770				
	83	16,84	3,00	121	5770				
	93	15,04	3,30	108	5770				
	104	13,50	3,40	97	5770				
	115	12,15	3,70	87	5770				
	128	10,97	3,80	79	5650				
	134	10,44	3,70	75	5650				
	149	9,423	3,80	68	5650				
	164	8,522	4,10	61	5650				
	173	8,097	4,30	58	5650				
	195	7,165	4,50	51	5600				
	210	6,682	3,90	48	5600	İRKPM İRKFPM	53 / 90 S 4a	139 140	26 28
	232	6,043	4,10	43	5600				
	244	5,741	4,30	41	5600				
	276	5,081	4,50	36	5600				
	32	43,56	0,80	312	3600	İRK İRKFM	53 / 90 S 4a	139 140	26 28
	37	38,14	0,90	274	3600				
	43	32,18	1,15	231	3600				
	49	28,66	1,30	206	3600				
	42	33,60	1,05	241	3600	İRK İRKFM	53 / 90 S 4a	139 140	26 28
	47	29,92	1,15	215	3600				
	55	25,25	1,15	181	3600				



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1,1 1,5	63	22,34	1,65	160	3600	İRK İRKFM	53 / 90 S 4a	139	26
	71	19,83	1,85	142	3600			140	28
	79	17,65	2,10	127	3600				
	89	15,73	2,30	113	3600	İRKPM İRKPFM	52 / 90 S 4a	139	25
	98	14,25	1,95	104	3600			140	27
	114	12,27	2,20	89	3600				
	131	10,67	2,40	78	3600	İRK İRKFM	52 / 90 S 4a	139	25
	150	9,342	2,70	68	3600			140	27
	170	8,229	2,90	60	3600				
	192	7,280	3,10	53	3600	İRK İRKFM	52 / 90 S 4a	139	25
	217	6,463	3,30	47	3600			140	27
	243	5,751	3,50	42	3600				
	257	5,453	3,30	40	3600	İRKPM İRKPFM	43 / 90 S 4a	139	26
	289	4,853	3,50	35	3600			140	28
	324	4,325	3,80	31	3600				
	32	43,56	0,80	312	3600	İRK İRKFM	43 / 90 S 4a	139	26
	37	38,14	0,90	274	3600			140	28
	43	32,18	1,15	231	3600				
	49	28,66	1,30	206	3600	İRK İRKFM	43 / 90 S 4a	139	26
	42	33,60	1,05	241	3600			140	28
	47	29,92	1,15	215	3600				
	55	25,25	1,15	181	3600	İRKPM İRKPFM	42 / 90 S 4a	139	25
	63	22,34	1,65	160	3600			140	27
	71	19,83	1,85	142	3600				
	79	17,65	2,10	127	3600	İRK İRKFM	42 / 90 S 4a	139	25
	89	15,73	2,30	113	3600			140	27
	98	14,25	1,95	104	3600				
	114	12,27	2,20	89	3600	İRK İRKFM	42 / 90 S 4a	139	25
	131	10,67	2,40	78	3600			140	27
	150	9,342	2,70	68	3600				
	170	8,229	2,90	60	3600	İRKPM İRKPFM	153 İR 93 / 90 L 4a	189	886
	192	7,280	3,10	53	3600			190	976
	217	6,463	3,30	47	3600				
	243	5,751	3,50	42	3600	İRK İRKFM	153 İR 92 / 90 L 4a	189	880
	257	5,453	3,30	40	3600			190	970
	289	4,853	3,50	35	3600				
	324	4,325	3,80	31	3600	İRKPM İRKPFM	143 İR 82 / 90 L 4a	183	643
1,5 2,2	0,55	2543	0,99	23765	110000			184	693
	0,66	2133	0,99	19933	110000				
	0,72	1936	1,10	18092	110000	İRK İRKFM	143 İR 72 / 90 L 4a	181	603
	0,86	1619	1,32	15130	110000			182	653
	0,94	1482	1,40	13849	110000				
	1,0	1366	1,67	12765	110000	İRKPM İRKPFM	143 İR 72 / 90 L 4a	181	603
	1,3	1064	2,00	9943	110000			182	653
	1,5	952	2,20	8897	110000				
	1,7	847	2,50	7915	110000	İRK İRKFM	143 İR 72 / 90 L 4a	181	603
	1,8	769	2,80	7296	110000			182	653
	2,5	564	2,50	5351	75000				
	2,8	501	2,80	4753	75000	İRKPM İRKPFM	143 İR 72 / 90 L 4a	181	603
	3,1	447	3,00	4241	75000			182	653
	3,5	402	3,30	3814	75000				
	3,9	363	3,90	3444	75000	İRK İRKFM	143 İR 72 / 90 L 4a	181	603
	1,1	1259	1,10	11945	75000			182	653
	1,3	1108	1,21	10512	75000				
	1,4	983	1,36	9326	75000				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1,5 2,2	1,6	866	1,50	8216	75000	İRK İRKFM	143 İR 72 / 90 L 4a	181 182	603 653
	1,8	769	1,65	7296	75000				
	2,0	686	1,98	6508	75000				
	2,3	598	2,20	5673	75000				
	2,6	530	2,40	5028	75000				
	3,0	474	2,90	4497	75000				
	3,6	384	3,40	3643	75000				
	4,0	353	3,70	3349	75000				
	4,5	314	4,10	2979	75000				
	4,9	283	4,50	2685	75000				
	1,2	726	1,14	10874	75000	İRK İRKFM	144 / 100 L 6a	179 180	606 656
	1,4	652	1,27	9762	75000				
	1,5	589	1,47	8827	75000				
	1,9	726	1,78	6991	75000	İRKPM İRKPFM	144 / 90 L 4a	179 180	600 650
	2,1	652	1,98	6275	75000				
	2,4	589	2,20	5675	75000				
	2,8	492	2,70	4740	75000				
	3,2	433	3,10	4171	75000				
	1,3	1041	0,84	9876	60800	İRK İRKFM	123 İR 72 / 90 L 4a	175 176	330 360
	1,6	852	0,95	8083	60800				
	1,9	752	1,10	7135	60800				
	2,1	668	1,25	6338	60800				
	2,3	597	1,35	5664	60800				
	2,6	536	1,54	5085	60800				
	3,1	458	1,94	4345	60800				
	3,4	408	2,20	3871	60800				
	3,8	364	2,40	3453	60800				
	4,3	327	2,70	3102	60800				
	4,8	294	3,00	2789	60800				
	5,0	282	3,10	2675	60800				
	5,6	250	3,50	2372	60800	İRK İRKFM	124 / 100 L 6a	173 174	313 343
	6,1	228	3,90	2163	60800				
	2,0	446	1,20	6689	60800				
	2,2	403	1,36	6041	60800				
	2,5	366	1,45	5489	60800				
	2,7	330	1,61	4949	60800				
	3,0	302	1,79	4520	60800				
	3,3	273	1,98	4090	60800	İRK İRKFM	124 / 90 L 4a	173 174	307 337
	3,1	446	1,83	4300	60800				
	3,5	403	2,10	3883	60800				
	3,8	366	2,30	3529	60800				
	4,2	330	2,50	3181	60800				
	4,6	302	2,70	2906	60800	İRKPM İRKPFM	123 / 112 M 8a	171 172	300 330
	5,1	273	3,00	2630	60800				
	4,8	147	2,70	2866	60800				
	5,4	129	3,00	2520	60800				
	6,1	115	3,60	2240	60800				
	2,8	509	0,88	4757	38500	İRK İRKFM	103 İR 63 / 90 L 4a	169 170	220 240
	2,9	486	1,06	4611	38500				
	3,6	386	1,26	3662	38500	İRK İRKFM	103 İR 62 / 90 L 4a	169 170	215 235
	4,5	314	1,39	2979	38500				
	4,9	285	1,54	2704	38500				
	5,4	261	1,69	2476	38500				
	6,0	235	1,98	2230	38500				
	6,6	212	2,20	2011	38500				



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1,5 2,2	2,9	490	0,87	4721	38450	İRK İRKFM	104 / 90 L 4a	167 168	202 222
	3,2	439	0,98	4230	38450				
	3,5	396	1,05	3818	38450				
	3,9	360	1,20	3466	38450				
	4,7	301	1,40	2899	38450				
	5,5	254	1,65	2447	38450				
	6,3	224	1,90	2156	38450				
	7,9	178	2,40	1715	38450				
	8,7	160	2,60	1543	38450				
	5,0	141	1,50	2753	38450	İRK İRKFM	103 / 112 M 8a	165 166	195 215
	5,6	125	1,70	2445	38450				
	5,2	172	1,54	2613	38300	İRK İRKFM	103 / 100 L 6a	165 166	196 216
	5,6	160	1,69	2437	38300				
	6,4	141	1,98	2142	38300	İRK İRKFM	103 / 100 L 6a	165 166	196 216
	7,2	125	2,20	1902	38300				
	8,1	172	2,50	1680	38300	İRK İRKFM	103 / 90 L 4a	165 166	190 210
	8,7	160	2,60	1567	38300				
	9,9	141	3,00	1377	38300				
	11	125	3,40	1223	38300				
	5,0	280	1,01	2656	26150	İRK İRKFM	93 İR 62 90 L 4a	163 164	155 166
	5,6	252	1,13	2391	26150				
	6,2	227	1,26	2154	26150				
	6,8	205	1,43	1945	26150				
	7,5	186	1,53	1765	26150				
	4,6	304	0,86	2924	26150	İRK İRKFM	94 / 90 L 4a	161 162	136 147
	5,2	271	0,91	2607	26150				
	5,8	243	1,08	2341	26150				
	6,4	219	1,20	2114	26150				
	7,2	195	1,35	1878	26150	İRK İRKFM	93 / 100 L 6a	159 160	136 147
	6,7	134	1,28	2035	25450				
	7,5	121	1,41	1835	25450	İRK İRKFM	93 / 90 L 4a	159 160	130 141
	7,8	179	1,50	1755	25450				
	8,8	158	1,65	1550	25450				
	9,4	149	1,75	1461	25450				
	10	134	1,98	1308	25800				
	12	121	2,20	1179	25800				
	13	109	2,40	1070	26000				
	14	99,73	2,50	975	26000				
	17	82,79	3,00	810	26000				
	19	73,81	3,60	722	26050				
	21	66,27	4,10	648	26050	İRK İRKFM	83 / 100 L 6a	153 154	87 93
	8,0	113	0,80	1711	15100				
	9,8	143	1,06	1403	16150	İRK İRKFM	83 / 90 L 4a	153 154	81 87
	11	127	1,12	1237	16480				
	12	113	1,27	1100	16840				
	13	106	1,41	1040	17150				
	15	93,77	1,60	917	17220				
	17	83,39	1,80	815	17330				
	19	74,67	2,00	730	17500				
	23	60,61	2,40	593	17740				
	26	53,24	2,70	521	17820				
	30	47,32	3,00	463	17890				
	33	42,28	3,40	413	17890				
	37	37,93	3,70	371	17890				
	41	34,15	4,00	334	17890				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
1,5	19	74,32	1,01	727	11600	İRK İRKFM	73 / 90 L 4a	147 148	50 54
	22	63,40	1,25	620	11550				
	27	51,24	1,61	501	11550				
	30	46,41	1,76	454	11500				
	33	42,21	1,98	413	11500				
	40	35,25	2,30	345	11500				
	44	32,15	2,50	314	11450				
	49	28,39	2,90	278	11450				
	56	24,95	3,20	244	11400				
	64	22,02	3,40	215	11400				
	72	19,51	3,90	191	11400				
	80	17,59	4,00	172	11350				
	90	15,53	4,40	152	11350				
	102	13,75	4,70	134	11350				
	115	12,21	4,70	119	11350				
	119	11,75	4,80	115	11300				
	129	10,85	5,10	106	11300				
	135	10,38	5,10	101	11300				
	152	9,190	5,20	90	11300				
	41	34,47	1,17	337	5700	İRK İRKFM	63 / 90 L 4a	143 144	41 43
	45	30,93	1,32	302	5500				
	50	27,84	1,43	272	5500				
	56	25,13	1,61	246	5500				
	62	22,73	1,76	222	5500				
	65	21,59	1,83	211	5320				
	73	19,11	2,00	187	5320				
	83	16,84	2,20	165	5320				
	93	15,04	2,40	147	5320				
	104	13,50	2,50	132	5320				
	115	12,15	2,70	119	5320				
	128	10,97	2,80	107	5200				
	134	10,44	2,70	102	5200				
	149	9,423	2,80	92	5200				
	164	8,522	3,00	83	5200				
	173	8,097	3,20	79	5200				
	195	7,165	3,30	70	5150				
	210	6,682	2,80	65	5150				
	232	6,043	3,00	59	5150				
	244	5,741	3,10	56	5150				
	276	5,081	3,30	50	5150				
43	32,18	0,84	315	3150	İRKPM	53 / 90 L 4a	139 140	30 31	
49	28,66	0,95	280	3150	İRKFPM				
42	33,60	0,77	329	3150	İRK İRKFM				53 / 90 L 4a
47	29,92	0,84	293	3150					
55	25,25	0,84	247	3150					
63	22,34	1,21	218	3150					
71	19,83	1,35	194	3150					
79	17,65	1,54	173	3150					
89	15,73	1,72	154	3150					
98	14,25	1,43	141	3150					
114	12,27	1,60	122	3150	İRKPM	52 / 90 L 4a	139 140	29 30	
131	10,67	1,78	106	3150	İRKFPM				
150	9,342	1,95	93	3150	İRK İRKFM				52 / 90 L 4a
170	8,229	2,10	82	3150					
192	7,280	2,30	72	3150					
217	6,463	2,40	64	3150					
243	5,751	2,60	57	3150					
257	5,453	2,40	54	3150					



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1,5 2,2	289	4,853	2,60	48	3150	İRK M	52 / 90 L 4a	139	29
	324	4,325	2,80	43	3150	İRKFM		140	30
	43	32,18	0,84	315	3150	İRKPM	43 / 90 L 4a	139	30
	49	28,66	0,95	280	3150	İRK FPM		140	31
	42	33,60	0,77	329	3150	İRK M İRKFM	43 / 90 L 4a	139 140	30 31
	47	29,92	0,84	293	3150				
	55	25,25	0,84	247	3150				
	63	22,34	1,21	218	3150				
	71	19,83	1,35	194	3150				
	79	17,65	1,54	173	3150	İRKPM İRK FPM	42 / 90 L 4a	139 140	29 30
	89	15,73	1,72	154	3150				
	98	14,25	1,43	141	3150				
	114	12,27	1,60	122	3150				
	131	10,67	1,78	106	3150				
	150	9,342	1,95	93	3150	İRK M İRKFM	42 / 90 L 4a	139 140	29 30
	170	8,229	2,10	82	3150				
	192	7,280	2,30	72	3150				
	217	6,463	2,40	64	3150				
	243	5,751	2,60	57	3150				
2,2 3	257	5,453	2,40	54	3150	İRK M İRKFM	153 İR 93 / 100 L 4a	189 190	895 985
	289	4,853	2,60	48	3150				
	324	4,325	2,80	43	3150				
	0,86	1619	0,90	22190	110000	İRK M İRKFM	153 İR 92 / 100 L 4a	189 190	889 979
	0,94	1482	0,95	20313	110000				
	1,0	1366	1,14	18723	110000				
	1,3	1064	1,36	14583	110000				
	1,5	952	1,53	13048	110000				
	1,7	847	1,70	11609	110000	İRK M İRKFM	154 / 100 L 4a	187 188	817 907
	1,9	747	1,95	10238	110000				
	2,1	664	2,20	9101	110000				
	2,4	594	2,40	8141	110000				
	1,8	769	1,93	10701	110000	İRK M İRKFM	143 İR 82 100 L 4a	183 184	652 702
	2,1	678	2,10	9434	110000				
	2,3	602	2,10	8377	110000				
	2,6	539	2,70	7500	110000				
	2,6	547	2,70	7725	110000				
	2,8	496	3,00	7002	110000	İRK M İRKFM	143 İR 72 / 100 L 4a	181 182	612 662
	3,6	386	3,80	5453	110000				
	2,5	564	1,70	7848	75000				
	2,8	501	1,91	6971	75000				
	3,1	447	2,00	6220	75000				
	3,5	402	2,20	5594	75000	İRK M İRKFM	143 İR 72 / 100 L 4a	181 182	612 662
	3,9	363	2,60	5051	75000				
	4,4	320	2,80	4453	75000				
	5,4	261	3,70	3632	75000				
	1,3	1108	0,82	15418	75000	İRK M İRKFM	143 İR 72 / 100 L 4a	181 182	612 662
	1,4	983	0,93	13678	75000				
	1,6	866	1,02	12050	75000				
	1,8	769	1,12	10701	75000				
	2,0	686	1,35	9546	75000				
	2,3	598	1,50	8321	75000	İRK M İRKFM	143 İR 72 / 100 L 4a	181 182	612 662
	2,6	530	1,65	7375	75000				
	3,0	474	2,00	6596	75000				
	3,6	384	2,30	5343	75000				
	4,0	353	2,50	4912	75000				
	4,5	314	2,80	4369	75000	İRK M İRKFM	143 İR 72 / 100 L 4a	181 182	612 662
	4,9	283	3,10	3938	75000				
	5,6	250	3,70	3479	75000				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2,2 3	1,2	726	0,78	15949	60800	İRK İRKFM	144 / 112 M 6a	179	613
	1,4	652	0,86	14317	60800			180	663
	1,5	589	1,00	12947	60800				
	1,9	726	1,21	10253	75000	İRK İRKFM	144 / 100 L 4a	179 180	609 659
	2,1	652	1,35	9204	75000				
	2,4	589	1,50	8323	75000				
	2,8	492	1,84	6952	75000				
	3,2	433	2,10	6117	75000				
	3,6	384	2,40	5428	75000				
	4,1	339	2,60	4783	75000				
	4,7	300	2,80	4244	75000				
	5,2	268	3,10	3791	75000				
	2,1	668	0,85	9295	60800	İRK İRKFM	123 İR 72 / 100 L 4a	175 176	339 369
	2,3	597	0,93	8307	60800				
	2,6	536	1,05	7458	60800				
	3,1	458	1,32	6373	60800				
	3,4	408	1,50	5677	60800				
	3,8	364	1,67	5065	60800				
	4,3	327	1,84	4550	60800				
	4,8	294	2,00	4091	60800				
	5,0	282	2,10	3924	60800				
	5,6	250	2,40	3479	60800				
	6,1	228	2,60	3173	60800				
	7,0	201	3,00	2797	60800				
	7,7	181	3,30	2519	60800				
	8,6	163	3,40	2268	60800				
	9,5	148	3,40	2059	60800				
	10	134	3,40	1865	60800				
	12	121	3,40	1684	60800				
	2,0	446	0,81	9810	60800	İRK İRKFM	124 / 112 M 6a	173 174	320 350
	2,2	403	0,93	8860	60800				
	2,5	366	0,99	8050	60800				
	2,7	330	1,10	7258	60800				
	3,0	302	1,20	6629	60800				
	3,3	273	1,35	5999	60800	İRK İRKFM	124 / 100 L 4a	173 174	316 346
	3,1	446	1,25	6307	60800				
	3,5	403	1,40	5696	60800				
	3,8	366	1,55	5175	60800				
	4,2	330	1,70	4666	60800				
	4,6	302	1,85	4261	60800				
	5,1	273	2,10	3857	60800				
	5,6	249	2,30	3522	60800				
	6,1	229	2,50	3231	60800	İRK İRKFM	123 / 132 S 8b	171 172	310 340
	6,9	204	2,80	2881	60800				
	4,8	147	1,84	4204	60800	İRK İRKFM	123 / 112 M 6a	171 172	308 338
	5,4	129	2,00	3696	60800				
	6,1	115	2,50	3285	60800	İRK İRKFM	103 İR 62 / 100 L 4a	169 170	224 244
	6,8	103	2,70	2945	60800				
	6,1	147	2,40	3270	60800	İRK İRKFM	103 İR 62 / 100 L 4a	169 170	224 244
	7,0	129	2,70	2875	60800				
	7,9	115	3,10	2555	60800	İRK İRKFM	103 İR 62 / 100 L 4a	169 170	224 244
	8,8	103	3,50	2291	60800				
	3,6	386	0,86	5371	38100	İRK İRKFM	103 İR 62 / 100 L 4a	169 170	224 244
	4,5	314	0,95	4369	38100				
	4,9	285	1,05	3966	38100				
	5,4	261	1,15	3632	38100				
	6,0	235	1,35	3270	38100				
	6,6	212	1,50	2950	38100				



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
2,2 3	3,9	360	0,82	5084	38100	İRK İRKFM	104 / 100 L 4a	167 168	211 231
	4,7	301	0,95	4252	38100				
	5,5	254	1,12	3589	38100				
	6,3	224	1,30	3163	38100				
	7,9	178	1,60	2515	38100				
	8,7	160	1,80	2263	38100	İRK İRKFM	103 / 112 M 6a	165 166	203 223
	6,4	141	1,35	3141	38100				
	7,2	125	1,50	2790	38100	İRK İRKFM	103 / 100 L 4a	165 166	199 219
	8,1	172	1,70	2464	38100				
	8,7	160	1,80	2298	38100	İRK İRKFM	103 / 100 L 4a	165 166	199 219
	9,9	141	2,00	2019	38100				
	11	125	2,30	1793	38100				
	12	112	2,60	1607	38100				
	14	101	2,90	1450	38100				
	15	91,80	3,20	1317	38100	İRK İRKFM	94 / 100 L 4a	161 162	145 156
	18	76,79	3,90	1101	38100				
	6,4	219	0,82	3100	26150				
	7,2	195	0,92	2755	26150				
	10	134	1,35	1919	24850				
	12	121	1,50	1730	24850				
	13	109	1,64	1569	25000				
	14	99,73	1,70	1430	25150				
	17	82,79	2,10	1187	25200				
	19	73,81	2,50	1059	25450				
	21	66,27	2,80	950	25650				
	23	59,85	3,00	858	25800				
	26	53,18	3,50	763	25800				
	29	47,73	3,80	684	26000				
	33	43,03	4,30	617	26000	İRK İRKFM	83 / 100 L 4a	153 154	90 96
	12	113	0,86	1613	14850				
	15	93,77	1,09	1345	16440				
	17	83,39	1,22	1196	16580				
	19	74,67	1,36	1071	16780				
	23	60,61	1,63	869	16990				
	26	53,24	1,85	764	17230				
	30	47,32	2,10	679	17500				
	33	42,28	2,30	606	17770				
	37	37,93	2,50	544	17800				
	41	34,15	2,70	490	17880	İRK İRKFM	73 / 100 L 4a	147 148	59 63
	45	31,34	3,30	450	18000				
50	27,86	3,70	400	18000					
56	24,89	4,20	357	18200					
63	22,33	4,60	320	18200					
27	51,24	1,10	735	11400					
30	46,41	1,20	666	11400					
33	42,21	1,35	605	11400					
40	35,25	1,57	506	11400					
44	32,15	1,70	461	11400					
49	28,39	1,95	407	11400					
56	24,95	2,20	358	11300					
64	22,02	2,40	316	11300					
72	19,51	2,70	280	11300					
80	17,59	2,70	252	11300					
90	15,53	3,00	223	11300					
102	13,75	3,20	197	11300					
115	12,21	3,20	175	11200					



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2,2 3	119	11,75	3,30	169	11200	İRK İRKFM	73 / 100 L 4a	147 148	59 63
	129	10,85	3,50	156	11200				
	135	10,38	3,50	149	11200				
	152	9,190	3,60	132	11200				
	172	8,156	4,00	117	11200				
	193	7,247	4,20	104	11200				
	205	6,833	4,30	98	11200				
	215	6,525	4,00	94	11200				
	241	5,798	4,20	83	11200				
	256	5,467	4,30	78	11200				
	45	30,93	0,90	444	4500	İRK İRKFM	63 / 100 L 4a	143 144	50 52
	50	27,84	0,98	399	4500				
	56	25,13	1,10	360	4500				
	62	22,73	1,20	326	4450				
	65	21,59	1,25	310	4400				
	73	19,11	1,40	274	4350				
	93	15,04	1,64	216	4350				
	104	13,50	1,70	194	4350				
	115	12,15	1,84	174	4350				
	128	10,97	1,91	157	4250				
	134	10,44	1,84	150	4250				
	149	9,423	1,91	135	4250				
	164	8,522	2,00	122	4000				
	173	8,097	2,20	116	4000				
	195	7,165	2,20	103	4000				
	210	6,682	1,95	96	4000				
	232	6,043	2,10	87	4000				
	244	5,741	2,20	82	4000				
	276	5,081	2,30	73	4000				
	63	22,34	0,82	320	2050				
	71	19,83	0,92	284	2000	İRK İRKFM	53 / 100 L 4a	139 140	39 40
	79	17,65	1,05	253	2000				
	89	15,73	1,18	226	2000	İRK İRKFM	52 / 100 L 4a	139 140	38 39
	98	14,25	0,98	208	2000				
	114	12,27	1,09	179	2000				
	131	10,67	1,22	155	2000				
	150	9,342	1,33	136	2000				
	170	8,229	1,44	120	2000				
	192	7,280	1,56	106	2000	İRK İRKFM	52 / 100 L 4a	139 140	38 39
	217	6,463	1,66	94	2000				
243	5,751	1,77	84	2000					
257	5,453	1,66	79	2000					
289	4,853	1,77	71	2000					
324	4,325	1,88	63	2000	İRK İRKFM	43 / 100 L 4a	139 140	39 40	
63	22,34	0,82	320	2050					
71	19,83	0,92	284	2000					
79	17,65	1,05	253	2000					
89	15,73	1,18	226	2000					
98	14,25	0,98	208	2000					
114	12,27	1,09	179	2000					
131	10,67	1,22	155	2000					
150	9,342	1,33	136	2000					
170	8,229	1,44	120	2000					
192	7,280	1,56	106	2000	İRK İRKFM	42 / 100 L 4a	139 140	38 39	
217	6,463	1,66	94	2000					
243	5,751	1,77	84	2000					
257	5,453	1,66	79	2000					
289	4,853	1,77	71	2000					
324	4,325	1,88	63	2000					
63	22,34	0,82	320	2050					
71	19,83	0,92	284	2000					
79	17,65	1,05	253	2000					
89	15,73	1,18	226	2000					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2,2 3	217	6,463	1,66	94	2000	İRK İRKFM	42 / 100 L 4a	139	38
	243	5,751	1,77	84	2000			140	39
	257	5,453	1,66	79	2000				
	289	4,853	1,77	71	2000				
	324	4,325	1,88	63	2000				
3 4	1,0	1366	0,83	25531	110000	İRK İRKFM	153 İR 93 / 100 L 4b	189	898
	1,3	1064	1,00	19886	110000			190	988
	1,5	952	1,12	17793	110000				
	1,7	847	1,25	15831	110000				
	1,9	747	1,43	13962	110000				
	2,1	664	1,61	12410	110000				
	2,4	594	1,80	11102	110000				
	2,6	534	2,00	9981	110000				
	2,9	483	2,20	9027	110000				
	3,2	438	2,40	8186	110000				
	3,5	399	2,70	7457	110000	İRK İRKFM	153 İR 92 / 100 L 4b	189	892
	3,8	364	2,90	6803	110000			190	982
	1,8	769	1,41	14592	110000				
	2,1	678	1,54	12865	110000				
	2,3	602	1,76	11423	110000				
	2,6	539	1,98	10227	110000				
	2,9	481	2,20	9127	110000				
	3,2	431	2,50	8178	110000				
	3,6	389	2,80	7381	110000				
	4,0	352	3,10	6679	110000				
	2,6	547	1,98	10535	110000	İRK İRKFM	154 / 100 L 4b	187	820
	2,8	496	2,20	9548	110000			188	910
	3,6	386	2,80	7435	110000				
	4,1	344	3,10	6633	110000				
	4,5	309	3,50	5959	110000				
	2,5	564	1,25	10702	75000	İRK İRKFM	143 İR 82 / 100 L 4b	183	655
	2,8	501	1,40	9506	75000			184	705
	3,1	447	1,50	8482	75000				
	3,5	402	1,65	7628	75000				
	3,9	363	1,95	6888	75000				
	4,4	320	2,10	6072	75000				
	5,4	261	2,70	4952	75000				
	6,4	219	3,20	4155	75000				
	7,7	181	3,60	3434	75000				
	8,5	164	4,00	3112	75000				
	1,8	769	0,83	14592	75000	İRK İRKFM	143 İR 72 / 100 L 4b	181	615
	2,0	686	0,99	13017	75000			182	665
	2,3	598	1,10	11347	75000				
	2,6	530	1,21	10057	75000				
	3,0	474	1,46	8994	75000				
	3,6	384	1,72	7286	75000				
	4,0	353	1,85	6698	75000				
	4,5	314	2,10	5958	75000				
	4,9	283	2,30	5370	75000				
	5,6	250	2,70	4744	75000				
	6,2	225	3,00	4269	75000	İRK İRKFM	144 / 100 L 4b	179	612
	6,9	203	3,50	3852	75000			180	662
	8,2	170	3,80	3226	75000				
	2,1	652	0,99	12551	75000				
	2,4	589	1,10	11349	75000				
	2,8	492	1,35	9479	75000				
	3,2	433	1,55	8342	75000				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	İ Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
3 4	3,6	384	1,75	7402	75000	İRK İRKFM	144 / 100 L 4b	179	612
	4,1	339	1,90	6522	75000			180	662
	4,7	300	2,00	5787	75000				
	5,2	268	2,30	5170	75000				
	5,8	241	2,50	4644	75001	İRK İRKFM	144 / 100 L 4b	179	612
	6,5	216	3,00	4163	75002			180	662
	4,5	154	2,20	6036	75000	İRKPM İRKFPM	143 / 132 M 8a	177	591
								178	641
	5,1	137	2,30	5371	75000	İRK İRKFM	143 / 132 M 8a	177	591
	5,7	123	2,60	4821	75000			178	641
	5,8	154	2,90	4695	75000	İRKPM İRKFPM	143 / 132 S 6b	177	590
								178	640
	6,6	137	3,00	4177	75000	İRK İRKFM	143 / 132 S 6b	177	590
	7,3	123	3,30	3750	75000			178	640
	8,1	111	4,00	3391	75000				
	3,1	458	0,97	8690	75000				
	3,4	408	1,10	7742	75000	İRK İRKFM	123 İR 72 / 100 L 4b	175 176	342 372
	3,8	364	1,23	6907	75000				
	4,3	327	1,35	6205	75000				
	4,8	294	1,50	5579	75000				
	5,0	282	1,55	5351	75000				
	5,6	250	1,75	4744	75000				
	6,1	228	1,95	4326	75000				
	7,0	201	2,20	3814	75000				
	7,7	181	2,40	3434	75000				
	8,6	163	2,50	3093	75000				
	9,5	148	2,50	2808	75000				
	10	134	2,50	2543	75000				
	12	121	2,50	2296	75000				
	2,7	330	0,80	9898	60800	İRK İRKFM	124 / 132 S 6b	173	329
	3,0	302	0,88	9039	60800			174	359
	3,3	273	0,99	8181	60800	İRK İRKFM	124 / 100 L 4b	173 174	319 349
	3,1	446	0,92	8600	60800				
	3,5	403	1,03	7767	60800				
	3,8	366	1,14	7057	60800				
	4,2	330	1,25	6363	60800				
	4,6	302	1,36	5811	60800				
	5,1	273	1,50	5259	60800				
	5,6	249	1,65	4803	60800				
	6,1	229	1,80	4406	60800				
	6,9	204	2,00	3928	60800				
	7,8	180	2,30	3469	60800				
	8,7	160	2,60	3083	60800				
	9,8	143	2,90	2755	60800				
	4,8	147	1,35	5733	60800	İRKPM İRKFPM	123 / 132 M 8a	171	318
	5,4	129	1,50	5040	60800			172	348
	6,1	115	1,80	4480	60800	İRK İRKFM	123 / 132 M 8a	171	318
	6,8	103	2,00	4016	60800			172	348
6,1	147	1,76	4459	60800	İRKPM İRKFPM	123 / 132 S 6b	171	317	
7,0	129	1,98	3920	60800			172	347	
7,9	115	2,30	3484	60800	İRK İRKFM	123 / 132 S 6b	171	317	
8,8	103	2,60	3124	60800			172	347	
9,6	147	2,70	2866	60800	İRKPM İRKFPM	123 / 100 L 4b	171	307	
11	129	3,00	2520	60800			172	337	
12	115	3,60	2240	60800					
14	103	4,00	2008	60800					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
3 4	5,4	261	0,84	4952	38000	İRK İRKFM	103 İR 62 / 100 L 4b	169	227
	6,0	235	0,99	4459	38000			170	247
	6,6	212	1,10	4023	38000	İRK İRKFM	104 / 100 L 4b	167	214
	6,3	224	0,95	4313	38000			168	234
	7,9	178	1,17	3430	38000	İRK İRKFM	103 / 100 L 4b	165 166	202 222
	8,7	160	1,30	3086	38000				
	9,9	141	1,50	2753	38000				
	11	125	1,71	2445	38000				
	12	112	1,95	2191	38000				
	14	101	2,10	1977	38000				
	15	91,80	2,30	1795	38000				
	18	76,79	2,80	1502	38000				
	22	64,81	3,40	1267	38000				
	25	57,11	3,80	1117	38000				
	31	45,42	4,60	888	38000	İRK İRKFM	93 / 100 L 4b	159 160	142 153
	10	134	0,99	2616	24000				
	12	121	1,10	2359	24000				
	13	109	1,20	2140	24000				
	14	99,73	1,25	1951	24000				
	17	82,79	1,50	1619	24000				
	19	73,81	1,80	1444	24000				
	21	66,27	2,10	1296	24000				
	23	59,85	2,30	1170	24000				
	26	53,18	2,60	1040	24000				
	29	47,73	2,80	933	24000				
	33	43,03	3,20	841	24000				
	37	38,24	3,40	748	24000	İRK İRKFM	83 / 100 L 4b	153 154	93 99
	40	35,33	3,80	691	24000				
	42	33,19	3,90	649	24000				
	15	93,77	0,80	1834	13650				
	17	83,39	0,90	1631	14100				
	19	74,67	1,00	1460	14800				
	23	60,61	1,20	1185	14880				
	26	53,24	1,36	1041	15290				
	30	47,32	1,53	925	15500				
	33	42,28	1,71	827	15700				
	37	37,93	1,87	742	15700				
	41	34,15	2,00	668	15900				
	45	31,34	2,40	613	16350				
	50	27,86	2,70	545	16350				
	56	24,89	3,00	487	16490	İRK İRKFM	73 / 100 L 4b	147 148	62 66
	63	22,33	3,30	437	16680				
	72	19,33	3,60	378	16800				
	81	17,27	4,00	338	16600				
	90	15,50	4,50	303	16500				
	27	51,24	0,81	1002	11300				
	30	46,41	0,88	908	11300				
	33	42,21	0,99	826	11300				
	40	35,25	1,15	689	11300				
	44	32,15	1,25	629	11200				
	49	28,39	1,43	555	11200				
	56	24,95	1,61	488	11100				
	64	22,02	1,72	431	11100				
	72	19,51	1,94	381	11100				
	80	17,59	1,98	344	11100				
	90	15,53	2,20	304	11000				
	102	13,75	2,30	269	11000				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg				
3 4	115	12,21	2,30	239	11000	İRK İRKFM	73 / 100 L 4b	147 148	62 66				
	119	11,75	2,40	230	11000								
	129	10,85	2,50	212	11000								
	135	10,38	2,50	203	11000								
	152	9,190	2,60	180	10800								
	172	8,156	2,90	160	10800								
	193	7,247	3,10	142	10800								
	205	6,833	3,20	134	10800								
	215	6,525	2,90	128	10800								
	241	5,798	3,10	113	10800								
	256	5,467	3,20	107	10800								
	62	22,73	0,88	444	4450	İRK İRKFM	63 / 100 L 4b	143 144	53 55				
	65	21,59	0,92	422	4400								
	73	19,11	1,03	374	4350								
	93	15,04	1,20	294	4250								
	104	13,50	1,25	264	4250								
	115	12,15	1,35	238	4150								
	128	10,97	1,40	214	4150								
	134	10,44	1,35	204	4150								
	149	9,423	1,40	184	4150								
	164	8,522	1,50	167	3950								
	173	8,097	1,60	158	3950								
	195	7,165	1,65	140	3950								
	210	6,682	1,43	131	3950								
	232	6,043	1,50	118	3950								
	244	5,741	1,57	112	3950								
	276	5,081	1,65	99	3950								
	79	17,65	0,77	345	1950					İRK İRKFM	53 / 100 L 4b	139 140	42 43
	89	15,73	0,86	308	1950					İRKPM İRKFPM	52 / 100 L 4b	139 140	41 42
	114	12,27	0,80	244	1950								
	131	10,67	0,89	212	1950								
	150	9,342	0,98	185	1950								
	170	8,229	1,06	163	1950								
	192	7,280	1,14	145	1950	İRK İRKFM	52 / 100 L 4b	139 140	41 42				
	217	6,463	1,22	128	1950								
	243	5,751	1,30	114	1950								
	257	5,453	1,22	108	1950								
	289	4,853	1,30	96	1950								
	324	4,325	1,38	86	1950	İRK İRKFM	43 / 100 L 4b	139 140	42 43				
	79	17,65	0,77	345	1950								
89	15,73	0,86	308	1950									
114	12,27	0,80	244	1950									
131	10,67	0,89	212	1950									
150	9,342	0,98	185	1950	İRKPM İRKFPM	42 / 100 L 4b	139 140	41 42					
170	8,229	1,06	163	1950									
192	7,280	1,14	145	1950									
217	6,463	1,22	128	1950									
243	5,751	1,30	114	1950									
257	5,453	1,22	108	1950	İRK İRKFM	42 / 100 L 4b	139 140	41 42					
289	4,853	1,30	96	1950									
324	4,325	1,38	86	1950									
4 5,5	1,5	952	0,84	23724					110000	İRK İRKFM	153 İR 93 / 112 M 4b	189 190	905 995
	1,7	847	0,94	21107					110000				
	1,9	747	1,07	18615	110000								
	2,1	664	1,21	16547	110000								
	2,4	594	1,35	14803	110000								
	2,6	534	1,50	13307	110000								



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
4 5,5	2,9	483	1,68	12036	110000	İRK İRKFM	153 İR 93 / 112 M 4b	189 190	905 995
	3,2	438	1,83	10915	110000				
	3,5	399	1,96	9943	110000				
	3,8	364	2,20	9071	110000				
	4,2	333	2,40	8298	110000				
	4,6	305	2,60	7601	110000				
	1,8	769	1,06	19456	110000	İRK İRKFM	153 İR 92 / 112 M 4b	189 190	899 989
	2,1	678	1,15	17153	110000				
	2,3	602	1,32	15230	110000				
	2,6	539	1,48	13637	110000				
	2,9	481	1,65	12169	110000				
	3,2	431	1,87	10904	110000				
	3,6	389	2,10	9842	110000				
	4,0	352	2,30	8906	110000				
	4,4	319	2,50	8071	110000				
	4,8	290	2,80	7337	110000				
	5,8	242	3,30	6123	110000				
	2,6	547	1,49	14046	110000	İRK İRKFM	154 / 112 M 4b	187 188	827 917
	2,8	496	1,65	12731	110000				
	3,6	386	2,10	9914	110000				
	4,1	344	2,30	8844	110000				
	4,5	309	2,60	7945	110000				
	5,2	271	3,00	6971	110000				
	6,0	232	3,50	5961	110000	İRK İRKFM	153 / 160 M 8a	185 186	798 888
	5,0	141	2,50	7334	110000				
	5,5	127	2,70	6647	110000	İRK İRKFM	143 İR 82 / 112 M 4b	183 184	662 712
	2,5	564	0,94	14269	75000				
	2,8	501	1,05	12675	75000				
	3,1	447	1,12	11309	75000				
	3,5	402	1,23	10171	75000				
	3,9	363	1,46	9184	75000				
	4,4	320	1,57	8096	75000				
	5,4	261	2,00	6603	75000				
	6,4	219	2,40	5541	75000				
	7,7	181	2,70	4579	75000				
	8,5	164	3,00	4149	75000				
	10	137	3,50	3466	75000				
	2,6	530	0,90	13409	75000	İRK İRKFM	143 İR 72 / 112 M 4b	181 182	622 672
	3,0	474	1,10	11992	75000				
	3,6	384	1,29	9715	75000				
4,0	353	1,39	8931	75000					
4,5	314	1,54	7944	75000					
4,9	283	1,69	7160	75000					
5,6	250	2,00	6325	75000					
6,2	225	2,20	5692	75000					
6,9	203	2,60	5136	75000					
8,2	170	2,90	4301	75000					
9,3	151	3,10	3820	75000					
10	135	3,40	3415	75000					
2,4	589	0,82	15132	75000	İRK İRKFM	144 / 112 M 4b	179 180	619 669	
2,8	492	1,01	12639	75000					
3,2	433	1,16	11122	75000					
3,6	384	1,31	9869	75000					
4,1	339	1,42	8696	75000					
4,7	300	1,53	7716	75000					
5,2	268	1,72	6893	75000					



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
4 5,5	5,8	241	1,91	6192	75000	İRK İRKFM	144 / 112 M 4b	179	619
	6,5	216	2,20	5551	75000			180	669
	6,9	204	2,40	5241	75000				
	7,8	180	2,80	4612	75000				
	8,8	159	3,10	4092	75000				
	4,5	154	1,65	8048	75000	İRKPM İRKFPM	143 / 160 M 8a	177	614
	5,1	137	1,72	7161	75000			178	664
	5,7	123	1,95	6428	75000	İRK İRKFM	143 / 160 M 8a	177	614
								178	664
	5,8	154	2,20	6259	75000	İRKPM İRKFPM	143 / 132 M 6a	177	600
								178	650
	6,6	137	2,30	5570	75000	İRK İRKFM	143 / 132 M 6a	177	600
	7,3	123	2,50	5000	75000			178	650
	8,1	111	3,00	4521	75000	İRK İRKFM	123 İR 72 / 112 M 4b	175 176	349 379
	3,4	408	0,83	10322	60800				
	3,8	364	0,92	9209	60800				
	4,3	327	1,01	8273	60800				
	4,8	294	1,12	7438	60800				
	5,0	282	1,16	7135	60800				
	5,6	250	1,31	6325	60800				
	6,1	228	1,46	5768	60800				
	7,0	201	1,65	5085	60800				
	7,7	181	1,83	4579	60800				
	8,6	163	1,91	4124	60800				
	9,5	148	1,91	3744	60800				
	10	134	1,91	3390	60800				
	12	121	1,91	3061	60800				
	3,5	403	0,77	10356	60800	İRK İRKFM	124 / 112 M 4b	173 174	326 356
	3,8	366	0,85	9410	60800				
	4,2	330	0,94	8484	60800				
	4,6	302	1,02	7748	60800				
	5,1	273	1,13	7012	60800				
	5,6	249	1,24	6404	60800				
	6,1	229	1,35	5875	60800				
	6,9	204	1,51	5238	60800				
	7,8	180	1,73	4625	60800				
	8,7	160	1,93	4111	60800				
	9,8	143	2,20	3673	60800	İRKPM İRKFPM	123 / 160 M 8a	171	341
	6,1	115	1,35	5973	60800			172	371
	6,8	103	1,50	5355	60800	İRK İRKFM	123 / 160 M 8a	171	341
								172	371
	6,1	147	1,32	5945	60800	İRKPM İRKFPM	123 / 132 M 6a	171	327
	7,0	129	1,49	5227	60800			172	357
	7,9	115	1,71	4645	60800	İRK İRKFM	123 / 132 M 6a	171	327
	8,8	103	1,93	4165	60800			172	357
	9,6	147	2,00	3822	60800	İRKPM İRKFPM	123 / 112 M 4b	171 172	314 344
	11	129	2,30	3360	60800				
	12	115	2,70	2986	60800				
	14	103	3,00	2678	60800				
	15	92,73	3,30	2418	60800				
	17	84,26	3,70	2197	60800				
	18	76,95	4,00	2007	60800	İRK İRKFM	103 İR 62 / 112 M 4b	169	234
	6,6	212	0,82	5364	38000			170	254
	7,9	178	0,88	4573	37400			167	221
	8,7	160	0,97	4115	37400	İRKFM	104 / 112 M 4b	168	241



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
4 5,5	9,9	141	1,13	3671	37700	İRK İRKFM	103 / 112 M 4b	165 166	209 229
	11	125	1,28	3261	37700				
	12	112	1,46	2921	37600				
	14	101	1,60	2637	37500				
	15	91,80	1,76	2394	37400				
	18	76,79	2,10	2002	37300				
	22	64,81	2,50	1690	37150				
	25	57,11	2,90	1489	37100				
	31	45,42	3,50	1184	37000				
	34	40,87	3,80	1066	37000				
	38	36,95	4,20	963	37000				
	42	33,53	4,60	874	37000				
	46	30,65	5,30	799	37000				
	13	109	0,90	2853	23550	İRK İRKFM	93 / 112 M 4b	159 160	149 160
	14	99,73	0,94	2601	23550				
	17	82,79	1,12	2159	23700				
	19	73,81	1,35	1925	23750				
	21	66,27	1,54	1728	23800				
	23	59,85	1,69	1561	23800				
	26	53,18	1,91	1387	23900				
	29	47,73	2,10	1245	23900				
	33	43,03	2,40	1122	23950	İRK İRKFM	93 / 112 M 4b	159 160	149 160
	37	38,24	2,60	997	24050				
	40	35,33	2,90	921	24100				
	42	33,19	2,90	865	24150				
	47	29,78	3,20	777	24200				
	52	26,85	3,60	700	24200				
	59	23,86	4,00	622	24400	İRK İRKFM	83 / 112 M 4b	153 154	100 106
	23	60,61	0,90	1580	14800				
	26	53,24	1,02	1388	14950				
	30	47,32	1,15	1234	15100				
	33	42,28	1,28	1102	15400				
	37	37,93	1,40	989	15700				
	41	34,15	1,50	890	15900				
	45	31,34	1,81	817	15900				
	50	27,86	2,00	726	16350				
	56	24,89	2,30	649	16350				
	63	22,33	2,50	582	16000				
	72	19,33	2,70	504	15700				
	81	17,27	3,00	450	15700				
	90	15,50	3,40	404	15500				
	100	13,95	3,70	364	15500				
	111	12,59	3,80	328	15350				
	123	11,39	3,90	297	15350				
136	10,31	4,10	269	15350					
150	9,350	4,20	244	15000					
168	8,312	3,90	217	15000					
186	7,528	4,10	196	15000					
205	6,824	4,20	178	15000					
226	6,189	4,40	161	15000					
304	4,609	5,90	120	15000	İRK İRKFM	73 / 112 M 4b	147 148	69 73	
40	35,25	0,86	919	11150					
44	32,15	0,94	838	11150					
49	28,39	1,07	740	11100					
56	24,95	1,21	651	11100					
64	22,02	1,29	574	11000					



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types		 ~kg
4 5,5	72	19,51	1,46	509	11000	İRK İRKFM 73 / 112 M 4b	147 148	69 73
	80	17,59	1,49	459	10900			
	90	15,53	1,65	405	10900			
	102	13,75	1,76	359	10700			
	115	12,21	1,76	318	10700			
	119	11,75	1,82	306	10700			
	129	10,85	1,92	283	10500			
	135	10,38	1,92	271	10500			
	152	9,190	1,98	240	10500			
	172	8,156	2,20	213	10500			
	193	7,247	2,30	189	10500			
	205	6,833	2,40	178	10500			
	215	6,525	2,20	170	10500			
	241	5,798	2,30	151	10500			
	256	5,467	2,40	143	10500			
	210	6,682	1,07	174	14800			
	232	6,043	1,13	158	14950			
	244	5,741	1,18	150	15100			
	276	5,081	1,23	132	15400			
5,5 7,5	2,1	664	0,88	22752	110000	İRK İRKFM 153 İR 93 / 132 S 4c	189 190	907 997
	2,4	594	0,98	20354	110000			
	2,6	534	1,50	18298	110000			
	2,9	483	1,22	16550	110000			
	3,2	438	1,33	15008	110000			
	3,5	399	1,43	13672	110000			
	3,8	364	1,60	12473	110000			
	4,2	333	1,76	11410	110000			
	4,6	305	1,96	10451	110000			
	2,1	678	0,84	23586	110000	İRK İRKFM 153 İR 92 / 132 S 4c	189 190	901 991
	2,3	602	0,96	20942	110000			
	2,6	539	1,08	18750	110000			
	2,9	481	1,20	16733	110000			
	3,2	431	1,36	14993	110000			
	3,6	389	1,52	13532	110000			
	4,0	352	1,68	12245	110000			
	4,4	319	1,84	11097	110000			
	4,8	290	2,00	10088	110000			
	5,8	242	2,40	8418	110000	İRK İRKFM 154 / 132 S 4c	187 188	829 919
	6,9	202	2,90	7027	110000			
	2,6	547	1,08	19313	110000			
	2,8	496	1,20	17505	110000			
	3,6	386	1,52	13632	110000			
	4,1	344	1,72	12160	110000			
	4,5	309	1,92	10924	110000			
	5,2	271	2,20	9585	110000			
	6,0	232	2,60	8197	110000			
	6,7	208	2,80	7363	110000	İRK İRKFM 153 / 160 M 8b	185 186	808 898
	8,1	173	3,40	6122	110000			
	9,0	156	3,80	5500	110000			
	5,0	141	1,86	10084	110000			
	5,5	127	2,00	9140	110000			
	6,4	141	2,30	7843	110000	İRK İRKFM 153 / 132 M 6b	185 186	798 888
	7,1	127	2,60	7109	110000			
	9,1	99,25	3,30	5536	110000			
	10	88,54	3,70	4938	110000			



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
5,5 7,5	3,5	402	0,90	13984	75000	İRK İRKFM	143 İR 82 / 132 S 4c	183 184	664 714
	3,9	363	1,06	12628	75000				
	4,4	320	1,14	11132	75000				
	5,4	261	1,50	9079	75000				
	6,4	219	1,78	7618	75000				
	7,7	181	2,00	6296	75000				
	8,5	164	2,20	5705	75000				
	10	137	2,60	4766	75000	İRK İRKFM	143 İR 72 / 132 S 4c	181 182	624 674
	3,6	384	0,94	13358	75000				
	4,0	353	1,00	12280	75000				
	4,5	314	1,12	10923	75000				
	4,9	283	1,22	9845	75000				
	5,6	250	1,48	8697	75000				
	6,2	225	1,64	7827	75000				
	6,9	203	1,92	7062	75000	İRK İRKFM	144 / 132 S 4c	179 180	621 671
	8,2	170	2,10	5914	75000				
	9,3	151	2,30	5253	75000				
	10	135	2,50	4696	75000				
	3,2	433	0,85	15293	75000				
	3,6	384	0,95	13570	75000				
	4,1	339	1,03	11956	75000				
	4,7	300	1,11	10609	75000	İRK İRKFM	143 / 160 M 8b	177 178	624 674
	5,2	268	1,25	9478	75000				
	5,8	241	1,39	8514	75000				
	6,5	216	1,64	7633	75000				
	6,9	204	1,77	7206	75000				
	7,8	180	2,00	6342	75000				
	8,8	159	2,20	5627	75000				
	5,7	123	1,42	8839	73300	İRK İRKFM	143 / 132 M 6b	177 178	614 664
	5,8	154	1,58	8607	73300	İRK İRKFM	143 / 132 M 6b	177 178	614 664
	6,6	137	1,63	7658	73300	İRK İRKFM	143 / 132 S 4c	177 178	589 639
	7,3	123	1,80	6875	73300				
	8,1	111	2,20	6217	73300				
	9,1	154	2,40	5533	73300	İRK İRKFM	143 / 132 S 4c	177 178	589 639
	10	137	2,50	4923	73300	İRK İRKFM	123 İR 72 / 132 S 4c	175 176	351 381
	11	123	2,80	4419	73300				
13	111	3,30	3996	73300					
4,8	294	0,82	10227	60000	İRK İRKFM	124 / 132 S 4c	173 174	328 358	
5,0	282	0,85	9810	60000					
5,6	250	0,95	8697	60000					
6,1	228	1,06	7931	60000					
7,0	201	1,20	6992	60000					
7,7	181	1,33	6296	60000					
8,6	163	1,39	5670	60000					
9,5	148	1,39	5149	60000	İRK İRKFM	124 / 132 S 4c	173 174	328 358	
10	134	1,39	4661	60000					
12	121	1,39	4209	60000					
5,1	273	0,82	9642	60000					
5,6	249	0,90	8806	60000					
6,1	229	0,98	8078	60000					
6,9	204	1,10	7202	60000					
7,8	180	1,26	6360	60000					
8,7	160	1,40	5653	60000					
9,8	143	1,58	5050	60000					



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
5,5 7,5	7,9	115	1,24	6387	60000	İRK M	123 / 132 M 6b	171	341
	8,8	103	1,40	5727	60000	İRK FM		172	371
	9,6	147	1,47	5255	59000	İRK PM	123 / 132 S 4c	171	316
	11	129	1,64	4620	59000	İRK FPM		172	346
	12	115	1,96	4106	59000	İRK M İRK FM	123 / 132 S 4c	171 172	316 346
	14	103	2,20	3682	59000				
	15	92,73	2,40	3325	59000				
	17	84,26	2,70	3021	59000				
	18	76,95	2,90	2759	57500	İRK M İRK FM	123 / 132 S 4c	171 172	316 346
	20	70,59	3,10	2531	57500				
	22	62,94	3,30	2257	57500				
	25	55,58	3,80	1993	57500				
	12	112	1,06	4017	36000	İRK M İRK FM	103 / 132 S 4c	165 166	211 231
	14	101	1,16	3625	36000				
	15	91,80	1,28	3291	35850				
	18	76,79	1,55	2753	35700				
	22	64,81	1,84	2324	35500				
	25	57,11	2,10	2048	35400				
	31	45,42	2,50	1628	35400				
	34	40,87	2,80	1465	35400				
	38	36,95	3,10	1325	35400				
	42	33,53	3,30	1202	35400				
	46	30,65	3,80	1099	35400	İRK M İRK FM	93 / 132 S 4c	159 160	151 162
	51	27,58	4,30	989	35400				
	56	24,93	4,70	894	35400				
	21	66,27	1,12	2376	23500				
	23	59,85	1,23	2146	23500				
	26	53,18	1,39	1907	23550				
	29	47,73	1,52	1711	23600				
	33	43,03	1,72	1543	23650				
	37	38,24	1,88	1371	23700				
	40	35,33	2,10	1267	23700				
	42	33,19	2,10	1190	23750				
	47	29,78	2,40	1068	23750				
	52	26,85	2,60	963	23750				
	59	23,86	2,90	856	23850				
	64	22,05	3,20	790	23850				
	67	20,80	3,30	746	23850				
	75	18,67	3,40	669	23900				
	83	16,83	3,50	603	24050	İRK M İRK FM	83 / 132 S 4c	153 154	102 108
	94	14,96	3,70	536	24050				
	101	13,82	3,90	495	24050				
	33	42,28	0,93	1516	14800				
	37	37,93	1,02	1360	14900				
	41	34,15	1,09	1224	15250				
	45	31,34	1,32	1124	15600				
	50	27,86	1,48	999	15600				
	56	24,89	1,68	892	15800				
	63	22,33	1,84	801	16300				
	72	19,33	2,00	693	16300				
	81	17,27	2,20	619	16300				
	90	15,50	2,50	556	16150				
	100	13,95	2,70	500	16000				
	111	12,59	2,80	451	15900				
	123	11,39	2,90	408	15700				
	136	10,31	3,00	370	15500				



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
5,5 7,5	150	9,350	3,10	335	15200	İRK İRKFM	83 / 132 S 4c	153 154	102 108
	168	8,312	2,90	298	15000				
	186	7,528	3,00	270	15000				
	205	6,824	3,10	245	15000				
	226	6,189	3,20	222	15000				
	304	4,609	4,30	165	15000				
	80	17,59	1,08	631	10600	İRK İRKFM	73 / 132 S 4c	147 148	71 75
	90	15,53	1,20	557	10600				
	102	13,75	1,28	493	10400				
	115	12,21	1,28	438	10400				
	119	11,75	1,32	421	10400				
	129	10,85	1,40	389	10200				
	135	10,38	1,40	372	10200				
	152	9,190	1,44	329	10200				
	172	8,156	1,60	292	10200				
	193	7,247	1,68	260	10200				
	205	6,833	1,74	245	10200				
	215	6,525	1,61	234	10200				
	241	5,798	1,69	208	10200				
	256	5,467	1,74	196	10200				
7,5 11	3,3	420	1,03	19924	110000	İRK İRKFM	153 İR 102 / 132 M 4b	191 192	990 1080
	3,7	380	1,14	18026	110000				
	4,1	345	1,26	16366	110000				
	4,5	314	1,39	14895	110000				
	5,4	261	1,68	12381	110000				
	6,4	218	1,99	10341	110000				
	7,3	192	2,20	9108	110000	İRK İRKFM	153 İR 93 / 132 M 4b	189 190	918 1008
	2,6	534	1,09	24951	110000				
	2,9	483	0,90	22568	110000				
	3,2	438	0,98	20466	110000				
	3,5	399	1,05	18643	110000				
	3,8	364	1,17	17008	110000				
	4,2	333	1,29	15560	110000	İRK İRKFM	153 İR 92 / 132 M 4b	189 190	912 1002
	4,6	305	1,43	14251	110000				
	2,9	481	0,88	22817	110000				
	3,2	431	0,99	20445	110000				
	3,6	389	1,11	18453	110000				
	4,0	352	1,23	16698	110000				
	4,4	319	1,35	15132	110000	İRK İRKFM	154 / 132 M 4b	187 188	840 930
	4,8	290	1,50	13757	110000				
	5,8	242	1,79	11480	110000				
	6,9	202	2,10	9582	110000				
	2,8	496	0,88	23870	110000				
	3,6	386	1,11	18589	110000				
	4,1	344	1,26	16582	110000	İRK İRKFM	153 / 160 L 8a	185 186	855 945
	4,5	309	1,41	14897	110000				
	5,2	271	1,60	13071	110000				
	6,0	232	1,88	11177	110000				
	6,7	208	2,10	10041	110000				
	8,1	173	2,50	8349	110000				
	9,0	156	2,80	7500	110000	İRK İRKFM	153 / 160 M 6b	185 186	831 921
	10	137	3,20	6581	110000				
	11	122	3,60	5874	110000				
	5,0	141	1,36	13751	110000				
	5,5	127	1,46	12463	110000				
	6,4	141	1,68	10695	110000				
	7,1	127	1,90	9694	110000	İRK İRKFM	153 / 160 M 6b	185 186	831 921
	9,1	99,25	2,40	7549	110000				
	10	88,54	2,70	6734	110000				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
7,5 11	4,4	320	0,84	15180	72500	İRK İRKFM	143 İR 82 / 132 M 4b	183 184	675 725
	5,4	261	1,10	12381	72500				
	6,4	219	1,30	10389	72500				
	7,7	181	1,46	8586	72500				
	8,5	164	1,61	7780	72500				
	10	137	1,90	6499	72500				
	5,6	250	1,09	11859	72500	İRK İRKFM	143 İR 72 / 132 M 4b	181 182	635 685
	6,2	225	1,20	10673	72500				
	6,9	203	1,41	9630	72500				
	8,2	170	1,54	8064	72500				
	9,3	151	1,69	7163	72500				
	10	135	1,83	6404	72500				
	4,7	300	0,82	14467	75000	İRK İRKFM	144 / 132 M 4b	179 180	632 682
	5,2	268	0,92	12924	75000				
	5,8	241	1,02	11609	75000				
	6,5	216	1,20	10409	75000				
	6,9	204	1,30	9827	75000				
	7,8	180	1,48	8648	75000				
	8,8	159	1,64	7673	75000	İRK İRKFM	143 / 160 M 6b	177 178	647 697
	7,3	123	1,32	9375	72500				
	8,1	111	1,60	8477	72500	İRKPM İRKPFM	143 / 132 M 4b	177 178	600 650
	9,1	154	1,76	7545	72500	İRK İRKFM	143 / 132 M 4b	177 178	600 650
	10	137	1,83	6713	72500				
	11	123	2,10	6027	72500				
	13	111	2,40	5450	72500				
	15	93,10	2,80	4552	72500				
	17	81,92	3,20	4005	72500				
	19	72,69	3,70	3554	72500	İRK İRKFM	123 / 132 M 4b	171 172	327 357
	22	64,05	4,10	3132	72500				
	12	115	1,44	5599	56300				
	14	103	1,60	5020	56300				
	15	92,73	1,76	4534	56300				
	17	84,26	1,96	4120	56300				
	18	76,95	2,10	3763	56000				
	20	70,59	2,30	3451	55500				
	22	62,94	2,40	3077	55000				
	25	55,58	2,80	2717	54500				
	28	49,40	3,10	2415	54000	İRK İRKFM	103 / 132 M 4b	165 166	222 242
	32	44,14	3,50	2158	53600				
	35	39,60	3,80	1936	53100				
	18	76,79	1,14	3754	34850				
	22	64,81	1,35	3169	34200				
	25	57,11	1,52	2792	33900				
	31	45,42	1,84	2221	33900				
	34	40,87	2,00	1998	33550				
	38	36,95	2,20	1806	33250				
	42	33,53	2,50	1639	33000				
	46	30,65	2,80	1499	32700				
	51	27,58	3,10	1349	32500				
	56	24,93	3,50	1219	32300				
	62	22,63	3,80	1106	32050				
	68	20,60	4,20	1007	32050				
	74	18,81	4,50	920	32050				
	79	17,80	4,80	870	31850				



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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
7,5 11	21	66,27	0,82	3240	21350	İRK İRKFM	93 / 132 M 4b	159 160	162 173
	23	59,85	0,90	2926	21350				
	26	53,18	1,02	2600	21400				
	29	47,73	1,11	2334	21450				
	33	43,03	1,26	2104	21500				
	37	38,24	1,38	1870	21700				
	40	35,33	1,52	1727	21900				
	42	33,19	1,56	1623	21700				
	47	29,78	1,77	1456	21500				
	52	26,85	1,92	1313	21250				
	59	23,86	2,20	1167	21000				
	64	22,05	2,40	1078	20800				
	67	20,80	2,40	1017	20500				
	75	18,67	2,50	913	20000				
	83	16,83	2,60	823	19400				
	94	14,96	2,70	731	19250				
	101	13,82	2,90	676	19150				
	111	12,57	3,20	615	19050				
	122	11,46	3,30	560	19000				
	134	10,46	3,50	511	19000				
	146	9,561	3,60	467	19000				
	152	9,190	3,60	449	19000				
	167	8,377	3,90	410	19000				
	183	7,647	4,10	374	19000				
	200	6,989	4,20	342	19000				
	226	6,202	4,20	303	19000				
	41	34,15	0,80	1669	15650	İRK İRKFM	83 / 132 M 4b	153 154	113 119
	45	31,34	0,97	1532	15650				
	50	27,86	1,08	1362	15700				
	56	24,89	1,23	1217	15700				
	63	22,33	1,35	1092	15700				
	72	19,33	1,46	945	15750				
	81	17,27	1,61	845	15780				
	90	15,50	1,83	758	15500				
	100	13,95	1,98	682	15350				
	111	12,59	2,00	616	15250				
	123	11,39	2,10	557	15200				
	136	10,31	2,20	504	15100				
	150	9,350	2,30	457	15100				
	168	8,312	2,10	406	15050				
	186	7,528	2,20	368	15050				
	205	6,824	2,30	334	15050				
	226	6,189	2,30	303	15050				
	304	4,609	3,10	225	15050				
	102	13,75	0,94	672	10600	İRK İRKFM	73 / 132 M 4b	147 148	82 86
	115	12,21	0,94	597	10600				
	119	11,75	0,97	575	10400				
	129	10,85	1,03	530	10400				
	135	10,38	1,03	507	10400				
	152	9,190	1,06	449	10200				
	172	8,156	1,17	399	10200				
	193	7,247	1,23	354	10200				
	205	6,833	1,28	334	10200				
	215	6,525	1,18	319	10200				
	241	5,798	1,24	283	10200				
	256	5,467	1,28	267	10200				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
11 15	3,7	380	0,78	26438	110000	İRK İRKFM	153 İR 102 / 160 M 4b	191 192	1033 1123
	4,1	345	0,86	24003	110000				
	4,5	314	0,95	21846	110000				
	5,4	261	1,15	18159	110000				
	6,4	218	1,36	15167	110000				
	7,3	192	1,52	13358	110000				
	8,2	171	1,74	11897	110000				
	9,2	153	1,95	10645	110000	İRK İRKFM	153 İR 93 / 160 M 4b	189 190	961 1051
	3,8	364	0,80	24945	110000				
	4,2	333	0,88	22821	110000				
	4,6	305	0,98	20902	110000	İRK İRKFM	153 İR 92 / 160 M 4b	189 190	955 1045
	4,0	352	0,84	24490	110000				
	4,4	319	0,92	22194	110000				
	4,8	290	1,02	20177	110000				
	5,8	242	1,22	16837	110000				
	6,9	202	1,46	14054	110000				
	4,1	344	0,86	24320	110000	İRK İRKFM	154 / 160 M 4b	187 188	883 973
	4,5	309	0,96	21848	110000				
	5,2	271	1,09	19170	110000				
	6,0	232	1,28	16393	110000				
	6,7	208	1,42	14727	110000				
	8,1	173	1,71	12245	110000				
	9,0	156	1,89	11000	110000				
	10	137	2,20	9652	110000	İRK İRKFM	153 / 180 L 8b	185 186	873 963
	11	122	2,40	8615	110000				
	5,5	127	1,00	18279	110000	İRK İRKFM	153 / 160 L 6b	185 186	857 947
	6,4	141	1,15	15686	110000				
	7,1	127	1,30	14217	110000	İRK İRKFM	153 / 160 M 4b	185 186	827 917
	9,1	99,25	1,65	11071	110000				
	10	88,54	1,85	9876	110000				
	10,0	141	1,86	10084	110000	İRK İRKFM	143 İR 82 / 160 M 4b	183 184	718 768
	11	127	2,00	9140	110000				
	14	99,25	2,60	7117	110000				
	16	88,54	2,90	6349	110000	İRK İRKFM	143 İR 72 / 160 M 4b	181 182	678 728
	6,4	219	0,89	15237	72000				
	7,7	181	1,00	12593	72000				
	8,5	164	1,10	11410	72000				
	10	137	1,30	9532	72000	İRK İRKFM	144 / 160 M 4b	179 180	675 725
	6,2	225	0,82	15654	72000				
	6,9	203	0,96	14124	72000				
	8,2	170	1,05	11828	72000				
	9,3	151	1,15	10506	72000	İRK İRKFM	143 / 160 M 4b	177 178	643 693
	10	135	1,25	9393	72000				
	6,5	216	0,82	15266	75000				
	6,9	204	0,88	14413	75000				
	7,8	180	1,00	12683	75000	İRK İRKFM	143 / 160 M 4b	177 178	643 693
	8,8	159	1,12	11254	75000				
9,1	154	1,20	11066	71500	İRK İRKFM	143 / 160 M 4b	177 178	643 693	
11	123	1,40	8839	71500					
13	111	1,65	7993	71500					
15	93,10	1,95	6676	71500					
17	81,92	2,20	5875	71500					
19	72,69	2,50	5213	71500					
22	64,05	2,80	4593	71500					
25	56,83	3,10	4075	71500					
28	50,77	3,30	3641	71500					
31	45,61	3,70	3270	71500					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
Helical Bevel Geared Motor Performance Tables / Motorréducteur à couple conique table des performances



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
11 15	14	103	1,09	7363	54000	İRK İRKFM	123 / 160 M 4b	171 172	370 400
	15	92,73	1,20	6650	53200				
	17	84,26	1,33	6042	53200				
	18	76,95	1,45	5518	53000				
	20	70,59	1,56	5062	52500				
	22	62,94	1,67	4513	52000				
	25	55,58	1,90	3986	51500				
	28	49,40	2,10	3542	51000				
	32	44,14	2,40	3165	50600				
	35	39,60	2,60	2840	50100				
	41	33,90	2,80	2431	49600				
	46	30,13	3,30	2161	49000				
	52	26,92	3,70	1930	48400				
	25	57,11	1,04	4096	30000	İRK İRKFM	103 / 160 M 4b	165 166	265 285
	31	45,42	1,25	3257	30000				
	34	40,87	1,39	2931	30000				
	38	36,95	1,53	2649	30000				
	42	33,53	1,67	2405	30000				
	46	30,65	1,90	2198	30000				
	51	27,58	2,10	1978	30000				
	56	24,93	2,40	1788	30000				
	62	22,63	2,60	1623	30000				
	68	20,60	2,80	1478	30000				
	74	18,81	3,10	1349	30000				
	79	17,80	3,30	1276	30000				
	87	16,01	3,40	1148	30000				
	97	14,48	3,50	1038	30000				
	107	13,14	3,80	942	30000				
	117	11,96	4,50	858	30000	İRK İRKFM	93 / 160 M 4b	159 160	205 216
	33	43,03	0,86	3085	17950				
	37	38,24	0,94	2742	17950				
	40	35,33	1,04	2534	17950				
	42	33,19	1,06	2380	17950				
	47	29,78	1,21	2136	18000				
	52	26,85	1,31	1925	18000				
	59	23,86	1,47	1711	17800				
	64	22,05	1,61	1581	17700				
	67	20,80	1,64	1492	17600				
	75	18,67	1,70	1339	17500				
	83	16,83	1,77	1207	17400				
	94	14,96	1,84	1073	17150				
	101	13,82	1,97	991	17000				
	111	12,57	2,20	901	16750				
	122	11,46	2,30	822	16450				
	134	10,46	2,40	750	16150				
146	9,561	2,50	686	15800					
152	9,190	2,50	659	15600					
167	8,377	2,70	601	15250					
183	7,647	2,80	548	15050					
200	6,989	2,90	501	14900					
226	6,202	2,90	445	14900					
123	11,39	1,45	817	16050	İRK İRKFM	83 / 160 M 4b	153 154	156 162	
136	10,31	1,50	740	15800					
150	9,350	1,55	670	15700					
168	8,312	1,45	596	15600					
186	7,528	1,50	540	15600					
205	6,824	1,55	489	15600					
226	6,189	1,60	444	15600					
304	4,609	2,10	331	15600					



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	İ Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
15 20	5,4	261	0,84	24762	110000	İRK İRKFM	153 İR 102 / 160 L 4a	191 192	1056 1146
	6,4	218	1,00	20683	110000				
	7,3	192	1,11	18216	110000				
	8,2	171	1,27	16223	110000				
	9,2	153	1,43	14516	110000				
	11	130	1,61	12334	110000				
	12	116	1,83	11005	110000	İRK İRKFM	154 / 160 L 4a	187 188	906 996
	5,2	271	0,80	26141	110000				
	6,0	232	0,94	22355	110000				
	6,7	208	1,04	20082	110000				
	8,1	173	1,25	16697	110000				
	9,0	156	1,39	15000	110000				
	10	137	1,60	13161	110000	İRK İRKFM	153 / 180 L 6a	185 186	897 987
	11	122	1,79	11747	110000				
	7,1	127	0,95	19387	110000				
	9,1	99,25	1,21	15097	110000				
	10	88,54	1,35	13468	110000	İRK İRKFM	153 / 160 L 4a	185 186	850 940
	10,0	141	1,36	13751	110000				
	11	127	1,49	12463	110000				
	14	99,25	1,90	9706	110000				
	16	88,54	2,10	8658	110000				
	18	79,54	2,40	7778	110000				
	20	69,79	2,70	6824	110000	İRK İRKFM	143 / 160 L 4a	177 178	666 716
	11	123	1,03	12053	71000				
	13	111	1,21	10899	71000				
	15	93,10	1,43	9104	71000				
	17	81,92	1,61	8011	71000				
	19	72,69	1,85	7108	71000				
	22	64,05	2,10	6263	71000				
	25	56,83	2,30	5557	70500				
	28	50,77	2,50	4965	70500				
	31	45,61	2,70	4460	70500				
	34	41,15	3,20	4024	70000				
	37	37,89	3,40	3705	70000	İRK İRKFM	123 / 160 L 4a	171 172	393 423
	42	33,62	3,80	3288	70000				
	14	103	0,80	10041	50000				
	15	92,73	0,88	9068	49200				
	17	84,26	0,98	8239	49200				
	18	76,95	1,07	7525	49000				
	20	70,59	1,15	6903	48500				
	22	62,94	1,23	6154	48000				
	25	55,58	1,40	5435	47500				
28	49,40	1,55	4831	47000					
32	44,14	1,75	4316	46600					
35	39,60	1,90	3872	46100					
41	33,90	2,10	3315	45600					
46	30,13	2,40	2946	45000					
52	26,92	2,70	2632	44400					
58	24,15	2,90	2362	44100					
64	21,74	3,30	2126	43700					
67	20,83	3,30	2037	43500					
76	18,51	3,70	1810	43000	İRK İRKFM	103 / 160 L 4a	165 166	288 308	
31	45,42	0,92	4441	25800					
34	40,87	1,02	3996	25800					
38	36,95	1,12	3613	25800					
42	33,53	1,22	3279	25800					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
Helical Bevel Geared Motor Performance Tables / Motorréducteur à couple conique table des performances



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
15 20	46	30,65	1,41	2997	25800	İRK İRKFM	103 / 160 L 4a	165 166	288 308
	51	27,58	1,57	2697	25600				
	56	24,93	1,73	2438	25450				
	62	22,63	1,89	2213	25150				
	68	20,60	2,10	2015	25150				
	74	18,81	2,30	1839	24950				
	79	17,80	2,40	1740	24700				
	87	16,01	2,50	1566	24550				
	97	14,48	2,60	1416	24100				
	107	13,14	2,80	1285	23700				
	117	11,96	3,30	1170	23550				
	128	10,92	3,50	1068	23450				
	140	9,993	3,50	977	23300				
	153	9,159	3,50	896	23150				
	181	7,724	3,70	755	23150				
	197	7,102	3,80	694	23150				
	214	6,533	3,90	639	23150				
	59	23,86	1,08	2333	14400	İRK İRKFM	93 / 160 L 4a	159 160	228 239
	64	22,05	1,18	2156	14600				
	67	20,80	1,20	2034	14500				
	75	18,67	1,25	1825	14300				
	83	16,83	1,30	1645	14150				
	94	14,96	1,35	1463	14050				
	101	13,82	1,45	1351	14000				
	111	12,57	1,61	1229	13850				
	122	11,46	1,68	1121	13800				
	134	10,46	1,76	1023	13700				
	146	9,561	1,83	935	13500				
	152	9,190	1,83	899	13500				
	167	8,377	1,98	819	13500				
	183	7,647	2,00	748	13500				
	200	6,989	2,10	683	13500				
	226	6,202	2,10	607	13500				
18,5 25	6,4	218	0,81	25508	110000				
	7,3	192	0,90	22466	110000				
	8,2	171	1,03	20009	110000				
	9,2	153	1,16	17903	110000				
	11	130	1,31	15211	110000				
	12	116	1,48	13573	110000				
	13	104	1,66	12169	110000				
	8,1	173	1,02	20594	110000	İRK İRKFM	154 / 180 M 4b	187 188	951 1041
	9,0	156	1,12	18500	110000				
	10	137	1,30	16233	110000				
	11	122	1,45	14488	110000	İRK İRKFM	153 / 200 L 6b	185 186	923 1013
	9,1	99,25	0,98	18620	110000				
	10	88,54	1,10	16610	110000	İRK İRKFM	153 / 180 M 4b	185 186	895 985
	11	127	1,20	15371	110000				
	14	99,25	1,55	11970	110000				
	16	88,54	1,75	10678	110000				
	18	79,54	1,94	9593	110000				
	20	69,79	2,20	8417	110000				
	23	59,68	2,50	7198	110000				
	26	53,61	2,80	6466	110000				
	30	47,04	3,20	5673	110000				
	33	41,99	3,60	5064	110000				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
18,5 25	15	93,10	1,16	11228	70000	İRK İRKFM	143 / 180 M 4b	177 178	711 761
	17	81,92	1,31	9880	69500				
	19	72,69	1,50	8767	69150				
	22	64,05	1,66	7724	69000				
	25	56,83	1,82	6854	68400				
	28	50,77	1,98	6123	68000				
	31	45,61	2,20	5500	67600				
	34	41,15	2,60	4963	66500				
	37	37,89	2,80	4570	65900				
	42	33,62	3,10	4055	64700				
	47	30,03	3,40	3622	64100				
	52	26,98	3,70	3254	63000				
	58	24,35	4,00	2936	62500				
	18	76,95	0,86	9281	49000	İRKPM İRKFPM	123 / 180 M 4b	171 172	438 468
	20	70,59	0,93	8513	48500				
	22	62,94	0,99	7590	46000	İRK İRKFM	123 / 180 M 4b	171 172	438 468
	25	55,58	1,13	6703	45500				
	28	49,40	1,25	5958	45000				
	32	44,14	1,42	5323	44600				
	35	39,60	1,54	4776	44100				
	41	33,90	1,70	4088	43600				
	46	30,13	1,95	3634	43000				
	52	26,92	2,20	3246	42400				
	58	24,15	2,30	2913	42100				
	64	21,74	2,70	2622	41700				
	67	20,83	2,70	2512	41500				
	76	18,51	3,00	2233	41000				
	85	16,54	3,40	1995	41000				
	94	14,84	3,80	1790	40300				
	105	13,36	4,20	1611	40100				
	34	40,87	0,83	4929	23150	İRK İRKFM	103 / 180 M 4b	165 166	333 353
	38	36,95	0,91	4456	23150				
	42	33,53	0,99	4044	23150				
	46	30,65	1,15	3697	23150				
	51	27,58	1,27	3326	23000				
	56	24,93	1,41	3007	22900				
	62	22,63	1,53	2729	22900				
	68	20,60	1,68	2485	22800				
	74	18,81	1,86	2269	22700				
	79	17,80	1,95	2146	22600				
	87	16,01	2,00	1931	22450				
	97	14,48	2,10	1746	22250				
	107	13,14	2,30	1585	22050				
	117	11,96	2,60	1443	21950				
	128	10,92	2,80	1317	21900				
	140	9,993	2,80	1205	21800				
	153	9,159	2,90	1105	21650				
	181	7,724	2,50	932	21550				
197	7,102	2,60	857	21550					
214	6,533	2,70	788	21550					
67	20,80	0,97	2509	13150	İRKPM İRKFPM	93 / 180 M 4b	159 160	273 284	
75	18,67	1,01	2251	13150					
83	16,83	1,05	2029	13150	İRK İRKFM	93 / 180 M 4b	159 160	273 284	
94	14,96	1,09	1804	13150					
101	13,82	1,17	1667	13100					
111	12,57	1,31	1516	13050					
122	11,46	1,36	1382	13000					
134	10,46	1,43	1262	13000					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
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P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	i Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18,5 25	146	9,561	1,49	1153	12850	İRK İRKFM	93 / 180 M 4b	159 160	273 284
	152	9,190	1,49	1108	12700				
	167	8,377	1,60	1010	12650				
	183	7,647	1,66	922	12600				
	200	6,989	1,72	843	12600				
	226	6,202	1,72	748	12600				
22 30	8,2	171	0,87	23794	110000	İRK İRKFM	153 İR 102 / 180 L 4b	191 192	1117 1207
	9,2	153	0,97	21290	110000				
	11	130	1,10	18089	110000				
	12	116	1,25	16141	110000				
	13	104	1,40	14471	110000	İRK İRKFM	154 / 180 L 4b	187 188	967 1057
	8,1	173	0,85	24490	110000				
	9,0	156	0,95	22000	110000				
	10	137	1,09	19304	110000				
	11	122	1,22	17229	110000	İRK İRKFM	153 / 200 L 6c	185 186	950 1040
	9,1	99,25	0,82	22143	110000				
	10	88,54	0,92	19753	110000				
	11	127	1,01	18279	110000				
	14	99,25	1,30	14235	110000	İRK İRKFM	153 / 180 L 4b	185 186	911 1001
	16	88,54	1,46	12698	110000				
	18	79,54	1,63	11407	110000				
	20	69,79	1,86	10009	110000				
	23	59,68	2,20	8559	110000				
	26	53,61	2,40	7689	110000				
	30	47,04	2,70	6747	110000				
	33	41,99	3,00	6022	110000				
	17	81,92	1,10	11749	67350	İRK İRKFM	143 / 180 L 4b	177 178	727 777
	19	72,69	1,26	10425	67000				
	22	64,05	1,40	9186	66850				
	25	56,83	1,53	8151	66250				
	28	50,77	1,67	7281	65850				
	31	45,61	1,84	6541	65450				
	34	41,15	2,20	5902	64350				
	37	37,89	2,30	5434	63750				
	42	33,62	2,60	4822	62550				
	47	30,03	2,90	4307	61950				
	52	26,98	3,20	3869	60850				
	58	24,35	3,30	3492	60350				
	62	22,64	3,60	3247	58800	İRK İRKFM	123 / 180 L 4b	171 172	454 484
	69	20,43	4,30	2930	56500				
	25	55,58	0,95	7971	44000				
	28	49,40	1,05	7085	43500				
	32	44,14	1,19	6330	43000				
	35	39,60	1,30	5679	42600				
	41	33,90	1,43	4862	42100				
	46	30,13	1,64	4321	41600				
	52	26,92	1,84	3861	41000				
	58	24,15	1,98	3464	40400				
	64	21,74	2,20	3118	40100				
	67	20,83	2,20	2987	39700				
	76	18,51	2,50	2655	39500				
	85	16,54	2,80	2372	39000				
	94	14,84	3,20	2128	39000				
	105	13,36	3,50	1916	38300				
	116	12,06	3,60	1729	38100				
	128	10,90	3,70	1564	37700				
	142	9,876	3,70	1416	37300				
	156	8,953	3,70	1284	37000				
	172	8,120	3,80	1165	36400				



P ₁ GÜÇ Power Puissance [kW] Hp	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m]	İ Tahvil Ratio Rapport de réduction	S _f Servis Faktörü Service Factor Service facteur	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
22 30	42	33,53	0,84	4809	20900	İRK İRKFM	103 / 180 L 4b	165 166	349 369
	46	30,65	0,96	4396	20900				
	51	27,58	1,07	3956	20900				
	56	24,93	1,18	3576	20750				
	62	22,63	1,29	3246	20650				
	68	20,60	1,42	2955	20550				
	74	18,81	1,56	2698	20500				
	79	17,80	1,64	2552	20500				
	87	16,01	1,70	2297	19900				
	97	14,48	1,77	2076	19900				
	107	13,14	1,91	1884	19800				
	117	11,96	2,20	1716	19800				
	128	10,92	2,30	1566	19750				
	140	9,993	2,30	1433	19650				
	153	9,159	2,40	1314	19650				
	181	7,724	1,85	1108	19650				
	197	7,102	1,91	1019	19650				
	214	6,533	1,97	937	19650				
	83	16,83	0,89	2413	12800	İRK İRKFM	93 / 180 L 4b	159 160	289 300
	94	14,96	0,92	2145	12800				
	101	13,82	0,99	1982	12800				
	111	12,57	1,10	1803	12800				
	122	11,46	1,15	1644	12800				
	134	10,46	1,20	1500	13300				
	146	9,561	1,25	1371	13200				
	152	9,190	1,25	1318	13100				
167	8,377	1,35	1201	13050					
183	7,647	1,40	1097	13000					
200	6,989	1,45	1002	13000					
226	6,202	1,45	890	13000					
30 40	14	99,25	0,95	19411	110000	İRK İRKFM	153 / 200 L 4c	185 186	960 1050
	16	88,54	1,07	17316	110000				
	18	79,54	1,20	15556	110000				
	20	69,79	1,36	13649	110000				
	23	59,68	1,59	11672	110000				
	26	53,61	1,77	10485	110000				
	30	47,04	2,00	9200	110000				
	33	41,99	2,20	8211	110000				
	37	37,68	2,50	7369	110000				
	43	32,91	2,80	6437	110000				
	48	29,37	3,20	5745	110000				
	22	64,05	1,03	12526	64700	İRK İRKFM	143 / 200 L 4c	177 178	776 826
	25	56,83	1,12	11115	64100				
	28	50,77	1,22	9929	63700				
	31	45,61	1,35	8919	63300				
	34	41,15	1,60	8049	62200				
	37	37,89	1,72	7410	61600				
	42	33,62	1,91	6575	60400				
	47	30,03	2,10	5874	59800				
	52	26,98	2,30	5276	58700				
	58	24,35	2,50	4761	58200				
	62	22,64	2,70	4428	56650				
	69	20,43	3,10	3995	54350				
	76	18,50	3,70	3619	53500				
	32	44,14	0,87	8632	38100	İRK İRKFM	123 / 200 L 4c	171 172	503 533
	35	39,60	0,95	7744	37600				
41	33,90	1,05	6629	37000					



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
Helical Bevel Geared Motor Performance Tables / Motoréducteur à couple conique table des performances



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
30 40	46	30,13	1,20	5892	36400	İRK İRKFM	123 / 200 L 4c	171 172	503 533
	52	26,92	1,35	5264	36100				
	58	24,15	1,45	4723	35700				
	64	21,74	1,65	4252	35500				
	67	20,83	1,67	4074	35000				
	76	18,51	1,85	3621	35000				
	85	16,54	2,10	3235	34300				
	94	14,84	2,30	2902	34100				
	105	13,36	2,60	2613	33700				
	116	12,06	2,70	2358	33300				
	128	10,90	2,70	2133	33000				
	142	9,876	2,70	1931	32400				
	156	8,953	2,70	1751	32000				
	172	8,120	2,80	1588	31150				
	97	14,48	1,30	2832	17250	İRK İRKFM	103 / 200 L 4c	165 166	398 418
	107	13,14	1,40	2570	17200				
	117	11,96	1,65	2340	17200				
	128	10,92	1,75	2136	17100				
	140	9,993	1,75	1954	17000				
	153	9,159	1,78	1791	17000				
181	7,724	1,85	1511	17000					
197	7,102	1,91	1389	16900					
214	6,533	1,97	1278	16900					
37 50	16	88,54	0,87	21356	110000	İRK İRKFM	153 / 225 S 4a	185 186	1085 1175
	18	79,54	0,97	19185	110000				
	20	69,79	1,10	16834	110000				
	23	59,68	1,29	14395	110000				
	26	53,61	1,43	12932	110000				
	30	47,04	1,63	11347	110000				
	33	41,99	1,83	10127	110000				
	37	37,68	2,00	9089	110000				
	43	32,91	2,30	7938	110000				
	48	29,37	2,60	7085	110000				
	53	26,36	2,90	6359	110000				
	59	23,76	3,20	5732	110000				
	34	41,15	1,30	9927	58550	İRK İRKFM	143 / 225 S 4a	177 178	901 951
	37	37,89	1,40	9139	57950				
	42	33,62	1,55	8109	56750				
	47	30,03	1,69	7244	56150				
	52	26,98	1,87	6508	55050				
	58	24,35	1,98	5872	54550				
	62	22,64	2,10	5461	53000				
	69	20,43	2,60	4928	50700				
	76	18,50	3,00	4463	49850				
	83	16,81	3,50	4055	49400				
	91	15,32	3,80	3694	48750				
	100	13,98	3,70	3372	48000				
	106	13,16	3,80	3174	47150				
	117	11,92	3,80	2875	46600				
	129	10,83	3,80	2612	45650				
	142	9,864	3,80	2379	44880				
	156	9,003	3,90	2172	44000				
	170	8,231	3,90	1985	43250				
	186	7,534	3,90	1817	43250				
	203	6,902	3,90	1665	43250				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	İ Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
37 50	41	33,90	0,85	8176	34400	İRK İRKFM	123 / 225 S 4a	171 172	628 658
	46	30,13	0,97	7267	34100				
	52	26,92	1,09	6493	33700				
	58	24,15	1,18	5825	33500				
	64	21,74	1,34	5244	33000				
	67	20,83	1,35	5024	32300				
	76	18,51	1,50	4466	32100				
	85	16,54	1,70	3990	31700				
	94	14,84	1,90	3579	31300				
	105	13,36	2,10	3222	31000				
	116	12,06	2,20	2908	31000				
	128	10,90	2,20	2630	31000				
	142	9,876	2,20	2382	30400				
	156	8,953	2,20	2159	30000				
	172	8,120	2,30	1959	29150				
45 60	20	69,79	0,91	20473	110000	İRK İRKFM	153 / 225 M 4c	185 186	1115 1205
	23	59,68	1,06	17508	110000				
	26	53,61	1,18	15728	110000				
	30	47,04	1,34	13800	110000				
	33	41,99	1,50	12317	110000				
	37	37,68	1,67	11054	110000				
	43	32,91	1,91	9655	110000				
	48	29,37	2,10	8617	110000				
	53	26,36	2,40	7734	110000				
	59	23,76	2,60	6972	110000				
	65	21,50	2,90	6308	110000				
	72	19,51	3,20	5725	110000				
	42	33,62	1,27	9863	54630	İRK İRKFM	143 / 225 M 4c	177 178	931 981
	47	30,03	1,37	8811	54030				
	52	26,98	1,54	7915	52930				
	58	24,35	1,63	7142	52430				
	62	22,64	1,77	6642	50880				
	69	20,43	2,10	5993	48580				
	76	18,50	2,50	5429	47730				
	83	16,81	2,90	4932	47280				
	91	15,32	3,10	4493	46630				
	100	13,98	3,00	4101	45880				
	106	13,16	3,10	3860	45570				
	117	11,92	3,10	3496	45480				
	129	10,83	3,10	3177	44530				
	142	9,864	3,10	2894	43760				
	156	9,003	3,20	2641	42880				
	170	8,231	3,20	2415	42130				
	186	7,534	3,20	2210	42130				
	203	6,902	3,20	2025	42130				
	52	26,92	0,90	7897	32200	İRK İRKFM	123 / 225 M 4c	171 172	658 688
	58	24,15	0,97	7085	32000				
	64	21,74	1,10	6377	31500				
	67	20,83	1,11	6110	30800				
	76	18,51	1,23	5431	30600				
	85	16,54	1,40	4852	30200				
	94	14,84	1,56	4353	29800				
	105	13,36	1,73	3919	29500				
	116	12,06	1,77	3537	28900				
	128	10,90	1,81	3199	28500				
	142	9,876	1,81	2897	27650				
	156	8,953	1,81	2626	27200				
	172	8,120	1,85	2382	26700				



Konik Dişlili Motorlu Redüktörler Güç ve Devir Tablosu
Helical Bevel Geared Motor Performance Tables / Motorréducteur à couple conique table des performances



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
55 75	23	59,68	0,86	21398	110000	İRK İRKFM	153 / 250 M 4c	185 186	1180 1270
	26	53,61	0,96	19223	110000				
	30	47,04	1,10	16867	110000				
	33	41,99	1,23	15054	110000				
	37	37,68	1,37	13510	110000				
	43	32,91	1,56	11800	110000				
	48	29,37	1,75	10532	110000				
	53	26,36	1,95	9452	110000				
	59	23,76	2,10	8521	110000				
	65	21,50	2,40	7710	110000				
	72	19,51	2,60	6997	110000				
	79	17,75	2,90	6366	110000				
	95	14,77	3,40	5297	110000				
	58	24,35	1,34	8729	51510	İRK İRKFM	143 / 250 M 4c	177 178	996 1046
	69	20,43	1,72	7325	47660				
	76	18,50	2,00	6635	46810				
	83	16,81	2,40	6028	46360				
	91	15,32	2,60	5491	45710				
	100	13,98	2,50	5012	44960				
	106	13,16	2,60	4718	44650				
	117	11,92	2,60	4273	44560				
	129	10,83	2,60	3882	43610				
	142	9,864	2,60	3537	42840				
	156	9,003	2,60	3228	41960				
170	8,231	2,60	2951	41210					
186	7,534	2,60	2701	41210					
203	6,902	2,60	2475	41210					
75 100	33	41,99	0,90	20528	110000	İRK İRKFM	153 / 280 S 4	185 186	1340 1430
	37	37,68	1,00	18423	110000				
	43	32,91	1,15	16091	110000				
	48	29,37	1,28	14362	110000				
	53	26,36	1,43	12889	110000				
	59	23,76	1,59	11619	110000				
	65	21,50	1,75	10513	110000				
	72	19,51	1,93	9541	110000				
	79	17,75	2,10	8680	110000				
	95	14,77	2,50	7224	110000				
	113	12,35	3,00	6038	110000				
	69	20,43	1,26	9989	47660				
	76	18,50	1,48	9048	46810				
	83	16,81	1,74	8221	46360				
	91	15,32	1,88	7488	45710				
	100	13,98	1,82	6835	44960				
	106	13,16	1,88	6433	44650				
	117	11,92	1,88	5827	44560				
	129	10,83	1,88	5294	43610				
	142	9,864	1,88	4823	42840				
	156	9,003	1,92	4402	41960				
	170	8,231	1,92	4024	41210				
	186	7,534	1,92	3683	41210				
	203	6,902	1,92	3374	41210				
90 120	37	37,68	0,83	22108	110000	İRK İRKFM	153 / 280 M 4	185 186	1400 1490
	43	32,91	0,95	19310	110000				
	48	29,37	1,07	17235	110000				
	53	26,36	1,19	15467	110000				
	59	23,76	1,32	13943	110000				



P ₁ GÜÇ Power <i>Puissance</i> [kW] Hp	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m]	i Tahvil Ratio <i>Rapport de réduction</i>	S _f Servis Faktörü Service Factor <i>Service facteur</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
90 120	65	21,50	1,46	12616	110000	İRK İRKFM	153 / 280 M 4	185 186	1400 1490
	72	19,51	1,61	11450	110000				
	79	17,75	1,77	10417	110000				
	95	14,77	2,10	8668	110000				
	113	12,35	2,50	7245	110000				
	83	16,81	1,45	9865	43870	İRK İRKFM	143 / 280 M 4	177 178	1216 1266
	91	15,32	1,56	8986	43220				
	100	13,98	1,52	8202	42470				
	106	13,16	1,56	7720	42160				
	117	11,92	1,56	6992	42070				
	129	10,83	1,56	6353	41120				
	142	9,864	1,56	5787	40350				
	156	9,003	1,60	5282	39470				
	170	8,231	1,60	4829	38720				
	186	7,534	1,60	4420	37770				
	203	6,902	1,60	4049	37770				
110 150	59	23,76	1,08	17042	110000	İRK İRKFM	153 / 315 S 4	185 186	1596 1686
	65	21,50	1,20	15419	110000				
	72	19,51	1,31	13994	110000				
	79	17,75	1,44	12731	110000				
	95	14,77	1,73	10595	110000				
	113	12,35	2,00	8855	110000				
132 180	59	23,76	0,90	20450	110000	İRK İRKFM	153 / 315 M 4a	185 186	1617 1707
	65	21,50	0,99	18503	110000				
	72	19,51	1,09	16793	110000				
	79	17,75	1,20	15278	110000				
	95	14,77	1,44	12714	110000				
160 220	113	12,35	1,72	10627	110000	İRK İRKFM	153 / 315 M 4b	185 186	1665 1755
	72	19,51	0,90	20355	110000				
	79	17,75	0,99	18518	110000				
	95	14,77	1,19	15410	110000				
185 250	113	12,35	1,42	12881	110000	İRK İRKFM	153 / 315 L 4a	185 186	1750 1840
	79	17,75	0,85	21412	110000				
	95	14,77	1,02	17818	110000				
200 270	113	12,35	1,22	14893	110000	İRK İRKFM	153 / 315 L 4b	185 186	1835 1925
	95	14,77	0,95	19263	110000				
	113	12,35	1,14	16101	110000				

İRK Serisi Redüktörler Güç ve Devir Tabloları

IRK Series Power Ratings and Output Speed
IRK Series puissances et vitesses de sorties



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
160 Nm	0,32	18	77,20	160	390	4500	İRK İRK F	43	139 140	17 18
	0,37	21	66,47	160	390	4500				
	0,42	24	57,78	160	390	4500				
	0,49	28	50,60	160	390	4500				
	0,56	32	43,56	160	390	4500				
	0,64	37	38,14	160	390	4500				
	0,73	42	33,60	160	390	4500				
	0,76	43	32,18	160	390	4500				
	0,82	47	29,92	160	390	4500				
	0,86	49	28,66	160	390	4500				
	0,97	55	25,25	160	390	4500				
	1,1	63	22,34	160	390	4500				
	1,2	71	19,83	160	390	4500				
	1,4	79	17,65	160	390	4500				
	1,6	89	15,73	160	390	4500				
	1,7	98	14,25	160	390	4500				
	2,0	114	12,27	160	390	4500	İRK İRK F	42	139 140	16 17
	2,3	131	10,67	160	390	4500				
	2,6	150	9,342	160	390	4500				
	2,9	170	8,229	160	390	4500				
	3,3	192	7,280	160	390	4500				
	3,7	217	6,463	160	390	4500				
	4,2	243	5,751	160	390	4500				
	4,4	257	5,453	160	390	4500				
	5,0	289	4,853	160	390	4500				
	5,6	324	4,325	160	390	4500				
200 Nm	0,40	18	77,20	200	390	4500	İRK İRK F	53	141 142	19 20
	0,46	21	66,47	200	390	4500				
	0,53	24	57,78	200	390	4500				
	0,61	28	50,60	200	390	4500				
	0,70	32	43,56	200	390	4500				
	0,80	37	38,14	200	390	4500				
	0,91	42	33,60	200	390	4500				
	0,95	43	32,18	200	390	4500				
	1,0	47	29,92	200	390	4500				
	1,1	49	28,66	200	390	4500				
	1,2	55	25,25	200	390	4500				
	1,4	63	22,34	200	390	4500				
	1,5	71	19,83	200	390	4500				
	1,7	79	17,65	200	390	4500				
	2,0	89	15,73	200	390	4500				
	2,1	98	14,25	200	390	4500				
	2,5	114	12,27	200	390	4500				
	2,8	131	10,67	200	390	4500				
	3,2	150	9,342	200	390	4500				
	3,7	170	8,229	200	390	4500				
	4,2	192	7,280	200	390	4500				
	4,7	217	6,463	200	390	4500				
	5,3	243	5,751	200	390	4500				
	5,5	257	5,453	200	390	4500				
	6,2	289	4,853	200	390	4500				
	7,0	324	4,325	200	390	4500				
400 Nm	0,01	0,14	9714	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,01	0,16	8753	400	475	7000				
	0,01	0,18	7591	400	475	7000				
	0,01	0,20	6899	400	475	7000				
	0,01	0,24	5810	400	475	7000				
	0,01	0,28	5039	400	475	7000				



Konik Dişli Redüktörler Güç ve Devir Tablosu
Helical Bevel Gear Units Performance Tables / Réducteurs à couple conique table des performances



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	0,01	0,32	4414	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,02	0,36	3898	400	475	7000				
	0,02	0,41	3415	400	475	7000				
	0,02	0,51	2769	400	475	7000				
	0,03	0,57	2445	400	475	7000				
	0,03	0,64	2173	400	475	7000				
	0,03	0,75	1868	400	475	7000				
	0,04	0,84	1669	400	475	7000				
	0,04	0,94	1497	400	475	7000				
	0,05	1,0	1348	400	475	7000				
	0,05	1,2	1216	400	475	7000				
	0,06	1,3	1100	400	475	7000				
	0,07	1,6	868	400	475	7000	İRK İRK F	63 İR 52	145 146	42 45
	0,08	1,8	771	400	475	7000				
	0,10	2,1	663	400	475	7000				
	0,11	2,4	592	400	475	7000				
	0,12	2,6	531	400	475	7000				
	0,13	2,9	478	400	475	7000				
	0,15	3,2	432	400	475	7000				
	0,17	3,7	378	400	475	7000				
	0,18	4,1	342	400	475	7000				
	0,19	4,3	325	400	475	7000				
	0,22	4,9	288	400	475	7000				
	0,25	5,5	253	400	475	7000				
	0,28	6,2	226	400	475	7000				
	0,31	6,9	203	400	475	7000				
	0,35	7,7	183	400	475	7000				
	0,39	8,7	161	400	475	7000				
	0,43	9,6	146	400	475	7000				
	0,45	10	139	400	475	7000				
	0,51	11	125	400	475	7000				
	0,56	12	113	400	475	7000				
	0,59	13	108	400	475	7000				
	0,67	15	95,00	400	475	7000	İRK İRK F	63	143 144	28 30
	0,46	11	133	400	590	7000				
	0,51	12	121	400	590	7000				
	0,53	12	115	400	590	7000				
	0,58	13	105	400	590	7000				
	0,67	15	91,93	400	590	7000				
	0,74	17	82,84	400	590	7000				
	0,85	19	71,84	400	590	7000				
	0,94	21	65,30	400	590	7000				
	1,1	24	57,20	400	590	7000				
	1,2	28	50,52	400	590	7000				
	1,4	31	44,90	400	590	7000				
	1,6	36	38,58	400	590	7000				
	1,8	41	34,47	400	590	7000				
	2,0	45	30,93	400	590	7000				
2,2	50	27,84	400	590	7000					
2,4	56	25,13	400	590	7000					
2,7	62	22,73	400	590	7000					
2,8	65	21,59	400	590	7000					
3,2	73	19,11	400	590	7000					
3,6	83	16,84	400	590	7000					
4,1	93	15,04	400	590	7000					
4,5	104	13,50	400	590	7000					
5,1	115	12,15	400	590	7000					
5,6	128	10,97	400	590	7000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	5,9	134	10,44	400	590	7000	İRK İRK F	63	143 144	28 30
	6,5	149	9,423	400	590	7000				
	7,2	164	8,522	400	590	7000				
	7,6	173	8,097	400	590	7000				
	8,6	195	7,165	400	590	7000				
	9,2	210	6,682	400	590	7000				
	10	232	6,043	400	590	7000				
	11	244	5,741	400	590	7000				
	12	276	5,081	400	590	7000				
780 Nm	0,01	0,11	12336	780	475	12100	İRK İRK F	73 İR 53	151 152	52 56
	0,01	0,13	11126	780	475	12100				
	0,01	0,15	9648	780	475	12100				
	0,02	0,17	8183	780	475	12100				
	0,02	0,20	7096	780	475	12100				
	0,02	0,23	6217	780	475	12100				
	0,02	0,24	5735	780	475	12100				
	0,03	0,29	4892	780	475	12100				
	0,03	0,31	4460	780	475	12100				
	0,04	0,40	3475	780	475	12100				
	0,04	0,50	2808	780	475	12100				
	0,05	0,55	2544	780	475	12100				
	0,05	0,61	2314	780	475	12100				
	0,06	0,72	1932	780	475	12100				
	0,07	0,79	1762	780	475	12100				
	0,08	0,90	1556	780	475	12100				
	0,09	1,0	1368	780	475	12100				
	0,11	1,3	1089	780	475	12100				
	0,14	1,6	880	780	475	12100				
	0,15	1,8	797	780	475	12100				
	0,18	2,0	697	780	475	12100				
	0,19	2,2	634	780	475	12100				
	0,23	2,6	529	780	475	12100				
	0,25	2,9	484	780	475	12100				
	0,29	3,3	426	780	475	12100				
	0,32	3,7	380	780	475	12100				
	0,37	4,2	335	780	475	12100				
	0,42	4,7	295	780	475	12100				
	0,47	5,4	260	780	475	12100				
	0,56	6,3	222	780	475	12100				
	0,63	7,1	196	780	475	12100				
	0,71	8,1	173	780	475	12100				
	0,79	9,0	156	780	475	12100				
	0,89	10	138	780	475	12100				
	1,0	11	122	780	475	12100				
	0,31	3,6	388	780	475	12100				
	0,40	4,6	305	780	475	12100				
	0,49	5,7	246	780	475	12100				
	0,58	6,7	210	780	475	12100				
	0,64	7,3	191	780	475	12100				
	0,75	8,6	163	780	475	12100				
	0,92	11	131	780	475	12100				
	1,0	12	119	780	475	12100				
	0,83	9,7	144	780	590	12100				
	0,89	10	134	780	590	12100				
	0,96	11	125	780	590	12100				
	1,0	12	117	780	590	12100				
	1,3	15	91,96	780	590	12100				
	1,6	19	74,32	780	590	12100				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg				
780 Nm	1,9	22	63,40	780	590	11000	İRK İRK F	73	147 148	38 42				
	2,3	27	51,24	780	590	11000								
	2,6	30	46,41	780	590	11000								
	2,8	33	42,21	780	590	11000								
	3,4	40	35,25	780	590	10500								
	3,7	44	32,15	780	590	10500								
	4,2	49	28,39	780	590	10500								
	4,8	56	24,95	780	590	10500								
	5,4	64	22,02	780	590	10500								
	6,1	72	19,51	780	590	10500								
	6,8	80	17,59	780	590	10500								
	7,7	90	15,53	780	590	10500								
	8,7	102	13,75	780	590	10000								
	9,8	115	12,21	780	590	10000								
	10	119	11,75	780	590	10000								
	11	129	10,85	780	590	10000								
	12	135	10,38	780	590	10000								
	13	152	9,190	780	590	10000								
	15	172	8,156	780	590	10000								
	17	193	7,247	780	590	10000								
	18	205	6,833	780	590	10000								
	18	215	6,525	780	590	10000								
21	241	5,798	780	590	10000									
22	256	5,467	780	590	10000									
1500 Nm	0,01	0,08	17533	1500	475	19180	İRK İRK F	83 İR 53	157 158	84 90				
	0,02	0,09	15157	1500	475	19180								
	0,02	0,12	11888	1500	475	19180								
	0,02	0,14	9908	1500	475	19180								
	0,03	0,16	8812	1500	475	19180								
	0,03	0,19	7420	1500	475	19180								
	0,04	0,22	6435	1500	475	19180								
	0,04	0,24	5762	1500	475	19180								
	0,05	0,30	4677	1500	475	19180								
	0,06	0,34	4097	1500	475	19180								
	0,07	0,39	3599	1500	475	19180								
	0,08	0,44	3199	1500	475	19180								
	0,08	0,48	2919	1500	475	19180								
	0,09	0,54	2577	1500	475	19180								
	0,11	0,61	2291	1500	475	19180								
	0,12	0,68	2047	1500	475	19180								
	0,13	0,75	1860	1500	475	19180								
	0,14	0,84	1669	1500	475	19180								
	0,16	0,93	1502	1500	475	19180								
	0,17	1,0	1378	1500	475	19180								
	0,20	1,1	1226	1500	475	19180								
	0,23	1,3	1041	1500	450	19180	İRK İRK F	83 İR 52	157 158	83 89				
	0,26	1,5	915	1500	450	19180								
	0,30	1,7	801	1500	450	19180								
	0,33	2,0	712	1500	450	19180								
	0,38	2,2	629	1500	450	19180								
	0,42	2,5	562	1500	450	19180								
	0,52	3,1	454	1500	450	19180								
	0,57	3,4	416	1500	450	19180								
	0,64	3,8	370	1500	450	19180								
	0,72	4,3	329	1500	450	19180								
	0,81	4,8	294	1500	450	19180								
	0,90	5,3	264	1500	450	19180								
	1,0	6,1	228	1500	450	19180								



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1500 Nm	0,38	2,3	619	1500	590	19180	İRK İRK F	84	155 156	74 80
	0,43	2,6	546	1500	590	19180				
	0,48	2,9	486	1500	590	19180				
	0,51	3,1	459	1500	590	19180				
	0,58	3,5	405	1500	590	19180				
	0,65	3,9	360	1500	590	19180				
	0,72	4,3	322	1500	590	19180				
	0,89	5,4	261	1500	590	19180				
	0,97	5,9	236	1500	2150	19180	İRK İRK F	83	153 154	70 76
	1,1	6,9	204	1500	2150	19180				
	1,3	7,8	180	1500	2150	19180				
	1,4	8,4	166	1500	2150	19180				
	1,6	9,8	143	1500	2150	19180				
	1,8	11	127	1500	2150	19180				
	2,0	12	113	1500	2150	19180				
	2,2	13	106	1500	2150	19180				
	2,5	15	93,77	1500	2150	19180				
	2,8	17	83,39	1500	2150	19180				
	3,1	19	74,67	1500	2150	19180				
	3,8	23	60,61	1500	2150	19180				
	4,3	26	53,24	1500	2150	19180				
	4,9	30	47,32	1500	2150	19180				
	5,4	33	42,28	1500	2150	19180				
	6,1	37	37,93	1500	2150	19180				
	6,7	41	34,15	1500	2150	19180				
	7,3	45	31,34	1500	2150	19180				
	8,3	50	27,86	1500	2150	19180				
	9,2	56	24,89	1500	2150	19180				
	10	63	22,33	1500	2150	19180				
	12	72	19,33	1500	2150	19180				
	13	81	17,27	1500	2150	19180				
	15	90	15,50	1500	2150	19180				
	16	100	13,95	1500	2150	19180				
	18	111	12,59	1500	2150	19180				
	20	123	11,39	1500	2150	19180				
	22	136	10,31	1500	2150	19180				
	25	150	9,350	1500	2150	19180				
	28	168	8,312	1500	2150	19180				
	31	186	7,528	1500	2150	19180				
	34	205	6,824	1500	2150	19180				
	37	226	6,189	1500	2150	19180				
	50	304	4,609	1500	2150	19180				
2700 Nm	0,03	0,10	14401	2700	590	24500	İRK İRK F	93 İR 63	163 164	149 160
	0,03	0,11	13063	2700	590	24500				
	0,04	0,12	11908	2700	590	24500				
	0,04	0,14	9885	2700	590	24500				
	0,05	0,16	8813	2700	590	24500				
	0,05	0,18	7913	2700	590	24500				
	0,06	0,20	7146	2700	590	24500				
	0,08	0,25	5699	2700	590	24500				
	0,08	0,27	5137	2700	590	24500				
	0,10	0,33	4218	2700	590	24500				
	0,11	0,35	3962	2700	590	24500				
	0,12	0,40	3484	2700	590	24500				
	0,14	0,44	3206	2700	590	24500				
	0,16	0,53	2632	2700	590	24500				
	0,19	0,60	2338	2700	590	24500				
	0,22	0,70	2002	2700	590	24500				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg		
2700 Nm	0,24	0,78	1797	2700	590	24500	İRK İRK F	93 İR 63	163	149		
	0,27	0,86	1620	2700	590	24500			164	160		
	0,30	0,95	1466	2700	590	24500						
	0,36	1,2	1210	2700	590	24500						
	0,38	1,3	1116	2700	550	24500						
	0,43	1,4	995	2700	550	24500	İRK İRK F	93 İR 62				
	0,48	1,6	893	2700	550	24500						
	0,66	2,2	643	2700	550	24500						
	0,74	2,4	580	2700	550	24500						
	0,81	2,7	525	2700	550	24500						
	0,90	2,9	476	2700	550	24500						
	0,95	3,1	447	2700	550	24500			163	144		
	1,2	3,9	362	2700	550	24500			164	155		
	1,3	4,3	327	2700	550	24500						
	1,5	5,0	280	2700	550	24500						
	1,7	5,6	252	2700	550	24500						
	1,9	6,2	227	2700	550	24500						
	2,1	6,8	205	2700	550	24500						
	2,3	7,5	186	2700	550	24500						
	0,84	2,8	502	2700	1200	24500	İRK İRK F	94				
	0,92	3,1	455	2700	1200	24500						
	1,0	3,4	415	2700	1200	24500						
	1,2	4,1	344	2700	1200	24500						
	1,4	4,6	304	2700	1200	24500			161	125		
	1,6	5,2	271	2700	1200	24500			162	136		
	1,7	5,8	243	2700	1200	24500						
	1,9	6,4	219	2700	1200	24500						
	2,2	7,2	195	2700	1200	24500						
	2,3	7,8	179	2700	2600	24500	İRK İRK F	93				
	2,6	8,8	158	2700	2600	24500						
	2,8	9,4	149	2700	2600	24500						
	3,1	10	134	2700	2600	24500						
	3,4	12	121	2700	2600	24500						
	3,8	13	109	2700	2600	24500						
	4,2	14	99,73	2700	2600	24500						
	5,0	17	82,79	2700	2600	24500						
	5,6	19	73,81	2700	2600	24500						
	6,2	21	66,27	2700	2600	24500						
	6,9	23	59,85	2700	2600	24500						
	7,8	26	53,18	2700	2600	24500						
	8,7	29	47,73	2700	2600	24500						
	9,6	33	43,03	2700	2600	24500						
	11	37	38,24	2700	2600	24500			İRK İRK F		159	125
	12	40	35,33	2700	2600	24500					160	136
	12	42	33,19	2700	2600	24500						
	14	47	29,78	2700	2600	24500						
	15	52	26,85	2700	2600	24500						
	17	59	23,86	2700	2600	24500						
	19	64	22,05	2700	2600	24500						
	20	67	20,80	2700	2600	24500						
	22	75	18,67	2700	2600	24500						
	25	83	16,83	2700	2600	24500						
	28	94	14,96	2700	2600	24500						
	30	101	13,82	2700	2600	24500						
	33	111	12,57	2700	2600	24500						
	36	122	11,46	2700	2600	24500						
	40	134	10,46	2700	2600	24500						
	43	146	9,561	2700	2600	24500						



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2700 Nm	45	152	9,190	2700	2600	24500	İRK İRK F	93	159 160	125 136
	49	167	8,377	2700	2600	24500				
	54	183	7,647	2700	2600	24500				
	59	200	6,989	2700	2600	24500				
	67	226	6,202	2700	2600	24500				
4300 Nm	0,04	0,08	18013	4300	590	37000	İRK İRK F	103 İR 63	169 170	209 229
	0,04	0,09	15999	4300	590	37000				
	0,05	0,10	14335	4300	590	37000				
	0,05	0,11	12937	4300	590	37000				
	0,06	0,12	11746	4300	590	37000				
	0,08	0,15	9169	4300	590	37000				
	0,09	0,18	7738	4300	590	37000				
	0,10	0,21	6820	4300	590	37000				
	0,13	0,26	5423	4300	590	37000				
	0,16	0,32	4412	4300	590	37000				
	0,17	0,35	4004	4300	590	37000				
	0,20	0,40	3486	4300	590	37000				
	0,25	0,51	2772	4300	590	37000				
	0,31	0,62	2255	4300	590	37000				
	0,34	0,68	2047	4300	590	37000				
	0,35	0,70	1993	4300	590	37000				
	0,44	0,89	1572	4300	590	37000				
	0,48	0,98	1427	4300	590	37000				
	0,53	1,1	1304	4300	590	37000				
	0,59	1,2	1174	4300	590	37000				
	0,65	1,3	1061	4300	590	37000				
	0,79	1,6	877	4300	590	37000				
	0,91	1,8	757	4300	590	37000				
	1,1	2,3	616	4300	590	37000				
	1,2	2,5	559	4300	590	37000				
	1,4	2,8	509	4300	590	37000				
	1,6	3,2	432	4300	590	37000				
	1,8	3,6	392	4300	590	37000				
	1,9	3,9	357	4300	590	37000				
	2,2	4,5	314	4300	550	37000				
	2,4	4,9	285	4300	550	37000				
	2,6	5,4	261	4300	550	37000				
	2,9	6,0	235	4300	550	37000				
	3,2	6,6	212	4300	550	37000				
	3,9	8,0	175	4300	550	37000				
	1,1	2,3	612	4300	1550	37000				
	1,2	2,6	544	4300	1550	37000				
	1,4	2,9	490	4300	1550	37000				
	1,5	3,2	439	4300	1550	37000				
	1,7	3,5	396	4300	1550	37000				
1,9	3,9	360	4300	1550	37000					
2,2	4,7	301	4300	1550	37000					
2,6	5,5	254	4300	1550	37000					
3,0	6,3	224	4300	1550	37000					
3,8	7,9	178	4300	1550	37000					
4,2	8,7	160	4300	1550	37000					
3,8	8,1	172	4300	3150	37000					
4,1	8,7	160	4300	3150	37000					
4,7	9,9	141	4300	3150	37000					
5,3	11	125	4300	3150	37000					
5,9	12	112	4300	3150	37000					
6,5	14	101	4300	3150	37000					
7,2	15	91.80	4300	3150	37000					



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
4300 Nm	8,6	18	76,79	4300	3150	37000	İRK İRK F	103	165 166	189 209
	10	22	64,81	4300	3150	37000				
	12	25	57,11	4300	3150	37000				
	15	31	45,42	4300	3150	37000				
	16	34	40,87	4300	3150	37000				
	18	38	36,95	4300	3150	37000				
	20	42	33,53	4300	3150	37000				
	22	46	30,65	4300	3150	37000				
	24	51	27,58	4300	3150	37000				
	26	56	24,93	4300	3150	37000				
	29	62	22,63	4300	3150	37000				
	32	68	20,60	4300	3150	37000				
	35	74	18,81	4300	3150	37000				
	37	79	17,80	4300	3150	37000				
	41	87	16,01	4300	3150	37000				
	46	97	14,48	4300	3150	37000				
	50	107	13,14	4300	3150	37000				
	55	117	11,96	4300	3150	37000				
	60	128	10,92	4300	3150	37000				
	66	140	9,993	4300	3150	37000				
	72	153	9,159	4300	3150	37000				
	85	181	7,724	4300	3150	37000				
	93	197	7,102	4300	3150	37000				
	101	214	6,533	4300	3150	37000				
8000 Nm	0,08	0,09	15860	8000	1200	60800	İRK İRK F	123 İR 73	175 176	321 351
	0,09	0,10	14323	8000	1200	60800				
	0,10	0,11	13014	8000	1200	60800				
	0,11	0,12	11886	8000	1200	60800				
	0,12	0,13	10903	8000	1200	60800				
	0,13	0,14	9721	8000	1200	60800				
	0,15	0,16	8585	8000	1200	60800				
	0,17	0,18	7630	8000	1200	60800				
	0,19	0,21	6596	8000	1200	60800				
	0,22	0,24	5893	8000	1200	60800				
	0,24	0,26	5288	8000	1200	60800				
	0,28	0,31	4526	8000	1200	60800				
	0,32	0,35	4023	8000	1200	60800				
	0,36	0,39	3594	8000	1200	60800				
	0,40	0,43	3225	8000	1200	60800				
	0,44	0,48	2903	8000	1200	60800				
	0,46	0,50	2781	8000	1200	60800				
	0,52	0,57	2472	8000	1200	60800				
	0,58	0,63	2208	8000	1200	60800				
	0,65	0,71	1982	8000	1200	60800				
	0,72	0,78	1784	8000	1200	60800				
	0,80	0,87	1610	8000	1200	60800				
	0,88	0,96	1456	8000	1200	60800				
	0,97	1,1	1319	8000	1200	60800				
	1,1	1,2	1195	8000	1200	60800				
	1,2	1,3	1084	8000	1200	60800				
	0,64	0,71	1983	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	0,73	0,80	1743	8000	1200	60800				
	0,82	0,90	1549	8000	1200	60800				
	0,91	1,0	1389	8000	1200	60800				
	1,0	1,1	1255	8000	1200	60800				
	1,1	1,2	1140	8000	1200	60800				
	1,2	1,3	1041	8000	1200	60800				
	1,5	1,6	852	8000	1200	60800				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
8000 Nm	1,7	1,9	752	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	1,9	2,1	668	8000	1200	60800				
	2,1	2,3	597	8000	1200	60800				
	2,4	2,6	536	8000	1200	60800				
	2,8	3,1	458	8000	1200	60800				
	3,1	3,4	408	8000	1200	60800				
	3,5	3,8	364	8000	1200	60800				
	3,9	4,3	327	8000	1200	60800				
	4,3	4,8	294	8000	1200	60800				
	4,5	5,0	282	8000	1200	60800				
	5,1	5,6	250	8000	1200	60800				
	5,5	6,1	228	8000	1200	60800				
	6,3	7,0	201	8000	1200	60800				
	7,0	7,7	181	8000	1200	60800				
	7,8	8,6	163	8000	1200	60800				
	8,5	9,5	148	8000	1200	60800				
	9,4	10	134	8000	1200	60800				
	10	12	121	8000	1200	60800				
	2,8	3,1	446	8000	1550	60000	İRK İRK F	124	173 174	302 332
	3,1	3,5	403	8000	1550	60000				
	3,4	3,8	366	8000	1550	60000				
	3,8	4,2	330	8000	1550	55000				
	4,1	4,6	302	8000	1550	55000				
	4,6	5,1	273	8000	1550	55000				
	5,0	5,6	249	8000	1550	55000				
	5,4	6,1	229	8000	1550	50000				
	6,1	6,9	204	8000	1550	50000				
	6,9	7,8	180	8000	1550	50000				
	7,8	8,7	160	8000	1550	50000	İRK İRK F	123	171 172	310 340
	8,7	9,8	143	8000	1550	50000				
	8,4	9,6	147	8000	3750	60000				
	9,5	11	129	8000	3750	60000				
	11	12	115	8000	3750	60000				
	12	14	103	8000	3750	55000				
	13	15	92,73	8000	3750	55000				
	15	17	84,26	8000	3750	55000				
	16	18	76,95	8000	3750	55000				
	17	20	70,59	8000	3750	50000				
	19	22	62,94	8000	3750	50000				
	22	25	55,58	8000	3750	50000				
	25	28	49,40	8000	3750	50000				
	28	32	44,14	8000	3750	50000				
	31	35	39,60	8000	3750	45000				
	36	41	33,90	8000	3750	45000				
	41	46	30,13	8000	3750	40000				
	46	52	26,92	8000	3750	40000				
	51	58	24,15	8000	3750	40000				
	56	64	21,74	8000	3750	40000				
	59	67	20,83	8000	3750	40000				
	66	76	18,51	8000	3750	40000				
	74	85	16,54	8000	3750	35000				
	83	94	14,84	8000	3750	35000				
	92	105	13,36	8000	3750	35000				
	102	116	12,06	8000	3750	35000				
	113	128	10,90	8000	3750	25000				
	124	142	9,876	8000	3750	25000				
	137	156	8,953	8000	3750	25000				
	151	172	8,120	8000	3750	25000				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
13000 Nm	0,10	0,07	21208	13000	1200	75000	İRK İRK F	143 İR 73	181 182	594 644
	0,11	0,08	18335	13000	1200	75000				
	0,14	0,09	14883	13000	1200	75000				
	0,17	0,11	12431	13000	1200	75000				
	0,19	0,13	10939	13000	1200	75000				
	0,21	0,14	9706	13000	1200	75000				
	0,24	0,16	8552	13000	1200	75000				
	0,27	0,18	7589	13000	1200	75000				
	0,31	0,21	6779	13000	1200	75000				
	0,34	0,23	6090	13000	1200	75000				
	0,38	0,25	5495	13000	1200	75000				
	0,41	0,28	5059	13000	1200	75000				
	0,46	0,31	4489	13000	1200	75000				
	0,52	0,35	4010	13000	1200	75000				
	0,58	0,39	3602	13000	1200	75000				
	0,64	0,43	3251	13000	1200	75000				
	0,76	0,51	2728	13000	1200	75000				
	0,93	0,62	2245	13000	1200	75000				
	1,1	0,75	1866	13000	1200	75000				
	1,2	0,80	1757	13000	1200	75000				
	1,4	0,97	1446	13000	1200	75000				
	1,6	1,1	1259	13000	1200	75000				
	1,9	1,3	1108	13000	1200	75000				
	2,1	1,4	983	13000	1200	75000				
	2,4	1,6	866	13000	1200	75000				
	2,7	1,8	769	13000	1200	75000				
	3,0	2,0	686	13000	1200	75000				
	3,4	2,3	598	13000	1200	75000				
	3,9	2,6	530	13000	1200	75000				
	4,3	3,0	474	13000	1200	75000				
	5,4	3,6	384	13000	1200	71000				
	5,8	4,0	353	13000	1200	71000				
	6,5	4,5	314	13000	1200	71000				
	7,3	4,9	283	13000	1200	71000				
	8,2	5,6	250	13000	1200	71000				
	9,1	6,2	225	13000	1200	71000				
	10	6,9	203	13000	1200	71000				
	12	8,2	170	13000	1200	71000				
	14	9,3	151	13000	1200	71000				
	15	10	135	13000	1200	71000				
	3,6	2,5	564	13000	1550	75000				
	4,1	2,8	501	13000	1550	75000				
	4,6	3,1	447	13000	1550	75000				
	5,1	3,5	402	13000	1550	75000				
	5,7	3,9	363	13000	1550	71000				
	6,4	4,4	320	13000	1550	71000				
	7,9	5,4	261	13000	1550	71000				
	9,4	6,4	219	13000	1550	71000				
	11	7,7	181	13000	1550	71000				
	13	8,5	164	13000	1550	71000				
	15	10	137	13000	1550	71000				
	2,8	1,9	726	13000	3750	65000				
	3,1	2,1	652	13000	3750	65000				
	3,4	2,4	589	13000	3750	65000				
	4,1	2,8	492	13000	3750	65000				
	4,7	3,2	433	13000	3750	65000				
	5,3	3,6	384	13000	3750	65000				
	6,0	4,1	339	13000	3750	61500				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
13000 Nm	6,7	4,7	300	13000	3750	61500	İRK İRK F	144	179 180	615 665
	7,5	5,2	268	13000	3750	61500				
	8,4	5,8	241	13000	3750	55000				
	9,4	6,5	216	13000	3750	55000				
	9,9	6,9	204	13000	3750	55000				
	11	7,8	180	13000	3750	55000				
	13	8,8	159	13000	3750	50000				
	13	9,1	154	13000	3750	65000	İRK İRK F	143	177 178	607 657
	15	10	137	13000	3750	65000				
	16	11	123	13000	3750	65000				
	18	13	111	13000	3750	65000				
	21	15	93,10	13000	3750	65000				
	24	17	81,92	13000	3750	65000				
	27	19	72,69	13000	3750	61500				
	31	22	64,05	13000	3750	61500				
	35	25	56,83	13000	3750	61500				
	39	28	50,77	13000	3750	55000				
	44	31	45,61	13000	3750	55000				
	48	34	41,15	13000	3750	55000				
	53	37	37,89	13000	3750	55000				
	59	42	33,62	13000	3750	50000				
	66	47	30,03	13000	3750	50000				
	74	52	26,98	13000	3750	50000				
	82	58	24,35	13000	3750	45000				
	88	62	22,64	13000	3750	45000				
	98	69	20,43	13000	3750	45000				
	108	76	18,50	13000	3750	38500				
	119	83	16,81	13000	3750	38500				
	130	91	15,32	13000	3750	38500				
	143	100	13,98	13000	3750	38500				
	152	106	13,16	13000	3750	38500				
	167	117	11,92	13000	3750	36000				
	184	129	10,83	13000	3750	36000				
	202	142	9,864	13000	3750	36000				
	221	156	9,003	13000	3750	36000				
	242	170	8,231	13000	3750	36000				
	265	186	7,534	13000	3750	36000				
	289	203	6,902	13000	3750	36000				
18000 Nm	0,15	0,07	18995	18000	2500	110000	İRK İRK F	153 İR 93	189 190	885 975
	0,16	0,08	16945	18000	2500	110000				
	0,18	0,09	15222	18000	2500	110000				
	0,21	0,10	13356	18000	2500	110000				
	0,24	0,12	11442	18000	2500	110000				
	0,27	0,14	10326	18000	2500	110000				
	0,29	0,15	9376	18000	2500	110000				
	0,35	0,18	7843	18000	2500	110000				
	0,43	0,22	6470	18000	2500	110000				
	0,54	0,27	5152	18000	2500	110000				
	0,60	0,30	4609	18000	2500	110000				
	0,67	0,34	4133	18000	2500	110000				
	0,76	0,39	3627	18000	2500	110000				
	0,85	0,43	3237	18000	2500	110000				
	0,95	0,48	2905	18000	2500	110000				
	1,0	0,51	2731	18000	2500	110000				
	1,2	0,60	2340	18000	2500	110000				
	1,3	0,67	2098	18000	2500	110000				
	1,5	0,76	1841	18000	2500	110000				
	1,7	0,85	1643	18000	2500	110000				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	1,5	0,75	1859	18000	2500	110000	İRK İRK F	153 İR 92	189 190	879 969
	1,7	0,85	1638	18000	2500	110000				
	2,1	1,1	1303	18000	2500	110000				
	2,4	1,2	1143	18000	2500	110000				
	2,8	1,4	977	18000	2500	110000				
	3,1	1,6	878	18000	2500	110000				
	3,5	1,8	795	18000	2500	110000				
	3,9	2,0	715	18000	2500	110000				
	4,4	2,2	626	18000	2500	110000				
	4,9	2,5	559	18000	2500	110000				
	5,5	2,8	502	18000	2500	110000				
	6,3	3,2	438	18000	2500	110000				
	7,1	3,6	391	18000	2500	110000				
	7,8	3,9	355	18000	2500	110000				
	8,7	4,4	316	18000	2500	110000				
	9,7	4,9	286	18000	2500	110000				
	11	5,4	260	18000	2500	110000				
	12	5,9	236	18000	2500	110000				
	14	7,1	196	18000	2500	110000				
	17	8,5	164	18000	2500	110000				
	6,8	3,4	408	18000	3750	110000	İRK İRK F	153 İR 102	191 192	973 1063
	7,6	3,8	364	18000	3750	110000				
	8,4	4,3	327	18000	3750	110000				
	9,4	4,7	295	18000	3750	110000				
	10	5,3	266	18000	3750	110000				
	11	5,7	246	18000	3750	110000				
	12	6,1	230	18000	3750	110000				
	14	7,3	192	18000	3750	110000				
	16	8,2	171	18000	3750	110000				
	18	9,2	153	18000	3750	110000				
	21	11	130	18000	3750	110000				
	24	12	116	18000	3750	110000				
	27	13	104	18000	3750	110000	İRK İRK F	154	187 188	847 937
	5,1	2,6	547	18000	3750	110000				
	5,7	2,8	496	18000	3750	110000				
	7,3	3,6	386	18000	3750	110000				
	8,1	4,1	344	18000	3750	110000				
	9,1	4,5	309	18000	3750	110000				
	10	5,2	271	18000	3750	110000				
	12	6,0	232	18000	3750	110000				
13	6,7	208	18000	3750	110000					
16	8,1	173	18000	3750	110000					
18	9,0	156	18000	3750	110000					
21	10	137	18000	3750	110000	İRK İRK F				
23	11	122	18000	3750	110000					
20	10,0	141	18000	5250	110000					
22	11	127	18000	5250	110000					
28	14	99,25	18000	5250	110000					
31	16	88,54	18000	5250	110000					
35	18	79,54	18000	5250	110000					
40	20	69,79	18000	5250	110000					
46	23	59,68	18000	5250	110000					
52	26	53,61	18000	5250	110000					
59	30	47,04	18000	5250	110000					
66	33	41,99	18000	5250	110000					
73	37	37,68	18000	5250	110000					
84	43	32,91	18000	5250	110000					
94	48	29,37	18000	5250	110000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =1400rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	105	53	26,36	18000	5250	110000	İRK İRK F	153	185 186	830 920
	116	59	23,76	18000	5250	110000				
	128	65	21,50	18000	5250	110000				
	141	72	19,51	18000	5250	110000				
	156	79	17,75	18000	5250	110000				
	187	95	14,77	18000	5250	110000				
	224	113	12,35	18000	5250	110000				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
160 Nm	0,20	12	77,20	160	390	4500	İRK İRK F	43	139 140	17 18
	0,24	14	66,47	160	390	4500				
	0,27	16	57,78	160	390	4500				
	0,31	18	50,60	160	390	4500				
	0,36	21	43,56	160	390	4500				
	0,41	24	38,14	160	390	4500				
	0,47	27	33,60	160	390	4500				
	0,49	28	32,18	160	390	4500				
	0,53	30	29,92	160	390	4500				
	0,55	31	28,66	160	390	4500				
	0,62	36	25,25	160	390	4500				
	0,71	40	22,34	160	390	4500				
	0,80	45	19,83	160	390	4500				
	0,89	51	17,65	160	390	4500				
	1,0	57	15,73	160	390	4500				
	1,1	63	14,25	160	390	4500				
	1,3	73	12,27	160	390	4500				
	1,5	84	10,67	160	390	4500				
	1,7	96	9,342	160	390	4500				
	1,9	109	8,229	160	390	4500				
	2,1	124	7,280	160	390	4500				
	2,4	139	6,463	160	390	4500				
	2,7	156	5,751	160	390	4500				
	2,8	165	5,453	160	390	4500				
	3,2	185	4,853	160	390	4500				
	3,6	208	4,325	160	390	4500				
200 Nm	0,26	12	77,20	200	390	4500	İRK İRK F	53	141 142	19 20
	0,30	14	66,47	200	390	4500				
	0,34	16	57,78	200	390	4500				
	0,39	18	50,60	200	390	4500				
	0,45	21	43,56	200	390	4500				
	0,52	24	38,14	200	390	4500				
	0,59	27	33,60	200	390	4500				
	0,61	28	32,18	200	390	4500				
	0,66	30	29,92	200	390	4500				
	0,69	31	28,66	200	390	4500				
	0,78	36	25,25	200	390	4500				
	0,88	40	22,34	200	390	4500				
	0,99	45	19,83	200	390	4500				
	1,1	51	17,65	200	390	4500				
	1,3	57	15,73	200	390	4500				
	1,4	63	14,25	200	390	4500				
	1,6	73	12,27	200	390	4500				
	1,8	84	10,67	200	390	4500				
	2,1	96	9,342	200	390	4500				
	2,4	109	8,229	200	390	4500				
	2,7	124	7,280	200	390	4500				
	3,0	139	6,463	200	390	4500				
	3,4	156	5,751	200	390	4500				
	3,6	165	5,453	200	390	4500				
	4,0	185	4,853	200	390	4500				
	4,5	208	4,325	200	390	4500				
400 Nm	0,00	0,09	9714	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,00	0,10	8753	400	475	7000				
	0,01	0,12	7591	400	475	7000				
	0,01	0,13	6899	400	475	7000				
	0,01	0,15	5810	400	475	7000				
	0,01	0,18	5039	400	475	7000				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	0,01	0,20	4414	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,01	0,23	3898	400	475	7000				
	0,01	0,26	3415	400	475	7000				
	0,01	0,33	2769	400	475	7000				
	0,02	0,37	2445	400	475	7000				
	0,02	0,41	2173	400	475	7000				
	0,02	0,48	1868	400	475	7000				
	0,02	0,54	1669	400	475	7000				
	0,03	0,60	1497	400	475	7000				
	0,03	0,67	1348	400	475	7000				
	0,03	0,74	1216	400	475	7000				
	0,04	0,82	1100	400	475	7000				
	0,05	1,0	868	400	475	7000	İRK İRK F	63 İR 52	145 146	42 45
	0,05	1,2	771	400	475	7000				
	0,06	1,4	663	400	475	7000				
	0,07	1,5	592	400	475	7000				
	0,08	1,7	531	400	475	7000				
	0,09	1,9	478	400	475	7000				
	0,09	2,1	432	400	475	7000				
	0,11	2,4	378	400	475	7000				
	0,12	2,6	342	400	475	7000				
	0,13	2,8	325	400	475	7000				
	0,14	3,1	288	400	475	7000				
	0,16	3,6	253	400	475	7000				
	0,18	4,0	226	400	475	7000				
	0,20	4,4	203	400	475	7000				
	0,22	4,9	183	400	475	7000				
	0,25	5,6	161	400	475	7000				
	0,28	6,2	146	400	475	7000				
	0,29	6,5	139	400	475	7000				
	0,33	7,2	125	400	475	7000				
	0,36	8,0	113	400	475	7000				
	0,38	8,3	108	400	475	7000				
	0,43	9,5	95,00	400	475	7000				
	0,30	6,8	133	400	590	7000	İRK İRK F	63	143 144	28 30
	0,33	7,4	121	400	590	7000				
	0,34	7,8	115	400	590	7000				
	0,38	8,6	105	400	590	7000				
	0,43	9,8	91,93	400	590	7000				
	0,48	11	82,84	400	590	7000				
0,55	13	71,84	400	590	7000					
0,60	14	65,30	400	590	7000					
0,69	16	57,20	400	590	7000					
0,78	18	50,52	400	590	7000					
0,88	20	44,90	400	590	7000					
1,0	23	38,58	400	590	7000					
1,1	26	34,47	400	590	7000					
1,3	29	30,93	400	590	7000					
1,4	32	27,84	400	590	7000					
1,6	36	25,13	400	590	7000					
1,7	40	22,73	400	590	7000					
1,8	42	21,59	400	590	7000					
2,1	47	19,11	400	590	7000					
2,3	53	16,84	400	590	7000					
2,6	60	15,04	400	590	7000					
2,9	67	13,50	400	590	7000					
3,2	74	12,15	400	590	7000					
3,6	82	10,97	400	590	7000					



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	3,8	86	10,44	400	590	7000	İRK İRK F	63	143 144	28 30
	4,2	96	9,423	400	590	7000				
	4,6	106	8,522	400	590	7000				
	4,9	111	8,097	400	590	7000				
	5,5	126	7,165	400	590	7000				
	5,9	135	6,682	400	590	7000				
	6,5	149	6,043	400	590	7000				
	6,9	157	5,741	400	590	7000				
	7,8	177	5,081	400	590	7000				
780 Nm	0,01	0,07	12336	780	475	12100	İRK İRK F	73 İR 53	151 152	52 56
	0,01	0,08	11126	780	475	12100				
	0,01	0,09	9648	780	475	12100				
	0,01	0,11	8183	780	475	12100				
	0,01	0,13	7096	780	475	12100				
	0,01	0,14	6217	780	475	12100				
	0,01	0,16	5735	780	475	12100				
	0,02	0,18	4892	780	475	12100				
	0,02	0,20	4460	780	475	12100				
	0,02	0,26	3475	780	475	12100				
	0,03	0,32	2808	780	475	12100				
	0,03	0,35	2544	780	475	12100				
	0,03	0,39	2314	780	475	12100				
	0,04	0,47	1932	780	475	12100				
	0,05	0,51	1762	780	475	12100				
	0,05	0,58	1556	780	475	12100				
	0,06	0,66	1368	780	475	12100				
	0,07	0,83	1089	780	475	12100				
	0,09	1,0	880	780	475	12100	İRK İRK F	73 İR 52	151 152	51 55
	0,10	1,1	797	780	475	12100				
	0,11	1,3	697	780	475	12100				
	0,13	1,4	634	780	475	12100				
	0,15	1,7	529	780	475	12100				
	0,16	1,9	484	780	475	12100				
	0,19	2,1	426	780	475	12100				
	0,21	2,4	380	780	475	12100				
	0,24	2,7	335	780	475	12100				
	0,27	3,1	295	780	475	12100				
	0,30	3,5	260	780	475	12100				
	0,36	4,1	222	780	475	12100				
	0,40	4,6	196	780	475	12100				
	0,46	5,2	173	780	475	12100				
	0,51	5,8	156	780	475	12100				
	0,57	6,5	138	780	475	12100				
	0,65	7,4	122	780	475	12100				
	0,20	2,3	388	780	475	12100				
	0,26	3,0	305	780	475	12100				
	0,32	3,7	246	780	475	12100				
	0,37	4,3	210	780	475	12100				
	0,41	4,7	191	780	475	12100				
	0,48	5,5	163	780	475	12100				
	0,59	6,8	131	780	475	12100				
	0,66	7,6	119	780	475	12100	İRK İRK F	73	147 148	38 42
	0,53	6,2	144	780	590	12100				
	0,57	6,7	134	780	590	12100				
	0,62	7,2	125	780	590	12100				
	0,66	7,7	117	780	590	12100				
	0,84	9,8	91,96	780	590	12100				
	1,0	12	74,32	780	590	12100				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
780 Nm	1,2	14	63,40	780	590	11000	İRK İRK F	73	147 148	38 42
	1,5	18	51,24	780	590	11000				
	1,7	19	46,41	780	590	11000				
	1,8	21	42,21	780	590	11000				
	2,2	26	35,25	780	590	10500				
	2,4	28	32,15	780	590	10500				
	2,7	32	28,39	780	590	10500				
	3,1	36	24,95	780	590	10500				
	3,5	41	22,02	780	590	10500				
	3,9	46	19,51	780	590	10500				
	4,4	51	17,59	780	590	10500				
	5,0	58	15,53	780	590	10500				
	5,6	65	13,75	780	590	10000				
	6,3	74	12,21	780	590	10000				
	6,5	77	11,75	780	590	10000				
	7,1	83	10,85	780	590	10000				
	7,4	87	10,38	780	590	10000				
	8,4	98	9,190	780	590	10000				
	9,4	110	8,156	780	590	10000				
	11	124	7,247	780	590	10000				
	11	132	6,833	780	590	10000				
	12	138	6,525	780	590	10000				
	13	155	5,798	780	590	10000				
	14	165	5,467	780	590	10000				
1500 Nm	0,01	0,05	17533	1500	475	19180	İRK İRK F	83 İR 53	157 158	84 90
	0,01	0,06	15157	1500	475	19180				
	0,01	0,08	11888	1500	475	19180				
	0,02	0,09	9908	1500	475	19180				
	0,02	0,10	8812	1500	475	19180				
	0,02	0,12	7420	1500	475	19180				
	0,02	0,14	6435	1500	475	19180				
	0,03	0,16	5762	1500	475	19180				
	0,03	0,19	4677	1500	475	19180				
	0,04	0,22	4097	1500	475	19180				
	0,04	0,25	3599	1500	475	19180				
	0,05	0,28	3199	1500	475	19180				
	0,05	0,31	2919	1500	475	19180				
	0,06	0,35	2577	1500	475	19180				
	0,07	0,39	2291	1500	475	19180				
	0,08	0,44	2047	1500	475	19180				
	0,08	0,48	1860	1500	475	19180				
	0,09	0,54	1669	1500	475	19180				
	0,10	0,60	1502	1500	475	19180				
	0,11	0,65	1378	1500	475	19180				
	0,13	0,73	1226	1500	475	19180				
	0,15	0,86	1041	1500	450	19180	İRK İRK F	83 İR 52	157 158	83 89
	0,17	0,98	915	1500	450	19180				
	0,19	1,1	801	1500	450	19180				
	0,21	1,3	712	1500	450	19180				
	0,24	1,4	629	1500	450	19180				
	0,27	1,6	562	1500	450	19180				
	0,34	2,0	454	1500	450	19180				
	0,37	2,2	416	1500	450	19180				
	0,41	2,4	370	1500	450	19180				
	0,46	2,7	329	1500	450	19180				
	0,52	3,1	294	1500	450	19180				
	0,58	3,4	264	1500	450	19180				
	0,67	3,9	228	1500	450	19180				



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Servis Faktörü Service Factor Service facteur $S_f=1$	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types		
1500 Nm	0,24	1,5	619	1500	590	19180	İRK İRK F 84	155 156	74 80
	0,28	1,6	546	1500	590	19180			
	0,31	1,9	486	1500	590	19180			
	0,33	2,0	459	1500	590	19180			
	0,37	2,2	405	1500	590	19180			
	0,42	2,5	360	1500	590	19180			
	0,47	2,8	322	1500	590	19180			
	0,57	3,4	261	1500	590	19180			
	0,63	3,8	236	1500	2150	19180	İRK İRK F 83	153 154	70 76
	0,72	4,4	204	1500	2150	19180			
	0,82	5,0	180	1500	2150	19180			
	0,89	5,4	166	1500	2150	19180			
	1,0	6,3	143	1500	2150	19180			
	1,2	7,1	127	1500	2150	19180			
	1,3	8,0	113	1500	2150	19180			
	1,4	8,5	106	1500	2150	19180			
	1,6	9,6	93,77	1500	2150	19180			
	1,8	11	83,39	1500	2150	19180			
	2,0	12	74,67	1500	2150	19180			
	2,4	15	60,61	1500	2150	19180			
	2,8	17	53,24	1500	2150	19180			
	3,1	19	47,32	1500	2150	19180			
	3,5	21	42,28	1500	2150	19180			
	3,9	24	37,93	1500	2150	19180			
	4,3	26	34,15	1500	2150	19180			
	4,7	29	31,34	1500	2150	19180			
	5,3	32	27,86	1500	2150	19180			
	5,9	36	24,89	1500	2150	19180			
	6,6	40	22,33	1500	2150	19180			
	7,7	47	19,33	1500	2150	19180			
	8,6	52	17,27	1500	2150	19180			
	9,5	58	15,50	1500	2150	19180			
	11	65	13,95	1500	2150	19180			
	12	71	12,59	1500	2150	19180			
	13	79	11,39	1500	2150	19180			
	14	87	10,31	1500	2150	19180			
	16	96	9,350	1500	2150	19180			
	18	108	8,312	1500	2150	19180			
	20	120	7,528	1500	2150	19180			
	22	132	6,824	1500	2150	19180			
	24	145	6,189	1500	2150	19180			
	32	195	4,609	1500	2150	19180			
2700 Nm	0,02	0,06	14401	2700	590	24500	İRK İRK F 93 İR 63	163 164	149 160
	0,02	0,07	13063	2700	590	24500			
	0,02	0,08	11908	2700	590	24500			
	0,03	0,09	9885	2700	590	24500			
	0,03	0,10	8813	2700	590	24500			
	0,04	0,11	7913	2700	590	24500			
	0,04	0,13	7146	2700	590	24500			
	0,05	0,16	5699	2700	590	24500			
	0,05	0,18	5137	2700	590	24500			
	0,07	0,21	4218	2700	590	24500			
	0,07	0,23	3962	2700	590	24500			
	0,08	0,26	3484	2700	590	24500			
	0,09	0,28	3206	2700	590	24500			
	0,11	0,34	2632	2700	590	24500			
	0,12	0,38	2338	2700	590	24500			
	0,14	0,45	2002	2700	590	24500			



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2700 Nm	0,16	0,50	1797	2700	590	24500	İRK İRK F	93 İR 63	163	149
	0,17	0,56	1620	2700	590	24500			164	160
	0,19	0,61	1466	2700	590	24500				
	0,23	0,74	1210	2700	590	24500	İRK İRK F	93 İR 62	163 164	144 155
	0,25	0,81	1116	2700	550	24500				
	0,28	0,90	995	2700	550	24500				
	0,31	1,0	893	2700	550	24500				
	0,43	1,4	643	2700	550	24500				
	0,47	1,6	580	2700	550	24500				
	0,52	1,7	525	2700	550	24500				
	0,58	1,9	476	2700	550	24500				
	0,61	2,0	447	2700	550	24500				
	0,76	2,5	362	2700	550	24500				
	0,84	2,8	327	2700	550	24500				
	0,98	3,2	280	2700	550	24500				
	1,1	3,6	252	2700	550	24500				
	1,2	4,0	227	2700	550	24500				
	1,3	4,4	205	2700	550	24500				
	1,5	4,8	186	2700	550	24500				
	0,54	1,8	502	2700	1200	24500				
	0,59	2,0	455	2700	1200	24500				
	0,65	2,2	415	2700	1200	24500				
	0,79	2,6	344	2700	1200	24500				
	0,89	3,0	304	2700	1200	24500				
	1,00	3,3	271	2700	1200	24500				
	1,1	3,7	243	2700	1200	24500				
	1,2	4,1	219	2700	1200	24500				
	1,4	4,6	195	2700	1200	24500				
	1,5	5,0	179	2700	2600	24500				
	1,7	5,7	158	2700	2600	24500				
	1,8	6,0	149	2700	2600	24500				
	2,0	6,7	134	2700	2600	24500				
	2,2	7,5	121	2700	2600	24500				
	2,4	8,2	109	2700	2600	24500				
	2,7	9,0	99,73	2700	2600	24500				
	3,2	11	82,79	2700	2600	24500				
	3,6	12	73,81	2700	2600	24500				
	4,0	14	66,27	2700	2600	24500				
	4,4	15	59,85	2700	2600	24500				
	5,0	17	53,18	2700	2600	24500				
	5,6	19	47,73	2700	2600	24500				
	6,2	21	43,03	2700	2600	24500				
	7,0	24	38,24	2700	2600	24500				
	7,5	25	35,33	2700	2600	24500				
	8,0	27	33,19	2700	2600	24500				
	8,9	30	29,78	2700	2600	24500				
	9,9	34	26,85	2700	2600	24500				
	11	38	23,86	2700	2600	24500				
	12	41	22,05	2700	2600	24500				
	13	43	20,80	2700	2600	24500				
	14	48	18,67	2700	2600	24500				
	16	53	16,83	2700	2600	24500				
	18	60	14,96	2700	2600	24500				
	19	65	13,82	2700	2600	24500				
	21	72	12,57	2700	2600	24500				
	23	79	11,46	2700	2600	24500				
	25	86	10,46	2700	2600	24500				
	28	94	9,561	2700	2600	24500				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =900rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2700 Nm	29	98	9,190	2700	2600	24500	İRK İRK F	93	159 160	125 136
	32	107	8,377	2700	2600	24500				
	35	118	7,647	2700	2600	24500				
	38	129	6,989	2700	2600	24500				
	43	145	6,202	2700	2600	24500				
4300 Nm	0,02	0,05	18013	4300	590	37000	İRK İRK F	103 İR 63	169 170	209 229
	0,03	0,06	15999	4300	590	37000				
	0,03	0,06	14335	4300	590	37000				
	0,03	0,07	12937	4300	590	37000				
	0,04	0,08	11746	4300	590	37000				
	0,05	0,10	9169	4300	590	37000				
	0,06	0,12	7738	4300	590	37000				
	0,07	0,13	6820	4300	590	37000				
	0,08	0,17	5423	4300	590	37000				
	0,10	0,20	4412	4300	590	37000				
	0,11	0,22	4004	4300	590	37000				
	0,13	0,26	3486	4300	590	37000				
	0,16	0,32	2772	4300	590	37000				
	0,20	0,40	2255	4300	590	37000				
	0,22	0,44	2047	4300	590	37000				
	0,22	0,45	1993	4300	590	37000				
	0,28	0,57	1572	4300	590	37000				
	0,31	0,63	1427	4300	590	37000				
	0,34	0,69	1304	4300	590	37000				
	0,38	0,77	1174	4300	590	37000				
	0,42	0,85	1061	4300	590	37000				
	0,51	1,0	877	4300	590	37000				
	0,59	1,2	757	4300	590	37000				
	0,72	1,5	616	4300	590	37000				
	0,79	1,6	559	4300	590	37000				
	0,87	1,8	509	4300	590	37000				
	1,0	2,1	432	4300	590	37000				
	1,1	2,3	392	4300	590	37000				
	1,2	2,5	357	4300	590	37000				
	1,4	2,9	314	4300	550	37000				
	1,5	3,2	285	4300	550	37000				
	1,7	3,4	261	4300	550	37000				
	1,9	3,8	235	4300	550	37000				
	2,1	4,2	212	4300	550	37000				
	2,5	5,1	175	4300	550	37000				
	0,70	1,5	612	4300	1550	37000				
	0,79	1,7	544	4300	1550	37000				
	0,88	1,8	490	4300	1550	37000				
	0,98	2,0	439	4300	1550	37000				
	1,1	2,3	396	4300	1550	37000				
	1,2	2,5	360	4300	1550	37000				
	1,4	3,0	301	4300	1550	37000				
	1,7	3,5	254	4300	1550	37000				
	1,9	4,0	224	4300	1550	37000				
	2,4	5,1	178	4300	1550	37000				
2,7	5,6	160	4300	1550	37000					
2,5	5,2	172	4300	3150	37000					
2,6	5,6	160	4300	3150	37000					
3,0	6,4	141	4300	3150	37000					
3,4	7,2	125	4300	3150	37000					
3,8	8,0	112	4300	3150	37000					
4,2	8,9	101	4300	3150	37000					
4,6	9,8	91.80	4300	3150	37000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
4300 Nm	5,5	12	76,79	4300	3150	37000	İRK İRK F	103	165 166	189 209
	6,5	14	64,81	4300	3150	37000				
	7,4	16	57,11	4300	3150	37000				
	9,3	20	45,42	4300	3150	37000				
	10	22	40,87	4300	3150	37000				
	11	24	36,95	4300	3150	37000				
	13	27	33,53	4300	3150	37000				
	14	29	30,65	4300	3150	37000				
	15	33	27,58	4300	3150	37000				
	17	36	24,93	4300	3150	37000				
	19	40	22,63	4300	3150	37000				
	21	44	20,60	4300	3150	37000				
	23	48	18,81	4300	3150	37000				
	24	51	17,80	4300	3150	37000				
	26	56	16,01	4300	3150	37000				
	29	62	14,48	4300	3150	37000				
	32	68	13,14	4300	3150	37000				
	35	75	11,96	4300	3150	37000				
	39	82	10,92	4300	3150	37000				
	42	90	9,993	4300	3150	37000				
	46	98	9,159	4300	3150	37000				
	55	117	7,724	4300	3150	37000				
	60	127	7,102	4300	3150	37000				
	65	138	6,533	4300	3150	37000				
8000 Nm	0,05	0,06	15860	8000	1200	60800	İRK İRK F	123 İR 73	175 176	321 351
	0,06	0,06	14323	8000	1200	60800				
	0,06	0,07	13014	8000	1200	60800				
	0,07	0,08	11886	8000	1200	60800				
	0,08	0,08	10903	8000	1200	60800				
	0,08	0,09	9721	8000	1200	60800				
	0,10	0,10	8585	8000	1200	60800				
	0,11	0,12	7630	8000	1200	60800				
	0,13	0,14	6596	8000	1200	60800				
	0,14	0,15	5893	8000	1200	60800				
	0,16	0,17	5288	8000	1200	60800				
	0,18	0,20	4526	8000	1200	60800				
	0,21	0,22	4023	8000	1200	60800				
	0,23	0,25	3594	8000	1200	60800				
	0,26	0,28	3225	8000	1200	60800				
	0,28	0,31	2903	8000	1200	60800				
	0,30	0,32	2781	8000	1200	60800				
	0,33	0,36	2472	8000	1200	60800				
	0,37	0,41	2208	8000	1200	60800				
	0,42	0,45	1982	8000	1200	60800				
	0,46	0,50	1784	8000	1200	60800				
	0,51	0,56	1610	8000	1200	60800				
	0,57	0,62	1456	8000	1200	60800				
	0,63	0,68	1319	8000	1200	60800				
	0,69	0,75	1195	8000	1200	60800				
	0,76	0,83	1084	8000	1200	60800				
	0,41	0,45	1983	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	0,47	0,52	1743	8000	1200	60800				
	0,52	0,58	1549	8000	1200	60800				
	0,59	0,65	1389	8000	1200	60800				
	0,65	0,72	1255	8000	1200	60800				
	0,71	0,79	1140	8000	1200	60800				
	0,78	0,86	1041	8000	1200	60800				
	0,95	1,1	852	8000	1200	60800				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
8000 Nm	1,1	1,2	752	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	1,2	1,3	668	8000	1200	60800				
	1,4	1,5	597	8000	1200	60800				
	1,5	1,7	536	8000	1200	60800				
	1,8	2,0	458	8000	1200	60800				
	2,0	2,2	408	8000	1200	60800				
	2,2	2,5	364	8000	1200	60800				
	2,5	2,8	327	8000	1200	60800				
	2,8	3,1	294	8000	1200	60800				
	2,9	3,2	282	8000	1200	60800				
	3,3	3,6	250	8000	1200	60800				
	3,6	3,9	228	8000	1200	60800				
	4,0	4,5	201	8000	1200	60800				
	4,5	5,0	181	8000	1200	60800				
	5,0	5,5	163	8000	1200	60800				
	5,5	6,1	148	8000	1200	60800				
	6,1	6,7	134	8000	1200	60800				
	6,7	7,4	121	8000	1200	60800				
	1,8	2,0	446	8000	1550	60000	İRK İRK F	124	173 174	302 332
	2,0	2,2	403	8000	1550	60000				
	2,2	2,5	366	8000	1550	60000				
	2,4	2,7	330	8000	1550	55000				
	2,7	3,0	302	8000	1550	55000				
	2,9	3,3	273	8000	1550	55000				
	3,2	3,6	249	8000	1550	55000				
	3,5	3,9	229	8000	1550	50000				
	3,9	4,4	204	8000	1550	50000				
	4,4	5,0	180	8000	1550	50000				
	5,0	5,6	160	8000	1550	50000				
	5,6	6,3	143	8000	1550	50000				
	5,4	6,1	147	8000	3750	60000	İRK İRK F	123	171 172	310 340
	6,1	7,0	129	8000	3750	60000				
	6,9	7,9	115	8000	3750	60000				
	7,7	8,8	103	8000	3750	55000				
	8,5	9,7	92,73	8000	3750	55000				
	9,4	11	84,26	8000	3750	55000				
	10	12	76,95	8000	3750	55000				
	11	13	70,59	8000	3750	50000				
	13	14	62,94	8000	3750	50000				
	14	16	55,58	8000	3750	50000				
	16	18	49,40	8000	3750	50000				
	18	20	44,14	8000	3750	50000				
	20	23	39,60	8000	3750	45000				
	23	27	33,90	8000	3750	45000				
	26	30	30,13	8000	3750	40000				
	29	33	26,92	8000	3750	40000				
	33	37	24,15	8000	3750	40000				
	36	41	21,74	8000	3750	40000				
38	43	20,83	8000	3750	40000					
43	49	18,51	8000	3750	40000					
48	54	16,54	8000	3750	35000					
53	61	14,84	8000	3750	35000					
59	67	13,36	8000	3750	35000					
65	75	12,06	8000	3750	35000					
72	83	10,90	8000	3750	25000					
80	91	9,876	8000	3750	25000					
88	101	8,953	8000	3750	25000					
97	111	8,120	8000	3750	25000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg				
13000 Nm	0,06	0,04	21208	13000	1200	75000	İRK İRK F	143 İR 73	181 182	594 644				
	0,07	0,05	18335	13000	1200	75000								
	0,09	0,06	14883	13000	1200	75000								
	0,11	0,07	12431	13000	1200	75000								
	0,12	0,08	10939	13000	1200	75000								
	0,14	0,09	9706	13000	1200	75000								
	0,16	0,11	8552	13000	1200	75000								
	0,18	0,12	7589	13000	1200	75000								
	0,20	0,13	6779	13000	1200	75000								
	0,22	0,15	6090	13000	1200	75000								
	0,24	0,16	5495	13000	1200	75000								
	0,27	0,18	5059	13000	1200	75000								
	0,30	0,20	4489	13000	1200	75000								
	0,33	0,22	4010	13000	1200	75000								
	0,37	0,25	3602	13000	1200	75000								
	0,41	0,28	3251	13000	1200	75000								
	0,49	0,33	2728	13000	1200	75000								
	0,60	0,40	2245	13000	1200	75000								
	0,72	0,48	1866	13000	1200	75000								
	0,76	0,51	1757	13000	1200	75000								
	0,93	0,62	1446	13000	1200	75000								
	1,0	0,71	1259	13000	1200	75000	İRK İRK F	143 İR 72	181 182	592 642				
	1,2	0,81	1108	13000	1200	75000								
	1,3	0,92	983	13000	1200	75000								
	1,5	1,0	866	13000	1200	75000								
	1,7	1,2	769	13000	1200	75000								
	1,9	1,3	686	13000	1200	75000								
	2,2	1,5	598	13000	1200	75000								
	2,5	1,7	530	13000	1200	75000								
	2,8	1,9	474	13000	1200	75000								
	3,4	2,3	384	13000	1200	71000								
	3,7	2,5	353	13000	1200	71000								
	4,2	2,9	314	13000	1200	71000								
	4,7	3,2	283	13000	1200	71000								
	5,3	3,6	250	13000	1200	71000								
	5,9	4,0	225	13000	1200	71000								
	6,5	4,4	203	13000	1200	71000								
	7,8	5,3	170	13000	1200	71000								
	8,8	6,0	151	13000	1200	71000								
	9,8	6,7	135	13000	1200	71000								
	2,3	1,6	564	13000	1550	75000					İRK İRK F	143 İR 82	183 184	638 688
	2,6	1,8	501	13000	1550	75000								
	3,0	2,0	447	13000	1550	75000								
	3,3	2,2	402	13000	1550	75000								
	3,6	2,5	363	13000	1550	71000								
	4,1	2,8	320	13000	1550	71000								
	5,1	3,4	261	13000	1550	71000								
	6,0	4,1	219	13000	1550	71000								
	7,3	5,0	181	13000	1550	71000								
	8,1	5,5	164	13000	1550	71000								
	9,6	6,6	137	13000	1550	71000	İRK İRK F	144	179 180	615 665				
	1,8	1,2	726	13000	3750	65000								
	2,0	1,4	652	13000	3750	65000								
	2,2	1,5	589	13000	3750	65000								
	2,6	1,8	492	13000	3750	65000								
	3,0	2,1	433	13000	3750	65000								
	3,4	2,3	384	13000	3750	65000								
	3,8	2,7	339	13000	3750	61500								



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
13000 Nm	4,3	3,0	300	13000	3750	61500	İRK İRK F	144	179 180	615 665
	4,8	3,4	268	13000	3750	61500				
	5,4	3,7	241	13000	3750	55000				
	6,0	4,2	216	13000	3750	55000				
	6,4	4,4	204	13000	3750	55000				
	7,2	5,0	180	13000	3750	55000				
	8,2	5,6	159	13000	3750	50000				
	8,3	5,8	154	13000	3750	65000	İRK İRK F	143	177 178	607 657
	9,3	6,6	137	13000	3750	65000				
	10	7,3	123	13000	3750	65000				
	12	8,1	111	13000	3750	65000				
	14	9,7	93,10	13000	3750	65000				
	16	11	81,92	13000	3750	65000				
	18	12	72,69	13000	3750	61500				
	20	14	64,05	13000	3750	61500				
	23	16	56,83	13000	3750	61500				
	25	18	50,77	13000	3750	55000				
	28	20	45,61	13000	3750	55000				
	31	22	41,15	13000	3750	55000				
	34	24	37,89	13000	3750	55000				
	38	27	33,62	13000	3750	50000				
	43	30	30,03	13000	3750	50000				
	48	33	26,98	13000	3750	50000				
	53	37	24,35	13000	3750	45000				
	57	40	22,64	13000	3750	45000				
	63	44	20,43	13000	3750	45000				
	69	49	18,50	13000	3750	38500				
	76	54	16,81	13000	3750	38500				
	84	59	15,32	13000	3750	38500				
	92	64	13,98	13000	3750	38500				
	97	68	13,16	13000	3750	38500				
	108	76	11,92	13000	3750	36000				
	118	83	10,83	13000	3750	36000				
	130	91	9,864	13000	3750	36000				
	142	100	9,003	13000	3750	36000				
	156	109	8,231	13000	3750	36000				
	170	119	7,534	13000	3750	36000				
	186	130	6,902	13000	3750	36000				
18000 Nm	0,09	0,05	18995	18000	2500	110000	İRK İRK F	153 İR 93	189 190	885 975
	0,10	0,05	16945	18000	2500	110000				
	0,12	0,06	15222	18000	2500	110000				
	0,13	0,07	13356	18000	2500	110000				
	0,16	0,08	11442	18000	2500	110000				
	0,17	0,09	10326	18000	2500	110000				
	0,19	0,10	9376	18000	2500	110000				
	0,23	0,11	7843	18000	2500	110000				
	0,27	0,14	6470	18000	2500	110000				
	0,34	0,17	5152	18000	2500	110000				
	0,39	0,20	4609	18000	2500	110000				
	0,43	0,22	4133	18000	2500	110000				
	0,49	0,25	3627	18000	2500	110000				
	0,55	0,28	3237	18000	2500	110000				
	0,61	0,31	2905	18000	2500	110000				
	0,65	0,33	2731	18000	2500	110000				
	0,76	0,38	2340	18000	2500	110000				
	0,85	0,43	2098	18000	2500	110000				
	0,96	0,49	1841	18000	2500	110000				
	1,1	0,55	1643	18000	2500	110000				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =900rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	0,95	0,48	1859	18000	2500	110000	İRK İRK F	153 İR 92	189 190	879 969
	1,1	0,55	1638	18000	2500	110000				
	1,4	0,69	1303	18000	2500	110000				
	1,6	0,79	1143	18000	2500	110000				
	1,8	0,92	977	18000	2500	110000				
	2,0	1,0	878	18000	2500	110000				
	2,2	1,1	795	18000	2500	110000				
	2,5	1,3	715	18000	2500	110000				
	2,8	1,4	626	18000	2500	110000				
	3,2	1,6	559	18000	2500	110000				
	3,5	1,8	502	18000	2500	110000				
	4,1	2,1	438	18000	2500	110000				
	4,5	2,3	391	18000	2500	110000				
	5,0	2,5	355	18000	2500	110000				
	5,6	2,8	316	18000	2500	110000				
	6,2	3,1	286	18000	2500	110000				
	6,8	3,5	260	18000	2500	110000				
	7,5	3,8	236	18000	2500	110000				
	9,1	4,6	196	18000	2500	110000				
	11	5,5	164	18000	2500	110000				
	4,4	2,2	408	18000	3750	110000	İRK İRK F	153 İR 102	191 192	973 1063
	4,9	2,5	364	18000	3750	110000				
	5,4	2,8	327	18000	3750	110000				
	6,0	3,1	295	18000	3750	110000				
	6,7	3,4	266	18000	3750	110000				
	7,2	3,7	246	18000	3750	110000				
	7,7	3,9	230	18000	3750	110000				
	9,2	4,7	192	18000	3750	110000				
	10	5,3	171	18000	3750	110000				
	12	5,9	153	18000	3750	110000				
	14	6,9	130	18000	3750	110000				
	15	7,8	116	18000	3750	110000				
	17	8,7	104	18000	3750	110000	İRK İRK F	154	187 188	847 937
	3,3	1,6	547	18000	3750	110000				
	3,6	1,8	496	18000	3750	110000				
	4,7	2,3	386	18000	3750	110000				
	5,2	2,6	344	18000	3750	110000				
	5,8	2,9	309	18000	3750	110000				
	6,6	3,3	271	18000	3750	110000				
	7,8	3,9	232	18000	3750	110000				
	8,6	4,3	208	18000	3750	110000				
	10	5,2	173	18000	3750	110000				
	12	5,8	156	18000	3750	110000				
	13	6,6	137	18000	3750	110000				
	15	7,4	122	18000	3750	110000	İRK İRK F	153	185 186	830 920
	13	6,4	141	18000	5250	110000				
	14	7,1	127	18000	5250	110000				
	18	9,1	99,25	18000	5250	110000				
20	10	88,54	18000	5250	110000					
22	11	79,54	18000	5250	110000					
25	13	69,79	18000	5250	110000					
30	15	59,68	18000	5250	110000					
33	17	53,61	18000	5250	110000					
38	19	47,04	18000	5250	110000					
42	21	41,99	18000	5250	110000					
47	24	37,68	18000	5250	110000					
54	27	32,91	18000	5250	110000					
60	31	29,37	18000	5250	110000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=900rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	67	34	26,36	18000	5250	110000	İRK İRK F	153	185 186	830 920
	75	38	23,76	18000	5250	110000				
	83	42	21,50	18000	5250	110000				
	91	46	19,51	18000	5250	110000				
	100	51	17,75	18000	5250	110000				
	120	61	14,77	18000	5250	110000				
	144	73	12,35	18000	5250	110000				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
160 Nm	0,16	9,1	77,20	160	390	4500	İRK İRK F	43	139 140	17 18
	0,18	11	66,47	160	390	4500				
	0,21	12	57,78	160	390	4500				
	0,24	14	50,60	160	390	4500				
	0,28	16	43,56	160	390	4500				
	0,32	18	38,14	160	390	4500				
	0,37	21	33,60	160	390	4500				
	0,38	22	32,18	160	390	4500				
	0,41	23	29,92	160	390	4500				
	0,43	24	28,66	160	390	4500				
	0,49	28	25,25	160	390	4500				
	0,55	31	22,34	160	390	4500				
	0,62	35	19,83	160	390	4500				
	0,70	40	17,65	160	390	4500				
	0,78	45	15,73	160	390	4500				
	0,85	49	14,25	160	390	4500				
	0,99	57	12,27	160	390	4500				
	1,1	66	10,67	160	390	4500				
	1,3	75	9,342	160	390	4500				
	1,5	85	8,229	160	390	4500				
	1,7	96	7,280	160	390	4500				
	1,9	108	6,463	160	390	4500				
	2,1	122	5,751	160	390	4500				
	2,2	128	5,453	160	390	4500				
	2,5	144	4,853	160	390	4500				
	2,8	162	4,325	160	390	4500				
200 Nm	0,20	9,1	77,20	200	390	4500	İRK İRK F	53	141 142	19 20
	0,23	11	66,47	200	390	4500				
	0,27	12	57,78	200	390	4500				
	0,30	14	50,60	200	390	4500				
	0,35	16	43,56	200	390	4500				
	0,40	18	38,14	200	390	4500				
	0,46	21	33,60	200	390	4500				
	0,48	22	32,18	200	390	4500				
	0,51	23	29,92	200	390	4500				
	0,54	24	28,66	200	390	4500				
	0,61	28	25,25	200	390	4500				
	0,69	31	22,34	200	390	4500				
	0,77	35	19,83	200	390	4500				
	0,87	40	17,65	200	390	4500				
	0,98	45	15,73	200	390	4500				
	1,1	49	14,25	200	390	4500				
	1,2	57	12,27	200	390	4500				
	1,4	66	10,67	200	390	4500				
	1,6	75	9,342	200	390	4500				
	1,8	85	8,229	200	390	4500				
	2,1	96	7,280	200	390	4500				
	2,3	108	6,463	200	390	4500				
	2,6	122	5,751	200	390	4500				
	2,8	128	5,453	200	390	4500				
	3,1	144	4,853	200	390	4500				
	3,5	162	4,325	200	390	4500				
400 Nm	0,00	0,07	9714	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,00	0,08	8753	400	475	7000				
	0,00	0,09	7591	400	475	7000				
	0,00	0,10	6899	400	475	7000				
	0,01	0,12	5810	400	475	7000				
	0,01	0,14	5039	400	475	7000				
	0,01	0,14	5039	400	475	7000				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	0,01	0,16	4414	400	475	7000	İRK İRK F	63 İR 53	145 146	43 46
	0,01	0,18	3898	400	475	7000				
	0,01	0,20	3415	400	475	7000				
	0,01	0,25	2769	400	475	7000				
	0,01	0,29	2445	400	475	7000				
	0,01	0,32	2173	400	475	7000				
	0,02	0,37	1868	400	475	7000				
	0,02	0,42	1669	400	475	7000				
	0,02	0,47	1497	400	475	7000				
	0,02	0,52	1348	400	475	7000				
	0,03	0,58	1216	400	475	7000				
	0,03	0,64	1100	400	475	7000				
	0,04	0,81	868	400	475	7000	İRK İRK F	63 İR 52	145 146	42 45
	0,04	0,91	771	400	475	7000				
	0,05	1,1	663	400	475	7000				
	0,05	1,2	592	400	475	7000				
	0,06	1,3	531	400	475	7000				
	0,07	1,5	478	400	475	7000				
	0,07	1,6	432	400	475	7000				
	0,08	1,9	378	400	475	7000				
	0,09	2,0	342	400	475	7000				
	0,10	2,2	325	400	475	7000				
	0,11	2,4	288	400	475	7000				
	0,12	2,8	253	400	475	7000				
	0,14	3,1	226	400	475	7000				
	0,16	3,4	203	400	475	7000				
	0,17	3,8	183	400	475	7000				
	0,20	4,3	161	400	475	7000				
	0,22	4,8	146	400	475	7000				
	0,23	5,0	139	400	475	7000				
	0,25	5,6	125	400	475	7000				
	0,28	6,2	113	400	475	7000				
	0,29	6,5	108	400	475	7000				
	0,33	7,4	95,00	400	475	7000				
	0,23	5,3	133	400	590	7000	İRK İRK F	63	143 144	28 30
	0,25	5,8	121	400	590	7000				
	0,27	6,1	115	400	590	7000				
	0,29	6,7	105	400	590	7000				
	0,33	7,6	91,93	400	590	7000				
	0,37	8,4	82,84	400	590	7000				
0,43	9,7	71,84	400	590	7000					
0,47	11	65,30	400	590	7000					
0,54	12	57,20	400	590	7000					
0,61	14	50,52	400	590	7000					
0,68	16	44,90	400	590	7000					
0,80	18	38,58	400	590	7000					
0,89	20	34,47	400	590	7000					
0,99	23	30,93	400	590	7000					
1,1	25	27,84	400	590	7000					
1,2	28	25,13	400	590	7000					
1,4	31	22,73	400	590	7000					
1,4	32	21,59	400	590	7000					
1,6	37	19,11	400	590	7000					
1,8	42	16,84	400	590	7000					
2,0	47	15,04	400	590	7000					
2,3	52	13,50	400	590	7000					
2,5	58	12,15	400	590	7000					
2,8	64	10,97	400	590	7000					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =700rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
400 Nm	2,9	67	10,44	400	590	7000	İRK İRK F	63	143 144	28 30
	3,3	74	9,423	400	590	7000				
	3,6	82	8,522	400	590	7000				
	3,8	86	8,097	400	590	7000				
	4,3	98	7,165	400	590	7000				
	4,6	105	6,682	400	590	7000				
	5,1	116	6,043	400	590	7000				
	5,3	122	5,741	400	590	7000				
	6.0	138	5,081	400	590	7000				
780 Nm	0,01	0,06	12336	780	475	12100	İRK İRK F	73 İR 53	151 152	52 56
	0,01	0,06	11126	780	475	12100				
	0,01	0,07	9648	780	475	12100				
	0,01	0,09	8183	780	475	12100				
	0,01	0,10	7096	780	475	12100				
	0,01	0,11	6217	780	475	12100				
	0,01	0,12	5735	780	475	12100				
	0,01	0,14	4892	780	475	12100				
	0,01	0,16	4460	780	475	12100				
	0,02	0,20	3475	780	475	12100				
	0,02	0,25	2808	780	475	12100				
	0,02	0,28	2544	780	475	12100				
	0,03	0,30	2314	780	475	12100				
	0,03	0,36	1932	780	475	12100				
	0,04	0,40	1762	780	475	12100				
	0,04	0,45	1556	780	475	12100				
	0,05	0,51	1368	780	475	12100				
	0,06	0,64	1089	780	475	12100				
	0,07	0,80	880	780	475	12100	İRK İRK F	73 İR 52	151 152	51 55
	0,08	0,88	797	780	475	12100				
	0,09	1,0	697	780	475	12100				
	0,10	1,1	634	780	475	12100				
	0,12	1,3	529	780	475	12100				
	0,13	1,4	484	780	475	12100				
	0,14	1,6	426	780	475	12100				
	0,16	1,8	380	780	475	12100				
	0,18	2,1	335	780	475	12100				
	0,21	2,4	295	780	475	12100				
	0,24	2,7	260	780	475	12100				
	0,28	3,2	222	780	475	12100				
	0,31	3,6	196	780	475	12100				
	0,36	4,0	173	780	475	12100				
	0,40	4,5	156	780	475	12100				
	0,45	5,1	138	780	475	12100				
	0,51	5,7	122	780	475	12100				
	0,16	1,8	388	780	475	12100	İRK İRK F	74	149 150	40 44
	0,20	2,3	305	780	475	12100				
	0,25	2,8	246	780	475	12100				
	0,29	3,3	210	780	475	12100				
	0,32	3,7	191	780	475	12100				
	0,37	4,3	163	780	475	12100				
	0,46	5,3	131	780	475	12100				
	0,51	5,9	119	780	475	12100				
	0,42	4,9	144	780	590	12100	İRK İRK F	73	147 148	38 42
	0,45	5,2	134	780	590	12100				
	0,48	5,6	125	780	590	12100				
	0,51	6,0	117	780	590	12100				
	0,65	7,6	91,96	780	590	12100				
	0,80	9,4	74,32	780	590	12100				



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Servis Faktörü Service Factor Service facteur $S_f=1$	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =700rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types		 ~kg
780 Nm	0,94	11	63,40	780	590	11000	İRK İRK F 73	147 148	38 42
	1,2	14	51,24	780	590	11000			
	1,3	15	46,41	780	590	11000			
	1,4	17	42,21	780	590	11000			
	1,7	20	35,25	780	590	10500			
	1,9	22	32,15	780	590	10500			
	2,1	25	28,39	780	590	10500			
	2,4	28	24,95	780	590	10500			
	2,7	32	22,02	780	590	10500			
	3,1	36	19,51	780	590	10500			
	3,4	40	17,59	780	590	10500			
	3,9	45	15,53	780	590	10500			
	4,3	51	13,75	780	590	10000			
	4,9	57	12,21	780	590	10000			
	5,1	60	11,75	780	590	10000			
	5,5	65	10,85	780	590	10000			
	5,8	67	10,38	780	590	10000			
	6,5	76	9,190	780	590	10000			
	7,3	86	8,156	780	590	10000			
	8,3	97	7,247	780	590	10000			
	8,8	102	6,833	780	590	10000			
	9,2	107	6,525	780	590	10000			
	10	121	5,798	780	590	10000			
	11	128	5,467	780	590	10000			
1500 Nm	0,01	0,04	17533	1500	475	19180	İRK İRK F 83 İR 53	157 158	84 90
	0,01	0,05	15157	1500	475	19180			
	0,01	0,06	11888	1500	475	19180			
	0,01	0,07	9908	1500	475	19180			
	0,01	0,08	8812	1500	475	19180			
	0,02	0,09	7420	1500	475	19180			
	0,02	0,11	6435	1500	475	19180			
	0,02	0,12	5762	1500	475	19180			
	0,03	0,15	4677	1500	475	19180			
	0,03	0,17	4097	1500	475	19180			
	0,03	0,19	3599	1500	475	19180			
	0,04	0,22	3199	1500	475	19180			
	0,04	0,24	2919	1500	475	19180			
	0,05	0,27	2577	1500	475	19180			
	0,05	0,31	2291	1500	475	19180			
	0,06	0,34	2047	1500	475	19180			
	0,06	0,38	1860	1500	475	19180			
	0,07	0,42	1669	1500	475	19180			
	0,08	0,47	1502	1500	475	19180			
	0,09	0,51	1378	1500	475	19180			
	0,10	0,57	1226	1500	475	19180			
	0,11	0,67	1041	1500	450	19180	İRK İRK F 83 İR 52	157 158	83 89
	0,13	0,77	915	1500	450	19180			
	0,15	0,87	801	1500	450	19180			
	0,17	0,98	712	1500	450	19180			
	0,19	1,1	629	1500	450	19180			
	0,21	1,2	562	1500	450	19180			
	0,26	1,5	454	1500	450	19180			
	0,29	1,7	416	1500	450	19180			
	0,32	1,9	370	1500	450	19180			
	0,36	2,1	329	1500	450	19180			
	0,40	2,4	294	1500	450	19180			
	0,45	2,7	264	1500	450	19180			
	0,52	3,1	228	1500	450	19180			



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
1500 Nm	0,19	1,1	619	1500	590	19180	İRK İRK F	84	155 156	74 80
	0,21	1,3	546	1500	590	19180				
	0,24	1,4	486	1500	590	19180				
	0,25	1,5	459	1500	590	19180				
	0,29	1,7	405	1500	590	19180				
	0,32	1,9	360	1500	590	19180				
	0,36	2,2	322	1500	590	19180				
	0,45	2,7	261	1500	590	19180				
	0,49	3,0	236	1500	2150	19180	İRK İRK F	83	153 154	70 76
	0,56	3,4	204	1500	2150	19180				
	0,64	3,9	180	1500	2150	19180				
	0,69	4,2	166	1500	2150	19180				
	0,80	4,9	143	1500	2150	19180				
	0,91	5,5	127	1500	2150	19180				
	1,0	6,2	113	1500	2150	19180				
	1,1	6,6	106	1500	2150	19180				
	1,2	7,5	93,77	1500	2150	19180				
	1,4	8,4	83,39	1500	2150	19180				
	1,5	9,4	74,67	1500	2150	19180				
	1,9	12	60,61	1500	2150	19180				
	2,2	13	53,24	1500	2150	19180				
	2,4	15	47,32	1500	2150	19180				
	2,7	17	42,28	1500	2150	19180				
	3,0	18	37,93	1500	2150	19180				
	3,4	21	34,15	1500	2150	19180				
	3,7	22	31,34	1500	2150	19180				
	4,1	25	27,86	1500	2150	19180				
	4,6	28	24,89	1500	2150	19180				
	5,2	31	22,33	1500	2150	19180				
	6,0	36	19,33	1500	2150	19180				
	6,7	41	17,27	1500	2150	19180				
	7,4	45	15,50	1500	2150	19180				
	8,2	50	13,95	1500	2150	19180				
	9,1	56	12,59	1500	2150	19180				
	10	61	11,39	1500	2150	19180				
	11	68	10,31	1500	2150	19180				
	12	75	9,350	1500	2150	19180				
	14	84	8,312	1500	2150	19180				
	15	93	7,528	1500	2150	19180				
	17	103	6,824	1500	2150	19180				
	19	113	6,189	1500	2150	19180				
	25	152	4,609	1500	2150	19180				
2700 Nm	0,02	0,05	14401	2700	590	24500	İRK İRK F	93 İR 63	163 164	149 160
	0,02	0,05	13063	2700	590	24500				
	0,02	0,06	11908	2700	590	24500				
	0,02	0,07	9885	2700	590	24500				
	0,02	0,08	8813	2700	590	24500				
	0,03	0,09	7913	2700	590	24500				
	0,03	0,10	7146	2700	590	24500				
	0,04	0,12	5699	2700	590	24500				
	0,04	0,14	5137	2700	590	24500				
	0,05	0,17	4218	2700	590	24500				
	0,05	0,18	3962	2700	590	24500				
	0,06	0,20	3484	2700	590	24500				
	0,07	0,22	3206	2700	590	24500				
	0,08	0,27	2632	2700	590	24500				
	0,09	0,30	2338	2700	590	24500				
	0,11	0,35	2002	2700	590	24500				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2700 Nm	0,12	0,39	1797	2700	590	24500	İRK İRK F	93 İR 63	163	149
	0,13	0,43	1620	2700	590	24500			164	160
	0,15	0,48	1466	2700	590	24500				
	0,18	0,58	1210	2700	590	24500				
	0,19	0,63	1116	2700	550	24500				
	0,21	0,70	995	2700	550	24500				
	0,24	0,78	893	2700	550	24500	İRK İRK F	93 İR 62		
	0,33	1,1	643	2700	550	24500				
	0,37	1,2	580	2700	550	24500				
	0,41	1,3	525	2700	550	24500				
	0,45	1,5	476	2700	550	24500				
	0,48	1,6	447	2700	550	24500			163	144
	0,59	1,9	362	2700	550	24500			164	155
	0,65	2,1	327	2700	550	24500				
	0,76	2,5	280	2700	550	24500				
	0,85	2,8	252	2700	550	24500				
	0,94	3,1	227	2700	550	24500				
	1,0	3,4	205	2700	550	24500				
	1,1	3,8	186	2700	550	24500				
	0,42	1,4	502	2700	1200	24500	İRK İRK F	94		
	0,46	1,5	455	2700	1200	24500				
	0,51	1,7	415	2700	1200	24500				
	0,61	2,0	344	2700	1200	24500			161	125
	0,69	2,3	304	2700	1200	24500			162	136
	0,78	2,6	271	2700	1200	24500				
	0,87	2,9	243	2700	1200	24500				
	0,96	3,2	219	2700	1200	24500				
	1,1	3,6	195	2700	1200	24500	İRK İRK F	93		
	1,2	3,9	179	2700	2600	24500				
	1,3	4,4	158	2700	2600	24500				
	1,4	4,7	149	2700	2600	24500				
	1,5	5,2	134	2700	2600	24500				
	1,7	5,8	121	2700	2600	24500				
	1,9	6,4	109	2700	2600	24500				
	2,1	7,0	99,73	2700	2600	24500				
	2,5	8,5	82,79	2700	2600	24500				
	2,8	9,5	73,81	2700	2600	24500				
	3,1	11	66,27	2700	2600	24500				
	3,5	12	59,85	2700	2600	24500				
	3,9	13	53,18	2700	2600	24500				
	4,3	15	47,73	2700	2600	24500				
	4,8	16	43,03	2700	2600	24500				
5,4	18	38,24	2700	2600	24500	159			125	
5,9	20	35,33	2700	2600	24500	160			136	
6,2	21	33,19	2700	2600	24500					
7,0	24	29,78	2700	2600	24500					
7,7	26	26,85	2700	2600	24500					
8,7	29	23,86	2700	2600	24500					
9,4	32	22,05	2700	2600	24500					
10,0	34	20,80	2700	2600	24500					
11	38	18,67	2700	2600	24500					
12	42	16,83	2700	2600	24500					
14	47	14,96	2700	2600	24500					
15	51	13,82	2700	2600	24500					
16	56	12,57	2700	2600	24500					
18	61	11,46	2700	2600	24500					
20	67	10,46	2700	2600	24500					
22	73	9,561	2700	2600	24500					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
2700 Nm	23	76	9,190	2700	2600	24500	İRK İRK F	93	159 160	125 136
	25	84	8,377	2700	2600	24500				
	27	92	7,647	2700	2600	24500				
	30	100	6,989	2700	2600	24500				
	33	113	6,202	2700	2600	24500				
4300 Nm	0,02	0,04	18013	4300	590	37000	İRK İRK F	103 İR 63	169 170	209 229
	0,02	0,04	15999	4300	590	37000				
	0,02	0,05	14335	4300	590	37000				
	0,03	0,05	12937	4300	590	37000				
	0,03	0,06	11746	4300	590	37000				
	0,04	0,08	9169	4300	590	37000				
	0,04	0,09	7738	4300	590	37000				
	0,05	0,10	6820	4300	590	37000				
	0,06	0,13	5423	4300	590	37000				
	0,08	0,16	4412	4300	590	37000				
	0,09	0,17	4004	4300	590	37000				
	0,10	0,20	3486	4300	590	37000				
	0,12	0,25	2772	4300	590	37000				
	0,15	0,31	2255	4300	590	37000				
	0,17	0,34	2047	4300	590	37000				
	0,17	0,35	1993	4300	590	37000				
	0,22	0,45	1572	4300	590	37000				
	0,24	0,49	1427	4300	590	37000				
	0,26	0,54	1304	4300	590	37000				
	0,29	0,60	1174	4300	590	37000				
	0,33	0,66	1061	4300	590	37000				
	0,39	0,80	877	4300	590	37000				
	0,46	0,92	757	4300	590	37000				
	0,56	1,1	616	4300	590	37000				
	0,62	1,3	559	4300	590	37000				
	0,68	1,4	509	4300	590	37000				
	0,80	1,6	432	4300	590	37000				
	0,88	1,8	392	4300	590	37000				
	0,97	2,0	357	4300	590	37000				
	1,1	2,2	314	4300	550	37000				
	1,2	2,5	285	4300	550	37000				
	1,3	2,7	261	4300	550	37000				
	1,4	3,0	235	4300	550	37000				
	1,6	3,3	212	4300	550	37000				
	1,9	4,0	175	4300	550	37000				
	0,55	1,1	612	4300	1550	37000				
	0,62	1,3	544	4300	1550	37000				
	0,68	1,4	490	4300	1550	37000				
	0,76	1,6	439	4300	1550	37000				
	0,84	1,8	396	4300	1550	37000				
	0,93	1,9	360	4300	1550	37000				
	1,1	2,3	301	4300	1550	37000				
	1,3	2,8	254	4300	1550	37000				
1,5	3,1	224	4300	1550	37000					
1,9	3,9	178	4300	1550	37000					
2,1	4,4	160	4300	1550	37000					
1,9	4,1	172	4300	3150	37000					
2,1	4,4	160	4300	3150	37000					
2,3	5,0	141	4300	3150	37000					
2,6	5,6	125	4300	3150	37000					
2,9	6,2	112	4300	3150	37000					
3,3	6,9	101	4300	3150	37000					
3,6	7,6	91.80	4300	3150	37000					



Konik Dişli Redüktörler Güç ve Devir Tablosu
Helical Bevel Gear Units Performance Tables / Réducteurs à couple conique table des performances



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	i Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
4300 Nm	4,3	9,1	76,79	4300	3150	37000	İRK İRK F	103	165 166	189 209
	5,1	11	64,81	4300	3150	37000				
	5,8	12	57,11	4300	3150	37000				
	7,3	15	45,42	4300	3150	37000				
	8,1	17	40,87	4300	3150	37000				
	8,9	19	36,95	4300	3150	37000				
	9,8	21	33,53	4300	3150	37000				
	11	23	30,65	4300	3150	37000				
	12	25	27,58	4300	3150	37000				
	13	28	24,93	4300	3150	37000				
	15	31	22,63	4300	3150	37000				
	16	34	20,60	4300	3150	37000				
	18	37	18,81	4300	3150	37000				
	19	39	17,80	4300	3150	37000				
	21	44	16,01	4300	3150	37000				
	23	48	14,48	4300	3150	37000				
	25	53	13,14	4300	3150	37000				
	28	59	11,96	4300	3150	37000				
	30	64	10,92	4300	3150	37000				
	33	70	9,993	4300	3150	37000				
	36	76	9,159	4300	3150	37000				
	43	91	7,724	4300	3150	37000				
	46	99	7,102	4300	3150	37000				
	50	107	6,533	4300	3150	37000				
8000 Nm	0,04	0,04	15860	8000	1200	60800	İRK İRK F	123 İR 73	175 176	321 351
	0,04	0,05	14323	8000	1200	60800				
	0,05	0,05	13014	8000	1200	60800				
	0,05	0,06	11886	8000	1200	60800				
	0,06	0,06	10903	8000	1200	60800				
	0,07	0,07	9721	8000	1200	60800				
	0,07	0,08	8585	8000	1200	60800				
	0,08	0,09	7630	8000	1200	60800				
	0,10	0,11	6596	8000	1200	60800				
	0,11	0,12	5893	8000	1200	60800				
	0,12	0,13	5288	8000	1200	60800				
	0,14	0,15	4526	8000	1200	60800				
	0,16	0,17	4023	8000	1200	60800				
	0,18	0,19	3594	8000	1200	60800				
	0,20	0,22	3225	8000	1200	60800				
	0,22	0,24	2903	8000	1200	60800				
	0,23	0,25	2781	8000	1200	60800				
	0,26	0,28	2472	8000	1200	60800				
	0,29	0,32	2208	8000	1200	60800				
	0,32	0,35	1982	8000	1200	60800				
	0,36	0,39	1784	8000	1200	60800				
	0,40	0,43	1610	8000	1200	60800				
	0,44	0,48	1456	8000	1200	60800				
	0,49	0,53	1319	8000	1200	60800				
	0,54	0,59	1195	8000	1200	60800				
	0,59	0,65	1084	8000	1200	60800				
	0,32	0,35	1983	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	0,36	0,40	1743	8000	1200	60800				
	0,41	0,45	1549	8000	1200	60800				
	0,46	0,50	1389	8000	1200	60800				
	0,50	0,56	1255	8000	1200	60800				
	0,55	0,61	1140	8000	1200	60800				
	0,61	0,67	1041	8000	1200	60800				
	0,74	0,82	852	8000	1200	60800				



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
8000 Nm	0,84	0,93	752	8000	1200	60800	İRK İRK F	123 İR 72	175 176	319 349
	0,95	1,0	668	8000	1200	60800				
	1,1	1,2	597	8000	1200	60800				
	1,2	1,3	536	8000	1200	60800				
	1,4	1,5	458	8000	1200	60800				
	1,6	1,7	408	8000	1200	60800				
	1,7	1,9	364	8000	1200	60800				
	1,9	2,1	327	8000	1200	60800				
	2,2	2,4	294	8000	1200	60800				
	2,2	2,5	282	8000	1200	60800				
	2,5	2,8	250	8000	1200	60800				
	2,8	3,1	228	8000	1200	60800				
	3,1	3,5	201	8000	1200	60800				
	3,5	3,9	181	8000	1200	60800				
	3,9	4,3	163	8000	1200	60800				
	4,3	4,7	148	8000	1200	60800				
	4,7	5,2	134	8000	1200	60800				
	5,2	5,8	121	8000	1200	60800				
	1,4	1,6	446	8000	1550	60000	İRK İRK F	124	173 174	302 332
	1,5	1,7	403	8000	1550	60000				
	1,7	1,9	366	8000	1550	60000				
	1,9	2,1	330	8000	1550	55000				
	2,1	2,3	302	8000	1550	55000				
	2,3	2,6	273	8000	1550	55000				
	2,5	2,8	249	8000	1550	55000				
	2,7	3,1	229	8000	1550	50000				
	3,1	3,4	204	8000	1550	50000				
	3,5	3,9	180	8000	1550	50000				
	3,9	4,4	160	8000	1550	50000				
	4,4	4,9	143	8000	1550	50000				
	4,2	4,8	147	8000	3750	60000	İRK İRK F	123	171 172	310 340
	4,8	5,4	129	8000	3750	60000				
	5,4	6,1	115	8000	3750	60000				
	6,0	6,8	103	8000	3750	55000				
	6,6	7,5	92,73	8000	3750	55000				
	7,3	8,3	84,26	8000	3750	55000				
	8,0	9,1	76,95	8000	3750	55000				
	8,7	9,9	70,59	8000	3750	50000				
	9,7	11	62,94	8000	3750	50000				
	11	13	55,58	8000	3750	50000				
	12	14	49,40	8000	3750	50000				
	14	16	44,14	8000	3750	50000				
	15	18	39,60	8000	3750	45000				
	18	21	33,90	8000	3750	45000				
	20	23	30,13	8000	3750	40000				
	23	26	26,92	8000	3750	40000				
	25	29	24,15	8000	3750	40000				
	28	32	21,74	8000	3750	40000				
	29	34	20,83	8000	3750	40000				
	33	38	18,51	8000	3750	40000				
	37	42	16,54	8000	3750	35000				
	41	47	14,84	8000	3750	35000				
	46	52	13,36	8000	3750	35000				
	51	58	12,06	8000	3750	35000				
	56	64	10,90	8000	3750	25000				
	62	71	9,876	8000	3750	25000				
	69	78	8,953	8000	3750	25000				
	76	86	8,120	8000	3750	25000				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
13000 Nm	0,05	0,03	21208	13000	1200	75000	İRK İRK F	143 İR 73	181 182	594 644
	0,06	0,04	18335	13000	1200	75000				
	0,07	0,05	14883	13000	1200	75000				
	0,08	0,06	12431	13000	1200	75000				
	0,10	0,06	10939	13000	1200	75000				
	0,11	0,07	9706	13000	1200	75000				
	0,12	0,08	8552	13000	1200	75000				
	0,14	0,09	7589	13000	1200	75000				
	0,15	0,10	6779	13000	1200	75000				
	0,17	0,11	6090	13000	1200	75000				
	0,19	0,13	5495	13000	1200	75000				
	0,21	0,14	5059	13000	1200	75000				
	0,23	0,16	4489	13000	1200	75000				
	0,26	0,17	4010	13000	1200	75000				
	0,29	0,19	3602	13000	1200	75000				
	0,32	0,22	3251	13000	1200	75000				
	0,38	0,26	2728	13000	1200	75000				
	0,46	0,31	2245	13000	1200	75000				
	0,56	0,38	1866	13000	1200	75000				
	0,59	0,40	1757	13000	1200	75000				
	0,72	0,48	1446	13000	1200	75000				
	0,82	0,56	1259	13000	1200	75000				
	0,93	0,63	1108	13000	1200	75000				
	1,0	0,71	983	13000	1200	75000				
	1,2	0,81	866	13000	1200	75000				
	1,3	0,91	769	13000	1200	75000				
	1,5	1,0	686	13000	1200	75000				
	1,7	1,2	598	13000	1200	75000				
	1,9	1,3	530	13000	1200	75000				
	2,2	1,5	474	13000	1200	75000				
	2,7	1,8	384	13000	1200	71000				
	2,9	2,0	353	13000	1200	71000				
	3,3	2,2	314	13000	1200	71000				
	3,6	2,5	283	13000	1200	71000				
	4,1	2,8	250	13000	1200	71000				
	4,6	3,1	225	13000	1200	71000				
	5,1	3,4	203	13000	1200	71000				
	6,0	4,1	170	13000	1200	71000				
	6,8	4,6	151	13000	1200	71000				
	7,6	5,2	135	13000	1200	71000				
	1,8	1,2	564	13000	1550	75000				
	2,1	1,4	501	13000	1550	75000				
2,3	1,6	447	13000	1550	75000					
2,6	1,7	402	13000	1550	75000					
2,8	1,9	363	13000	1550	71000					
3,2	2,2	320	13000	1550	71000					
3,9	2,7	261	13000	1550	71000					
4,7	3,2	219	13000	1550	71000					
5,7	3,9	181	13000	1550	71000					
6,3	4,3	164	13000	1550	71000					
7,5	5,1	137	13000	1550	71000					
1,4	0,96	726	13000	3750	65000					
1,6	1,1	652	13000	3750	65000					
1,7	1,2	589	13000	3750	65000					
2,1	1,4	492	13000	3750	65000					
2,3	1,6	433	13000	3750	65000					
2,6	1,8	384	13000	3750	65000					
3,0	2,1	339	13000	3750	61500					



Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n ₁ =700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
13000 Nm	3,4	2,3	300	13000	3750	61500	İRK İRK F	144	179 180	615 665
	3,8	2,6	268	13000	3750	61500				
	4,2	2,9	241	13000	3750	55000				
	4,7	3,2	216	13000	3750	55000				
	5,0	3,4	204	13000	3750	55000				
	5,6	3,9	180	13000	3750	55000				
	6,4	4,4	159	13000	3750	50000				
	6,5	4,5	154	13000	3750	65000	İRK İRK F	143	177 178	607 657
	7,3	5,1	137	13000	3750	65000				
	8,1	5,7	123	13000	3750	65000				
	8,9	6,3	111	13000	3750	65000				
	11	7,5	93,10	13000	3750	65000				
	12	8,5	81,92	13000	3750	65000				
	14	9,6	72,69	13000	3750	61500				
	16	11	64,05	13000	3750	61500				
	18	12	56,83	13000	3750	61500				
	20	14	50,77	13000	3750	55000				
	22	15	45,61	13000	3750	55000				
	24	17	41,15	13000	3750	55000				
	26	18	37,89	13000	3750	55000				
	30	21	33,62	13000	3750	50000				
	33	23	30,03	13000	3750	50000				
	37	26	26,98	13000	3750	50000				
	41	29	24,35	13000	3750	45000				
	44	31	22,64	13000	3750	45000				
	49	34	20,43	13000	3750	45000				
	54	38	18,50	13000	3750	38500				
	59	42	16,81	13000	3750	38500				
	65	46	15,32	13000	3750	38500				
	71	50	13,98	13000	3750	38500				
	76	53	13,16	13000	3750	38500				
	84	59	11,92	13000	3750	36000				
	92	65	10,83	13000	3750	36000				
	101	71	9,864	13000	3750	36000				
	111	78	9,003	13000	3750	36000				
	121	85	8,231	13000	3750	36000				
	132	93	7,534	13000	3750	36000				
	144	101	6,902	13000	3750	36000				
18000 Nm	0,07	0,04	18995	18000	2500	110000	İRK İRK F	153 İR 93	189 190	885 975
	0,08	0,04	16945	18000	2500	110000				
	0,09	0,05	15222	18000	2500	110000				
	0,10	0,05	13356	18000	2500	110000				
	0,12	0,06	11442	18000	2500	110000				
	0,13	0,07	10326	18000	2500	110000				
	0,15	0,07	9376	18000	2500	110000				
	0,18	0,09	7843	18000	2500	110000				
	0,21	0,11	6470	18000	2500	110000				
	0,27	0,14	5152	18000	2500	110000				
	0,30	0,15	4609	18000	2500	110000				
	0,33	0,17	4133	18000	2500	110000				
	0,38	0,19	3627	18000	2500	110000				
	0,43	0,22	3237	18000	2500	110000				
	0,48	0,24	2905	18000	2500	110000				
	0,51	0,26	2731	18000	2500	110000				
	0,59	0,30	2340	18000	2500	110000				
	0,66	0,33	2098	18000	2500	110000				
	0,75	0,38	1841	18000	2500	110000				
	0,84	0,43	1643	18000	2500	110000				



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Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	0,74	0,38	1859	18000	2500	110000	İRK İRK F	153 İR 92	189 190	879 969
	0,84	0,43	1638	18000	2500	110000				
	1,1	0,54	1303	18000	2500	110000				
	1,2	0,61	1143	18000	2500	110000				
	1,4	0,72	977	18000	2500	110000				
	1,6	0,80	878	18000	2500	110000				
	1,7	0,88	795	18000	2500	110000				
	1,9	0,98	715	18000	2500	110000				
	2,2	1,1	626	18000	2500	110000				
	2,5	1,3	559	18000	2500	110000				
	2,8	1,4	502	18000	2500	110000				
	3,2	1,6	438	18000	2500	110000				
	3,5	1,8	391	18000	2500	110000				
	3,9	2,0	355	18000	2500	110000				
	4,4	2,2	316	18000	2500	110000				
	4,8	2,4	286	18000	2500	110000				
	5,3	2,7	260	18000	2500	110000				
	5,8	3,0	236	18000	2500	110000				
	7,0	3,6	196	18000	2500	110000				
	8,4	4,3	164	18000	2500	110000				
	3,4	1,7	408	18000	3750	110000	İRK İRK F	153 İR 102	191 192	973 1063
	3,8	1,9	364	18000	3750	110000				
	4,2	2,1	327	18000	3750	110000				
	4,7	2,4	295	18000	3750	110000				
	5,2	2,6	266	18000	3750	110000				
	5,6	2,8	246	18000	3750	110000				
	6,0	3,0	230	18000	3750	110000				
	7,2	3,6	192	18000	3750	110000				
	8,1	4,1	171	18000	3750	110000				
	9,0	4,6	153	18000	3750	110000				
	11	5,4	130	18000	3750	110000				
	12	6,0	116	18000	3750	110000				
	13	6,7	104	18000	3750	110000	İRK İRK F	154	187 188	847 937
	2,6	1,3	547	18000	3750	110000				
	2,8	1,4	496	18000	3750	110000				
	3,6	1,8	386	18000	3750	110000				
	4,1	2,0	344	18000	3750	110000				
	4,5	2,3	309	18000	3750	110000				
	5,2	2,6	271	18000	3750	110000				
	6,0	3,0	232	18000	3750	110000				
	6,7	3,4	208	18000	3750	110000				
	8,1	4,0	173	18000	3750	110000				
	9,0	4,5	156	18000	3750	110000				
	10	5,1	137	18000	3750	110000				
	11	5,7	122	18000	3750	110000	İRK İRK F	153	185 186	830 920
	9,8	5,0	141	18000	5250	110000				
	11	5,5	127	18000	5250	110000				
14	7,1	99,25	18000	5250	110000					
16	7,9	88,54	18000	5250	110000					
17	8,8	79,54	18000	5250	110000					
20	10	69,79	18000	5250	110000					
23	12	59,68	18000	5250	110000					
26	13	53,61	18000	5250	110000					
29	15	47,04	18000	5250	110000					
33	17	41,99	18000	5250	110000					
37	19	37,68	18000	5250	110000					
42	21	32,91	18000	5250	110000					
47	24	29,37	18000	5250	110000					



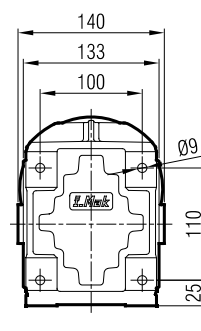
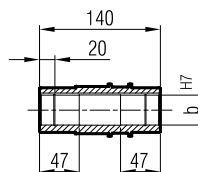
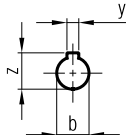
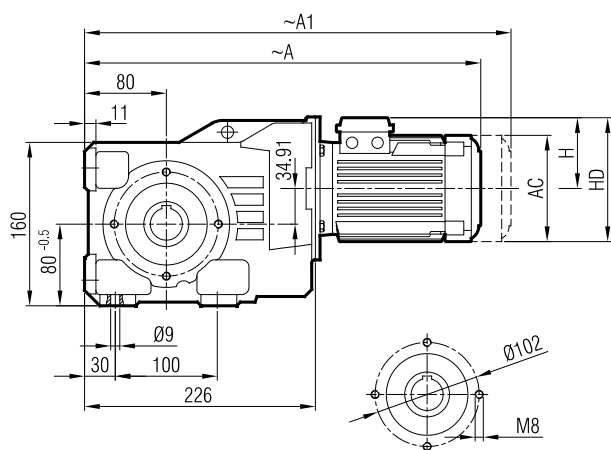
Servis Faktörü Service Factor Service facteur S _f =1	P ₁ GÜÇ Power Puissance [kW]	n ₂ Çıkış Devri Output Speeds Vitesse de sortie [r.p.m] (n1=700rpm)	İ Tahvil Ratio Rapport de réduction	M ₂ Çıkış Momenti Output Torque Couple de sortie [Nm]	F _{Q1} Rad. Yük Over Loads Charges radiales [N]	F _{Q10} Rad. Yük Over Loads Charges radiales [N]	Tip Type Types			 ~kg
18000 Nm	52	27	26,36	18000	5250	110000	İRK İRK F	153	185 186	830 920
	58	29	23,76	18000	5250	110000				
	64	33	21,50	18000	5250	110000				
	71	36	19,51	18000	5250	110000				
	78	39	17,75	18000	5250	110000				
	93	47	14,77	18000	5250	110000				
	112	57	12,35	18000	5250	110000				

İRK Serisi Redüktörler Ölçü Sayfaları

Dimensions Pages
Dimensions



İRKM 43-42

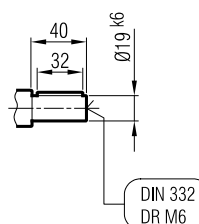
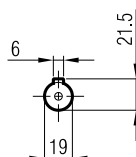
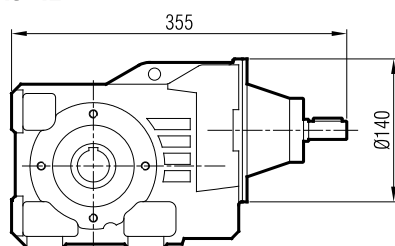


					71 M	80 M	90 S	90 L	100 L
				A	455	525	517	581	621
				A1	509	586	584	648	689
	Øb	y	z	AC	138.5	158	176	176	195
Std.	Ø30	8	33.3	H	123	136	141	141	161
Ops.	Ø35	10	38.3	HD	194	216	231	231	261

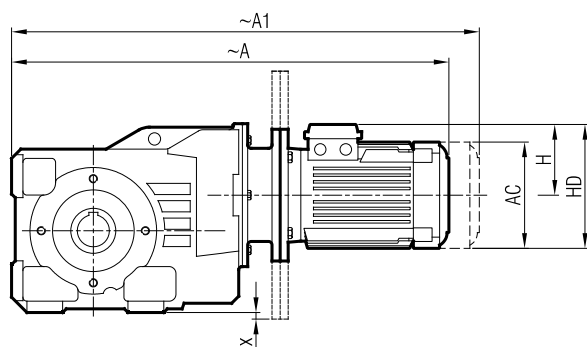
"A₁" Ölçüsü Frenli Motorlar içindir.

Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 43-42

İRKPM 43-42



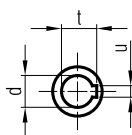
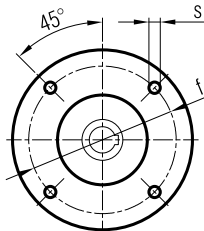
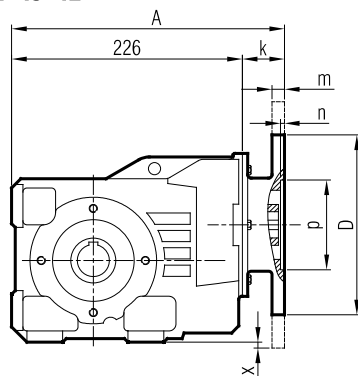
IEC	63 M B5	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5		
A	459	500	565	574	612	658		
A1	513	554	626	641	679	735		
AC	125	138.5	158	176	176	195		
H	108	123	136	141	141	161		
HD	171	194	216	231	231	261		
x	-	-	-	-	-	10		

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

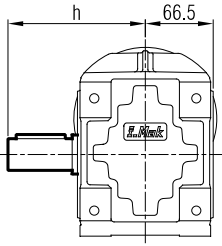
İRKP 43-42



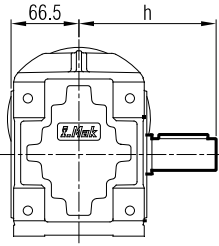
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x
63	B5	262	95	115	140	M8	35.5	8	4	11	12.8	4	-
71		270	110	130	160	M8	44	9	4	14	16.3	5	-
80		272	130	165	200	M10	46	12	5	19	21.8	6	-
90		272	130	165	200	M10	46	12	5	24	27.3	8	-
100		286	180	215	250	M12	60	14	5	28	31.3	8	10
63	B14	262	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4	-
71		271	70	85	105	Ø7	45	10	3	14	16.3	5	-
80		272	80	100	120	Ø7	46	8	4	19	21.8	6	-
90		272	95	115	140	Ø9	46	10	4	24	27.3	8	-
100		286	110	130	160	Ø9	60	10	4.5	28	31.3	8	-



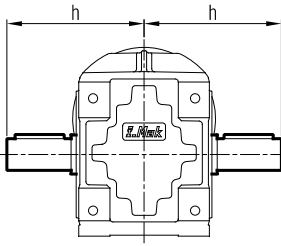
... -SR



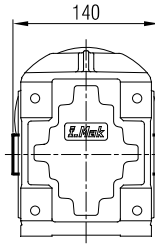
... -SL



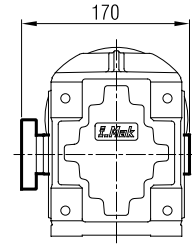
... -SD



... -H

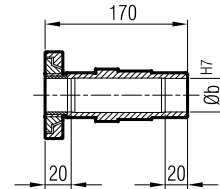
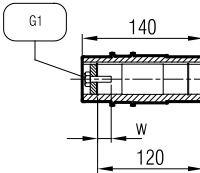
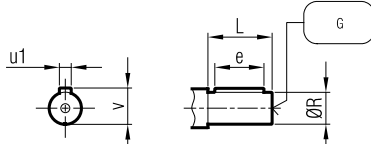


... -SDL / SDR

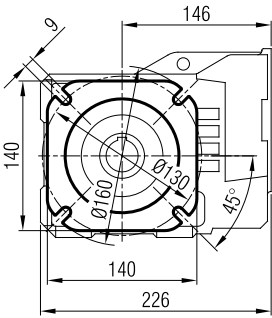


	ØR	L	e	u1	v	h	L1	G
Std.	Ø25	50	40	8	28.3	124	291	DIN 332 - DR M10
Ops.	Ø35	70	56	10	38.3	144	331	DIN 332 - DR M12

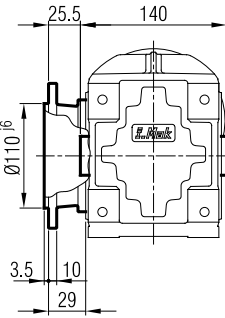
	Std.	Ops.
Øb	Ø30	Ø35
w	19.5	18.5
C	35	25
C1	20	20
G1	DIN 933 M12x30	DIN 933 M12x30



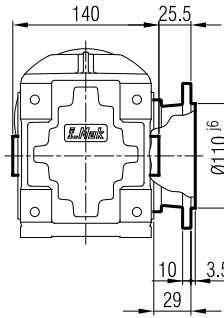
Standart / Standard



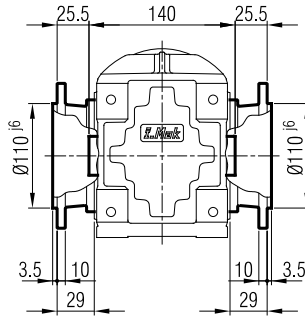
... -FR



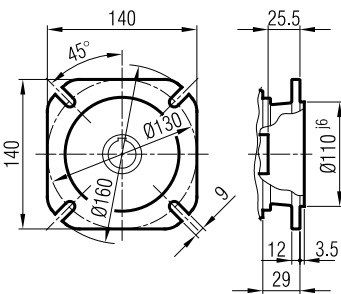
... -FL



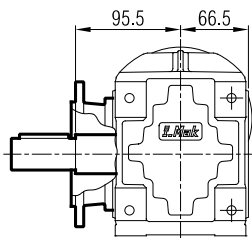
... -FD



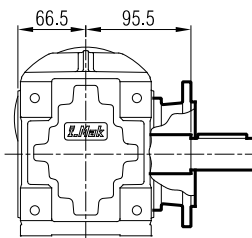
Opsiyonel / Option



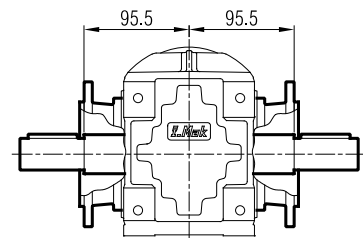
... -FR-SR



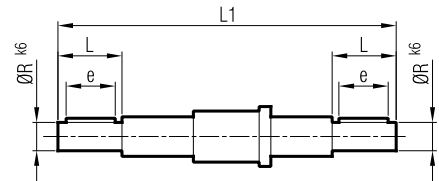
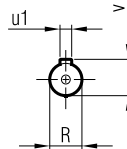
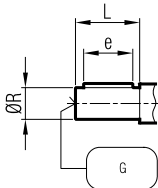
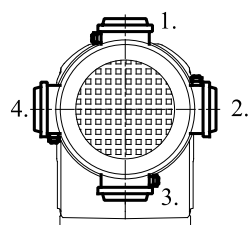
... -FL-SL



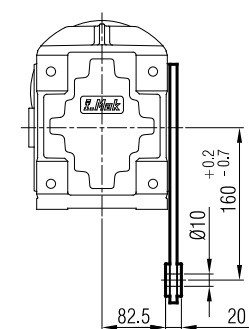
... -FD-SD



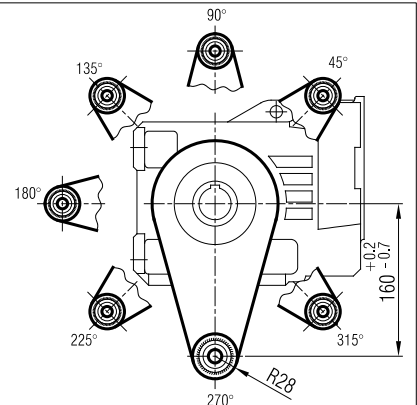
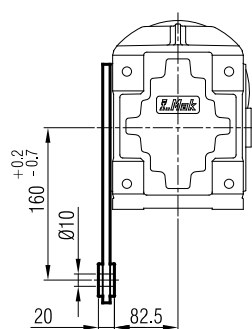
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

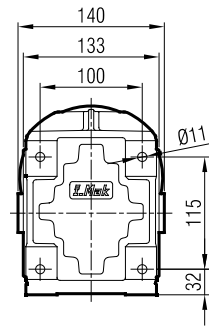
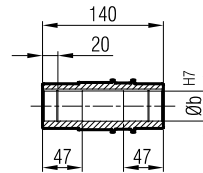
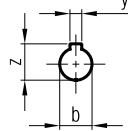
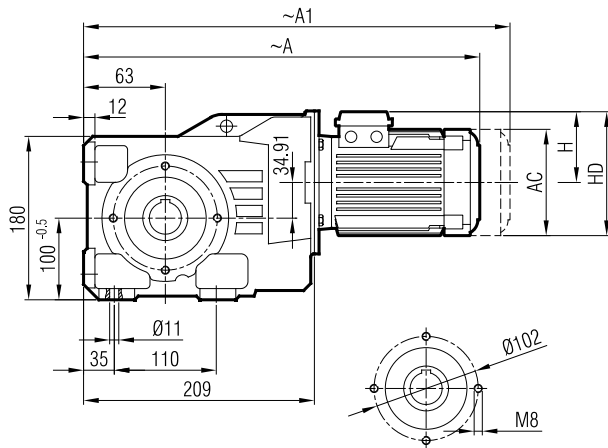


-TL



-TR



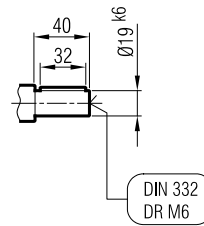
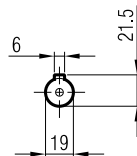
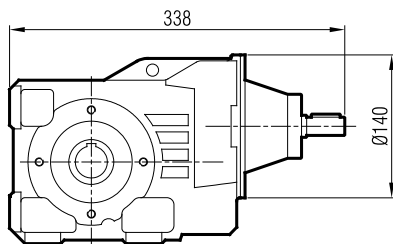
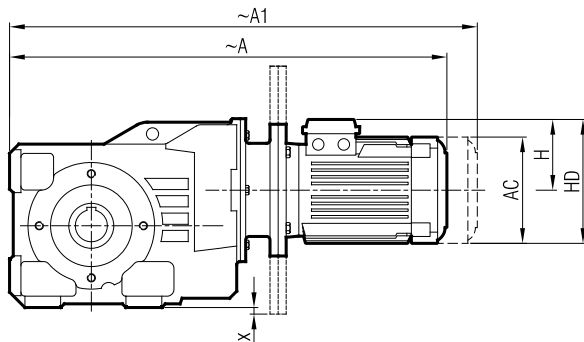

İRKM 53-52


	71 M	80 M	90 S	90 L	100 L
A	455	525	517	581	621
A1	509	586	584	648	689
AC	138.5	158	176	176	195
H	123	136	141	141	161
HD	194	216	231	231	261

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

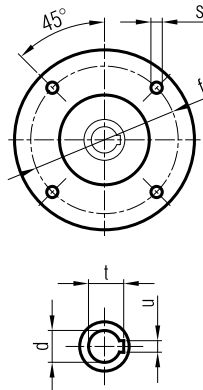
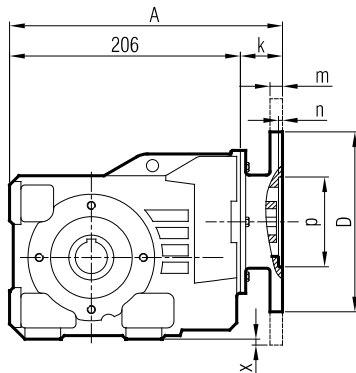
İRK 53-52

İRKPM 53-52


IEC	63 M B5	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5		
A	459	500	565	574	612	658		
A1	513	554	626	641	679	735		
AC	125	138.5	158	176	176	195		
H	108	123	136	141	141	161		
HD	171	194	216	231	231	261		
x	-	-	-	-	-	-		

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

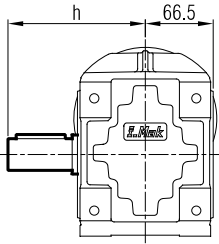
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKPM 53-52


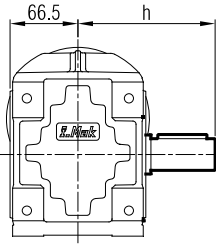
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x
63	262	95	115	140	M8	35.5	8	4	11	12.8	4	-
71	270	110	130	160	M8	44	9	4	14	16.3	5	-
80	272	130	165	200	M10	46	12	5	19	21.8	6	-
90	272	130	165	200	M10	46	12	5	24	27.3	8	-
100	286	180	215	250	M12	60	14	5	28	31.3	8	-
63	262	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4	-
71	271	70	85	105	Ø7	45	10	3	14	16.3	5	-
80	272	80	100	120	Ø7	46	8	4	19	21.8	6	-
90	272	95	115	140	Ø9	46	10	4	24	27.3	8	-
100	286	110	130	160	Ø9	60	10	4.5	28	31.3	8	-



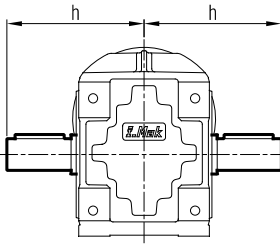
... -SR



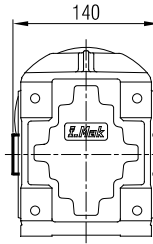
... -SL



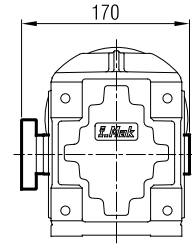
... -SD



... -H

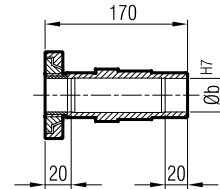
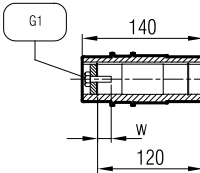
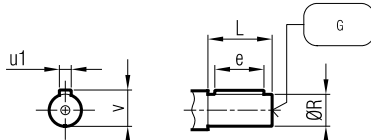


... -SDL / SDR

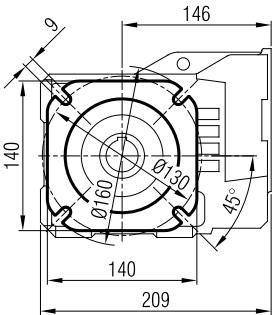


	ØR	L	e	u1	v	h	L1	G
Std.	Ø25	50	40	8	28.3	124	291	DIN 332 - DR M10
Ops.	Ø35	70	56	10	38.3	144	331	DIN 332 - DR M12

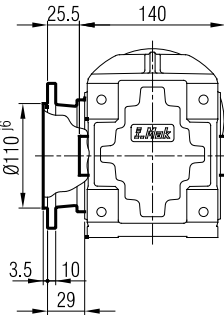
	Std.	Ops.
Øb	Ø30	Ø35
w	19.5	18.5
C	35	25
C1	20	20
G1	DIN 933 M12x30	DIN 933 M12x30



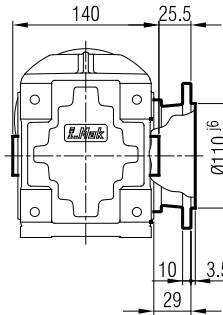
Standart / Standard



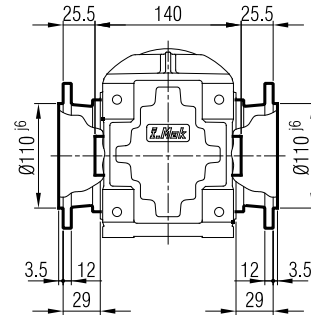
... -FR



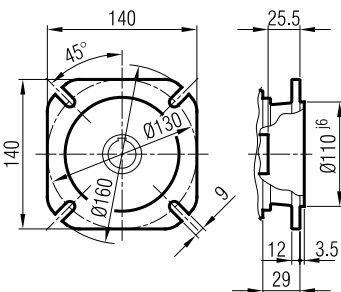
... -FL



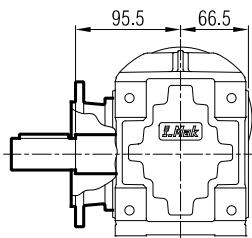
... -FD



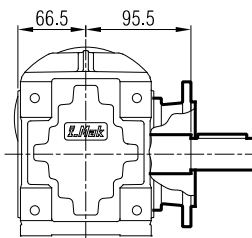
Opsiyonel / Option



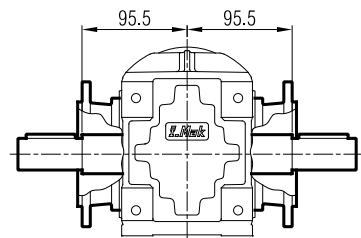
... -FR-SR



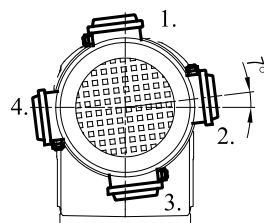
... -FL-SL



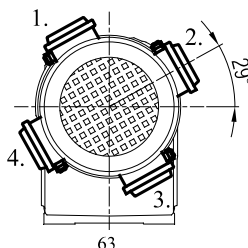
... -FD-SD



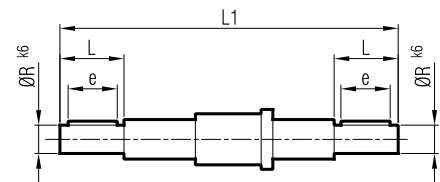
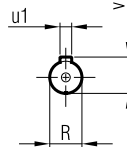
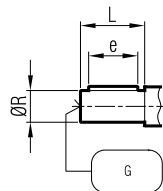
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



71-80-90-100
Tip/Type/Type

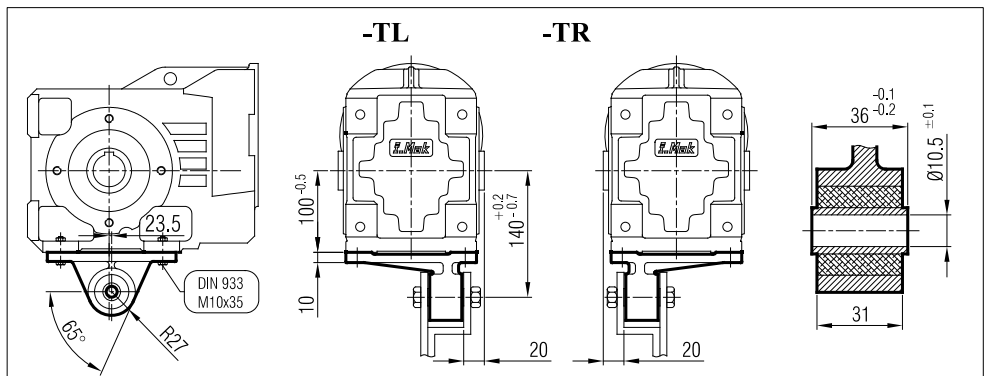


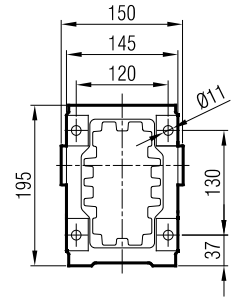
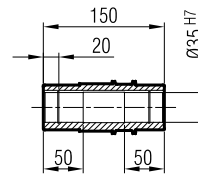
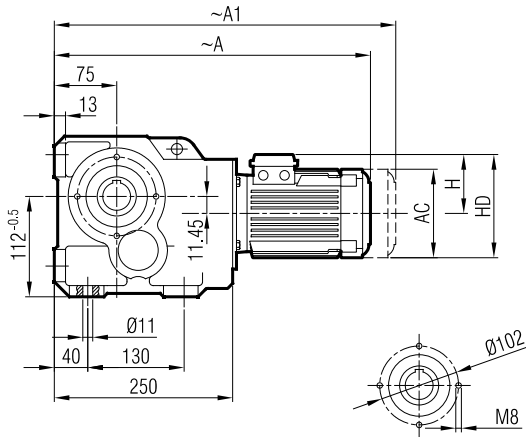
63
Tip/Type/Type



-TL

-TR



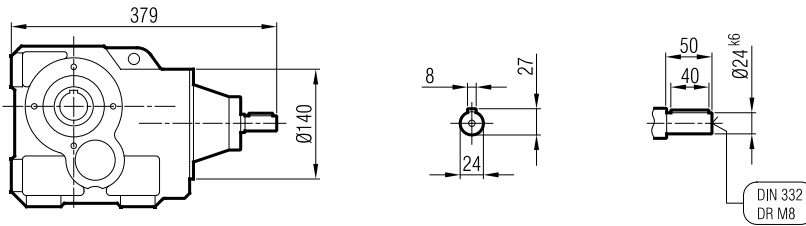
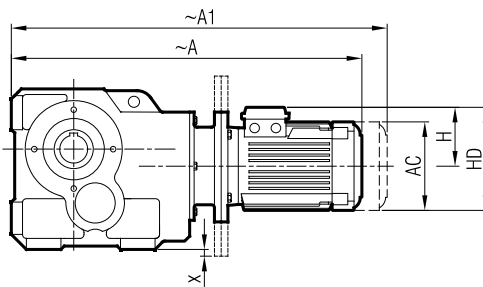

İRK 63


	71 M	80 M	90 S	90 L	100 L			
A	479	549	541	605	645			
A1	533	610	608	672	722			
AC	138.5	158	176	176	195			
H	123	136	141	141	161			
HD	194	216	231	231	261			

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

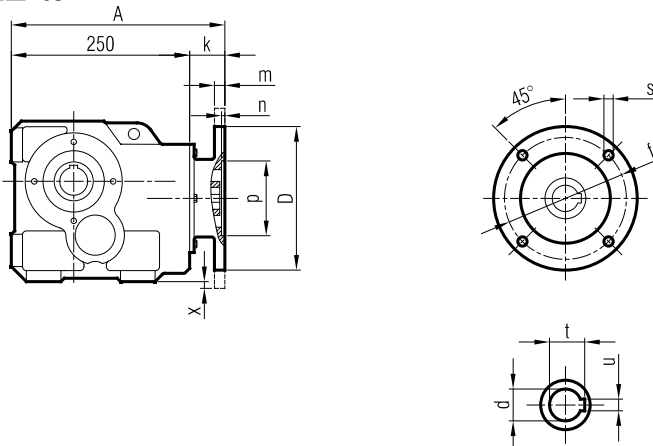
İRK 63

İRKPM 63


IEC	63 M B5	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5		
A	483	524	589	598	636	682		
A1	537	578	650	665	703	759		
AC	125	138.5	158	176	176	195		
H	108	123	136	141	141	161		
HD	171	194	216	231	231	261		
x	-	-	-	-	-	24		

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

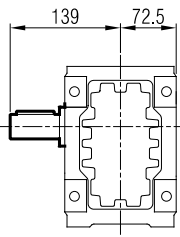
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 63


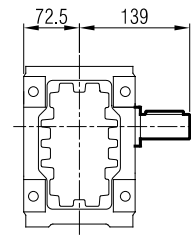
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x
63	286	95	115	140	M8	35.5	8	4	11	12.8	4	-
71	294	110	130	160	M8	44	9	4	14	16.3	5	-
80	296	130	165	200	M10	46	12	5	19	21.8	6	-
90	296	130	165	200	M10	46	12	5	24	27.3	8	-
100	310	180	215	250	M12	60	14	5	28	31.3	8	24
63	286	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4	-
71	295	70	85	105	Ø7	45	10	3	14	16.3	5	-
80	296	80	100	120	Ø7	46	8	4	19	21.8	6	-
90	296	95	115	140	Ø9	46	10	4	24	27.3	8	-
100	310	110	130	160	Ø9	60	10	4.5	28	31.3	8	-



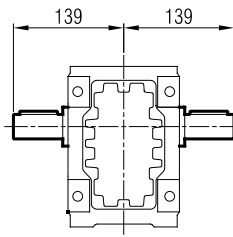
... -SR



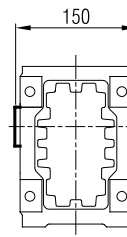
... -SL



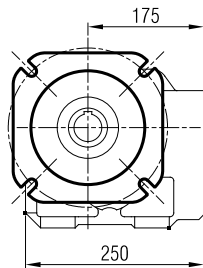
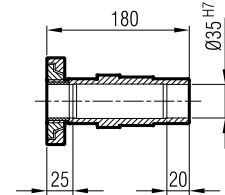
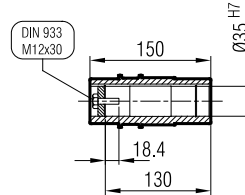
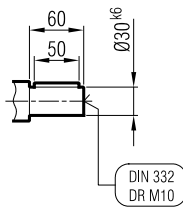
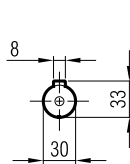
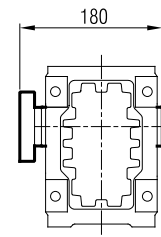
... -SD



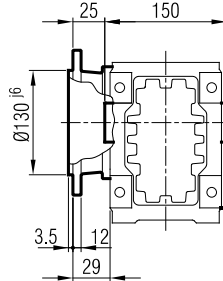
... -H



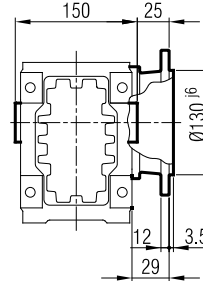
... -SDL / SDR



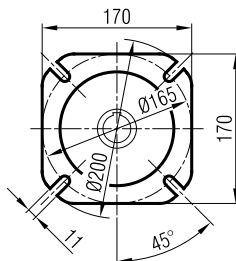
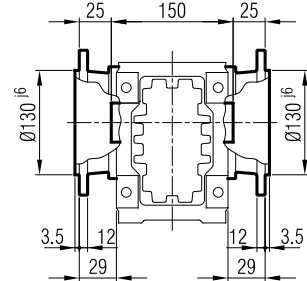
... -FR



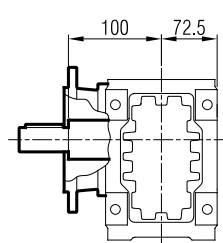
... -FL



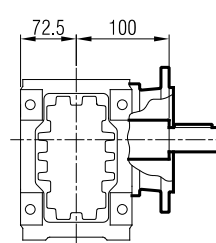
... -FD



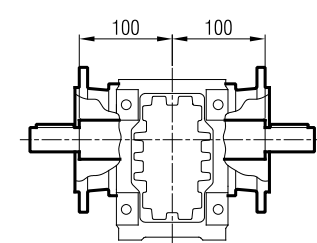
... -FR-SR



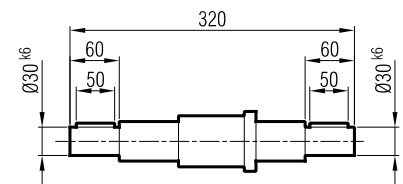
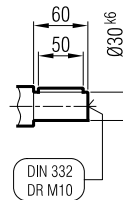
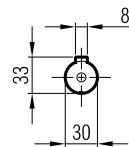
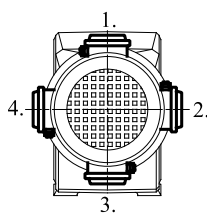
... -FL-SL



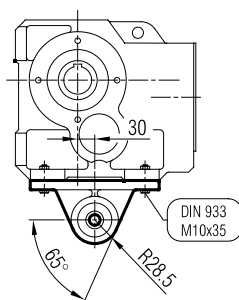
... -FD-SD



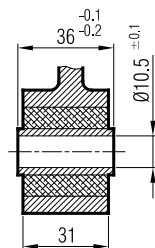
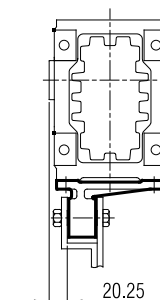
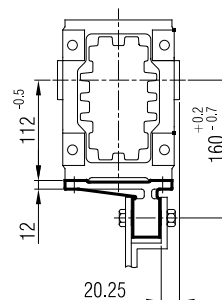
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

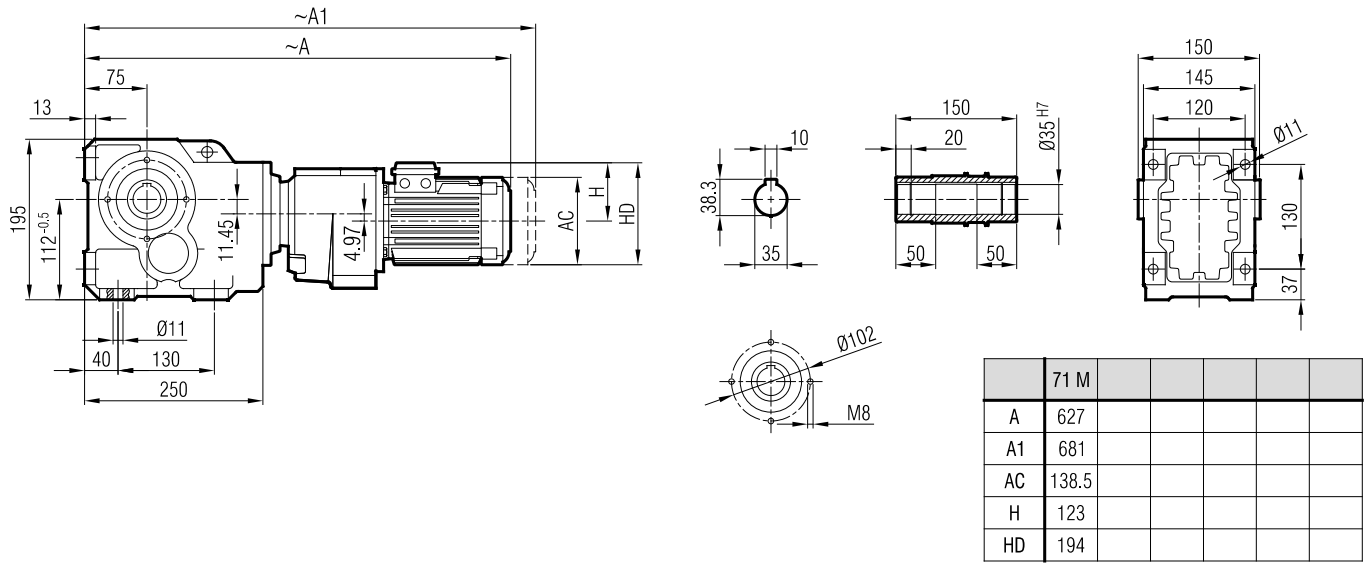
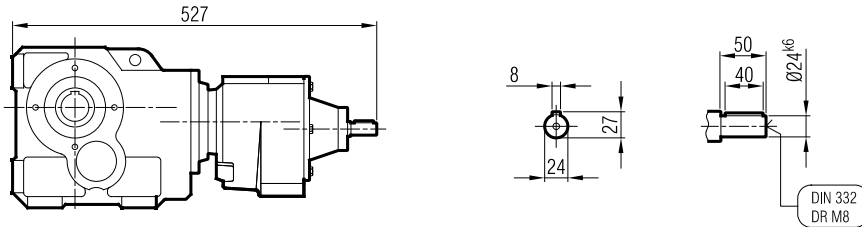


-TL

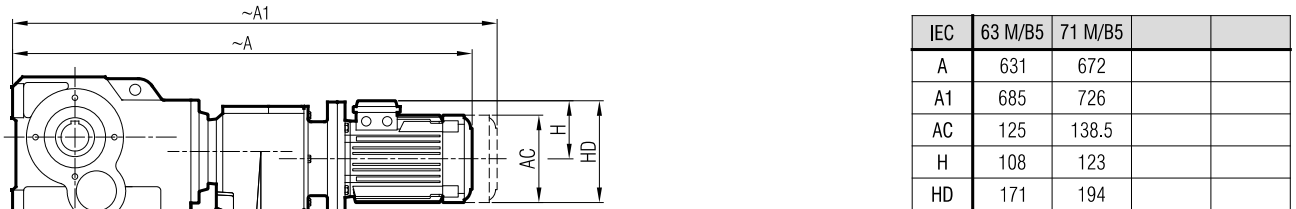


-TR

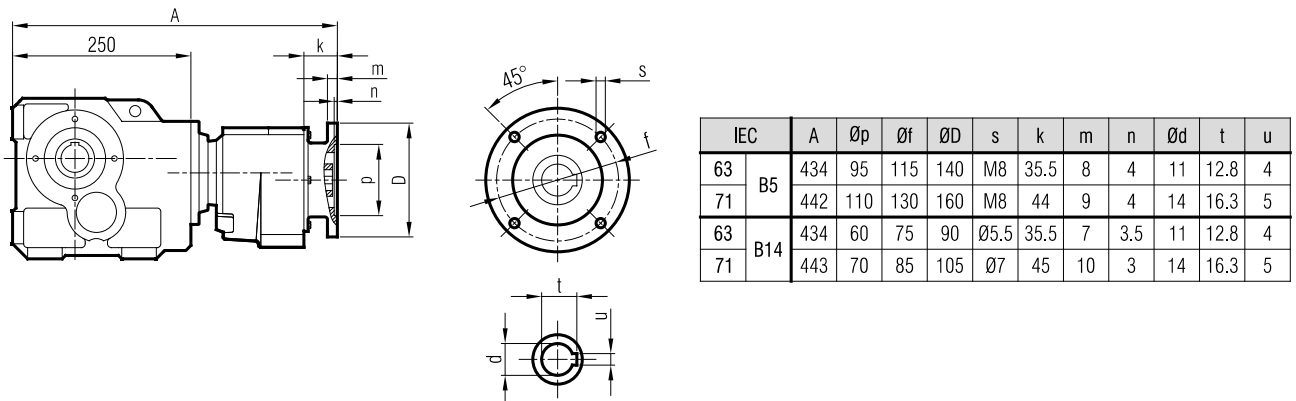



İRKM 63 İR52

İRK 63 İR 52
İRK 63 İR 53


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

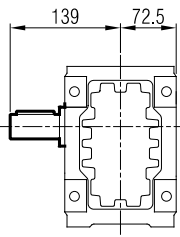
İRKPM 63 İR 52
İRKPM 63 İR 53


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

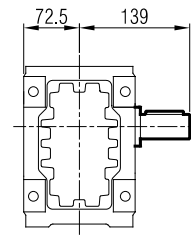
İRKPM 63 İR 52
İRKPM 63 İR 53




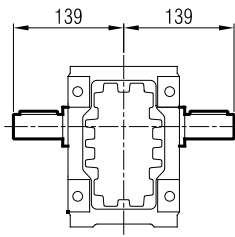
... -SR



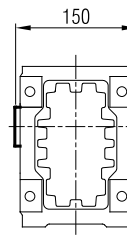
... -SL



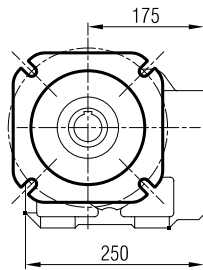
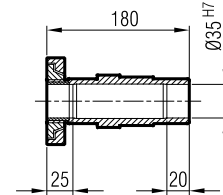
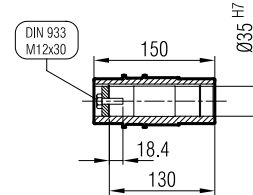
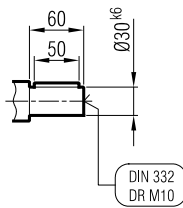
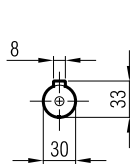
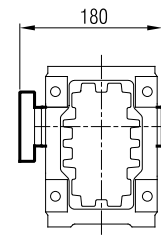
... -SD



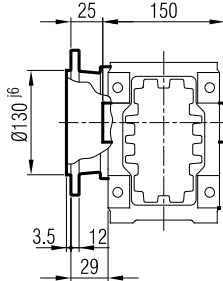
... -H



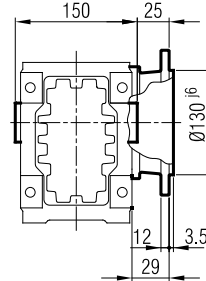
... -SDL / SDR



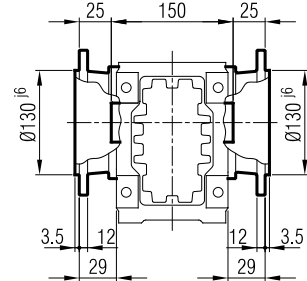
... -FR



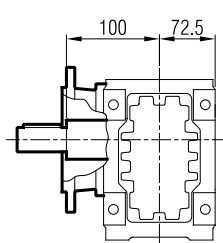
... -FL



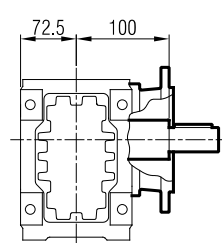
... -FD



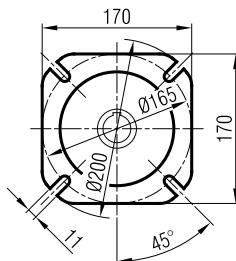
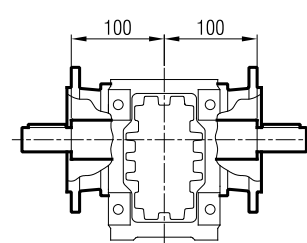
... -FR-SR



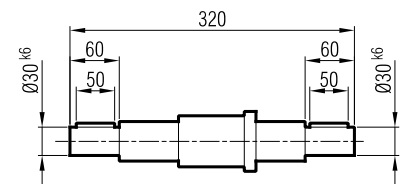
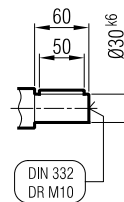
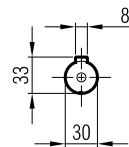
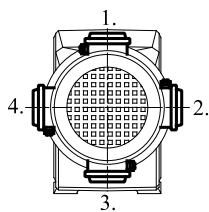
... -FL-SL



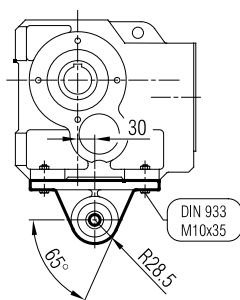
... -FD-SD



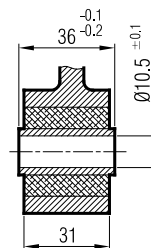
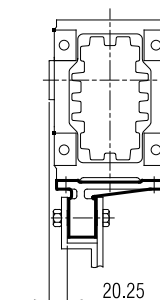
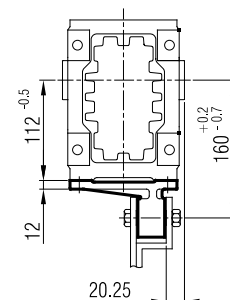
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



-TL

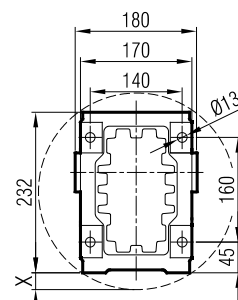
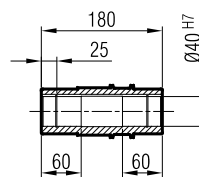
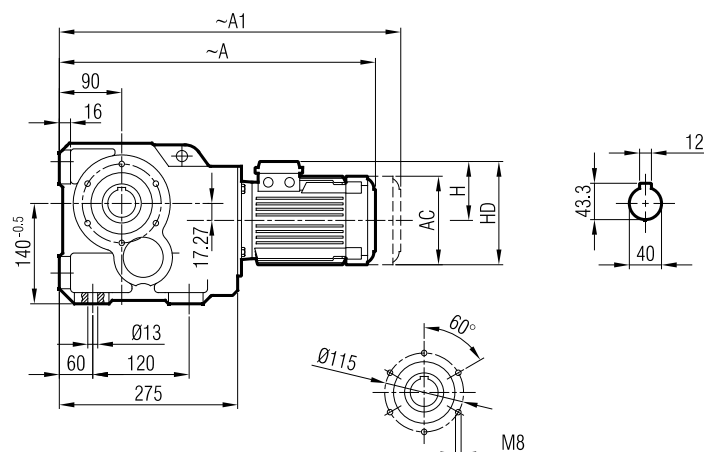


-TR





İRKM 73

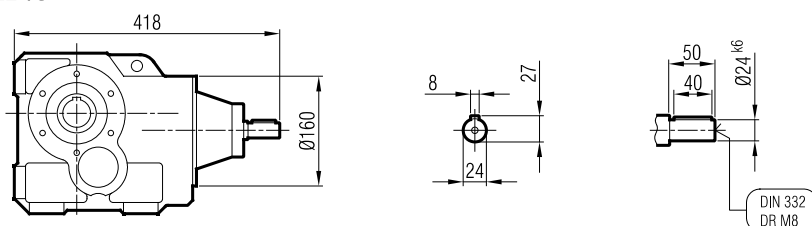
[illegible]

"A₁" Ölçüsü Frenli Motorlar içindir.

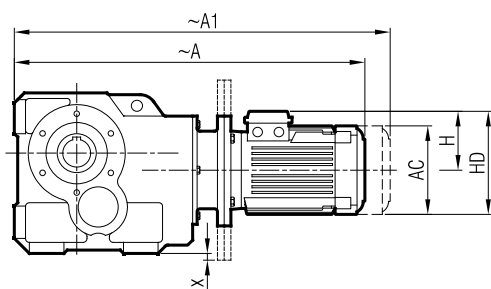
Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 73



İRKPM 73



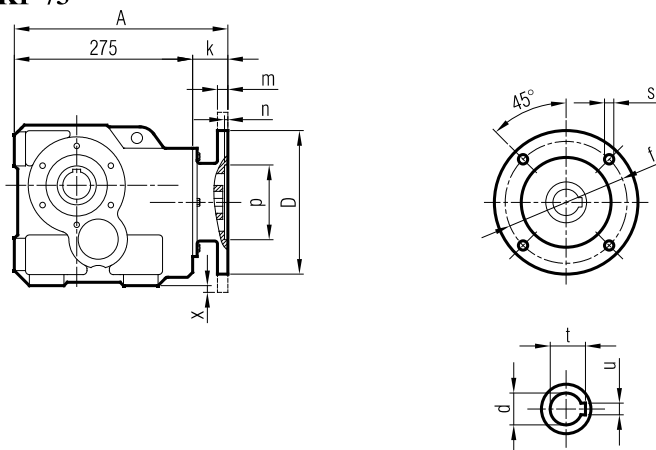
IEC	63 M B5	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5
A	508	550	618	627	665	710	682	755
A1	562	604	679	694	732	787	777	859
AC	125	138.5	158	176	176	195	220	262
H	108	123	136	141	141	161	170	193
HD	171	194	216	231	231	261	282	325
x	-	-	-	-	-	-	-	21

"A₁" Ölçüsü Frenli Motorlar içindir.

Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

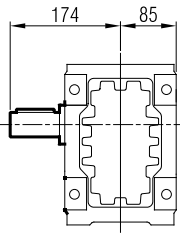
İRKP 73



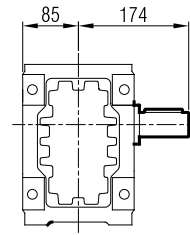
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x
63	B5	311	95	115	140	M8	35.5	8	4	11	12.8	4	-
71		320	110	130	160	M8	45	9	4	14	16.3	5	-
80		325	130	165	200	M10	50	12	5	19	21.8	6	-
90		325	130	165	200	M10	50	12	5	24	27.3	8	-
100		338	180	215	250	M12	63	14	5	28	31.3	8	-
112		338	180	215	250	M12	63	14	5	28	31.3	8	-
132		354	230	265	300	M12	79	17	6	38	41.3	10	21
63	B14	311	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4	-
71		320	70	85	105	Ø7	45	10	3	14	16.3	5	-
80		325	80	100	120	Ø7	50	8	4	19	21.8	6	-
90		325	95	115	140	Ø9	50	10	4	24	27.3	8	-
100		338	110	130	160	Ø9	63	10	4.5	28	31.3	8	-
112		338	110	130	160	Ø9	63	10	4.5	28	31.3	8	-
132		354	130	165	200	Ø11	79	12	5	38	41.3	10	-



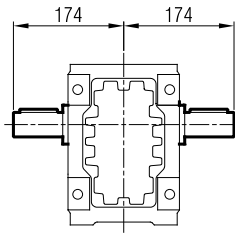
... -SR



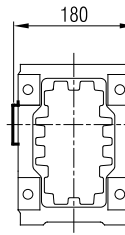
... -SL



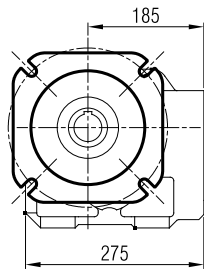
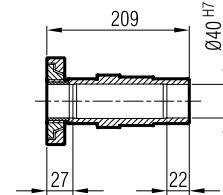
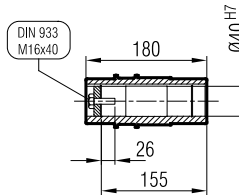
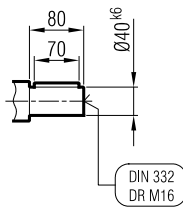
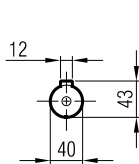
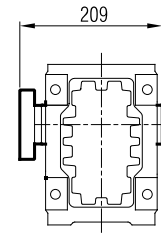
... -SD



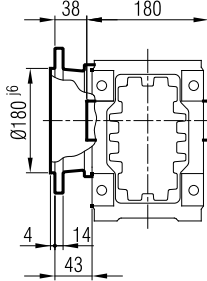
... -H



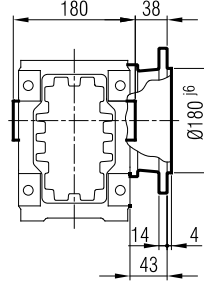
... -SDL / SDR



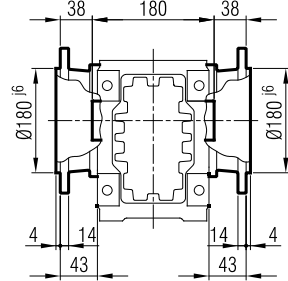
... -FR



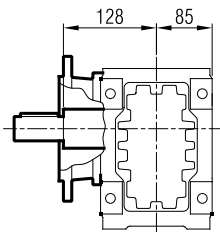
... -FL



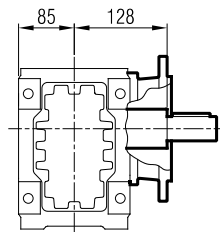
... -FD



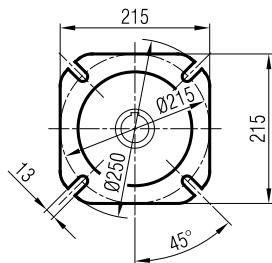
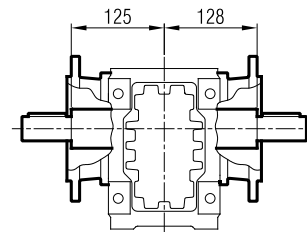
... -FR-SR



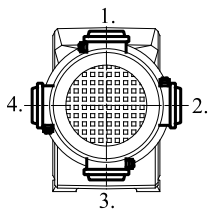
... -FL-SL



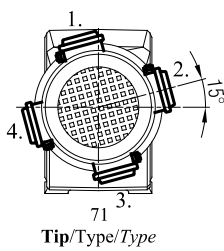
... -FD-SD



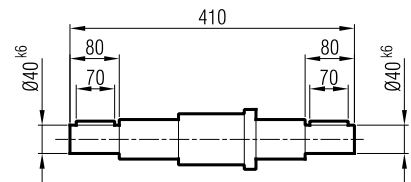
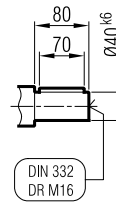
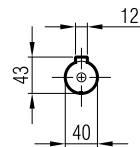
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



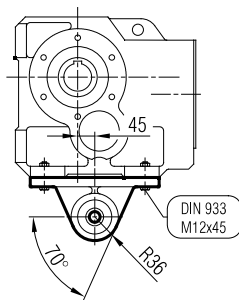
80-90-100-112-132
Tip/Type/Type



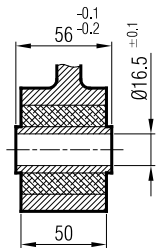
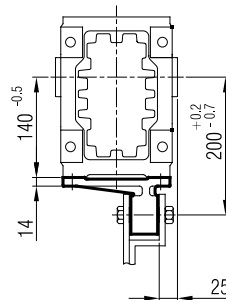
Tip/Type/Type

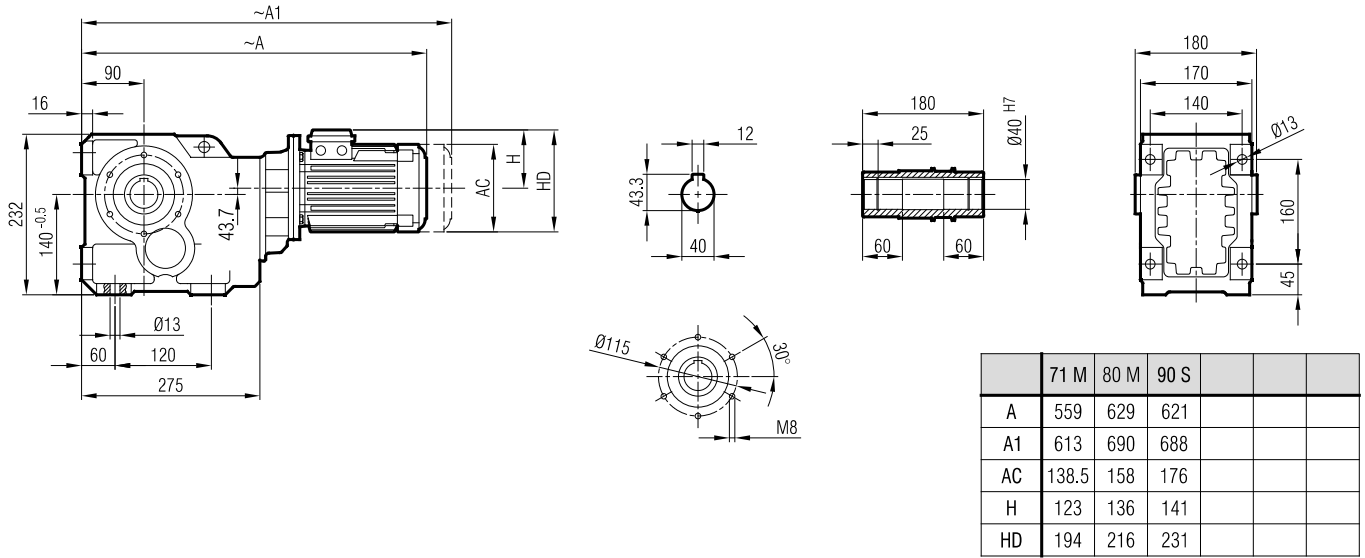


-TL



-TR

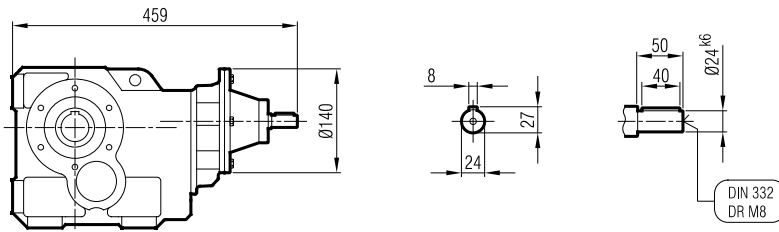
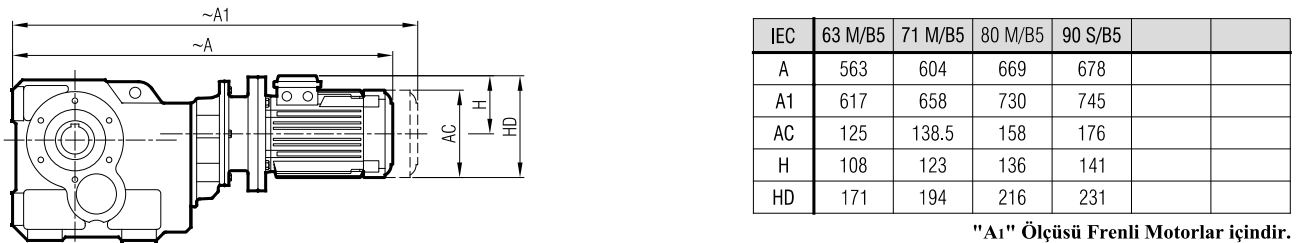



İRK 74


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

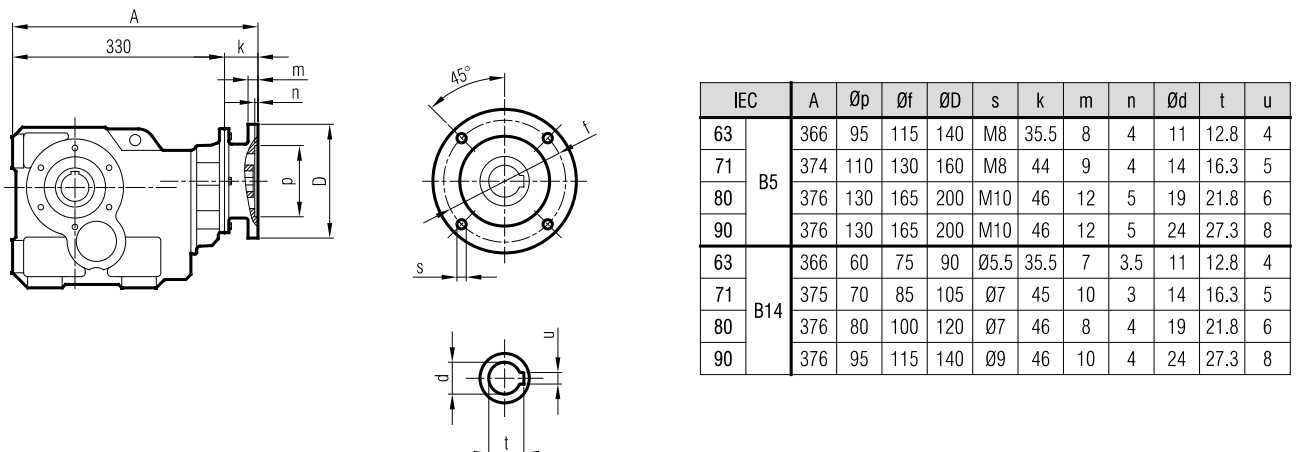
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 74

İRKPM 74


"A1" Ölçüsü Frenli Motorlar içindir.

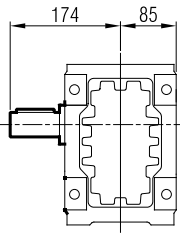
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

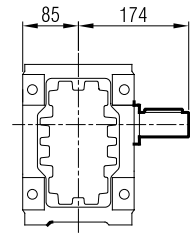
İRK 74




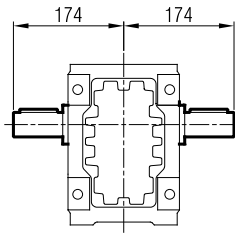
... -SR



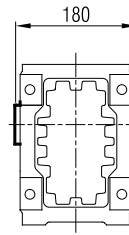
... -SL



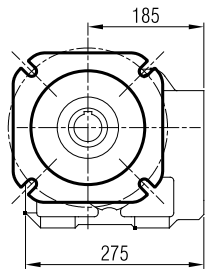
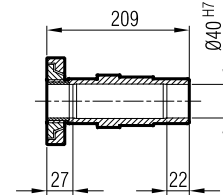
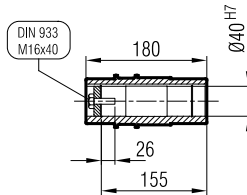
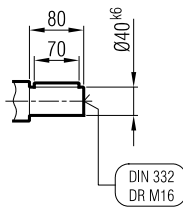
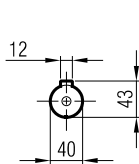
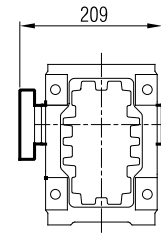
... -SD



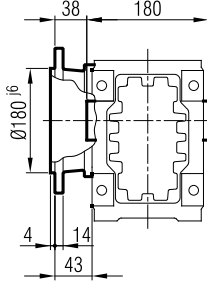
... -H



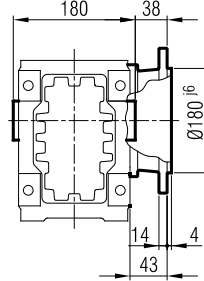
... -SDL / SDR



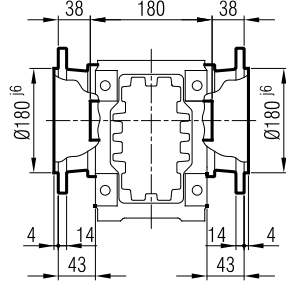
... -FR



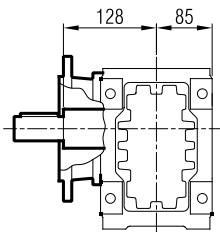
... -FL



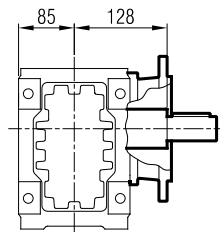
... -FD



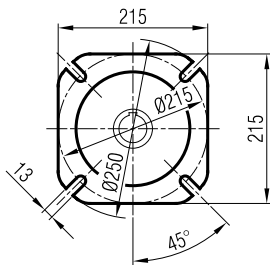
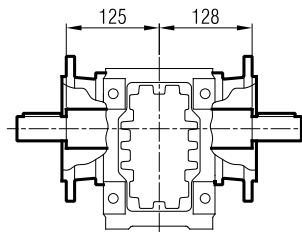
... -FR-SR



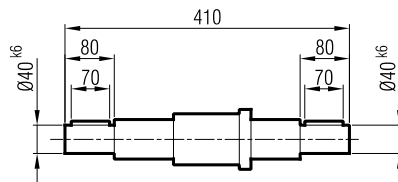
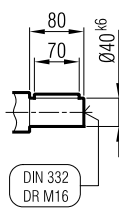
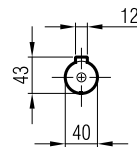
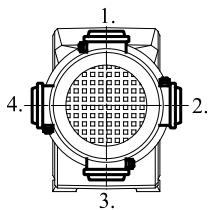
... -FL-SL



... -FD-SD

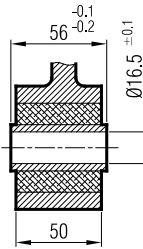
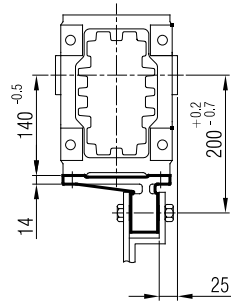
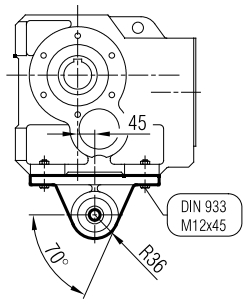


Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



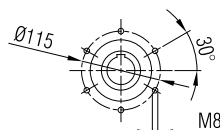
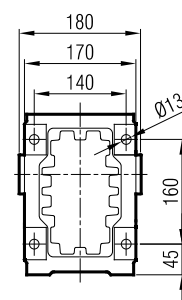
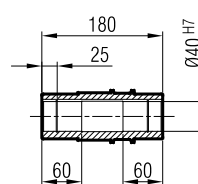
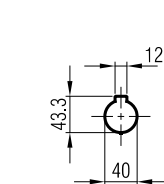
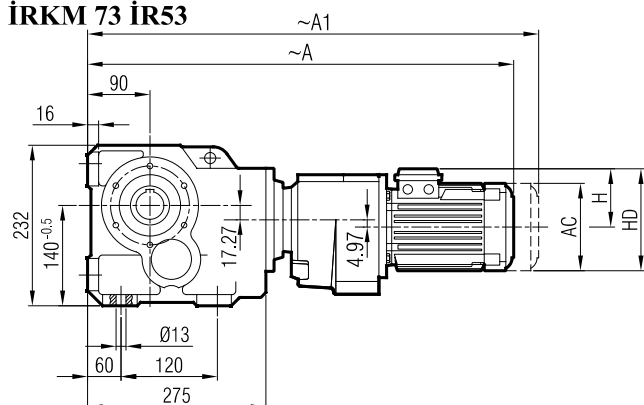
-TL

-TR





İRK M 73 İR 52
İRK M 73 İR 53



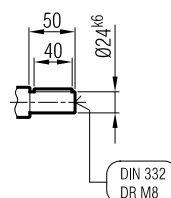
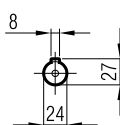
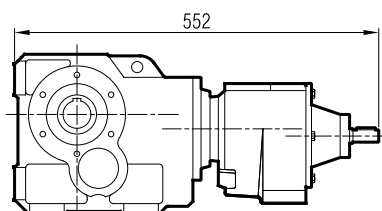
	71 M	80 M				
A	652	695				
A1	706	756				
AC	138.5	158				
H	123	136				
HD	194	216				

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

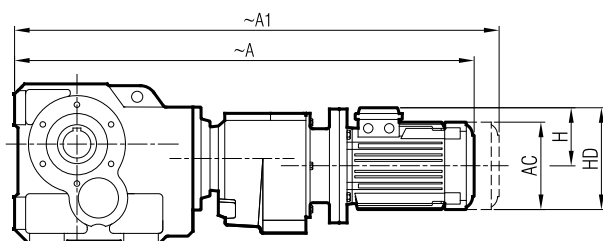
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 73 İR 52
İRK 73 İR 53



DIN 332
DR M8

İRKPM 73 İR 52
İRKPM 73 İR 53



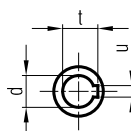
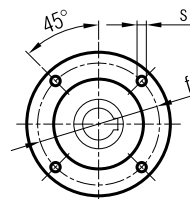
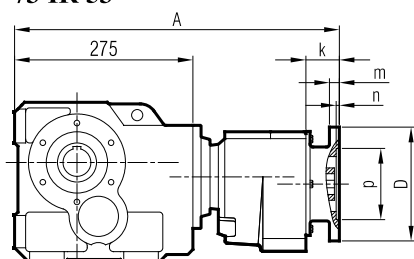
IEC	63 M/B5	71 M/B5	80 M/B5	
A	656	697	735	
A1	710	751	796	
AC	125	138.5	158	
H	108	123	136	
HD	171	194	216	

"A₁" Ölçüsü Frenli Motorlar içindir.

Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

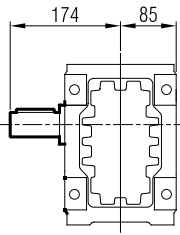
İRKP 73 İR 52
İRKP 73 İR 53



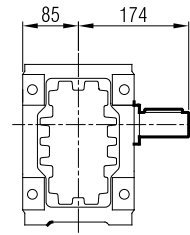
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
63	B5	459	95	115	140	M8	35.5	8	4	11	12.8	4
71		467	110	130	160	M8	44	9	4	14	16.3	5
80		469	130	165	200	M10	46	12	5	19	21.8	6
63	B14	459	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4
71		468	70	85	105	Ø7	45	10	3	14	16.3	5
80		469	80	100	120	Ø7	46	8	4	19	21.8	6



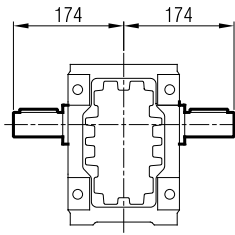
... -SR



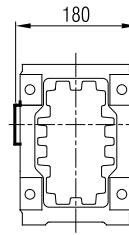
... -SL



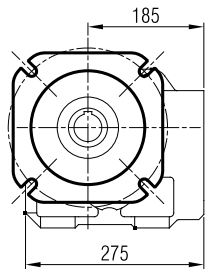
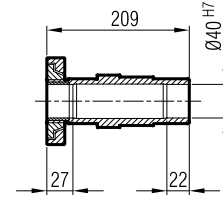
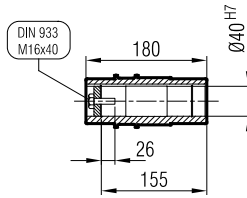
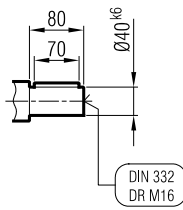
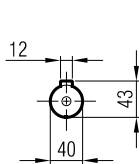
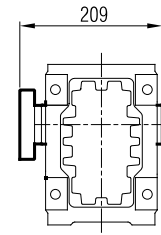
... -SD



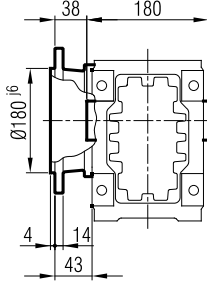
... -H



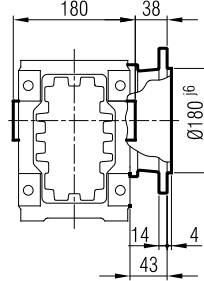
... -SDL / SDR



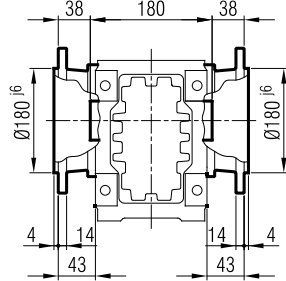
... -FR



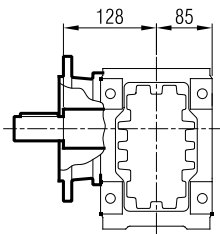
... -FL



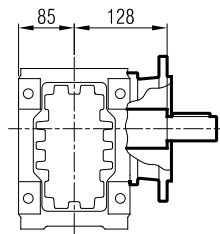
... -FD



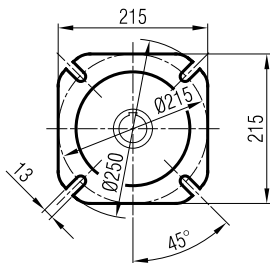
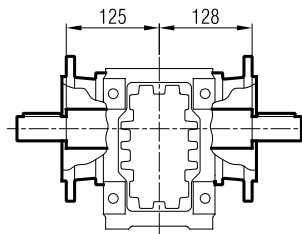
... -FR-SR



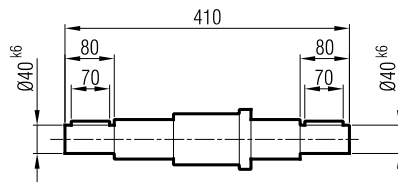
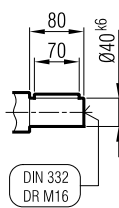
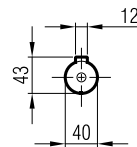
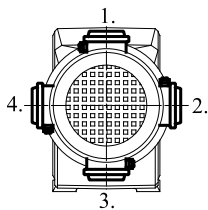
... -FL-SL



... -FD-SD

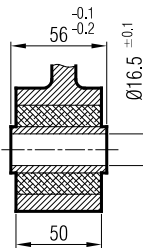
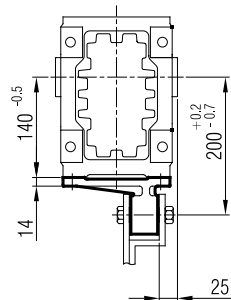
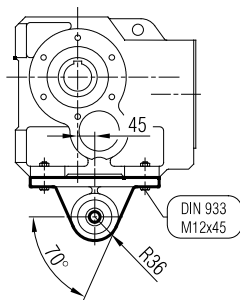


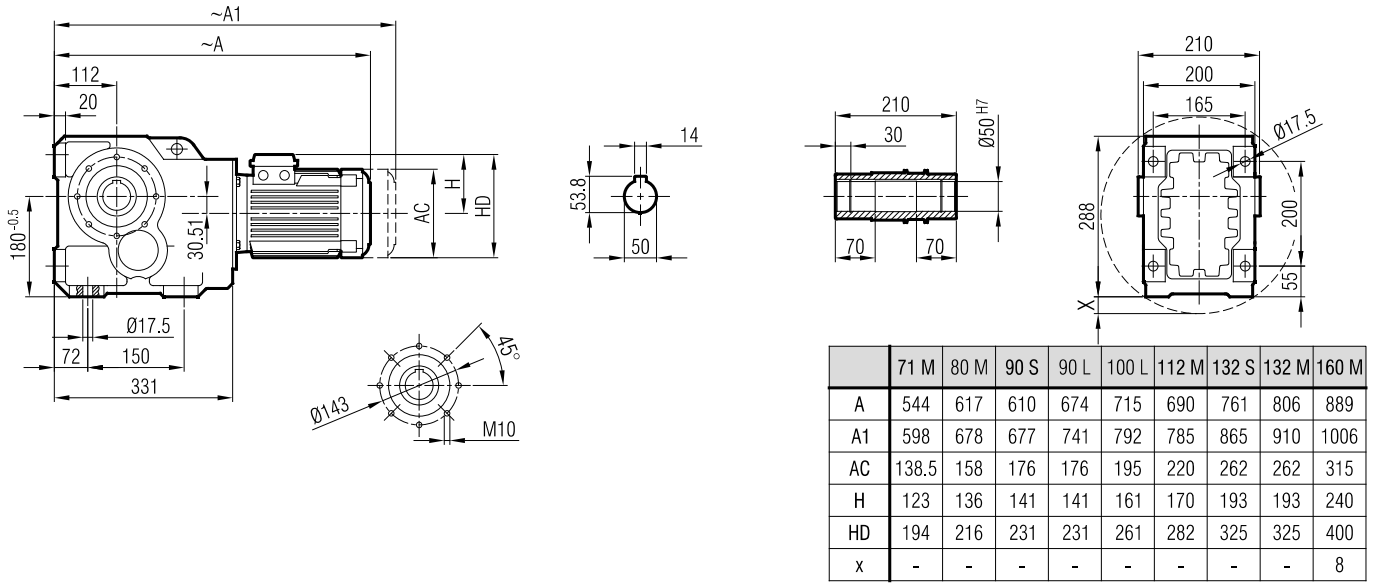
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



-TL

-TR

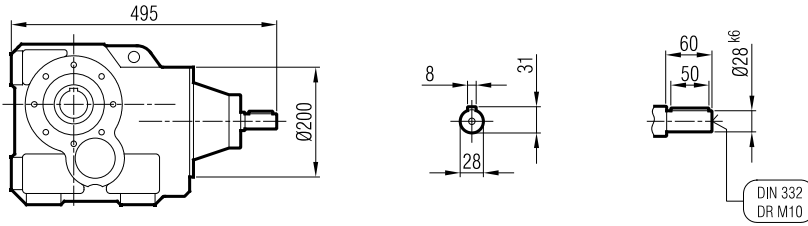
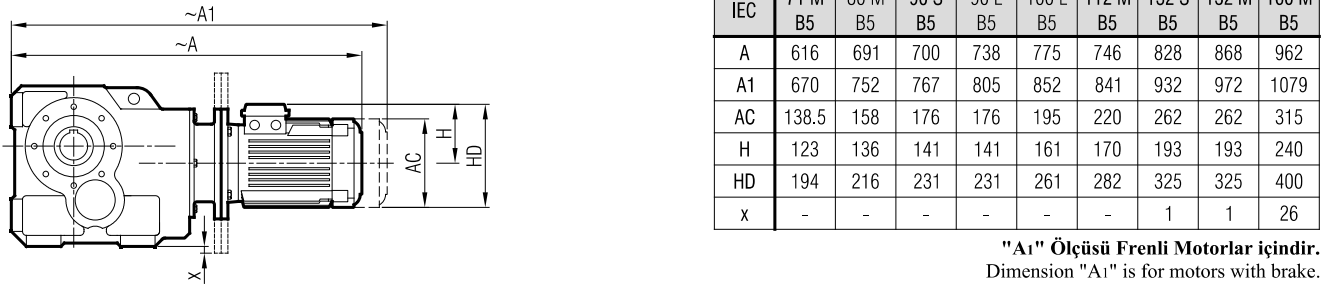



İRKM 83


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

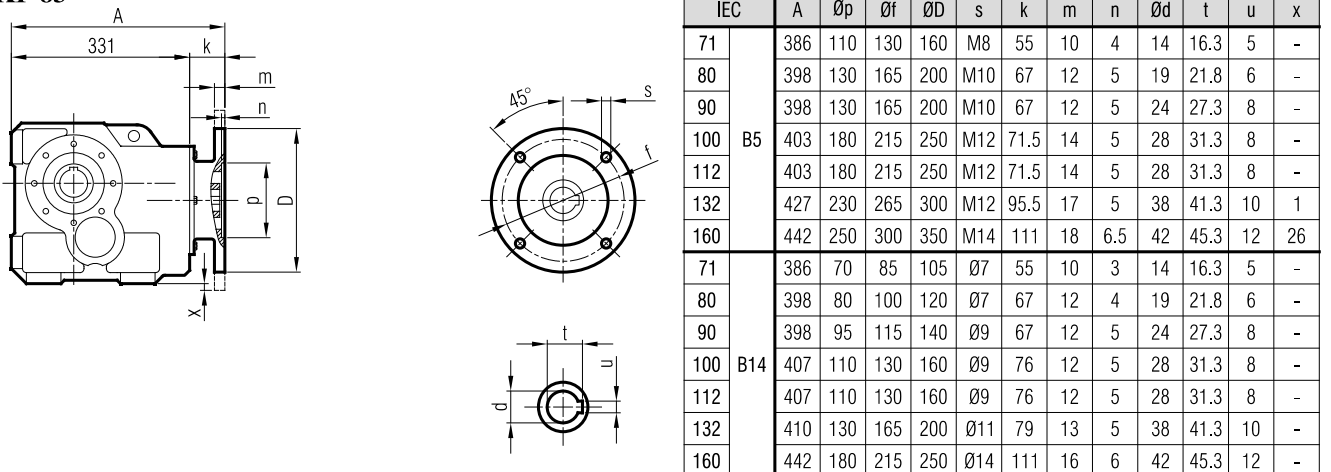
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 83

İRKPM 83


"A1" Ölçüsü Frenli Motorlar içindir.

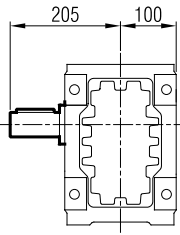
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

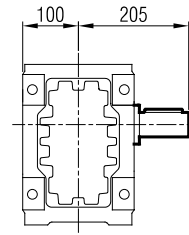
İRKPM 83




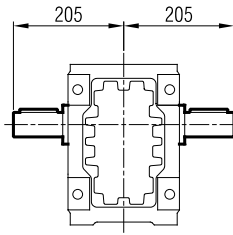
... -SR



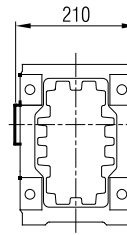
... -SL



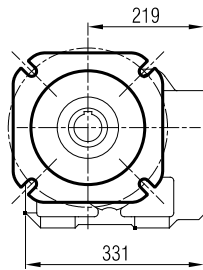
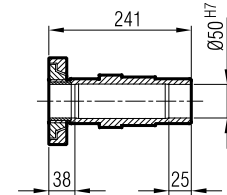
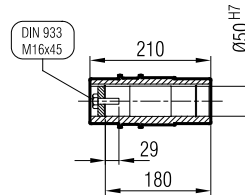
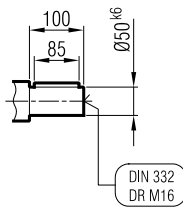
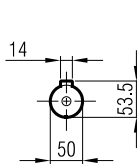
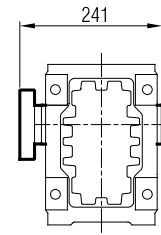
... -SD



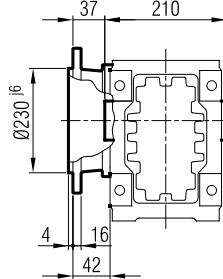
... -H



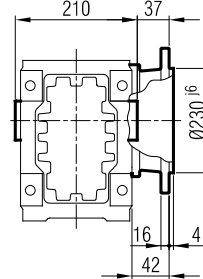
... -SDL / SDR



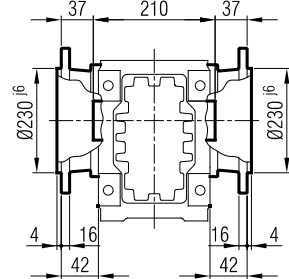
... -FR



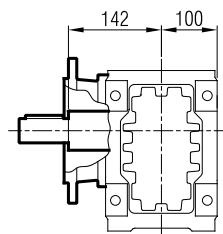
... -FL



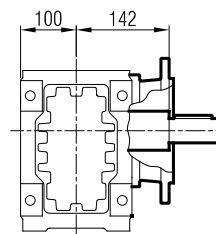
... -FD



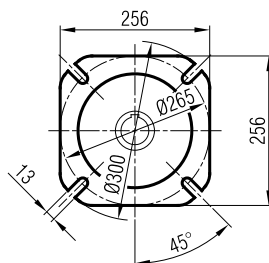
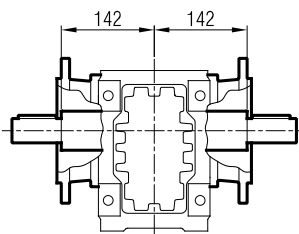
... -FR-SR



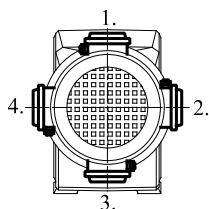
... -FL-SL



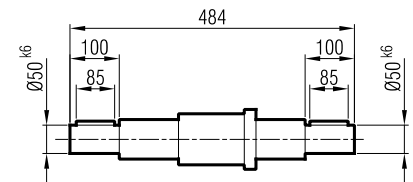
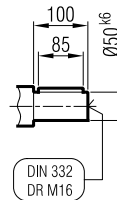
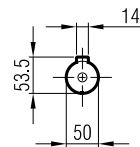
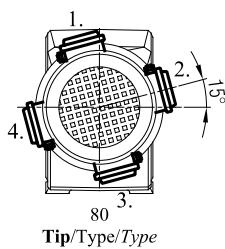
... -FD-SD



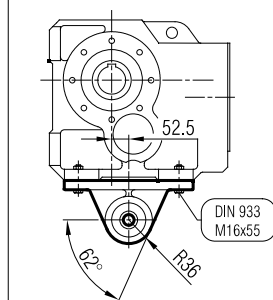
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



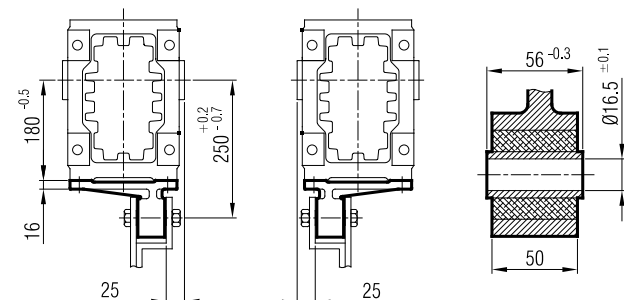
71-90-100-112-132-160
Tip/Type/Type

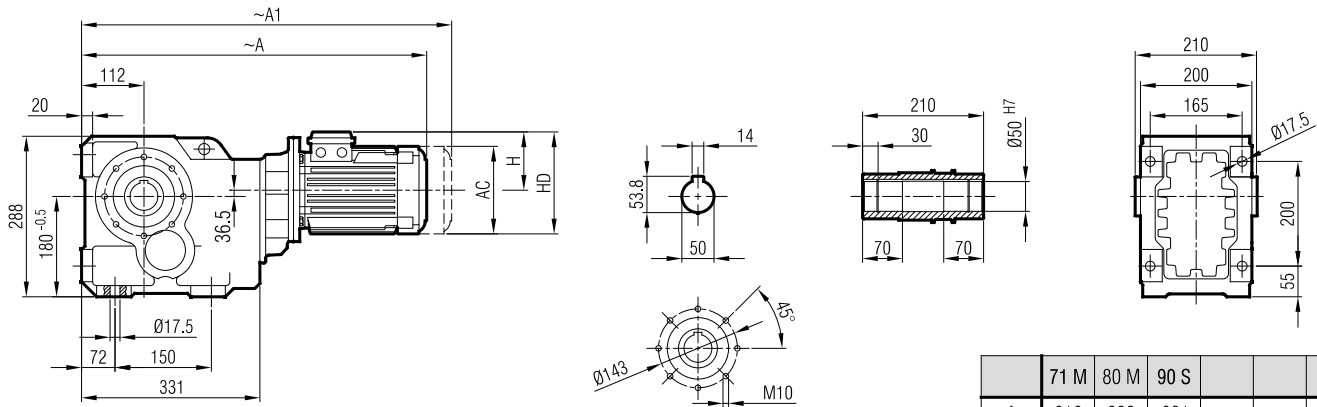


-TL



-TR



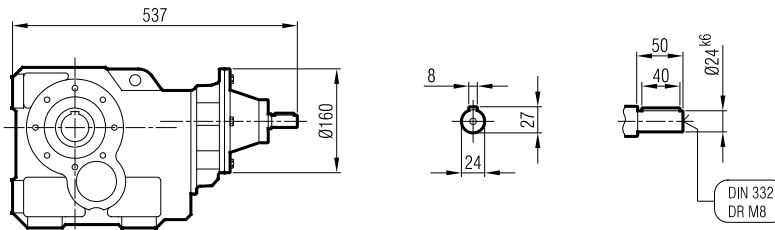
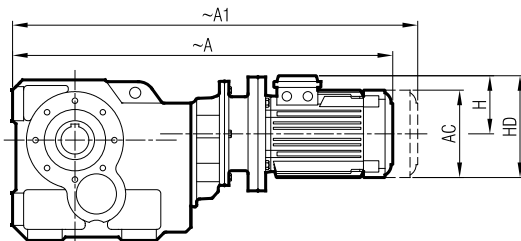

İRKM 84


	71 M	80 M	90 S			
A	616	688	681			
A1	670	749	748			
AC	138.5	158	176			
H	123	136	141			
HD	194	216	231			

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

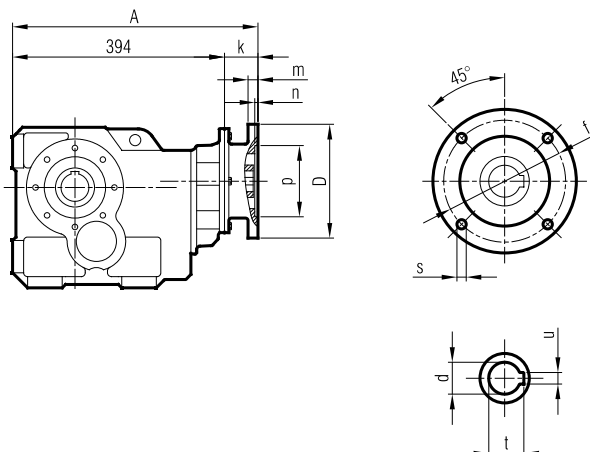
İRK 84

İRKPM 84


IEC	71 M/B5	80 M/B5	90 S/B5			
A	669	737	746			
A1	723	798	813			
AC	138.5	158	176			
H	123	136	141			
HD	194	216	231			

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

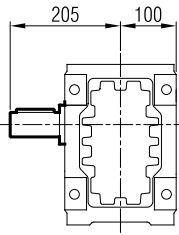
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRKP 84


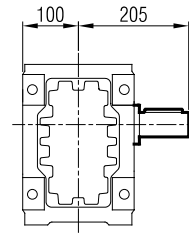
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
71	B5	439	110	130	160	M8	45	9	4	14	16.3	5
80		444	130	165	200	M10	50	12	5	19	21.8	6
90		444	130	165	200	M10	50	12	5	24	27.3	8
71	B14	439	70	85	105	Ø7	45	10	3	14	16.3	5
80		444	80	100	120	Ø7	50	8	4	19	21.8	6
90		444	95	115	140	Ø9	50	10	4	24	27.3	8



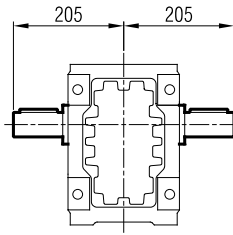
... -SR



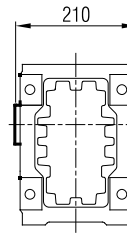
... -SL



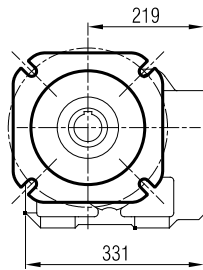
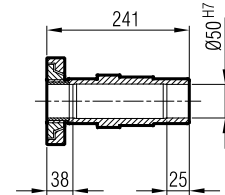
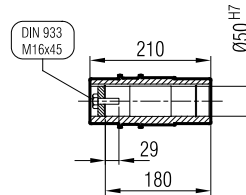
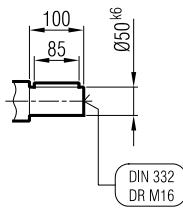
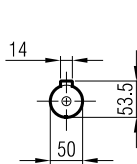
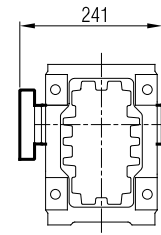
... -SD



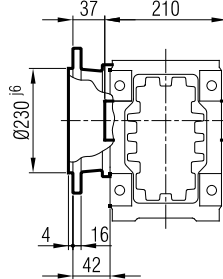
... -H



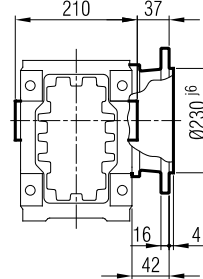
... -SDL / SDR



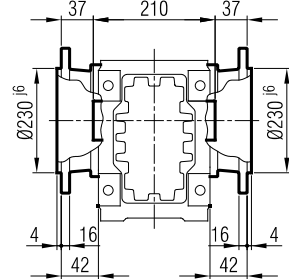
... -FR



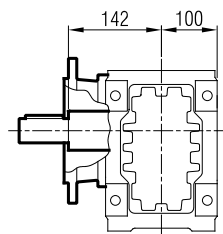
... -FL



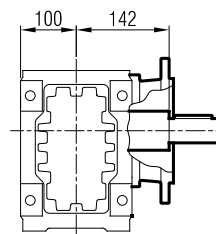
... -FD



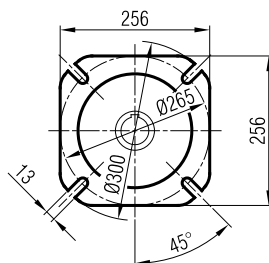
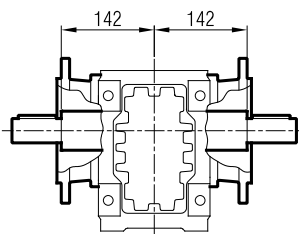
... -FR-SR



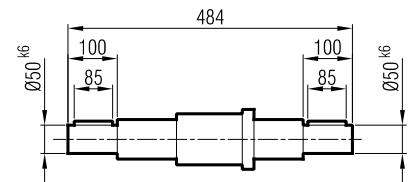
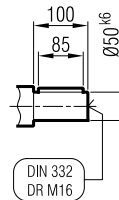
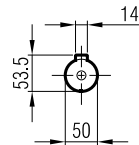
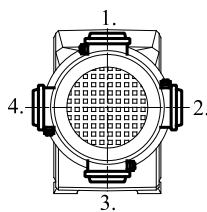
... -FL-SL



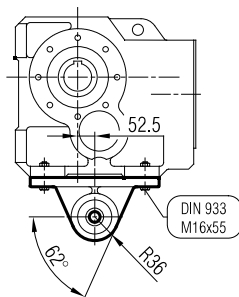
... -FD-SD



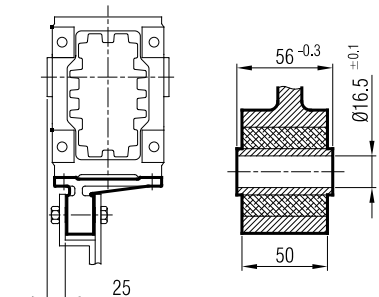
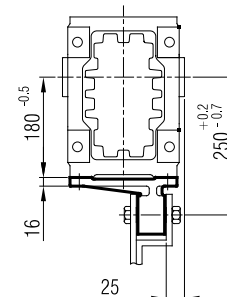
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

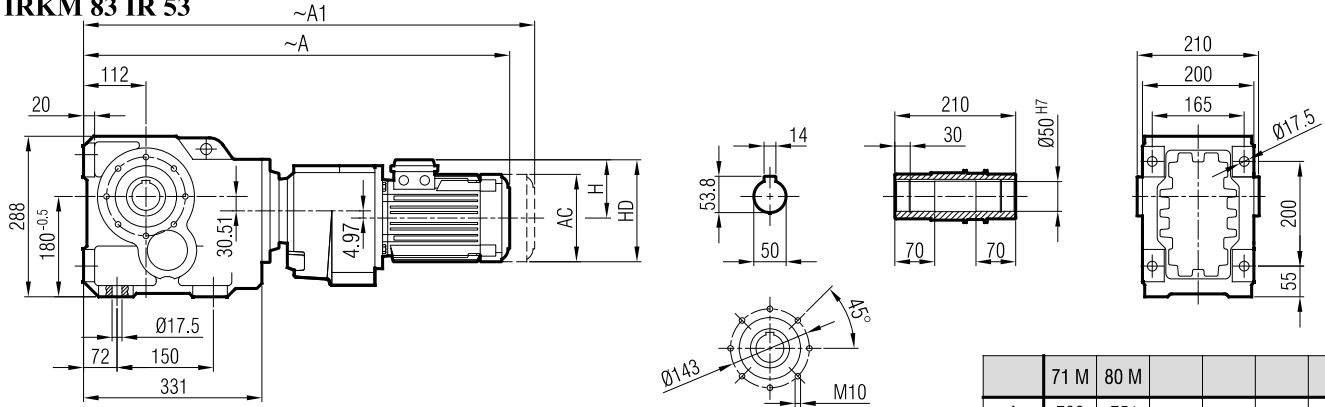


-TL



-TR



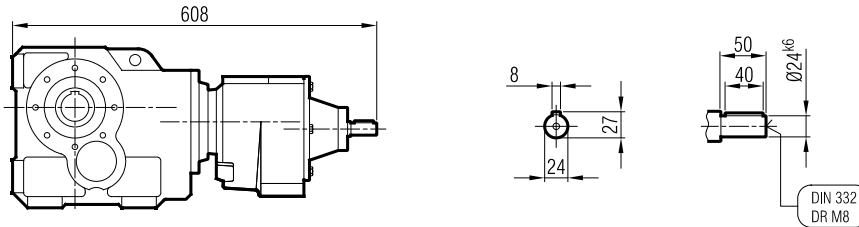

İRKM 83 İR 52
İRKM 83 İR 53


	71 M	80 M				
A	708	751				
A1	762	812				
AC	138.5	158				
H	123	136				
HD	194	216				

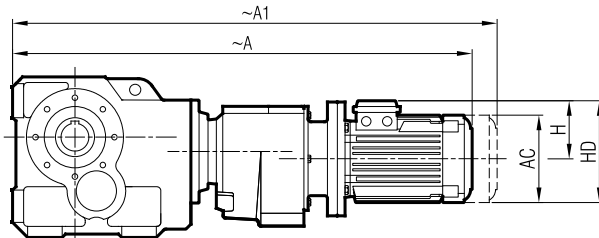
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 83 İR 52
İRK 83 İR 53


DIN 332
DR M8

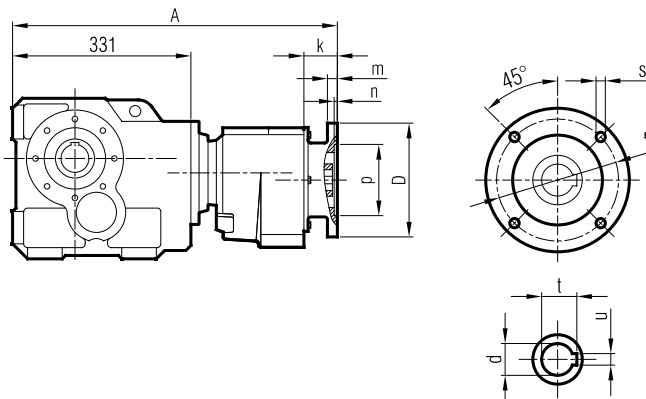
İRKPM 83 İR 52
İRKPM 83 İR 53


IEC	63 M/B5	71 M/B5	80 M/B5	
A	712	753	791	
A1	766	807	852	
AC	125	138.5	158	
H	108	123	136	
HD	171	194	216	

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

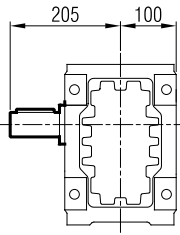
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKP 83 İR 52
İRKP 83 İR 53


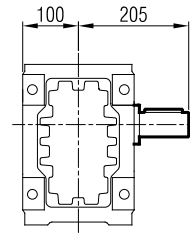
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
63	B5	515	95	115	140	M8	35.5	8	4	11	12.8	4
71		523	110	130	160	M8	44	9	4	14	16.3	5
80		525	130	165	200	M10	46	12	5	19	21.8	6
63	B14	515	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4
71		524	70	85	105	Ø7	45	10	3	14	16.3	5
80		525	80	100	120	Ø7	46	8	4	19	21.8	6



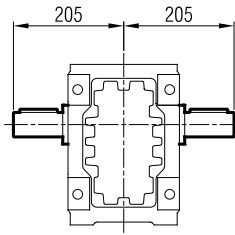
... -SR



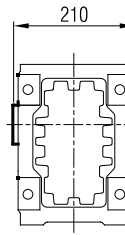
... -SL



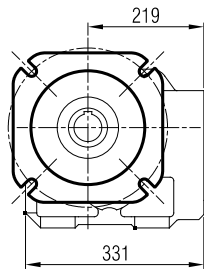
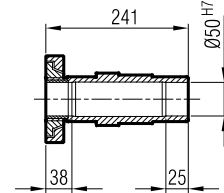
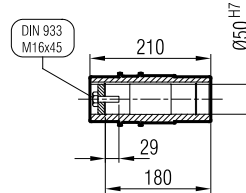
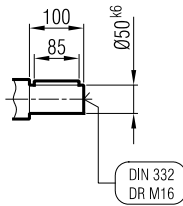
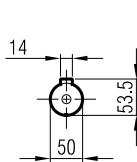
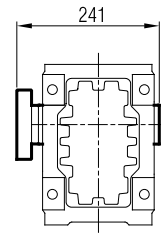
... -SD



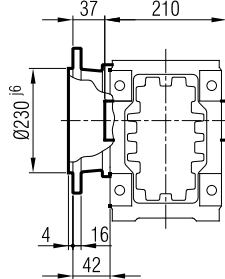
... -H



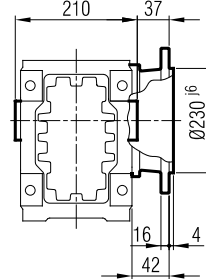
... -SDL / SDR



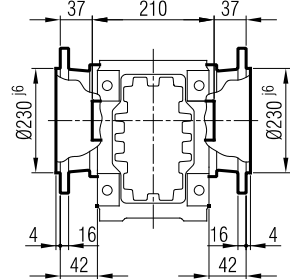
... -FR



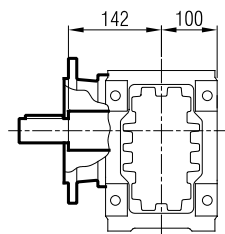
... -FL



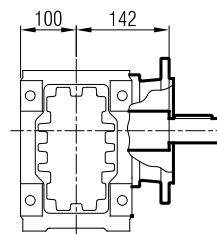
... -FD



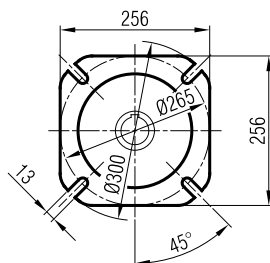
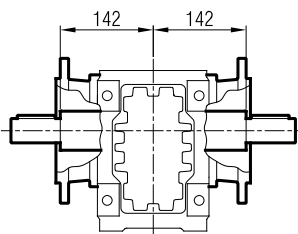
... -FR-SR



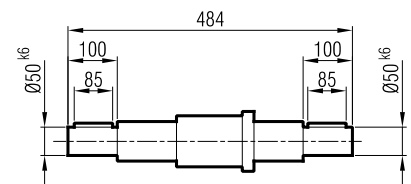
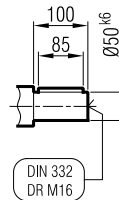
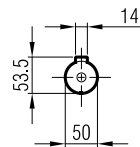
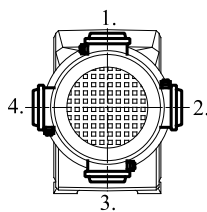
... -FL-SL



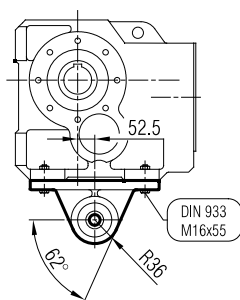
... -FD-SD



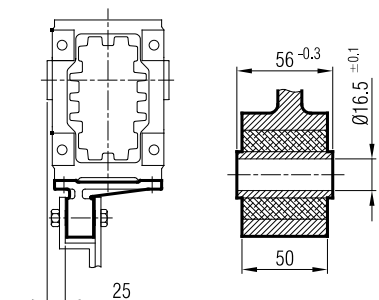
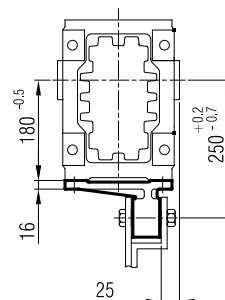
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

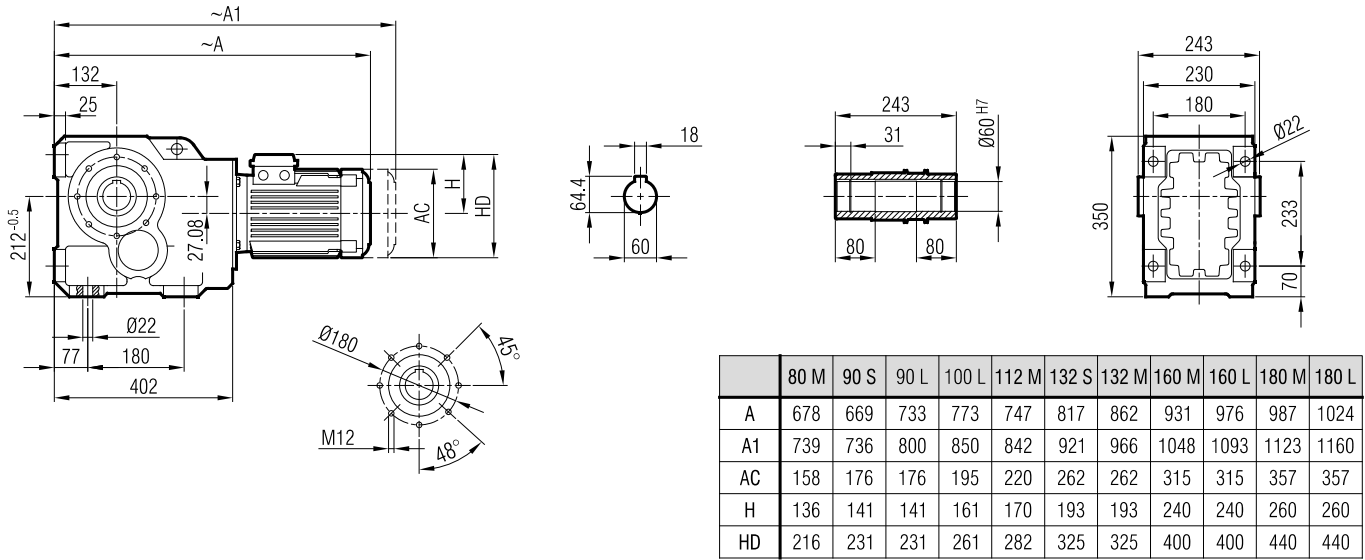


-TL



-TR

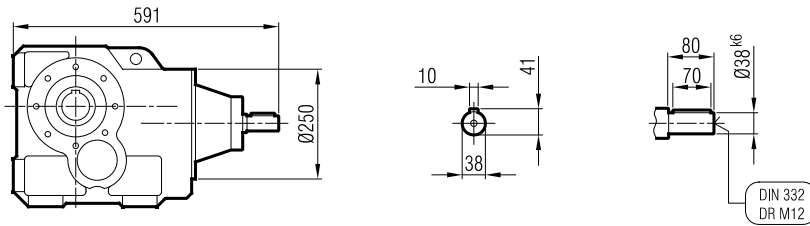
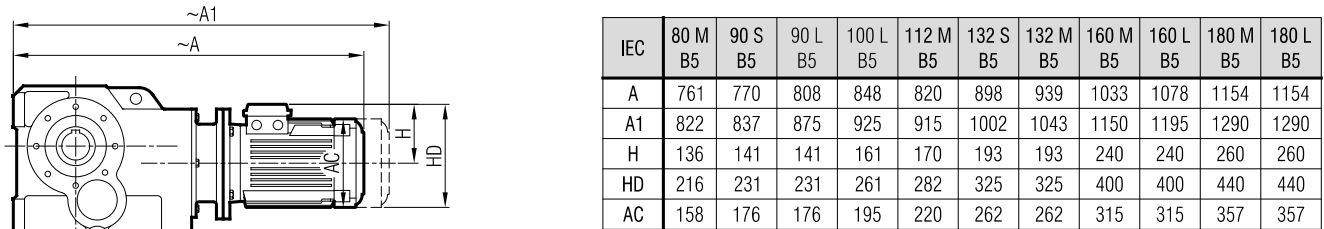



İRKM 93


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

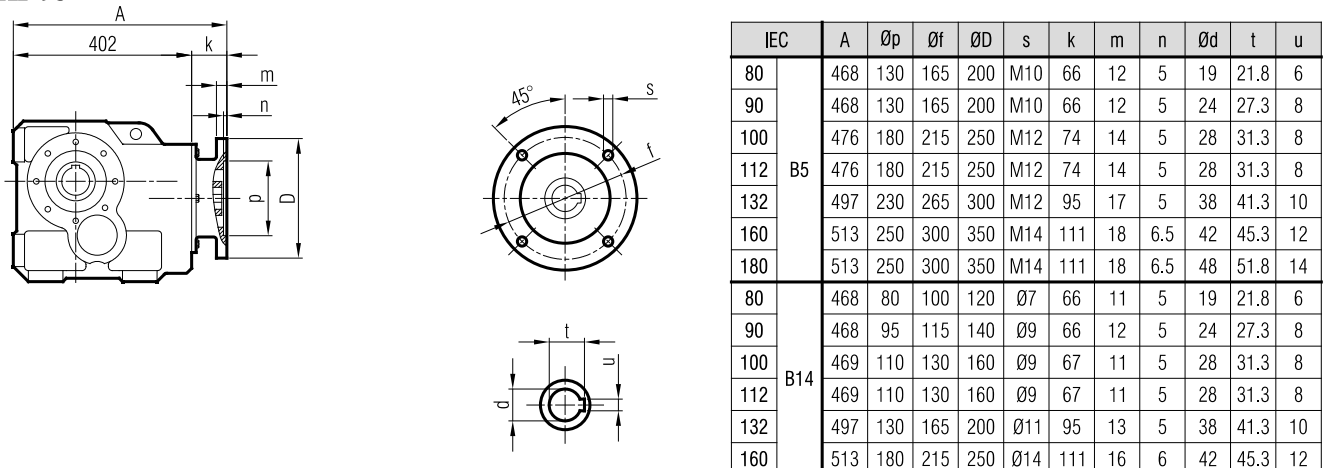
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 93

İRKPM 93


"A1" Ölçüsü Frenli Motorlar içindir.

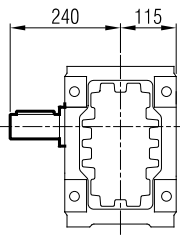
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

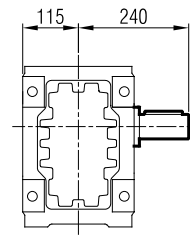
İRKP 93




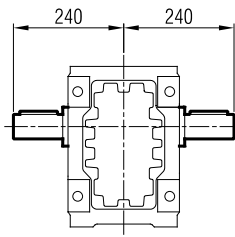
... -SR



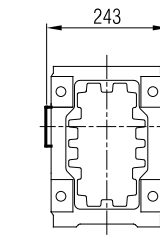
... -SL



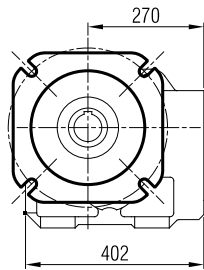
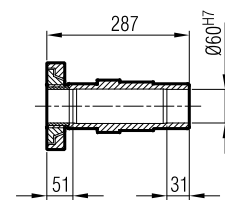
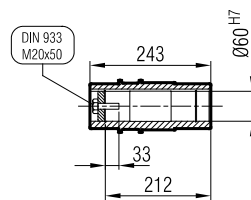
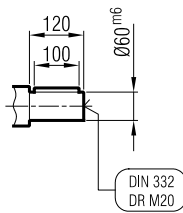
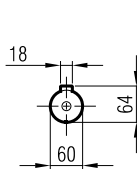
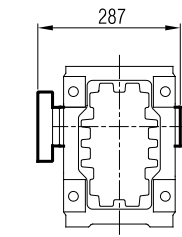
... -SD



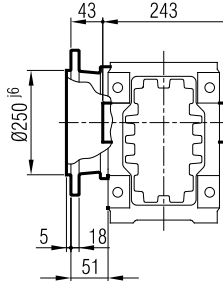
... -H



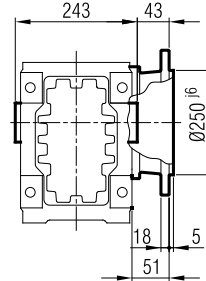
... -SDL / SDR



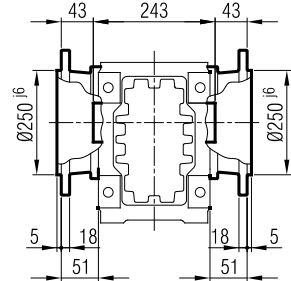
... -FR



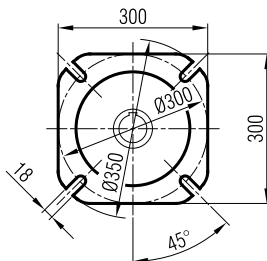
... -FL



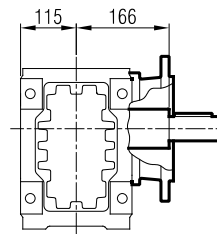
... -FD



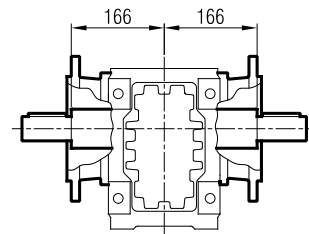
... -FR-SR



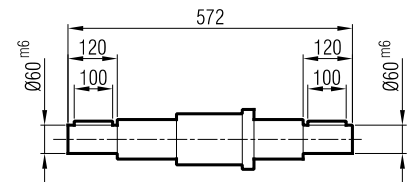
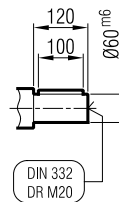
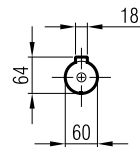
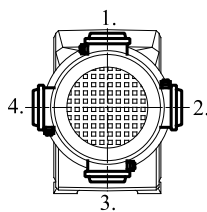
... -FL-SL



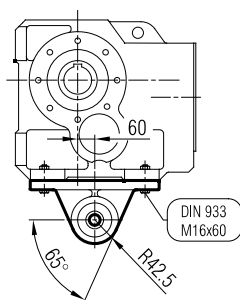
... -FD-SD



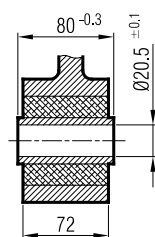
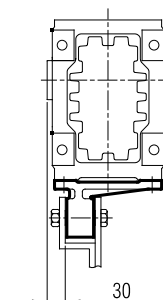
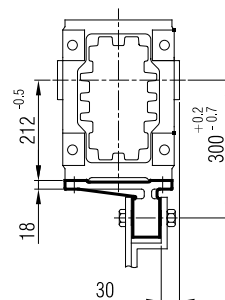
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

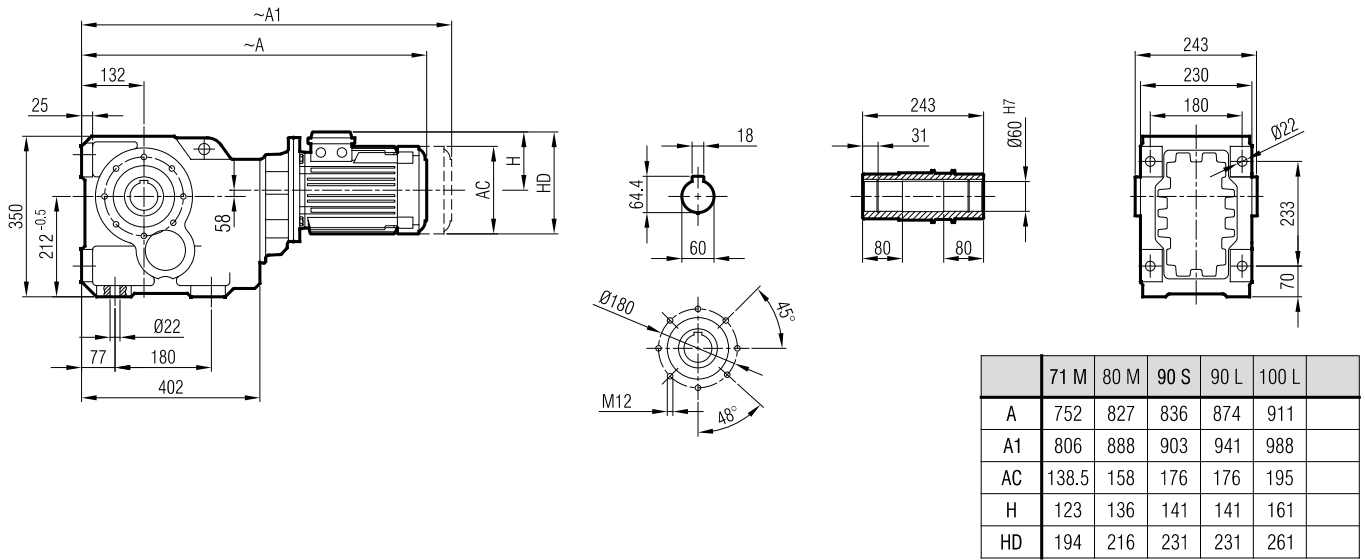


-TL



-TR

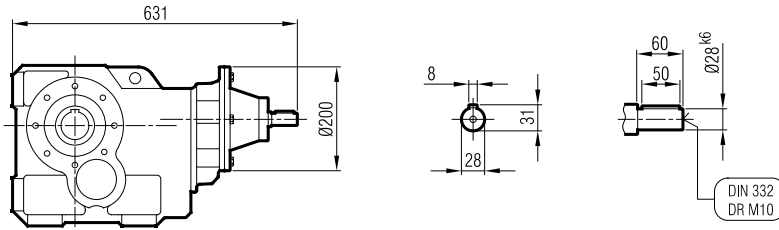
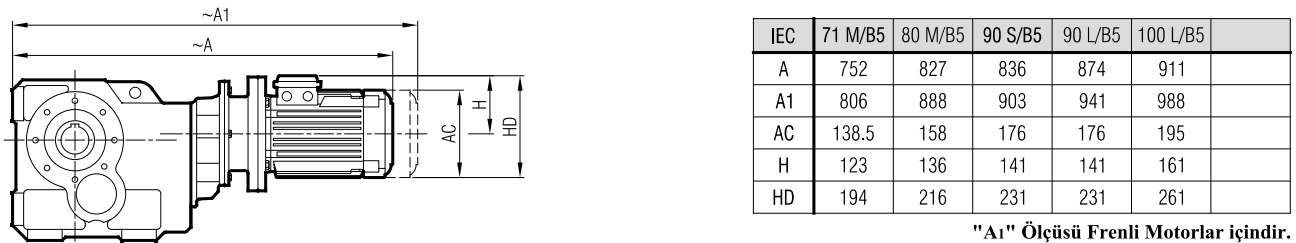



İRK 94


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

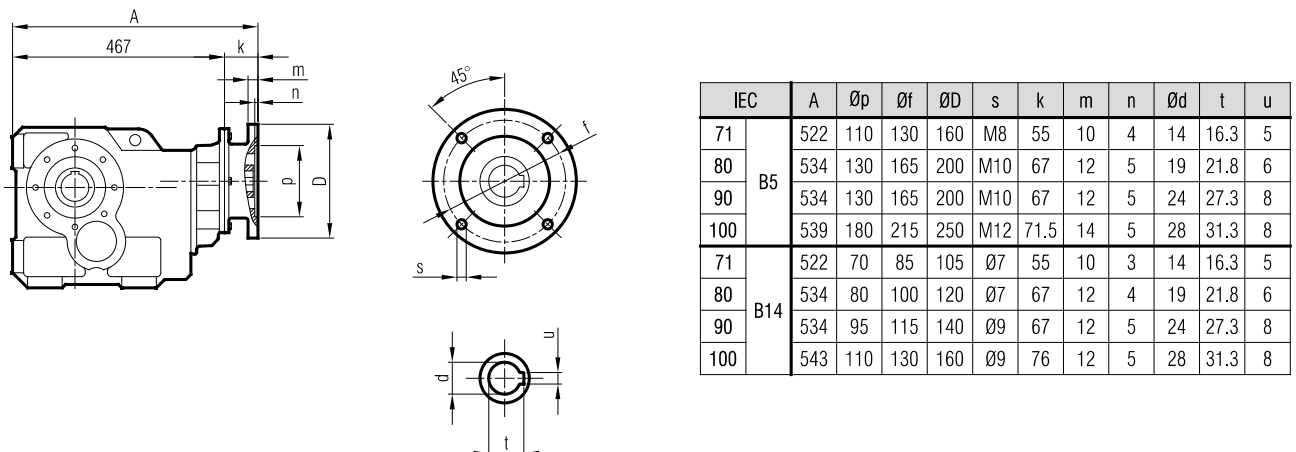
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 94

İRKPM 94


"A1" Ölçüsü Frenli Motorlar içindir.

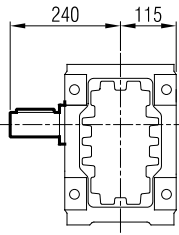
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

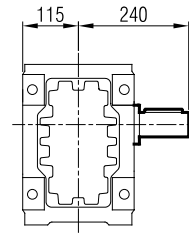
İRK 94




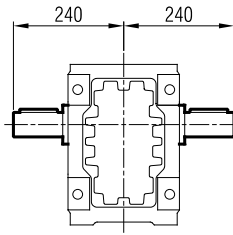
... -SR



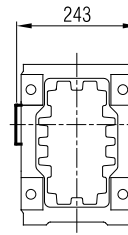
... -SL



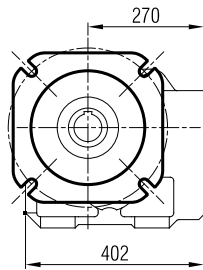
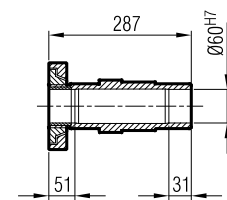
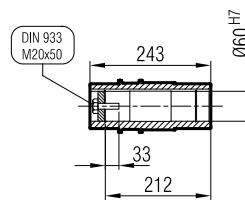
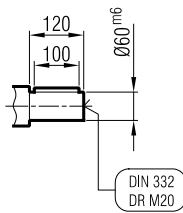
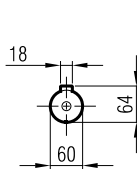
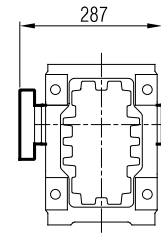
... -SD



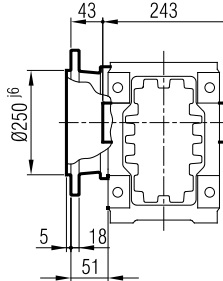
... -H



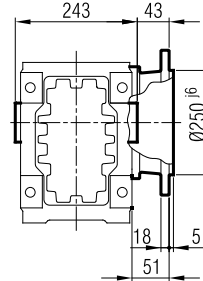
... -SDL / SDR



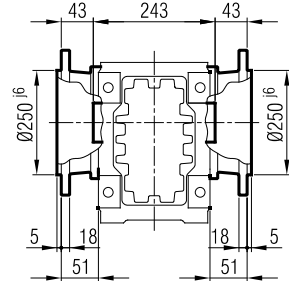
... -FR



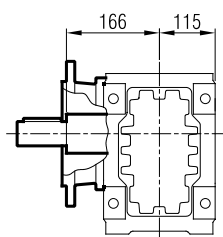
... -FL



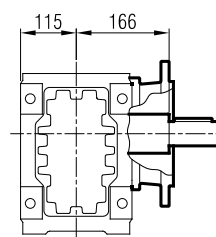
... -FD



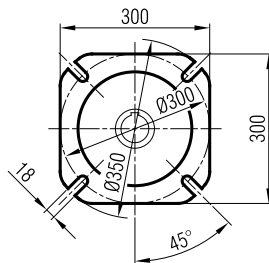
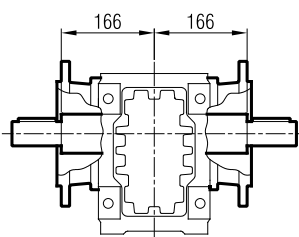
... -FR-SR



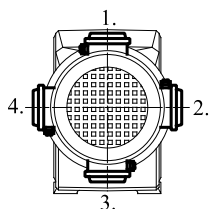
... -FL-SL



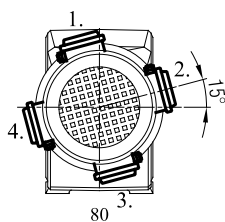
... -FD-SD



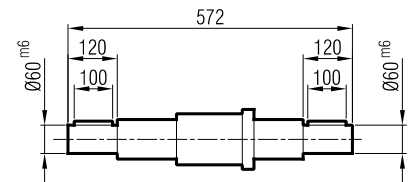
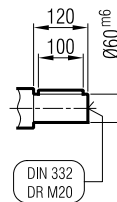
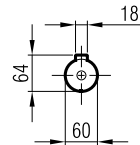
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



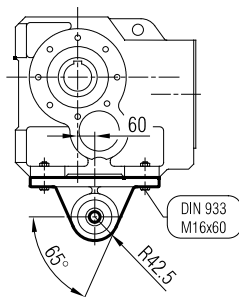
71-90-100
Tip/Type/Type



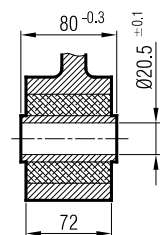
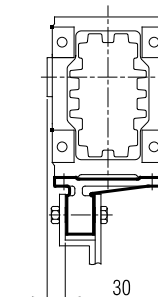
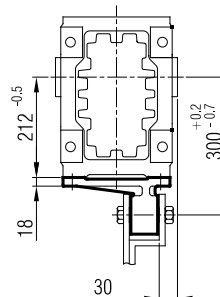
80
Tip/Type/Type



-TL

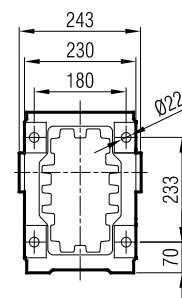
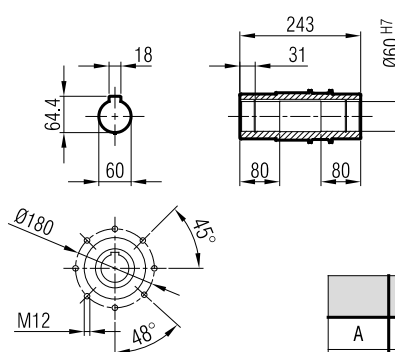
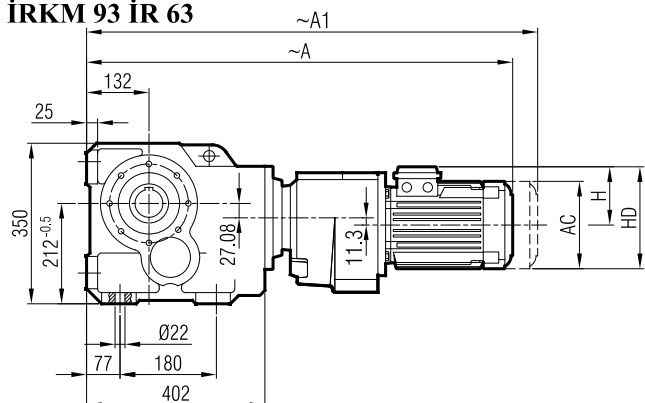


-TR





İRK M 93 İR 62
İRK M 93 İR 63



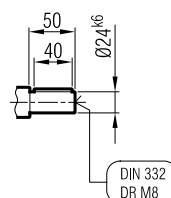
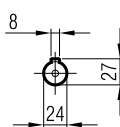
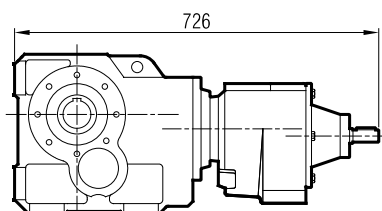
	71 M	80 M	90 S	90 L		
A	804	877	870	934		
A1	858	938	937	1001		
AC	138.5	158	176	176		
H	123	136	141	141		
HD	194	216	231	231		

"A1" Ölçüsü Frenli Motorlar içindir.

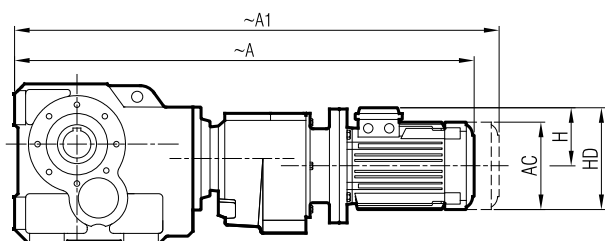
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

İRK 93 İR 62
İRK 93 İR 63



İRKPM 93 İR 62
İRKPM 93 İR 63



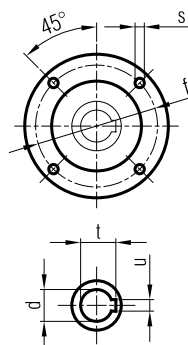
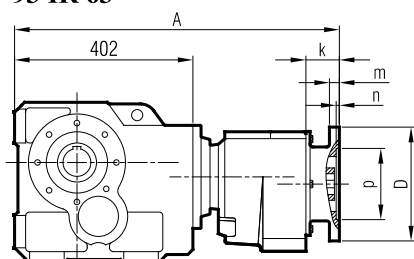
IEC	63 M/B5	71 M/B5	80 M/B5	90 S/B5	90 L/B5
A	815	858	935	935	973
A1	869	912	1002	1002	1040
AC	125	138.5	158	176	176
H	108	123	136	141	141
HD	171	194	216	231	231

"A₁" Ölçüsü Frenli Motorlar içindir.

Dimension "A₁" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

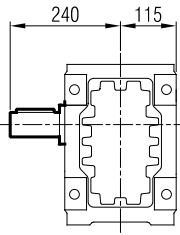
İRKP 93 İR 62
İRKP 93 İR 63



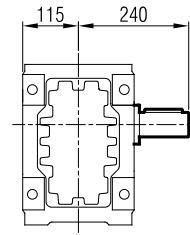
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
63	B5	618	95	115	140	M8	35.5	8	4	11	12.8	4
71		628	110	130	160	M8	45	9	4	14	16.3	5
80		633	130	165	200	M10	50	12	5	19	21.8	6
90		633	130	165	200	M10	50	12	5	24	27.3	8
63	B14	618	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4
71		628	70	85	105	Ø7	45	10	3	14	16.3	5
80		633	80	100	120	Ø7	50	8	4	19	21.8	6
90		633	95	115	140	Ø9	50	10	4	24	27.3	8



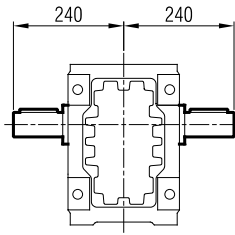
... -SR



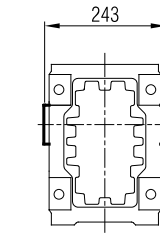
... -SL



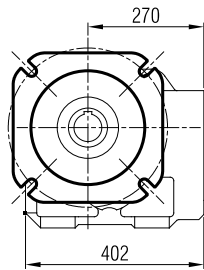
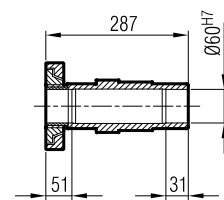
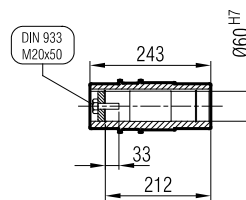
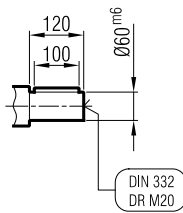
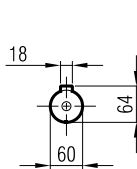
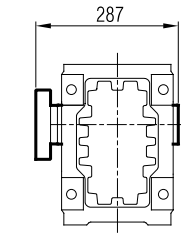
... -SD



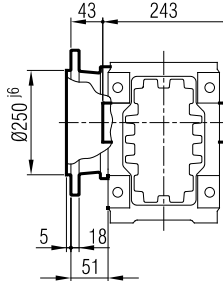
... -H



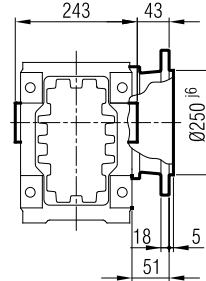
... -SDL / SDR



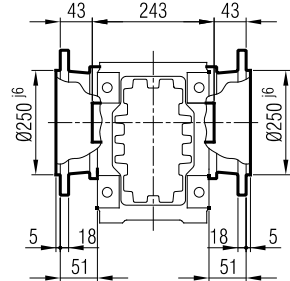
... -FR



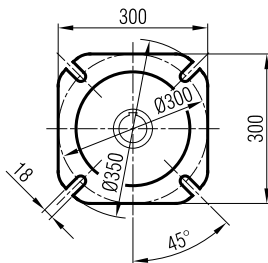
... -FL



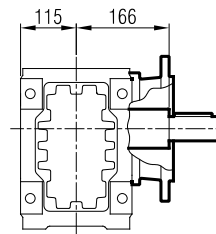
... -FD



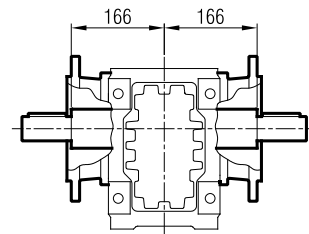
... -FR-SR



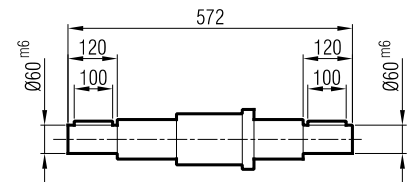
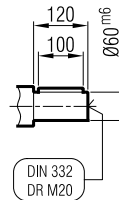
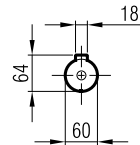
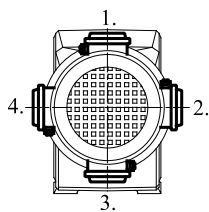
... -FL-SL



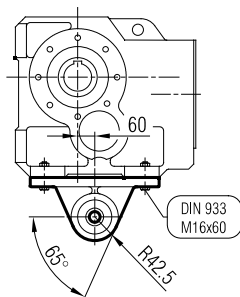
... -FD-SD



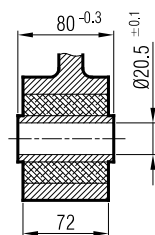
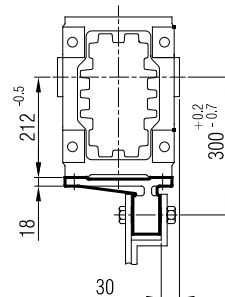
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes

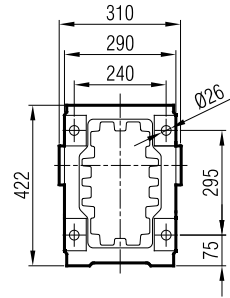
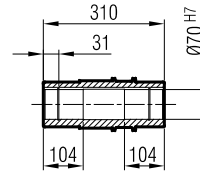
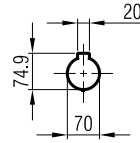
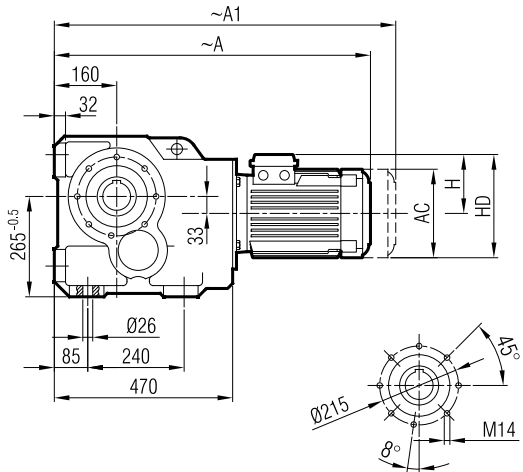


-TL



-TR



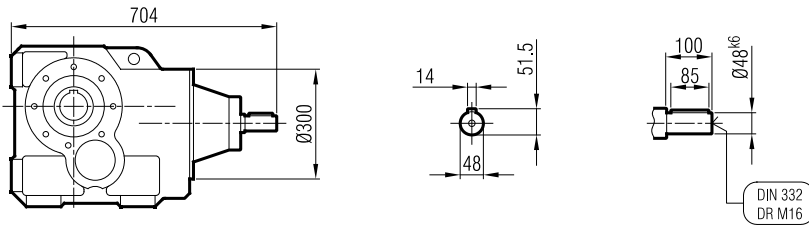
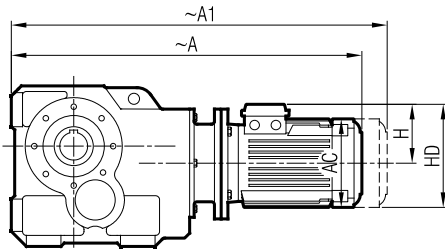

İRKM 103


	100 L	112 M	132 S	132 M	160 M	160 L	180 M	180 L	200 L
A	831	805	867	912	1007	1052	1064	1101	1186
A1	908	900	971	1016	1124	1169	1200	1237	1333
AC	195	220	262	262	315	315	357	357	394
H	161	170	193	193	240	240	260	260	300
HD	261	282	325	325	400	400	440	440	500

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

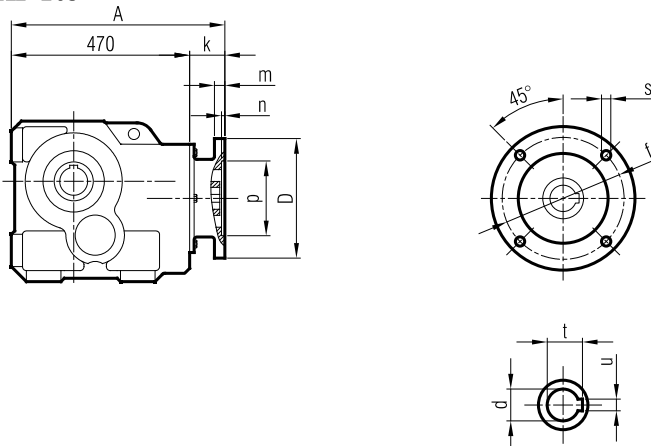
İRK 103

İRKPM 103


IEC	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5	132 M B5	160 M B5	160 L B5	180 M B5	180 L B5	200 L B5
A	821	859	900	872	966	1007	1101	1146	1222	1222	1338
A1	888	926	977	967	1070	1111	1218	1263	1358	1358	1485
AC	176	176	195	220	262	262	315	315	357	357	394
H	141	141	161	170	193	193	240	240	260	260	300
HD	231	231	261	282	325	325	400	400	440	440	500

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

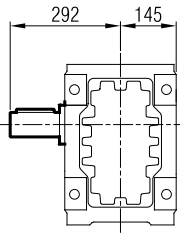
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKPM 103


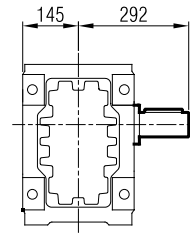
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
90	519	130	165	200	M10	49	12	5	24	27.3	8
100	528	180	215	250	M12	58	14	5	28	31.3	8
112	528	180	215	250	M12	58	14	5	28	31.3	8
132	565	230	265	300	M12	95	17	5	38	41.3	10
160	581	250	300	350	M14	111	18	6.5	42	45.3	12
180	581	250	300	350	M14	111	18	6.5	48	51.8	14
200	629	300	350	400	M16	159	20	6.5	55	59.3	16
90	519	95	115	140	Ø9	49	12	5	24	27.3	8
100	528	110	130	160	Ø9	58	11	5	28	31.3	8
112	528	110	130	160	Ø9	58	11	5	28	31.3	8
132	565	130	165	200	Ø11	95	13	5	38	41.3	10
160	565	180	215	250	Ø14	95	16	6	42	45.3	12



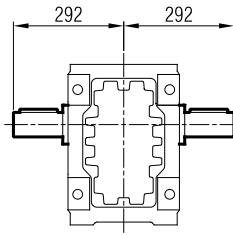
... -SR



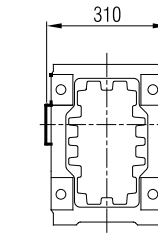
... -SL



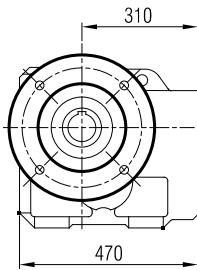
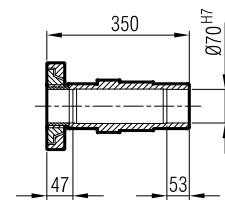
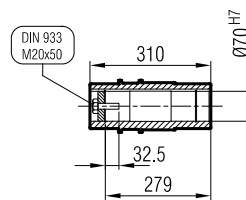
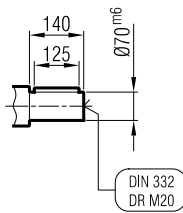
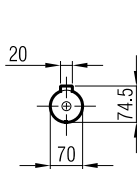
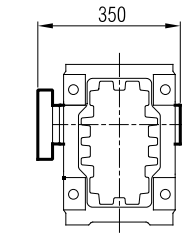
... -SD



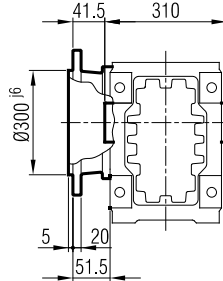
... -H



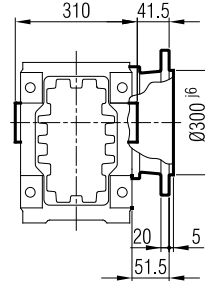
... -SDL / SDR



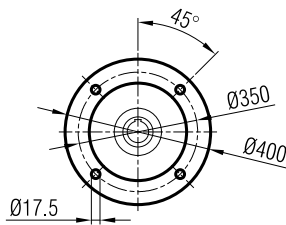
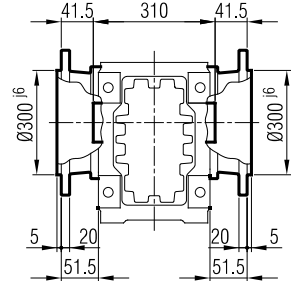
... -FR



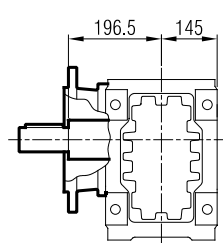
... -FL



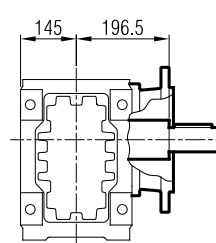
... -FD



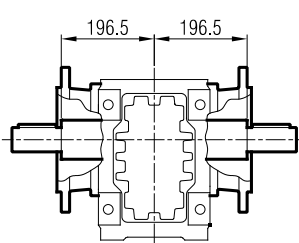
... -FR-SR



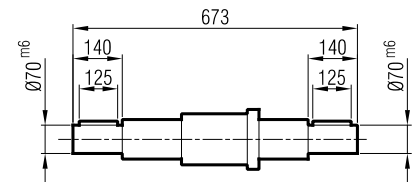
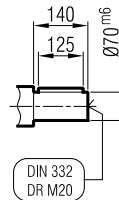
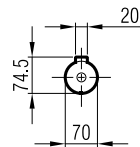
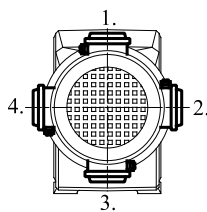
... -FL-SL



... -FD-SD

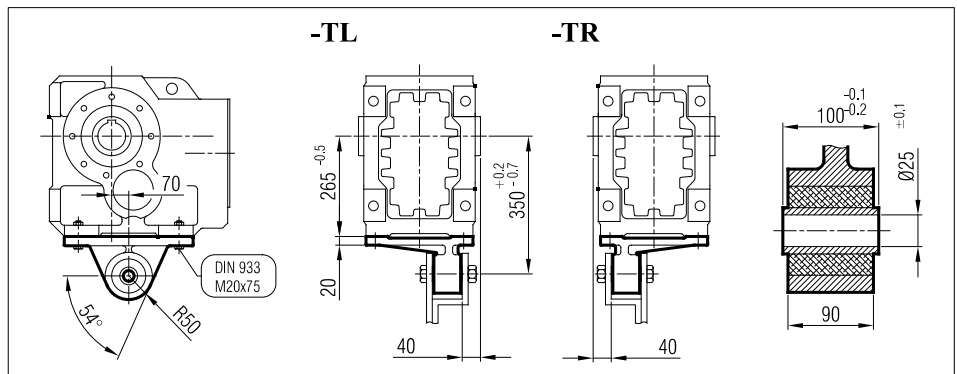


Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



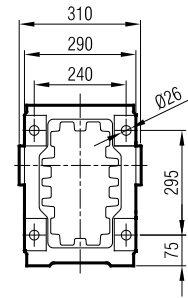
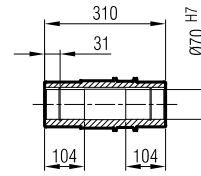
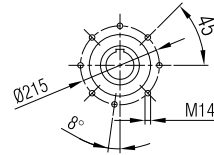
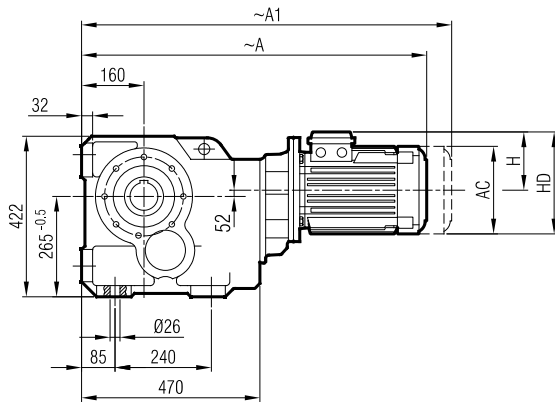
-TL

-TR





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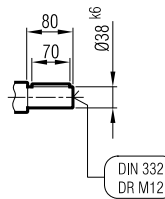
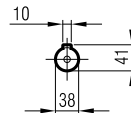
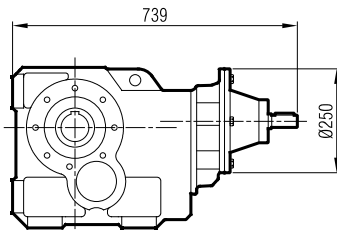
	80 M	90 S	90 L	100 L	112 M
A	826	817	881	921	895
A1	887	884	948	998	990
AC	158	176	176	195	220
H	136	141	141	161	170
HD	216	231	231	261	282

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

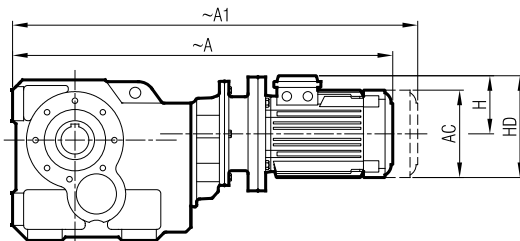
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 104



DIN 332
DR M12

İRKPM 104



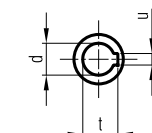
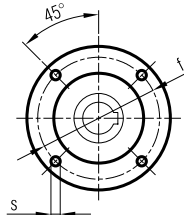
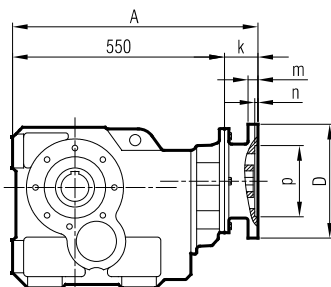
IEC	80 M/B5	90 S/B5	90 L/B5	100 L/B5	112 M/B5
A	909	918	956	996	968
A1	970	985	1023	1073	1063
AC	158	176	176	195	220
H	136	141	141	161	170
HD	216	231	231	261	282

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

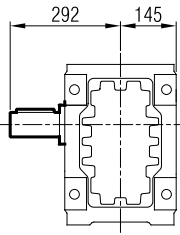
İRKPM 104



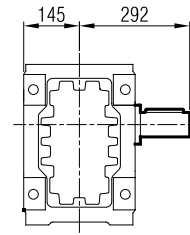
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
80	616	130	165	200	M10	66	12	5	19	21.8	6
90	616	130	165	200	M10	66	12	5	24	27.3	8
100	624	180	215	250	M12	74	14	5	28	31.3	8
112	624	180	215	250	M12	74	14	5	28	31.3	8
80	616	80	100	120	Ø7	66	11	5	19	21.8	6
90	616	95	115	140	Ø9	66	12	5	24	27.3	8
100	617	110	130	160	Ø9	67	11	5	28	31.3	8
112	617	110	130	160	Ø9	67	11	5	28	31.3	8



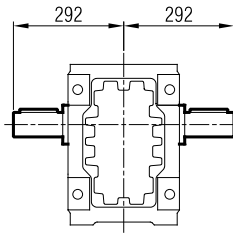
... -SR



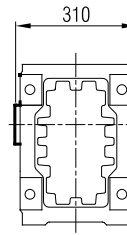
... -SL



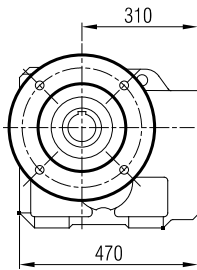
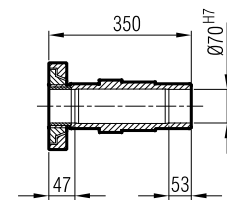
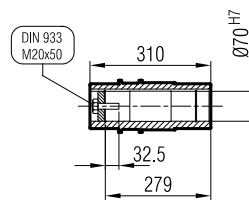
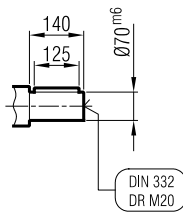
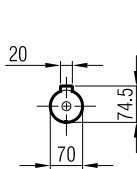
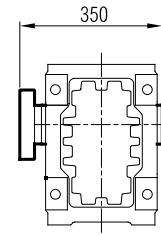
... -SD



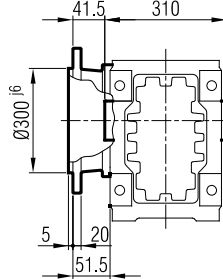
... -H



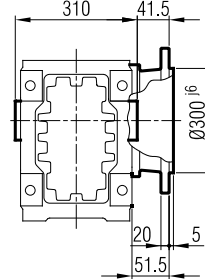
... -SDL / SDR



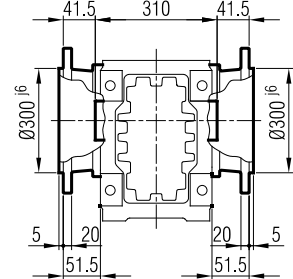
... -FR



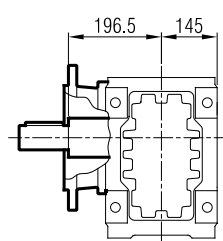
... -FL



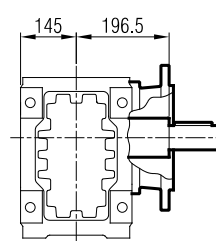
... -FD



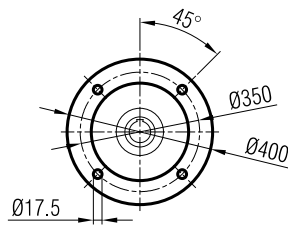
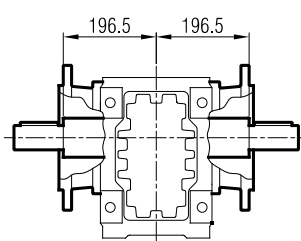
... -FR-SR



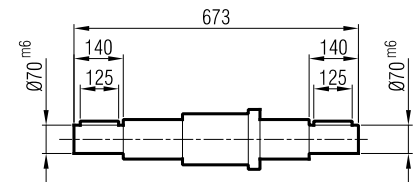
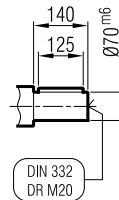
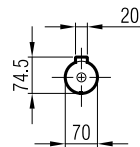
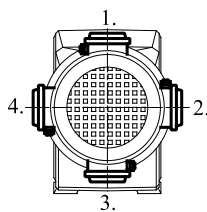
... -FL-SL



... -FD-SD

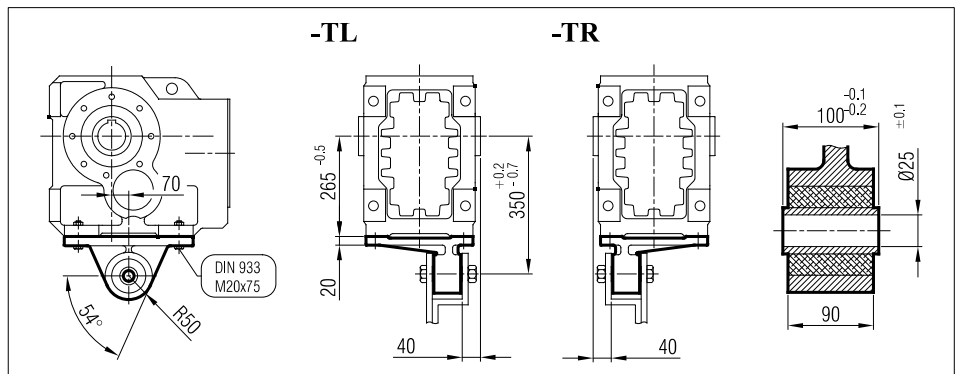


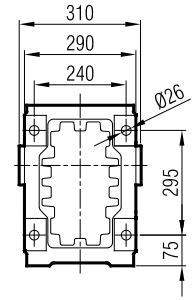
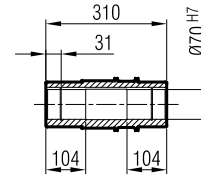
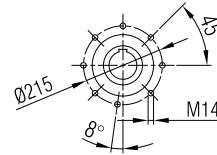
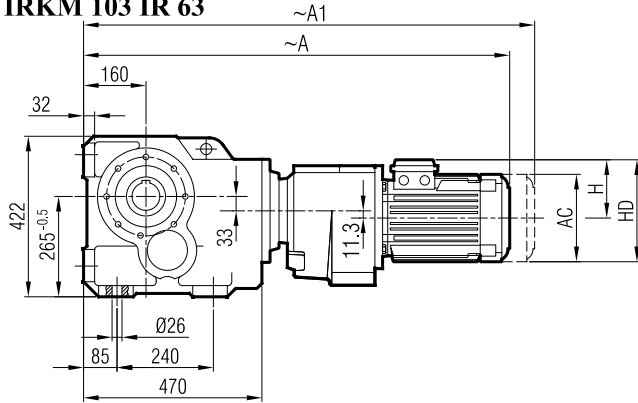
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



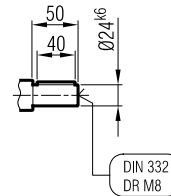
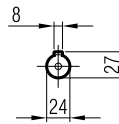
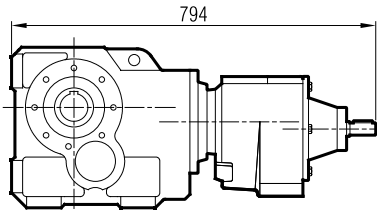
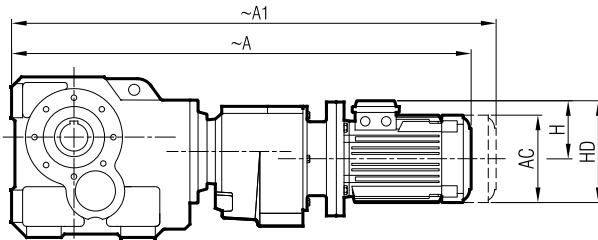
-TL

-TR

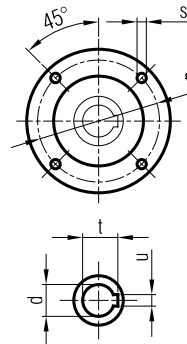
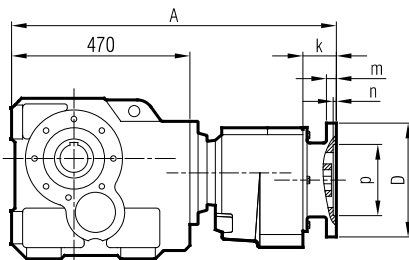



İRKM 103 İR 62
İRKM 103 İR 63


	71 M	80 M	90 S	90 L	100 L	112 M
A	872	945	938	1002	1041	1012
A1	926	1006	1005	1069	1118	1107
AC	138.5	158	176	176	195	220
H	123	136	141	141	161	170
HD	194	216	231	231	261	282

İRK 103 İR 62
İRK 103 İR 63

İRKPM 103 İR 62
İRKPM 103 İR 63


IEC	63 M B5	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5	112 M B5
A	883	926	1003	1003	1041	1086	1057
A1	937	980	1070	1070	1108	1163	1152
AC	125	138.5	158	176	176	195	220
H	108	123	136	141	141	161	170
HD	171	194	216	231	231	261	282

İRKP 103 İR 62
İRKP 103 İR 63


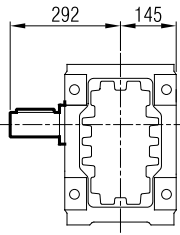
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
63	686	95	115	140	M8	35.5	8	4	11	12.8	4
71	696	110	130	160	M8	45	9	4	14	16.3	5
80	701	130	165	200	M10	50	12	5	19	21.8	6
90	701	130	165	200	M10	50	12	5	24	27.3	8
100	714	180	215	250	M12	63	14	5	28	31.3	8
112	714	180	215	250	M12	63	14	5	28	31.3	8
63	686	60	75	90	Ø5.5	35.5	7	3.5	11	12.8	4
71	696	70	85	105	Ø7	45	10	3	14	16.3	5
80	701	80	100	120	Ø7	50	8	4	19	21.8	6
90	701	95	115	140	Ø9	50	10	4	24	27.3	8
100	714	110	130	160	Ø9	63	10	4.5	28	31.3	8
112	714	110	130	160	Ø9	63	10	4.5	28	31.3	8

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

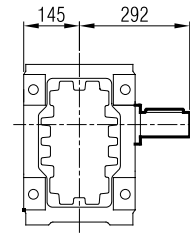
"A1" Ölçüsü Frenli Motorlar içindir.
 Dimension "A1" is for motors with brake.
 Le dimensions "A1" correspondent aux moteurs
 équipés de freins.



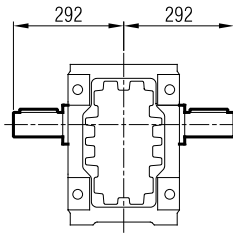
... -SR



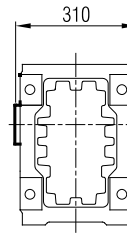
... -SL



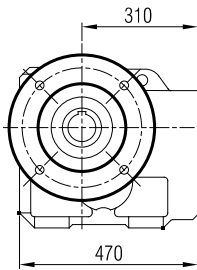
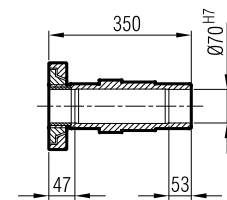
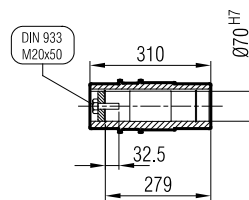
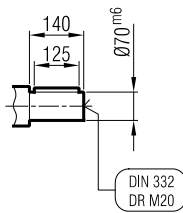
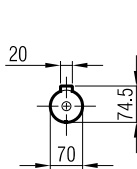
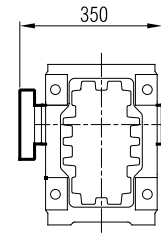
... -SD



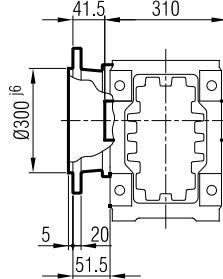
... -H



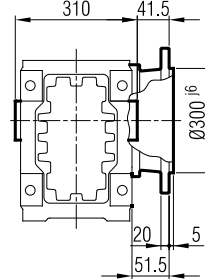
... -SDL / SDR



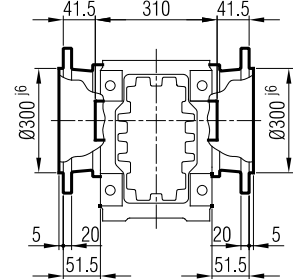
... -FR



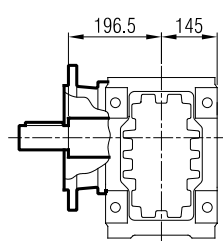
... -FL



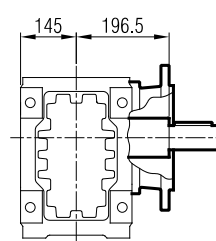
... -FD



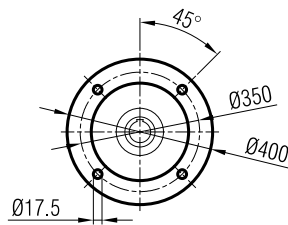
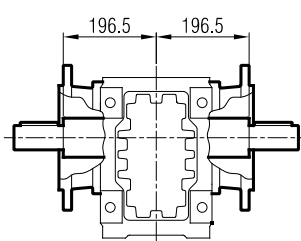
... -FR-SR



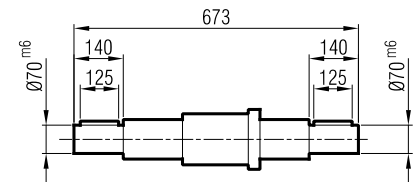
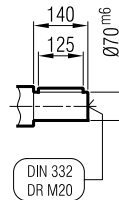
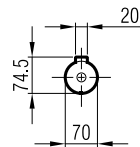
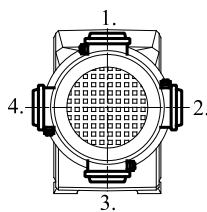
... -FL-SL



... -FD-SD

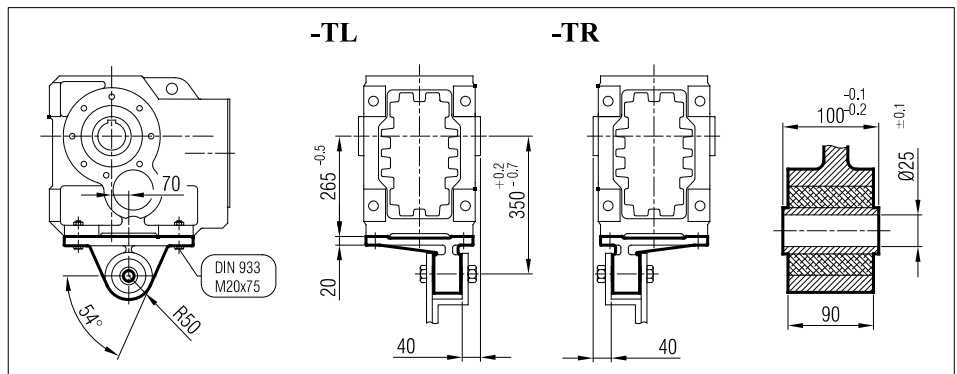


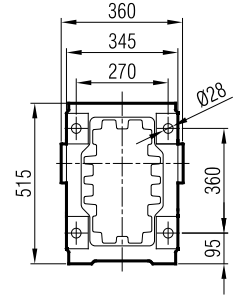
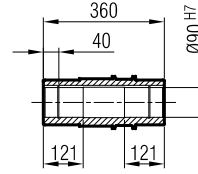
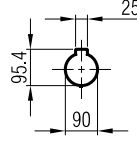
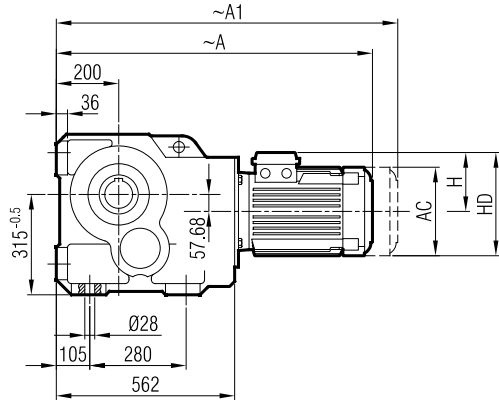
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



-TL

-TR



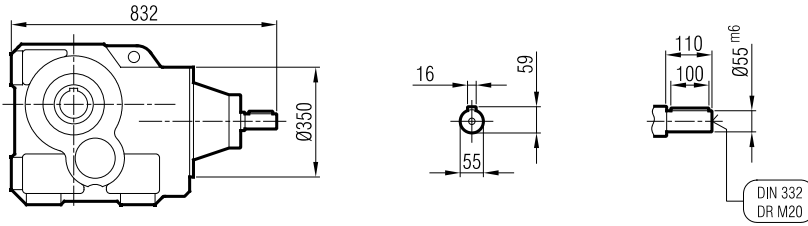
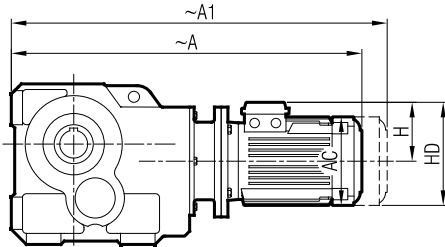

İRKM 123


	100 L	112 M	132 S	132 M	160 M	160 L	180 M	180 L	200 L	225 S	225 M
A	929	900	950	995	1073	1118	1145	1182	1280	1239	1332
A1	1006	995	1054	1099	1190	1235	1281	1318	1427	1386	1479
AC	195	220	262	262	315	315	357	357	394	456	456
H	161	170	193	193	240	240	260	260	300	313	313
HD	261	282	325	325	400	400	440	440	500	538	538

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

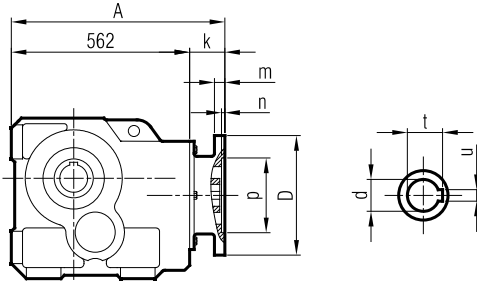
İRK 123

İRKPM 123


IEC	100 L B5	112 M B5	132 S B5	132 M B5	160 M B5	160 L B5	180 M B5	180 L B5	200 L B5	225 S B5	225 M B5
A	991	963	1047	1088	1173	1218	1294	1294	1430	1413	1473
A1	1068	1058	1151	1192	1290	1335	1430	1430	1577	1560	1620
AC	195	220	262	262	315	315	357	357	394	456	456
H	161	170	193	193	240	240	260	260	300	313	313
HD	261	282	325	325	400	400	440	440	500	538	538

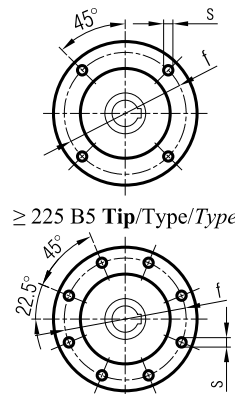
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKPM 123


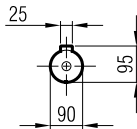
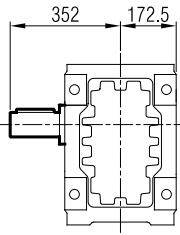
B14 & ≤ 200 B5
Tip/Type/Type



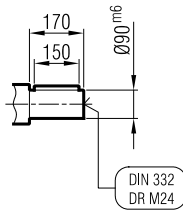
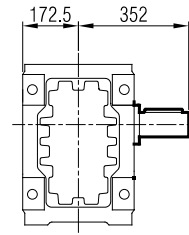
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
100	619	180	215	250	M12	57	15	5	28	31.3	8
112	619	180	215	250	M12	57	15	5	28	31.3	8
132	646	230	265	300	M12	84	17	66	38	41.3	10
160	653	250	300	350	M14	91	18	.5	42	45.3	12
180	653	250	300	350	M14	91	18	6.5	48	51.8	14
200	721	300	350	400	M16	159	20	6.5	55	59.3	16
225	728	350	400	450	M16	166	24	6.5	60	69.4	18
100	619	110	130	160	Ø9	57	11	5	28	31.3	8
112	619	110	130	160	Ø9	57	11	5	28	31.3	8
132	646	130	165	200	Ø11	84	13	5	38	41.3	10
160	657	180	215	250	Ø14	95	16	6	42	45.3	12



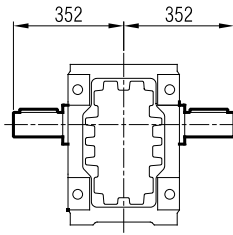
... -SR



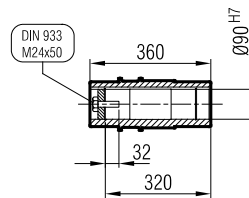
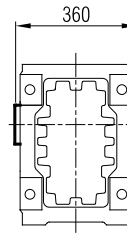
... -SL



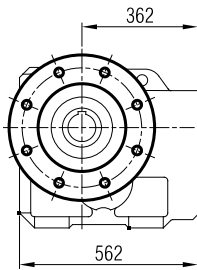
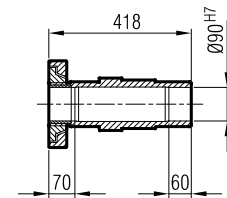
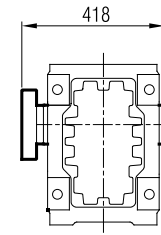
... -SD



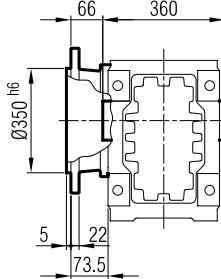
... -H



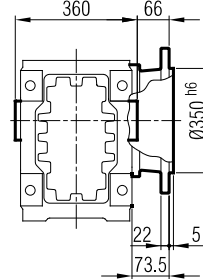
... -SDL / SDR



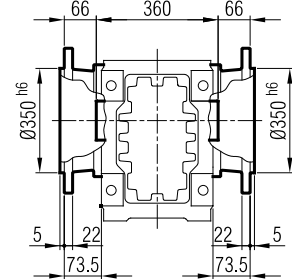
... -FR



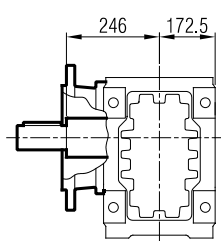
... -FL



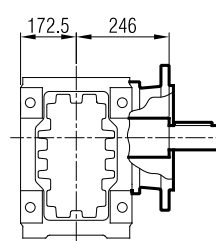
... -FD



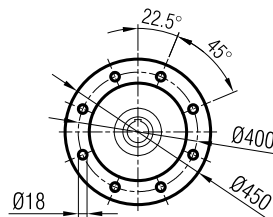
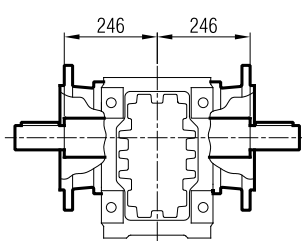
... -FR-SR



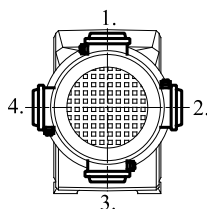
... -FL-SL



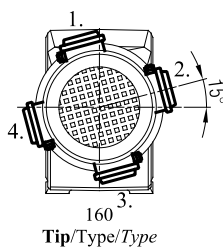
... -FD-SD



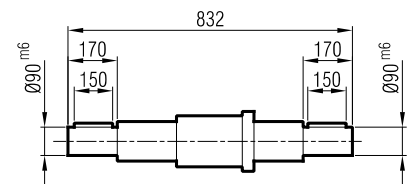
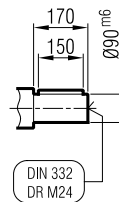
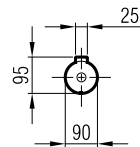
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



100-112-132-180-200-225
Tip/Type/Type

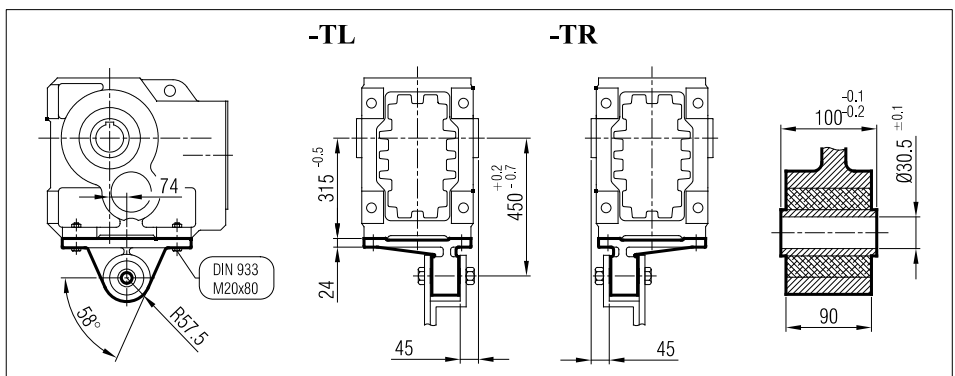


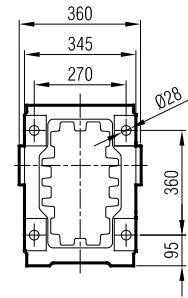
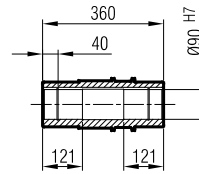
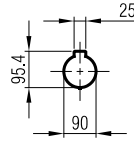
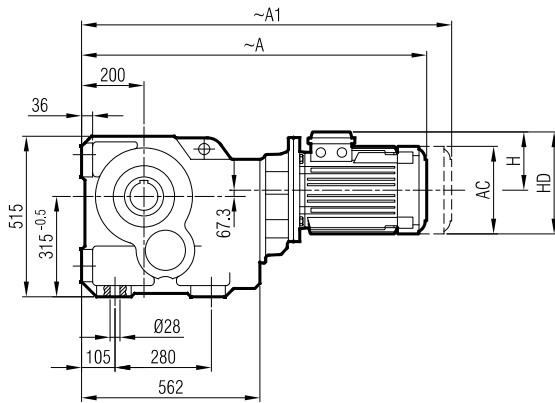
Tip/Type/Type



-TL

-TR



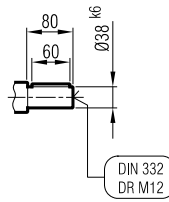
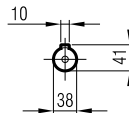
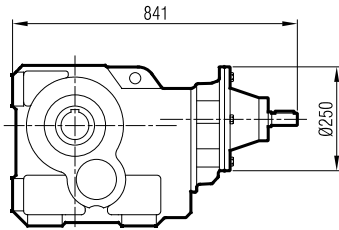
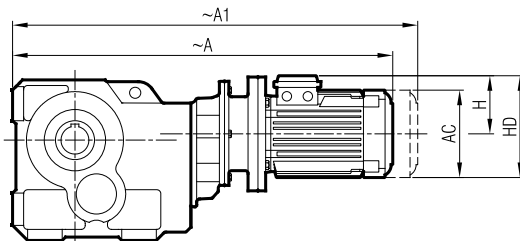

İRKM 124


	90 S	90 L	100 L	112 M	132 S	132 M	160 M
A	919	983	1023	997	1067	1112	1220
A1	986	1050	1100	1092	1171	1216	1337
AC	176	176	195	220	262	262	315
H	141	141	161	170	193	193	240
HD	231	231	261	282	325	325	400

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

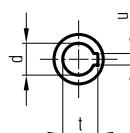
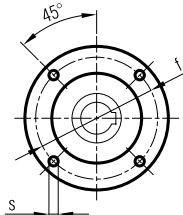
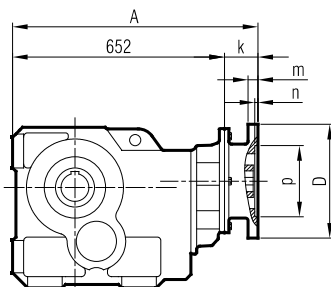
İRK 124

İRKPM 124


IEC	90 S/B5	90 L/B5	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 M/B5
A	1003	1041	1082	1054	1148	1189	1283
A1	1070	1108	1159	1149	1252	1293	1400
AC	176	176	195	220	262	262	315
H	141	141	161	170	193	193	240
HD	231	231	261	282	325	325	400

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

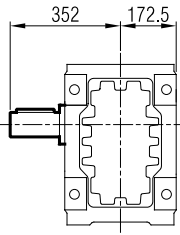
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRKPM 124


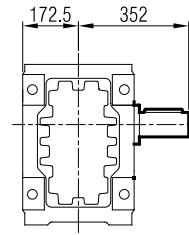
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
90	B5	701	130	165	200	M10	66	12	5	24	27.3	8
100		710	180	215	250	M12	74	14	5	28	31.3	8
112		710	180	215	250	M12	74	14	5	28	31.3	8
132		747	230	265	300	M12	95	17	5	38	41.3	10
160		763	250	300	350	M14	111	18	6.5	42	45.3	12
90	B14	718	95	115	140	Ø9	66	12	5	24	27.3	8
100		719	110	130	160	Ø9	67	11	5	28	31.3	8
112		719	110	130	160	Ø9	67	11	5	28	31.3	8
132		747	130	165	200	Ø11	95	13	5	38	41.3	10
160		763	180	215	250	Ø14	111	16	6	42	45.3	12



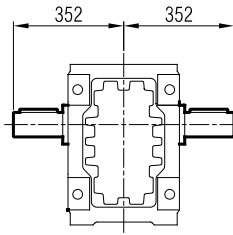
... -SR



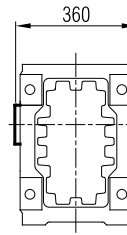
... -SL



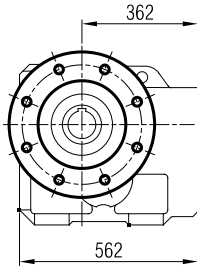
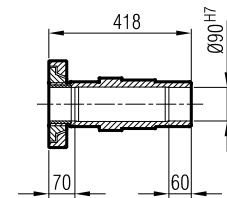
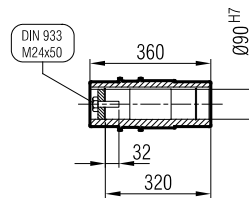
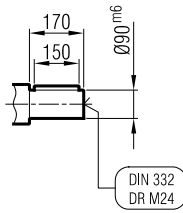
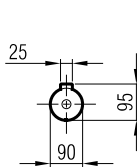
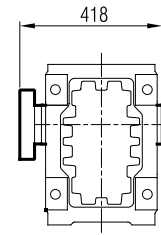
... -SD



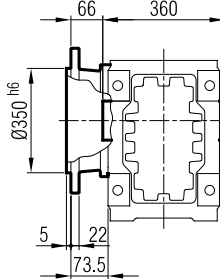
... -H



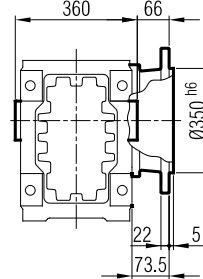
... -SDL / SDR



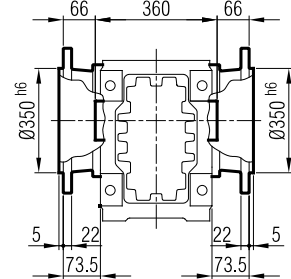
... -FR



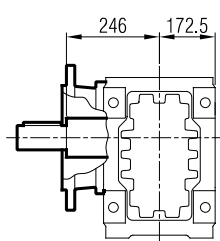
... -FL



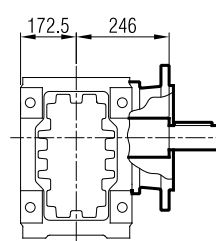
... -FD



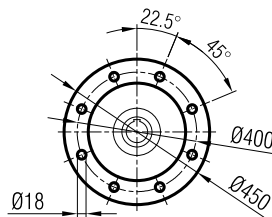
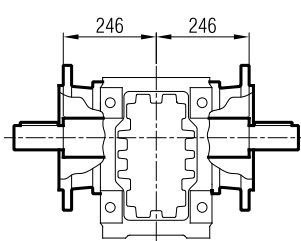
... -FR-SR



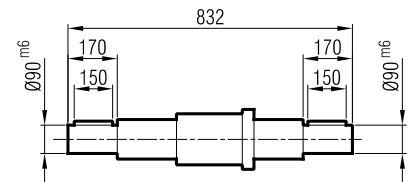
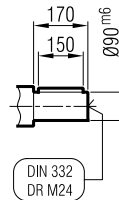
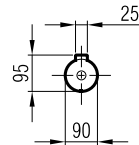
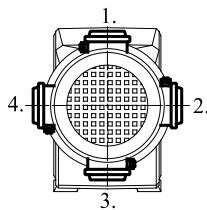
... -FL-SL



... -FD-SD

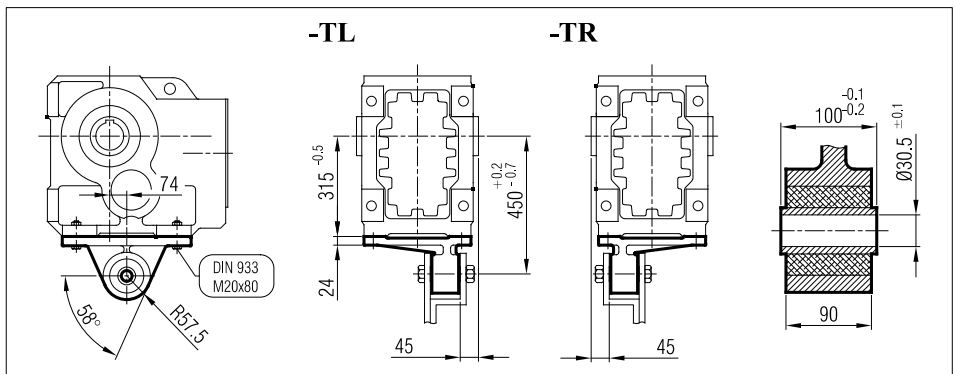


Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



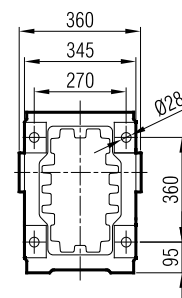
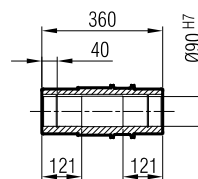
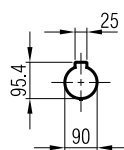
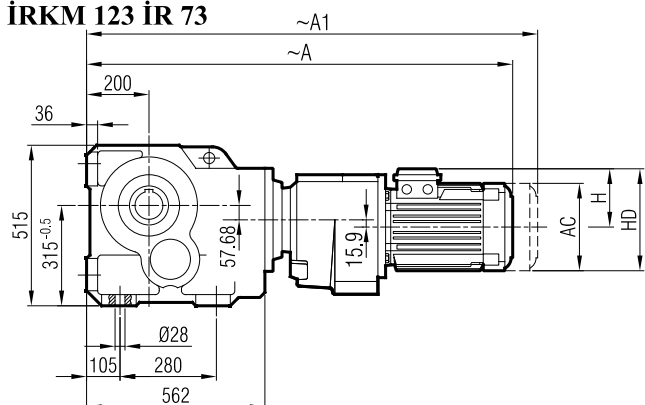
-TL

-TR



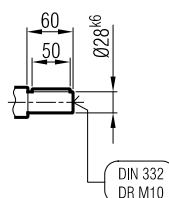
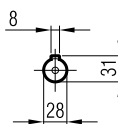
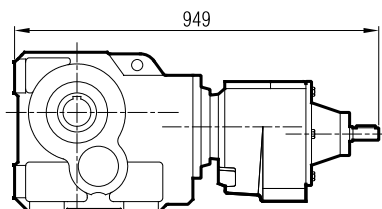


İRKİM 123 İR 72
İRKİM 123 İR 73

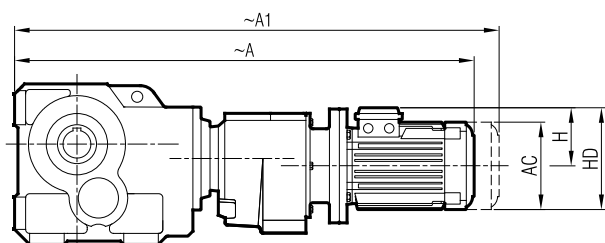


	71 M	80 M	90 S	90 L	100 L	112 M	132 S
A	998	1071	1064	1128	1169	1144	1200
A1	1052	1132	1131	1195	1246	1239	1304
AC	138.5	158	176	176	195	220	262
H	123	136	141	141	161	170	193
HD	194	216	231	231	261	282	325

İRK 123 İR 72
İRK 123 İR 73

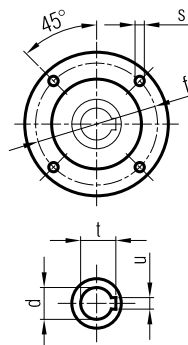
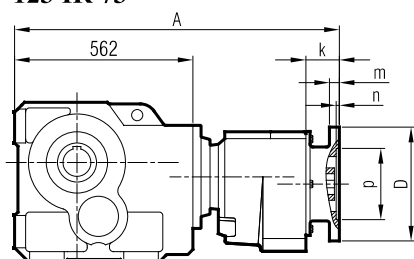


İRKPM 123 İR 72
İRKPM 123 İR 73



IEC	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5
A	1070	1145	1154	1192	1229	1200	1282
A1	1124	1206	1221	1259	1306	1295	1386
AC	138.5	158	176	176	195	220	262
H	123	136	141	141	161	170	193
HD	194	216	231	231	261	282	325

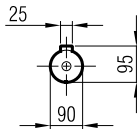
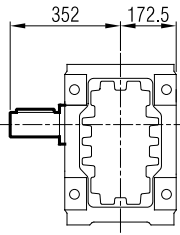
İRKP 123 İR 72
İRKP 123 İR 73



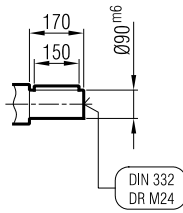
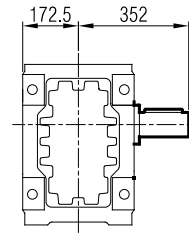
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
71	B5	840	110	130	160	M8	55	10	4	14	16.3	5
80		852	130	165	200	M10	67	12	5	19	21.8	6
90		852	130	165	200	M10	67	12	5	24	27.3	8
100		857	180	215	250	M12	71.5	14	5	28	31.3	8
112		857	180	215	250	M12	71.5	14	5	28	31.3	8
132		881	230	265	300	M12	95.5	17	5	38	41.3	10
71	B14	840	70	85	105	Ø7	55	10	3	14	16.3	5
80		852	80	100	120	Ø7	67	12	4	19	21.8	6
90		852	95	115	140	Ø9	67	12	5	24	27.3	8
100		861	110	130	160	Ø9	76	12	5	28	31.3	8
112		861	110	130	160	Ø9	76	12	5	28	31.3	8
132		864	130	165	200	Ø11	79	13	5	38	41.3	10



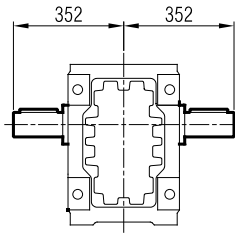
... -SR



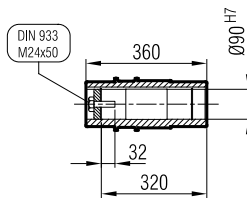
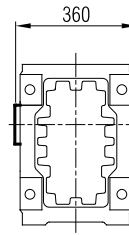
... -SL



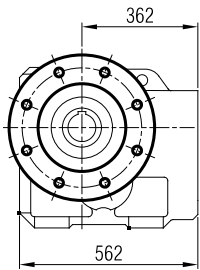
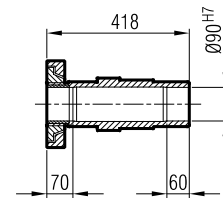
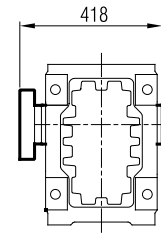
... -SD



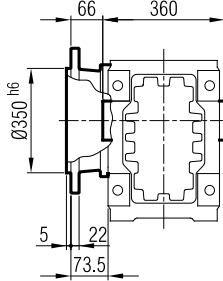
... -H



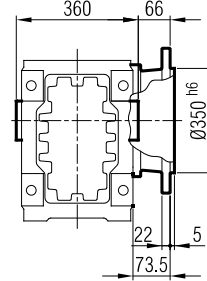
... -SDL / SDR



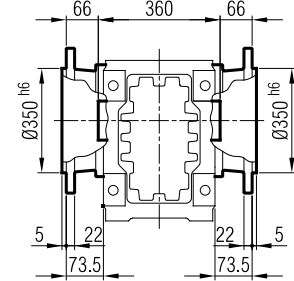
... -FR



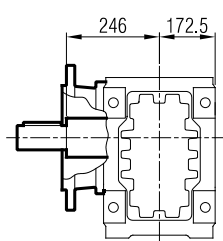
... -FL



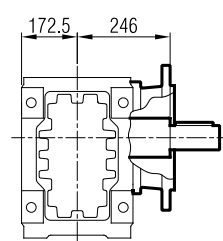
... -FD



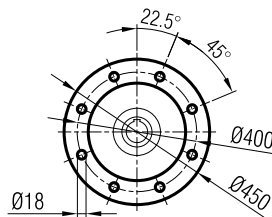
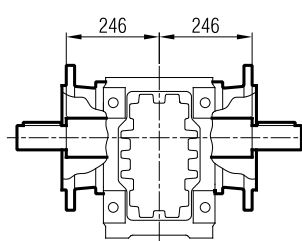
... -FR-SR



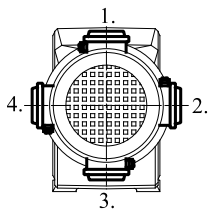
... -FL-SL



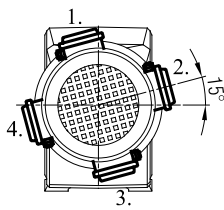
... -FD-SD



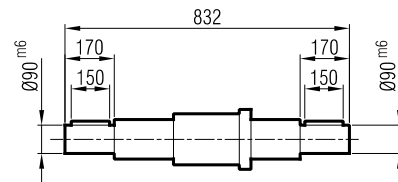
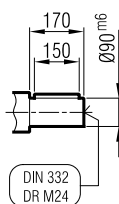
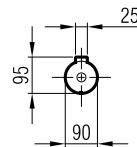
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



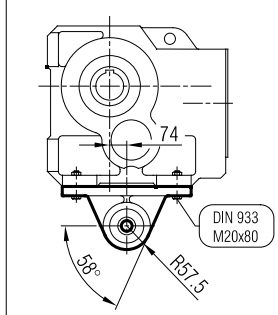
71-90-100-112-132
Tip/Type/Type



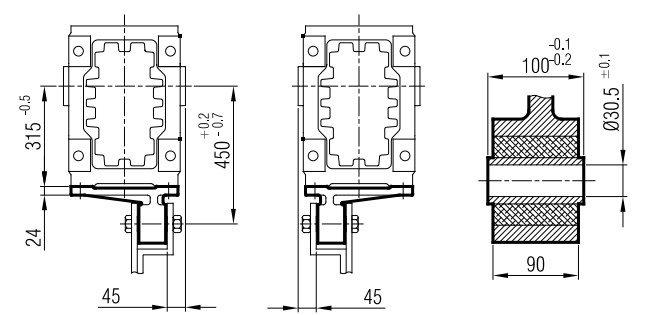
80
Tip/Type/Type

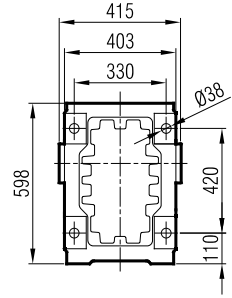
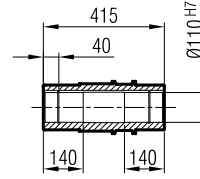
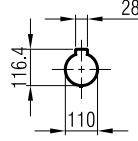
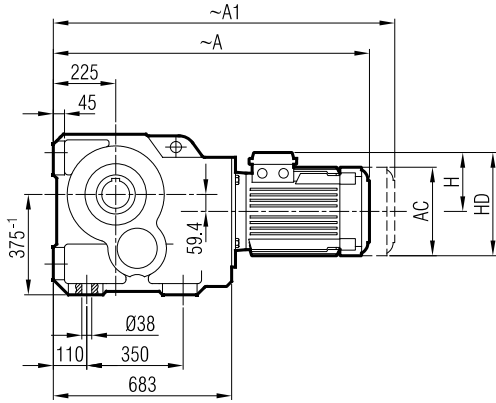


-TL



-TR



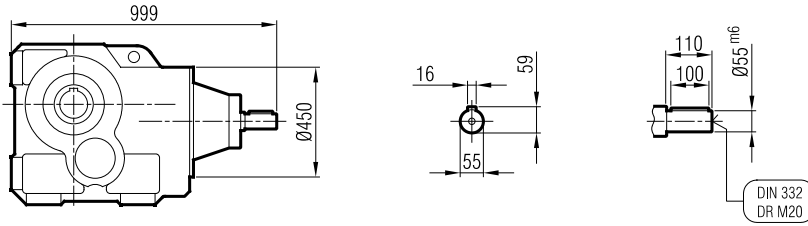
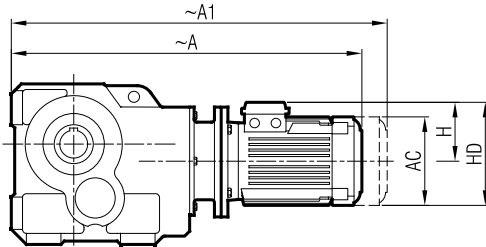

İRKM 143


	132 S	132 M	160 M	160 L	180 M	180 L	200 L	225 S	225 M	250 M	280 S	280 M
A	1059	1104	1190	1235	1249	1286	1381	1339	1432	1445	1506	1506
A1	1163	1208	1307	1352	1385	1422	1528	1486	1579	1592	1754	1754
AC	262	262	315	315	357	357	394	456	456	489	547.5	547.5
H	193	193	240	240	260	260	300	313	313	366	398	398
HD	325	325	400	400	440	440	500	538	538	616	678	678

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

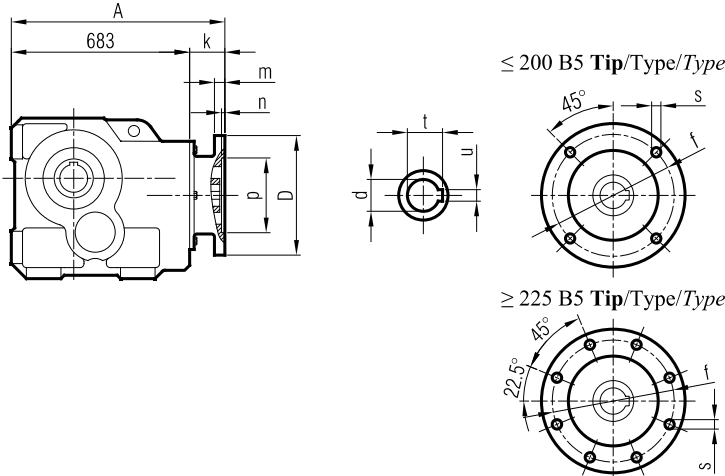
İRK 143

İRKPM 143


IEC	132 S B5	132 M B5	160 M B5	160 L B5	180 M B5	180 L B5	200 L B5	225 S B5	225 M B5	250 M B5	280 S B5	280 M B5
A	1150	1191	1294	1339	1415	1415	1551	1536	1596	1646	1736	1736
A1	1254	1295	1411	1456	1551	1551	1698	1683	1743	1793	1984	1984
AC	262	262	315	315	357	357	394	456	456	489	547.5	547.5
H	193	193	240	240	260	260	300	313	313	366	398	398
HD	325	325	400	400	440	440	500	538	538	616	678	678

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

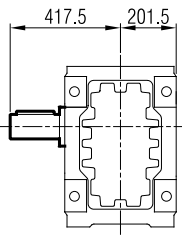
Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKP 143


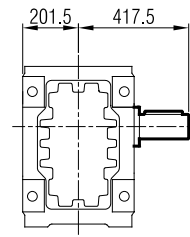
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
132	749	230	265	300	M12	61	17	6	38	41.3	10
160	774	250	300	350	M14	91	18	6.5	42	45.3	12
180	774	250	300	350	M14	91	18	6.5	48	51.8	14
200	842	300	350	400	M16	159	20	6.5	55	59.3	16
225	851	350	400	450	M16	168	22	6.5	60	64.4	18
250	851	450	500	550	M16	168	22	6.5	65	69.4	18
280	851	450	500	550	M16	168	22	6.5	75	75.9	20



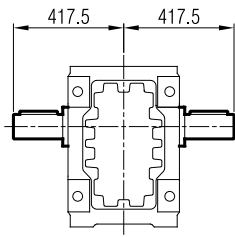
... -SR



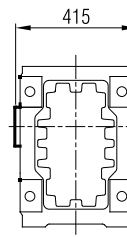
... -SL



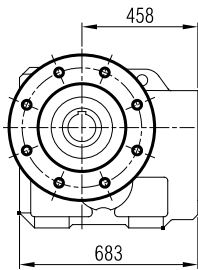
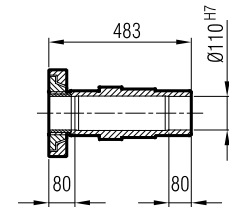
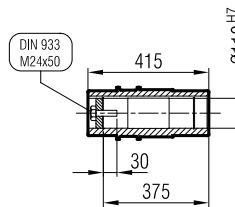
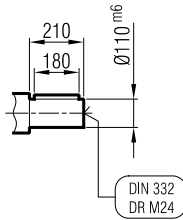
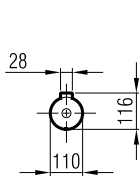
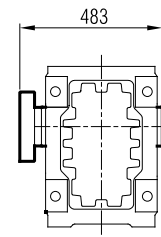
... -SD



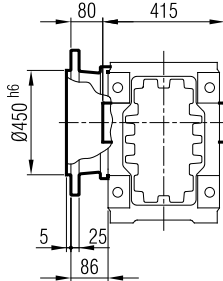
... -H



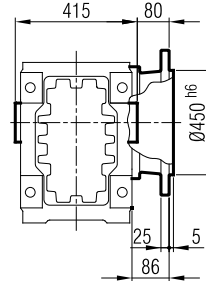
... -SDL / SDR



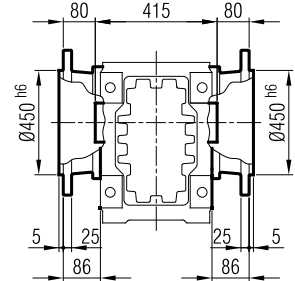
... -FR



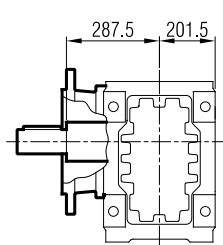
... -FL



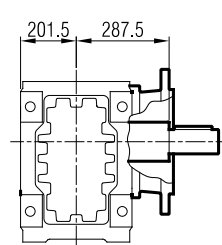
... -FD



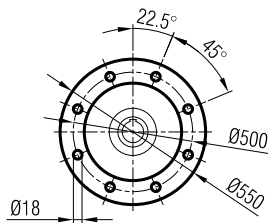
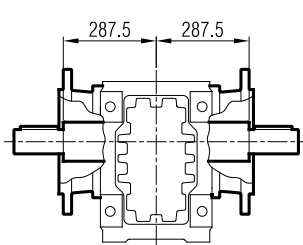
... -FR-SR



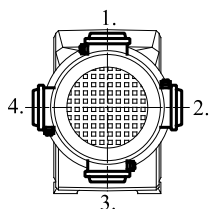
... -FL-SL



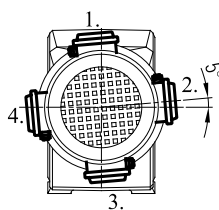
... -FD-SD



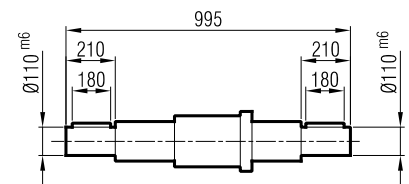
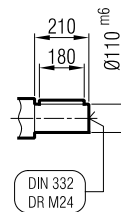
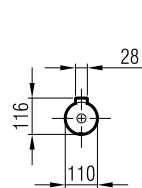
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



132-160-180-225-250-280
Tip/Type/Type

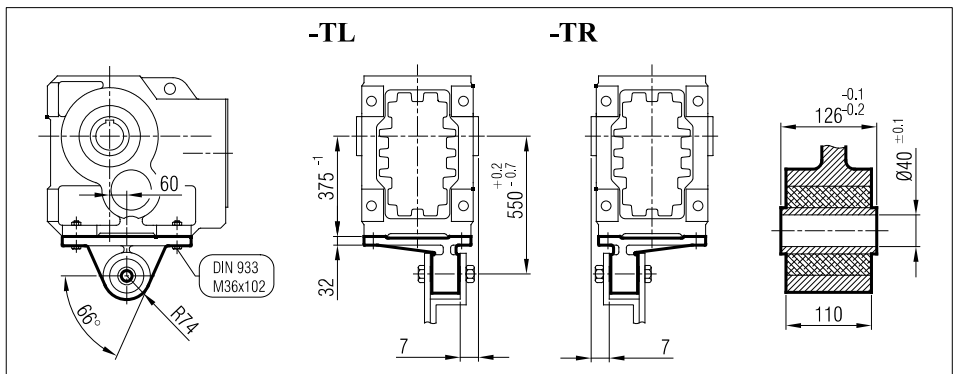


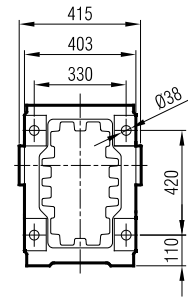
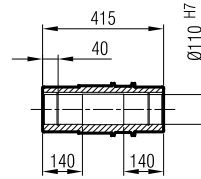
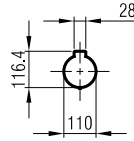
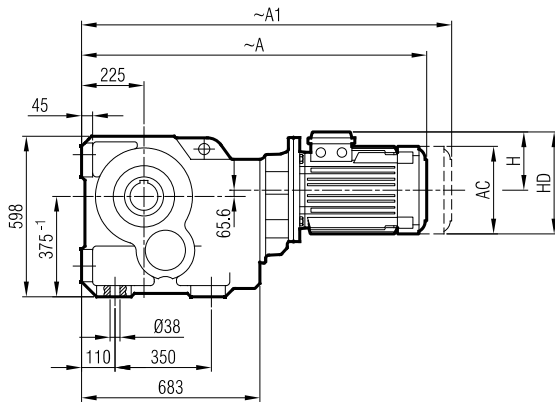
200
Tip/Type/Type



-TL

-TR



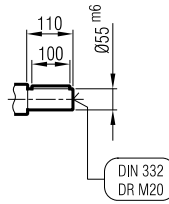
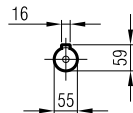
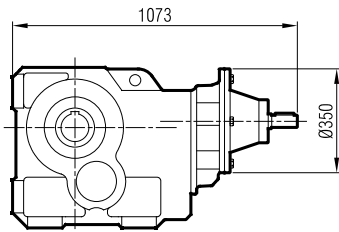
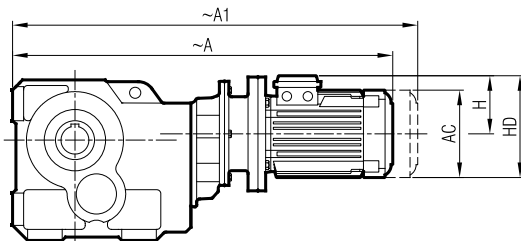

İRKM 144


	100 L	112 M	132 S	132 M	160 M
A	1170	1141	1191	1236	1314
A1	1247	1236	1295	1340	1431
AC	195	220	262	262	315
H	161	170	193	193	240
HD	261	282	325	325	400

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

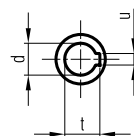
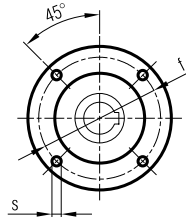
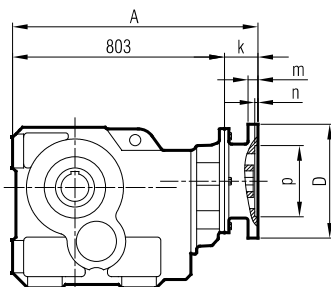
İRK 144

İRKPM 144


IEC	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 M/B5
A	1082	1054	1148	1189	1283
A1	1159	1149	1252	1293	1400
AC	195	220	262	262	315
H	161	170	193	193	240
HD	261	282	325	325	400

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

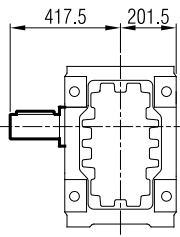
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRKP 144


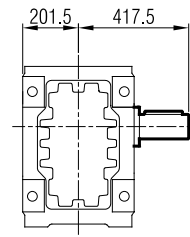
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
100	860	180	215	250	M12	57	15	5	28	31.3	8
112	860	180	215	250	M12	57	15	5	28	31.3	8
132	887	230	265	300	M12	84	17	5	38	41.3	10
160	894	250	300	350	M14	91	18	6.5	42	45.3	12
100	860	110	130	160	Ø9	57	11	5	28	31.3	8
112	860	110	130	160	Ø9	57	11	5	28	31.3	8
132	887	130	165	200	Ø11	84	13	5	38	41.3	10
160	898	180	215	250	Ø14	95	16	6	42	45.3	12



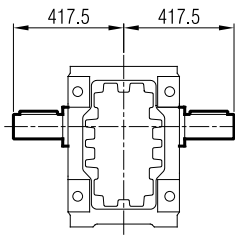
... -SR



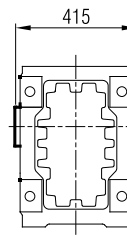
... -SL



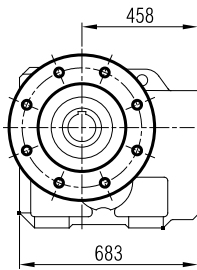
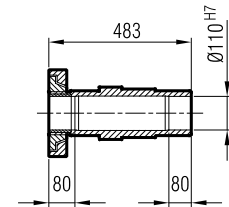
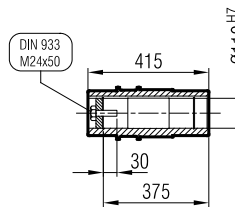
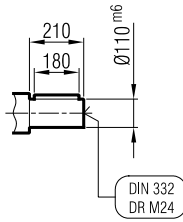
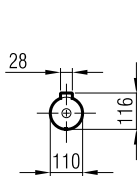
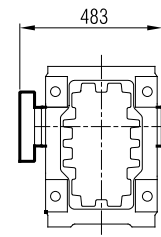
... -SD



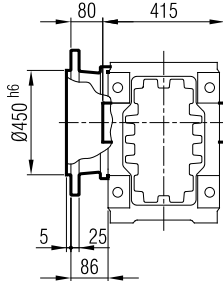
... -H



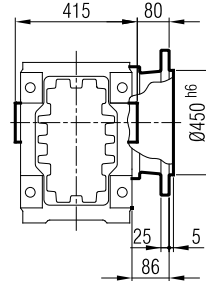
... -SDL / SDR



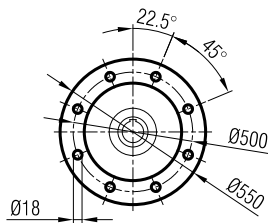
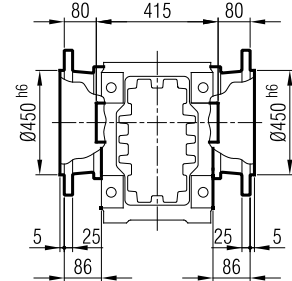
... -FR



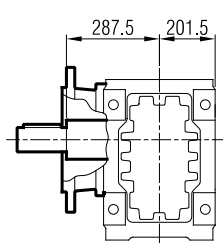
... -FL



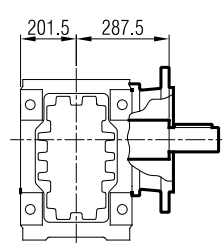
... -FD



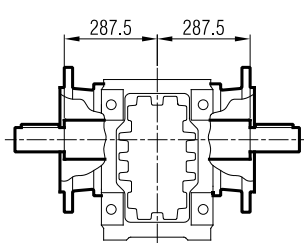
... -FR-SR



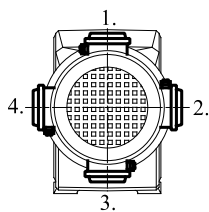
... -FL-SL



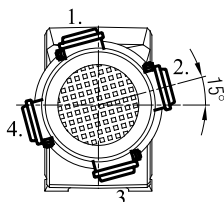
... -FD-SD



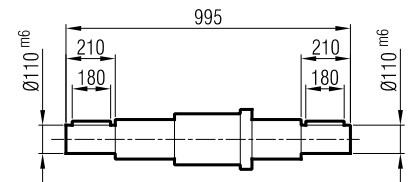
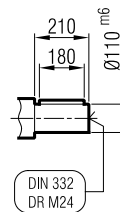
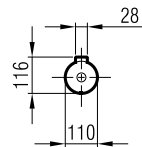
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



100-112-132
Tip/Type/Type

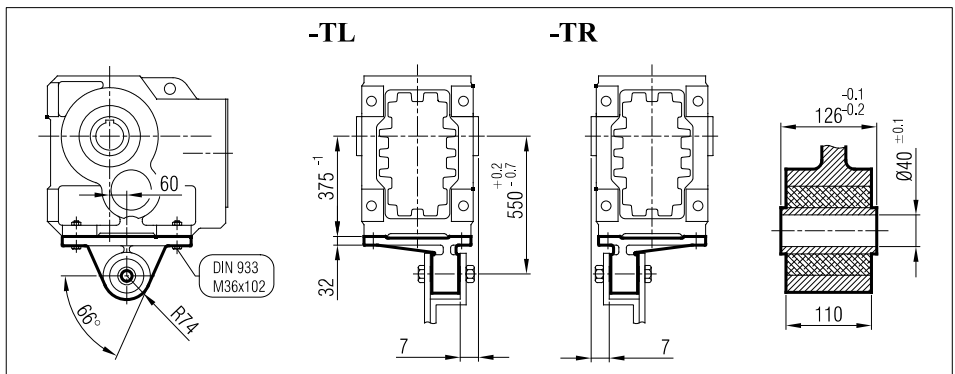


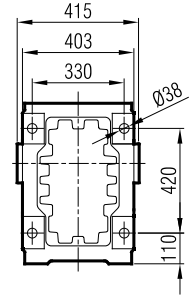
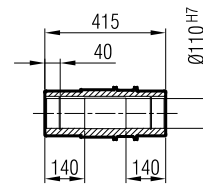
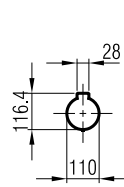
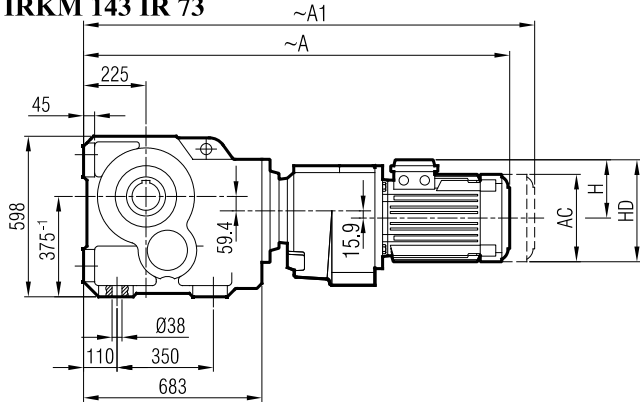
160
Tip/Type/Type



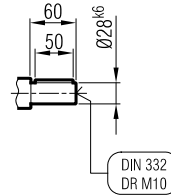
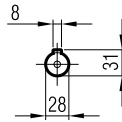
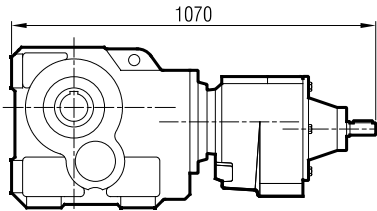
-TL

-TR

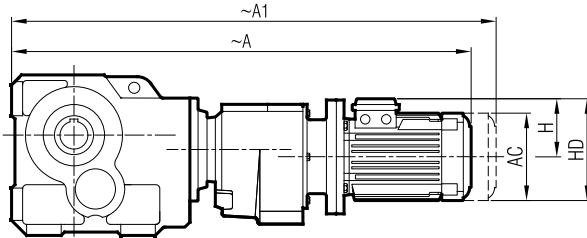



İRKM 143 İR 72
İRKM 143 İR 73


	71 M	80 M	90 S	90 L	100 L	112 M	132 S	132 M
A	1119	1192	1185	1249	1290	1265	1321	1366
A1	1173	1253	1252	1316	1367	1360	1425	1470
AC	138.5	158	176	176	195	220	262	262
H	123	136	141	141	161	170	193	193
HD	194	216	231	231	261	282	325	325

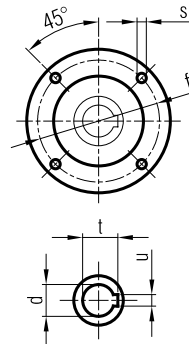
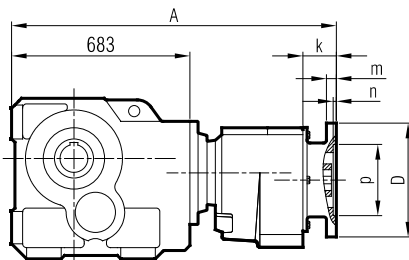
İRK 143 İR 72
İRK 143 İR 73


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

İRKPM 143 İR 72
İRKPM 143 İR 73


IEC	71 M B5	80 M B5	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5	132 M B5
A	1191	1266	1275	1313	1350	1321	1403	1443
A1	1245	1327	1342	1380	1427	1416	1507	1547
AC	138.5	158	176	176	195	220	262	262
H	123	136	141	141	161	170	193	193
HD	194	216	231	231	261	282	325	325

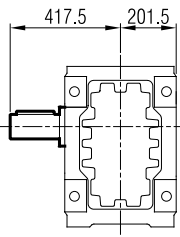
"A1" Ölçüsü Frenli Motorlar içindir.
 Dimension "A1" is for motors with brake.
 Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRKP 143 İR 72
İRKP 143 İR 73


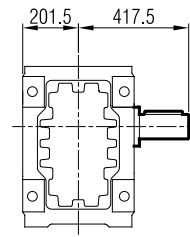
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
71	961	110	130	160	M8	55	10	4	14	16.3	5
80	973	130	165	200	M10	67	12	5	19	21.8	6
90	973	130	165	200	M10	67	12	5	24	27.3	8
100	978	180	215	250	M12	71.5	14	5	28	31.3	8
112	978	180	215	250	M12	71.5	14	5	28	31.3	8
132	1002	230	265	300	M12	95.5	17	5	38	41.3	10
71	961	70	85	105	Ø7	55	10	3	14	16.3	5
80	973	80	100	120	Ø7	67	12	4	19	21.8	6
90	973	95	115	140	Ø9	67	12	5	24	27.3	8
100	982	110	130	160	Ø9	76	12	5	28	31.3	8
112	982	110	130	160	Ø9	76	12	5	28	31.3	8
132	985	130	165	200	Ø11	79	13	5	38	41.3	10



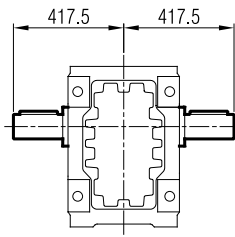
... -SR



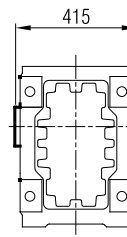
... -SL



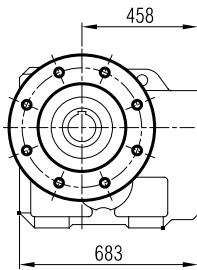
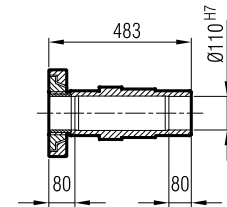
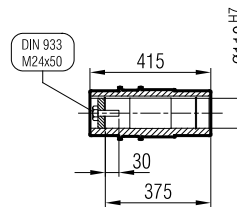
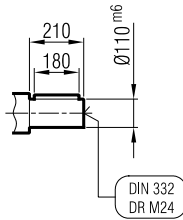
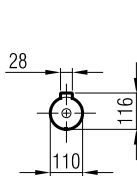
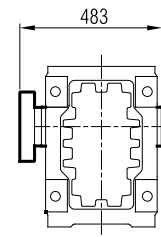
... -SD



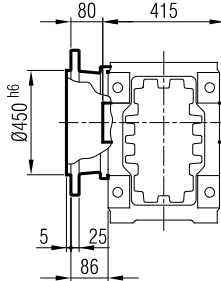
... -H



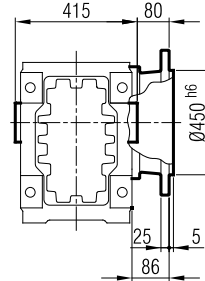
... -SDL / SDR



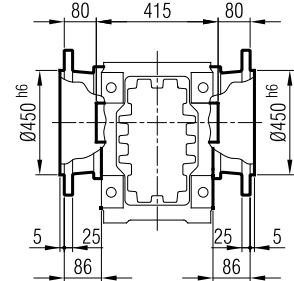
... -FR



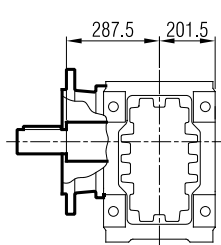
... -FL



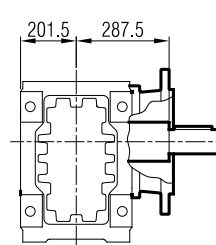
... -FD



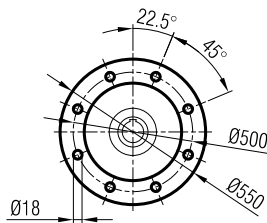
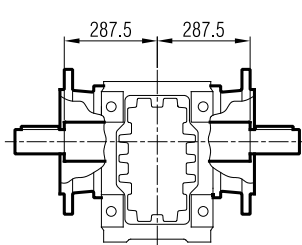
... -FR-SR



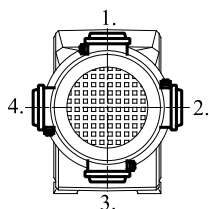
... -FL-SL



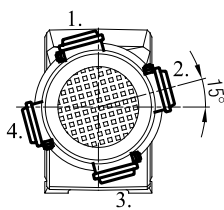
... -FD-SD



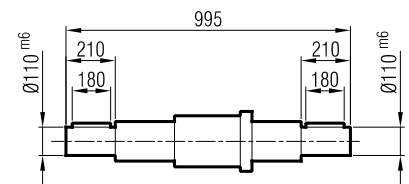
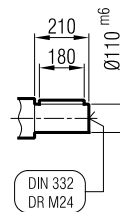
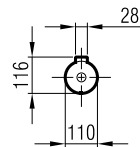
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



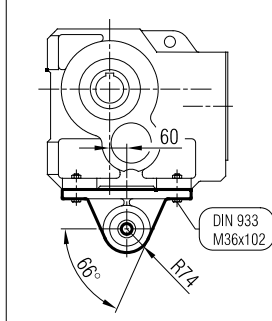
71-90-100-112-132
Tip/Type/Type



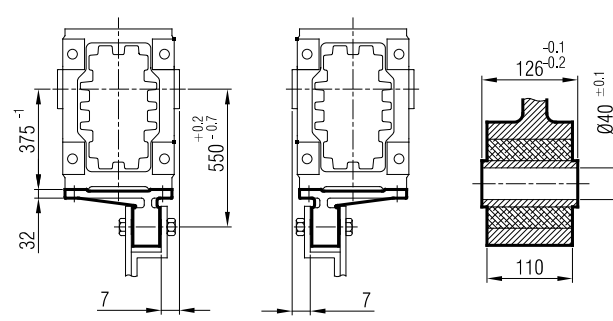
80
Tip/Type/Type

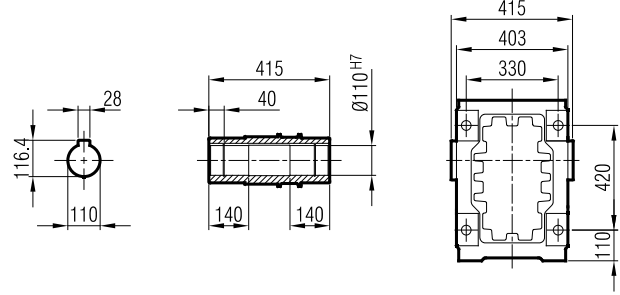
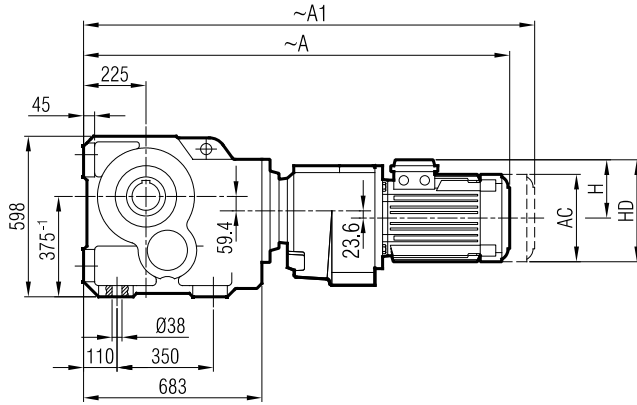


-TL

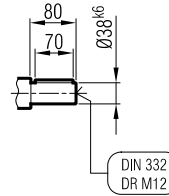
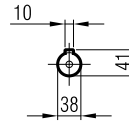
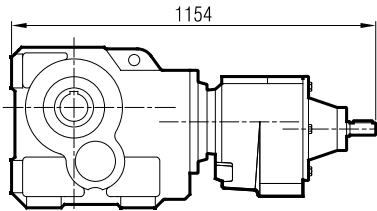


-TR

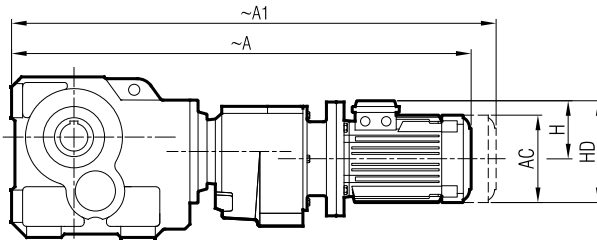



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	90 S	90 L	100 L	112 M	132 S	132 M	160 M
A	1232	1296	1336	1310	1380	1425	1533
A1	1299	1363	1413	1405	1484	1529	1650
AC	176	176	195	220	262	262	315
H	141	141	161	170	193	193	240
HD	231	231	261	282	325	325	400

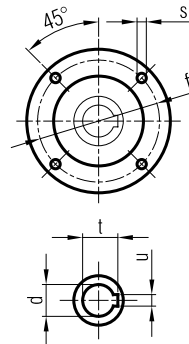
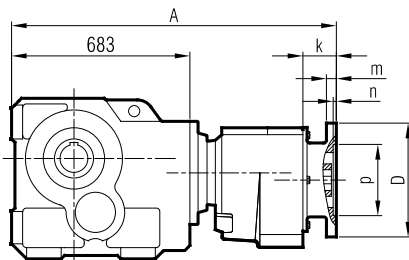
İRK 143 İR 82


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

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IEC	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5	132 M B5	160 M B5
A	1333	1371	1411	1383	1461	1502	1596
A1	1400	1438	1488	1478	1565	1606	1713
AC	176	176	195	220	262	262	315
H	141	141	161	170	193	193	240
HD	231	231	261	282	325	325	400

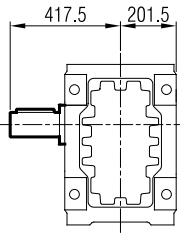
"A1" Ölçüsü Frenli Motorlar içindir.
 Dimension "A1" is for motors with brake.
 Le dimensions "A1" correspond aux moteurs équipés de freins.

İRKP 143 İR 82


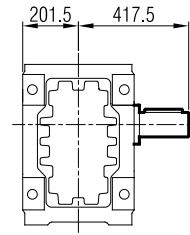
IEC		A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
90	B5	1031	130	165	200	M10	66	12	5	24	27.3	8
100		1039	180	215	250	M12	74	14	5	28	31.3	8
112		1039	180	215	250	M12	74	14	5	28	31.3	8
132		1060	230	265	300	M12	95	17	5	38	41.3	10
160		1076	250	300	350	M14	111	18	6.5	42	45.3	12
90	B14	1031	95	115	140	Ø9	66	12	5	24	27.3	8
100		1032	110	130	160	Ø9	67	11	5	28	31.3	8
112		1032	110	130	160	Ø9	67	11	5	28	31.3	8
132		1060	130	165	200	Ø11	95	13	5	38	41.3	10
160		1076	180	215	250	Ø14	111	16	6	42	45.3	12



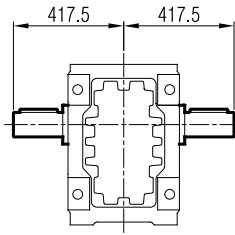
... -SR



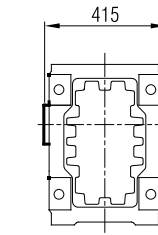
... -SL



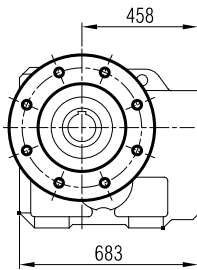
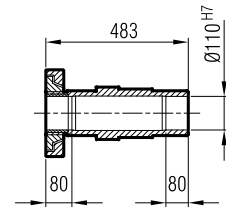
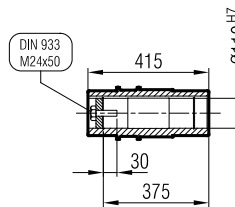
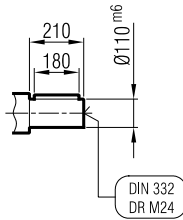
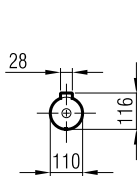
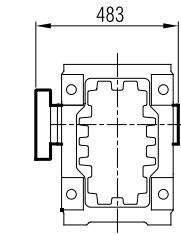
... -SD



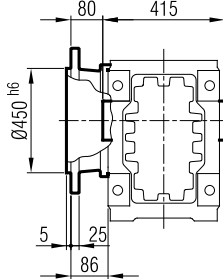
... -H



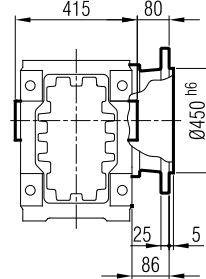
... -SDL / SDR



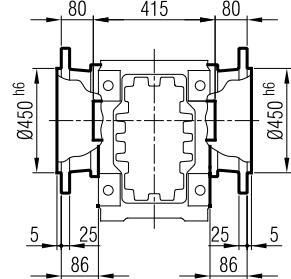
... -FR



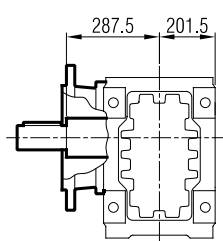
... -FL



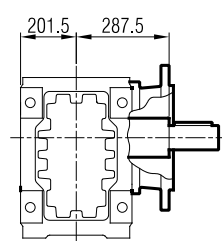
... -FD



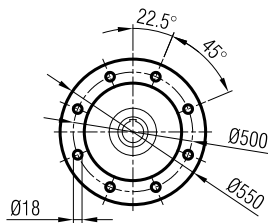
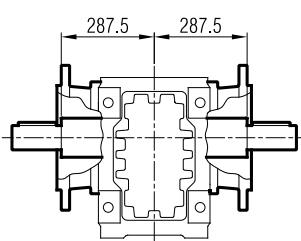
... -FR-SR



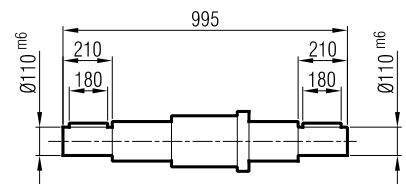
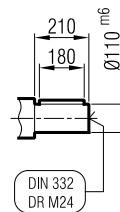
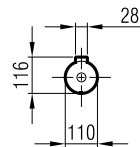
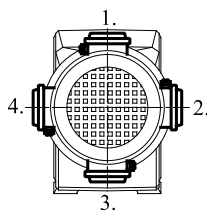
... -FL-SL



... -FD-SD

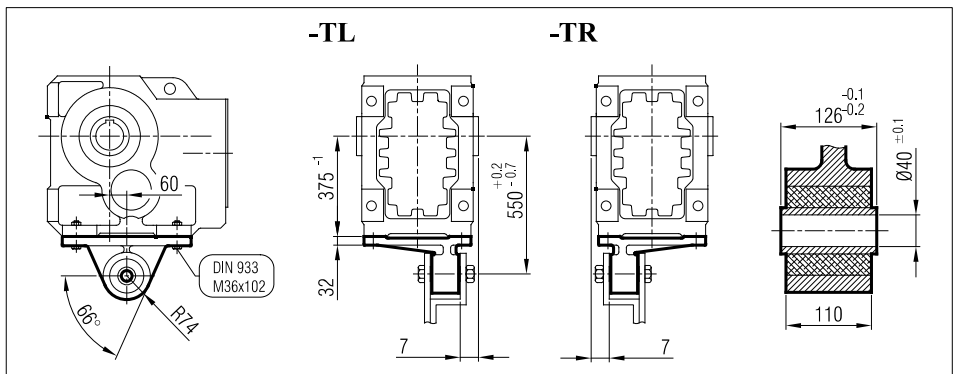


Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



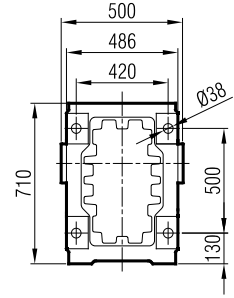
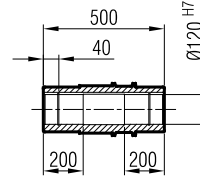
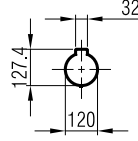
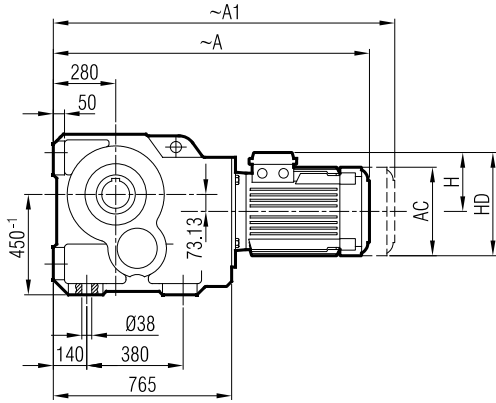
-TL

-TR





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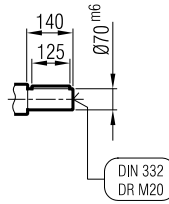
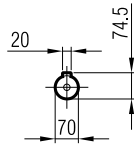
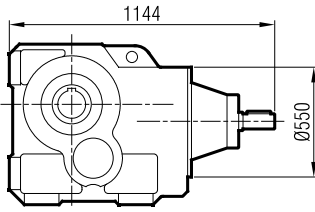
	160 M	160 L	180 M	180 L	200 L	225 S	225 M	250 M	280 S	280 M	315 S	315 M	315 L	315 H
A	1274	1319	1331	1368	1463	1421	1514	1527	1588	1588	1793	1793	1793	1863
A1	1391	1436	1467	1504	1610	1568	1661	1674	1836	1836	2041	2041	2051	2121
AC	315	315	357	357	394	456	456	489	547.5	547.5	652	652	652	652
H	240	240	260	260	300	313	313	366	398	398	518	518	518	518
HD	400	400	440	440	500	538	538	616	678	678	833	833	833	833

"A1" Ölçüsü Frenli Motorlar içindir.

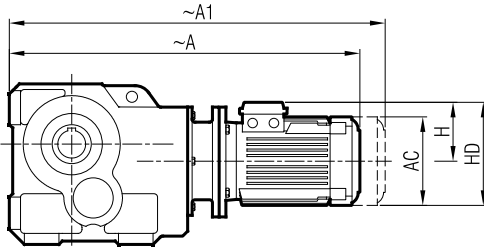
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

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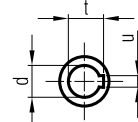
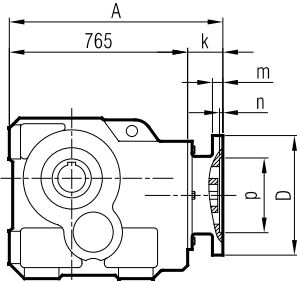
IEC	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5
A	1376	1421	1497	1633	1633	1618	1678	1728
A1	1493	1538	1633	1633	1780	1765	1825	1875
AC	315	315	357	357	394	456	456	489
H	240	240	260	260	300	313	313	366
HD	400	400	440	440	500	538	538	616
IEC	280 S/B5	280 M/B5	315 S/B5	315 M/B5	315 M/B5	315 L/B5	315 H/B5	
A	1818	1818	2039	2039	2150	2150	2150	
A1	2066	2066	2287	2287	2408	2408	2408	
AC	547.5	547.5	652	652	652	652	652	
H	398	398	518	518	518	518	518	
HD	678	678	833	833	833	833	833	

"A1" Ölçüsü Frenli Motorlar içindir.

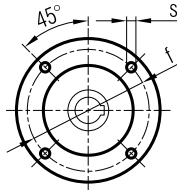
Dimension "A1" is for motors with brake.

Le dimensions "A1" correspond aux moteurs équipés de freins.

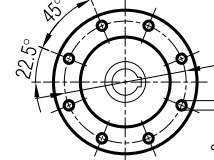
İRKPM 153



≤ 200 B5 Tip/Type/Type



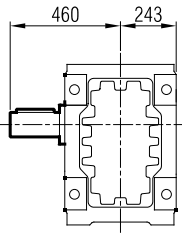
≥ 225 B5 Tip/Type/Type



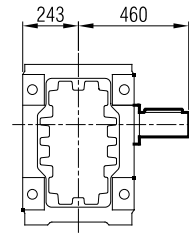
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
160	856	250	300	350	M14	91	18	6.5	42	45.3	12
180	856	250	300	350	M14	91	18	6.5	48	51.8	14
200	924	300	350	400	M16	159	20	6.5	55	59.3	16
225	933	350	400	450	M16	168	22	6.5	60	64.4	18
250	933	450	500	550	M16	168	22	6.5	65	69.4	18
280	933	450	500	550	M16	168	22	6.5	75	75.9	20
315	1003	550	600	660	M20	238	24	7.5	85	90.4	22



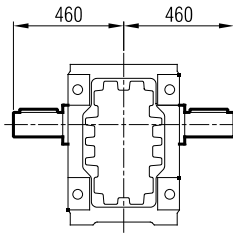
... -SR



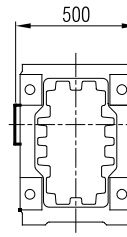
... -SL



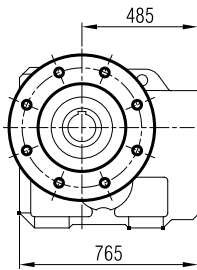
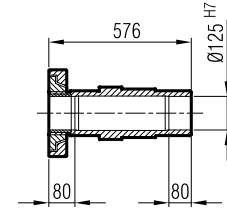
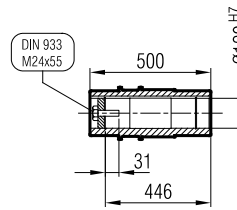
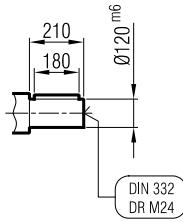
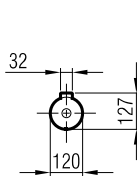
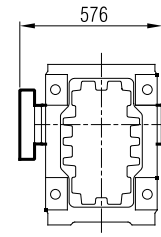
... -SD



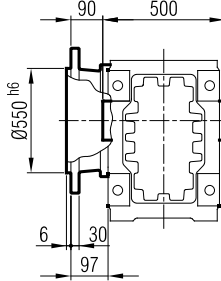
... -H



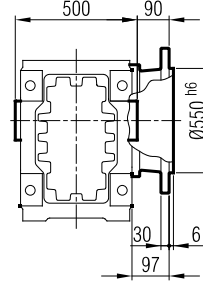
... -SDL / SDR



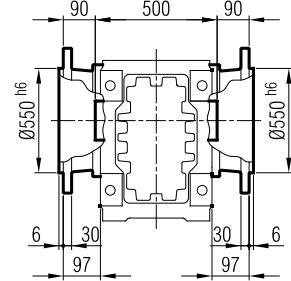
... -FR



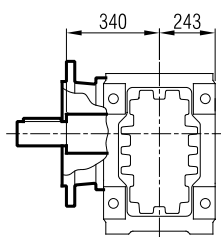
... -FL



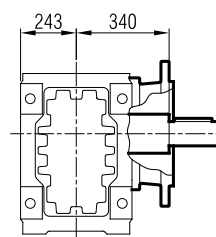
... -FD



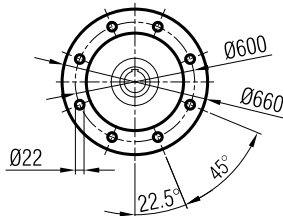
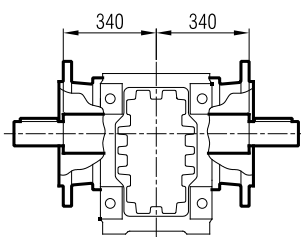
... -FR-SR



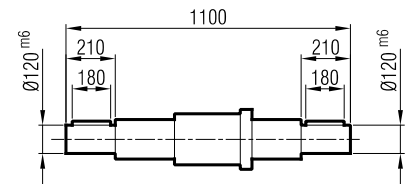
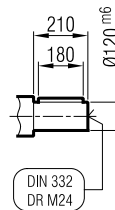
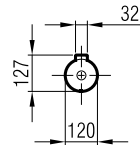
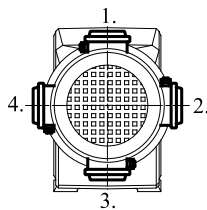
... -FL-SL



... -FD-SD

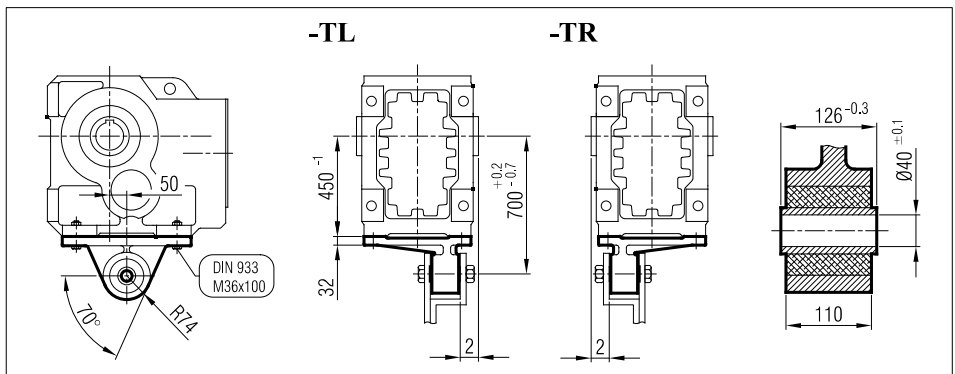


Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



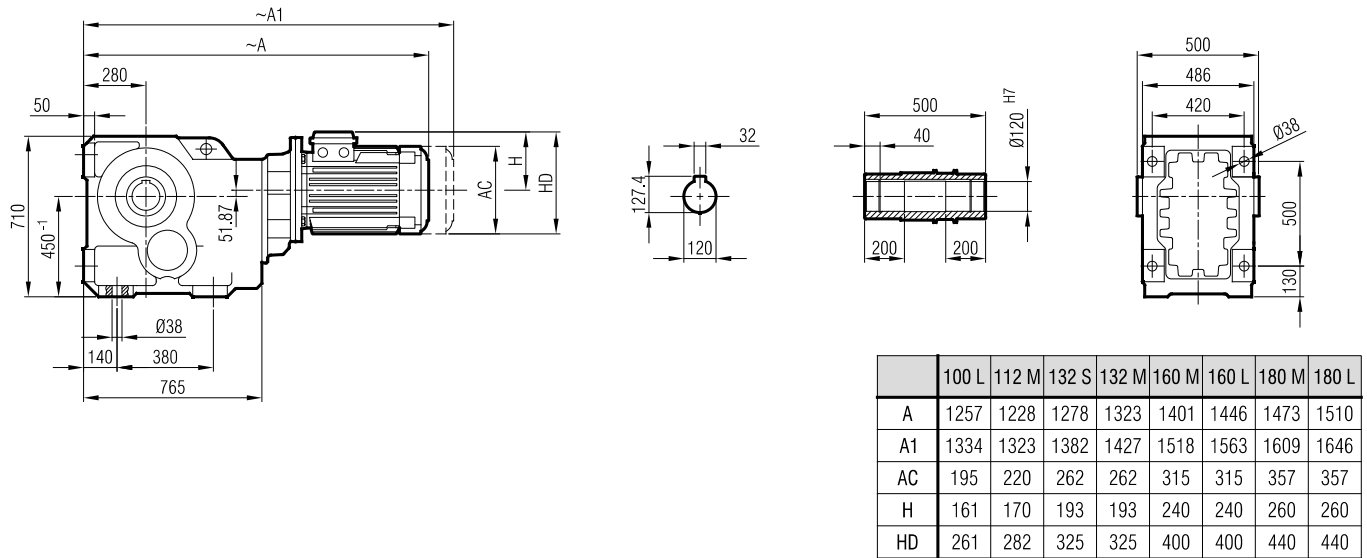
-TL

-TR



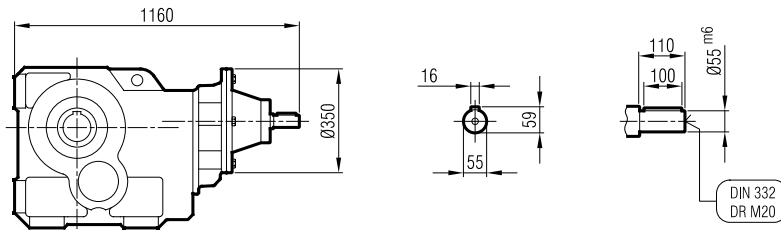


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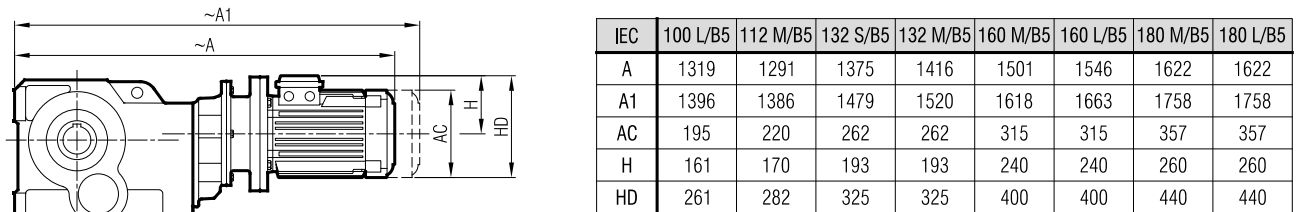


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 154

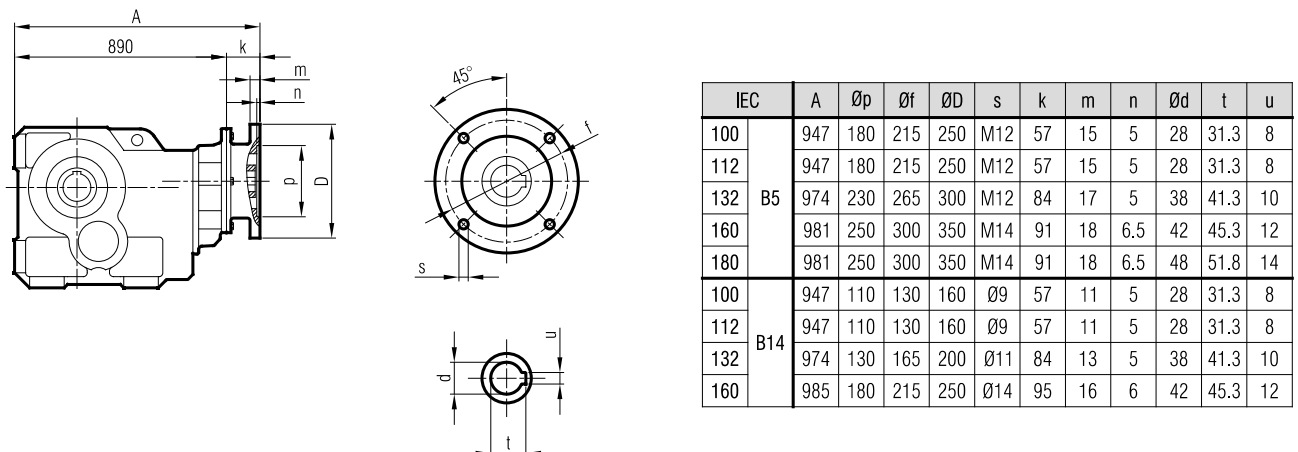


İRKPM 154



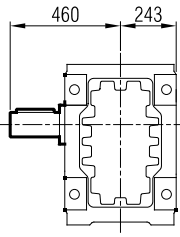
"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 154

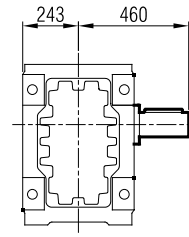




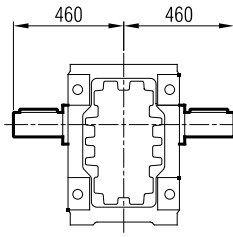
... -SR



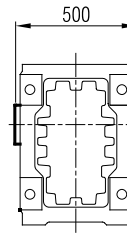
... -SL



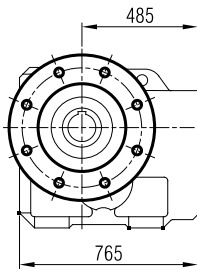
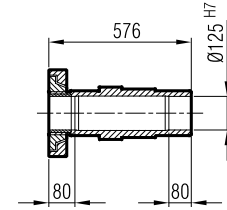
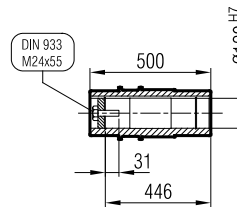
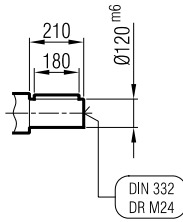
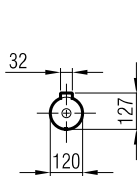
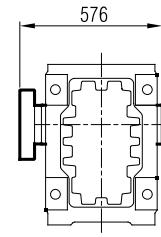
... -SD



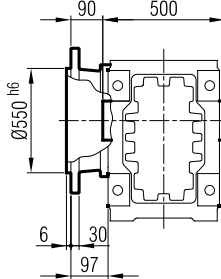
... -H



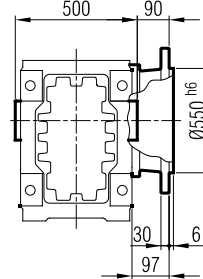
... -SDL / SDR



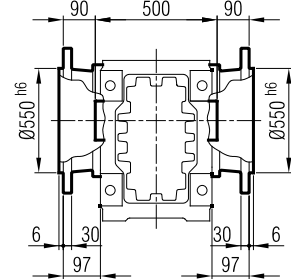
... -FR



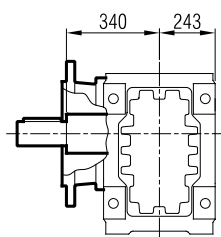
... -FL



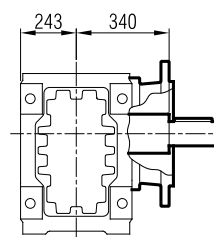
... -FD



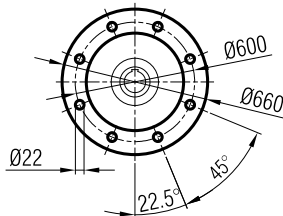
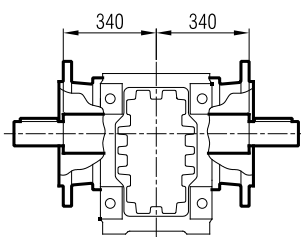
... -FR-SR



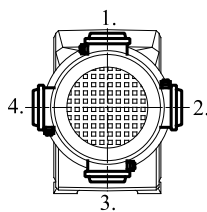
... -FL-SL



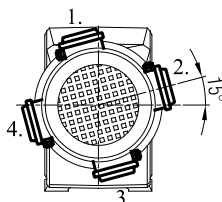
... -FD-SD



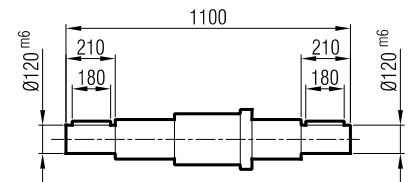
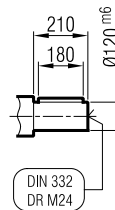
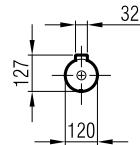
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



100-112-132-180
Tip/Type/Type

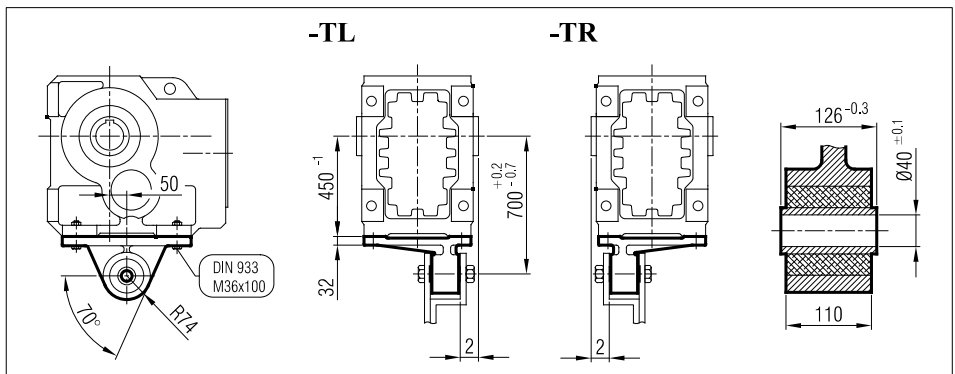


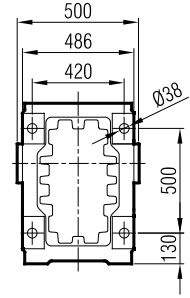
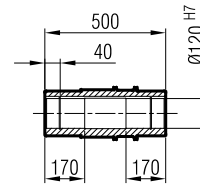
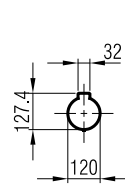
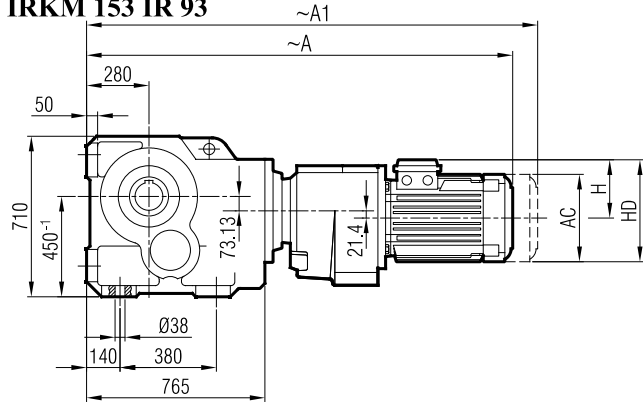
160
Tip/Type/Type



-TL

-TR



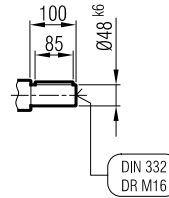
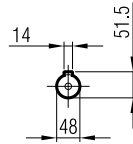
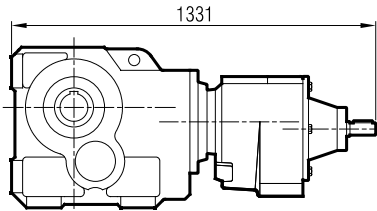

İRKM 153 İR 92
İRKM 153 İR 93


	100 L	112 M	132 S	132 M	160 M
A	1458	1432	1494	1539	1634
A1	1535	1527	1598	1643	1751
AC	195	220	262	262	315
H	161	170	193	193	240
HD	261	282	325	325	400

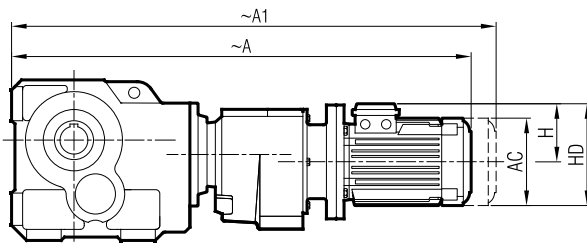
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRK 153 İR 92
İRK 153 İR 93


DIN 332
DR M16

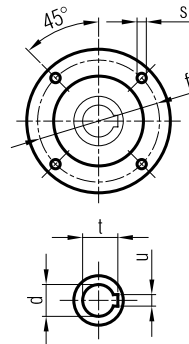
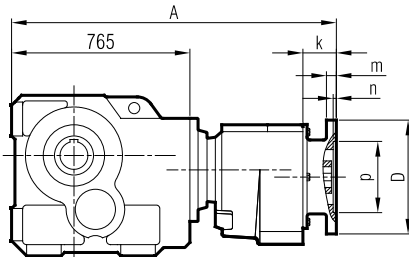
İRKPM 153 İR 92
İRKPM 153 İR 93


IEC	80 M B5	90 S B5	90 L B5	100 L B5	112 M B5	132 S B5	132 M B5	160 M B5
A	1439	1448	1486	1527	1499	1593	1634	1728
A1	1500	1515	1553	1604	1594	1697	1738	1845
AC	158	176	176	195	220	262	262	315
H	136	141	141	161	170	193	193	240
HD	216	231	231	261	282	325	325	400

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

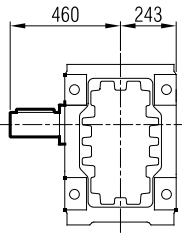
Le dimensions "A1" correspondent aux moteurs équipés de freins.

İRKP 153 İR 92
İRKP 153 İR 93


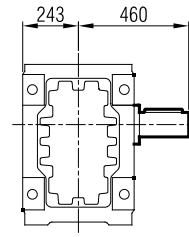
IEC	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u
80	1146	130	165	200	M10	49	12	5	19	21.8	6
90	1146	130	165	200	M10	49	12	5	24	27.3	8
100	1155	180	215	250	M12	58	14	5	28	31.3	8
112	1155	180	215	250	M12	58	14	5	28	31.3	8
132	1192	230	265	300	M12	95	17	5	38	41.3	10
160	1208	250	300	350	M14	111	18	6.5	42	45.3	12
80	1146	80	100	120	Ø7	49	11	5	19	21.8	6
90	1146	95	115	140	Ø9	49	12	5	24	27.3	8
100	1155	110	130	160	Ø9	58	11	5	28	31.3	8
112	1155	110	130	160	Ø9	58	11	5	28	31.3	8
132	1192	130	165	200	Ø11	95	13	5	38	41.3	10
160	1192	180	215	250	Ø14	95	16	6.5	42	45.3	12



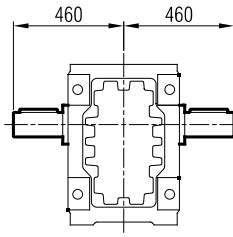
... -SR



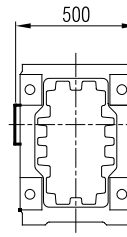
... -SL



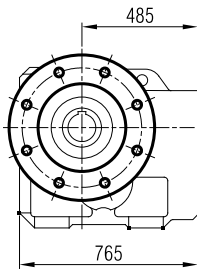
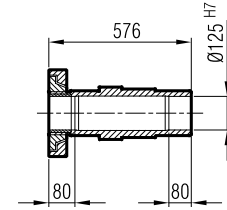
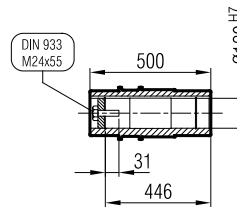
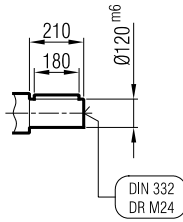
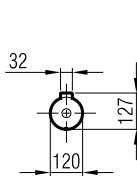
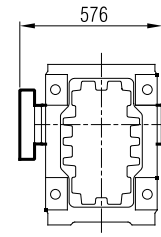
... -SD



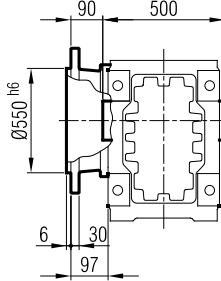
... -H



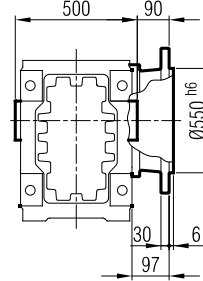
... -SDL / SDR



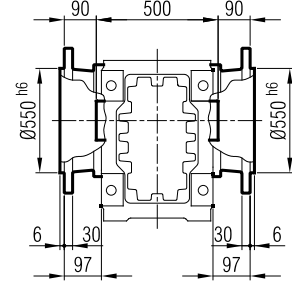
... -FR



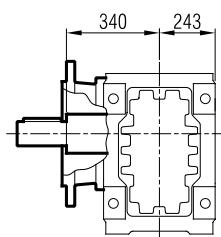
... -FL



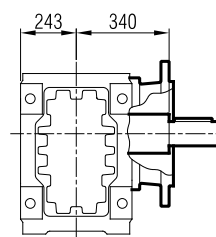
... -FD



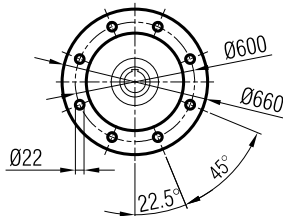
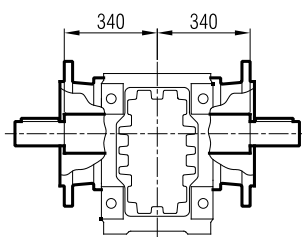
... -FR-SR



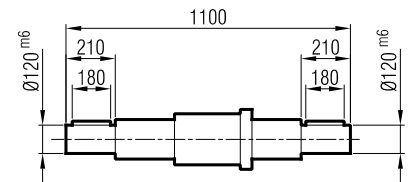
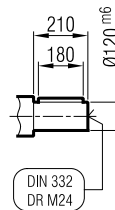
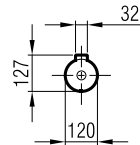
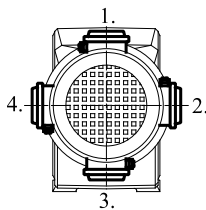
... -FL-SL



... -FD-SD

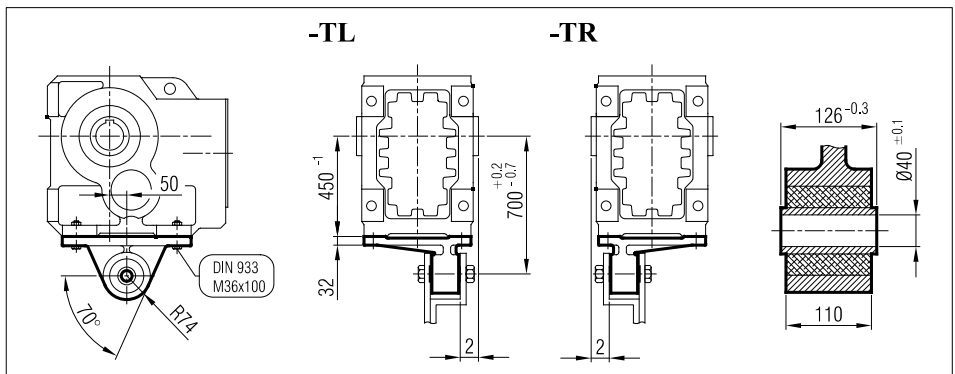


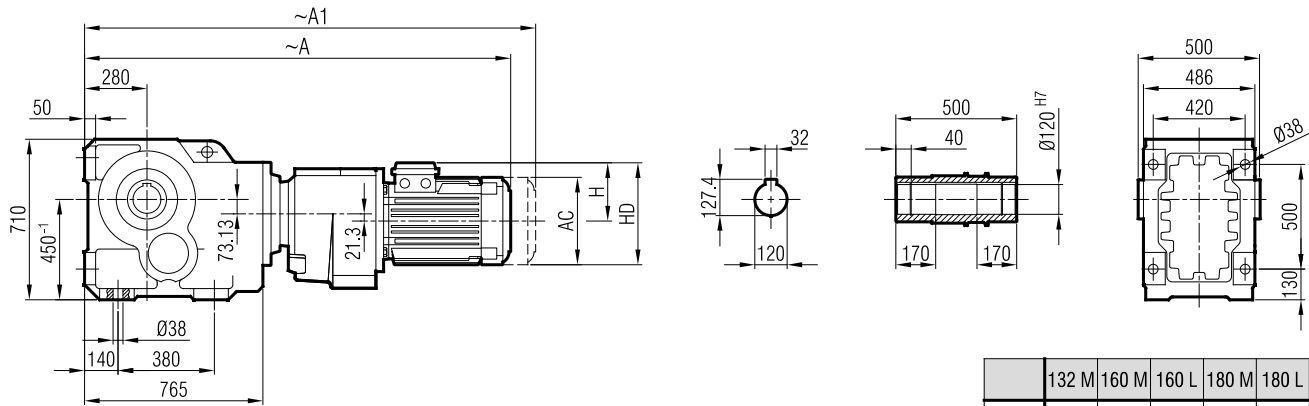
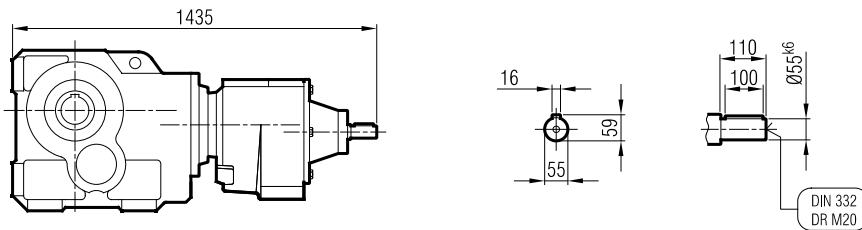
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



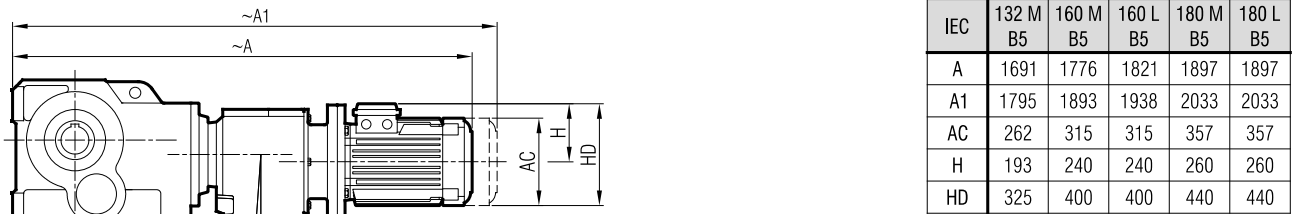
-TL

-TR

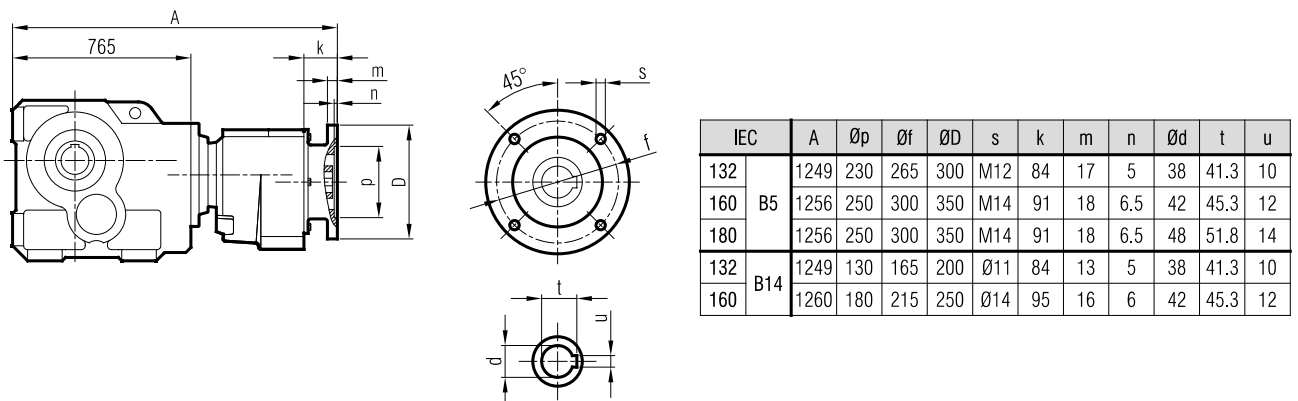



İRKM 153 İR 102

İRK 153 İR 102


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

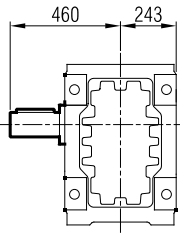
İRKPM 153 İR 102


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

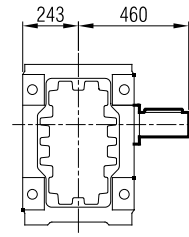
İRKPM 153 İR 102




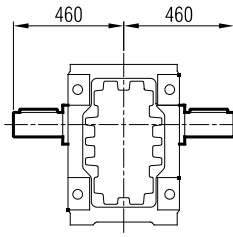
... -SR



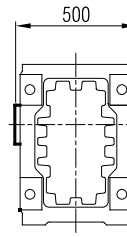
... -SL



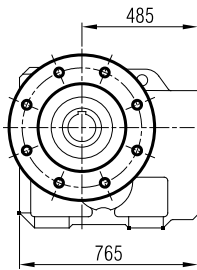
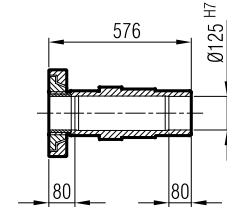
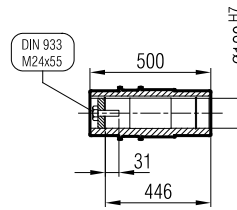
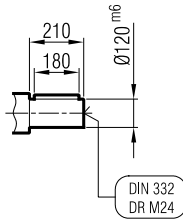
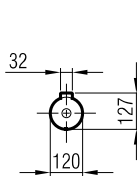
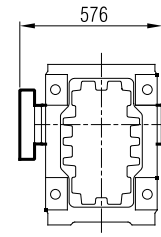
... -SD



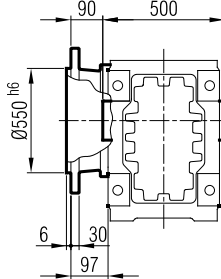
... -H



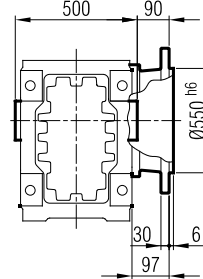
... -SDL / SDR



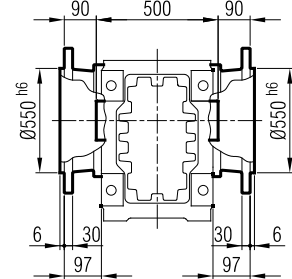
... -FR



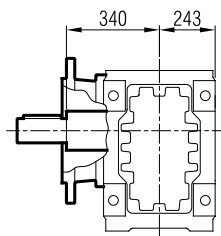
... -FL



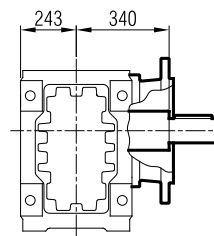
... -FD



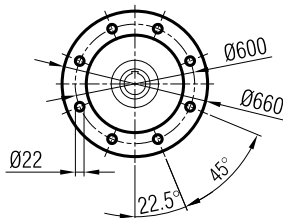
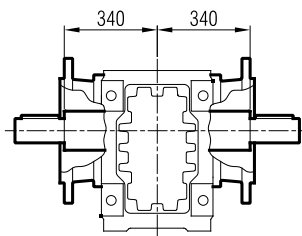
... -FR-SR



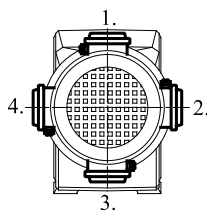
... -FL-SL



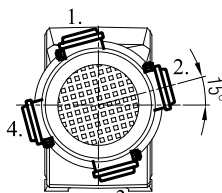
... -FD-SD



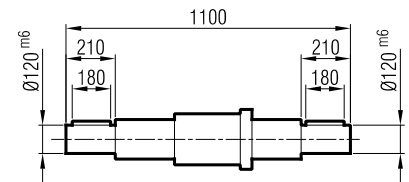
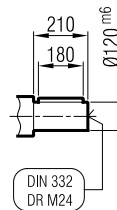
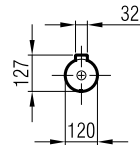
Klemens Pozisyonları
Positions of Terminal Box
Position de la boîte à bornes



100-112-132-180
Tip/Type/Type

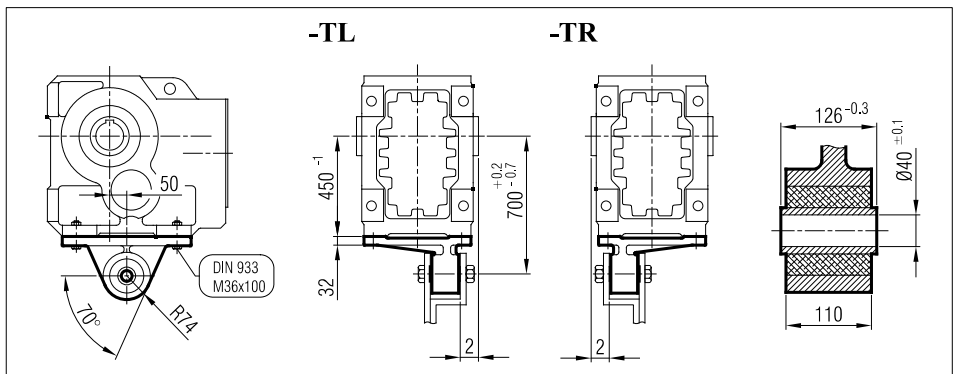


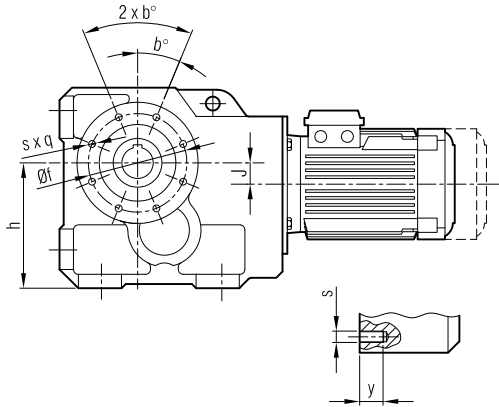
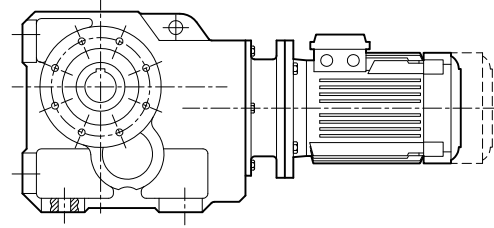
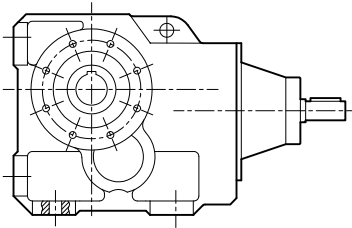
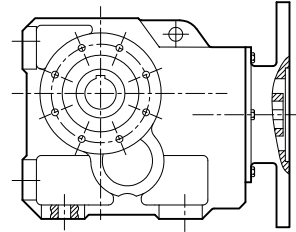
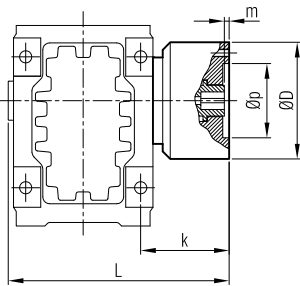
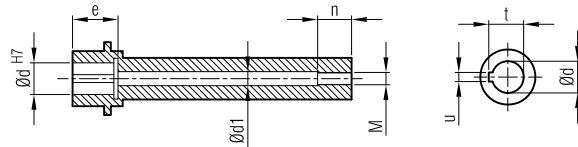
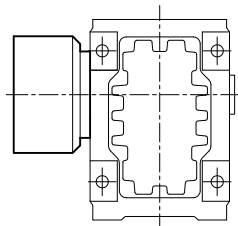
160
Tip/Type/Type



-TL

-TR




İRKE...M

İRKE...PM

İRKE...

İRKE...P

İRKE...L

İRKE...R

q: Adet / Quantity / quantité

	Øp	Øf	ØD	m	s	y	q	b°	Ød	Ød1	e	u	t	M	n	k	L	J	h
İRKE... 63-62	110	130	160	8	M8	39	4	45°	28	14	63	8	31.3	M12	24	104	238	11.45	112
İRKE... 73-72	130	165	200	8	M10	31	8	22.5°	35	20	58	10	38.3	M18	36	114	266	17.27	140
İRKE... 83-82	130	165	200	10	M12	37	8	22.5°	40	20	58	12	43.3	M18	36	132.5	320	30.51	180
İRKE... 93-92	180	215	250	10	M14	40	8	22.5°	50	26	72	14	53.8	M24	48	132	342	27.08	212
İRKE... 103-102	230	265	300	10	M14	50	8	22.5°	60	26	93	18	64.4	M24	48	176	426	33	265
İRKE... 123-122	300	350	400	10	M16	52	8	22.5°	80	26	115	22	85.4	M24	48	174	489	57.68	315
İRKE... 143-142	250	300	350	10	M20	44	8	22.5°	100	32	125	28	106.4	M30	60	213.5	583	59.4	375
İRKE... 153-152	350	400	450	10	M24	57	10	18°	110	32	130	28	116.4	M30	60	180	640	73.13	450

Redüktör gövde ölçüleri için standart ölçü sayfasına bakınız.

For gearbox housing dimensions please refer to the standart dimension pages.

La taille standard pour le boîtier de réducteur, reportez-vous à la taille de la page.

Konik Dişli Redüktörler Yedek Parça Listeleri

General Parts List

Liste des pièces détachées

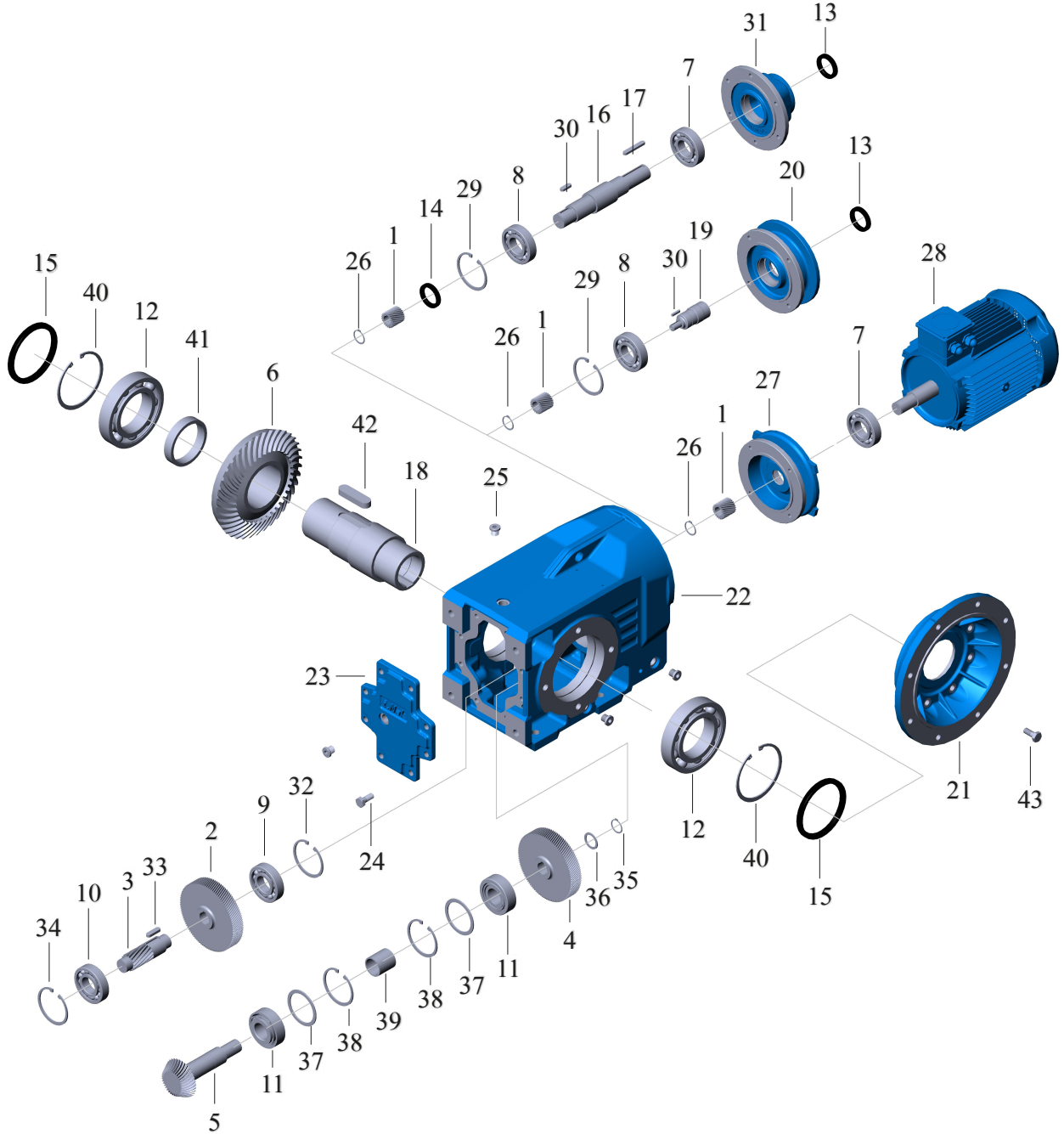


TİP / TYPE

İRK M - İRK PM - İRK P - İRK

İRK FM - İRK FPM - İRK FP - İRK F

43-42-53-52





TİP / TYPE

İRK M / İRKPM / İRKFM / İRKPFM } 43-42-53-52
İRK / İRKP / İRK F / İRKFP

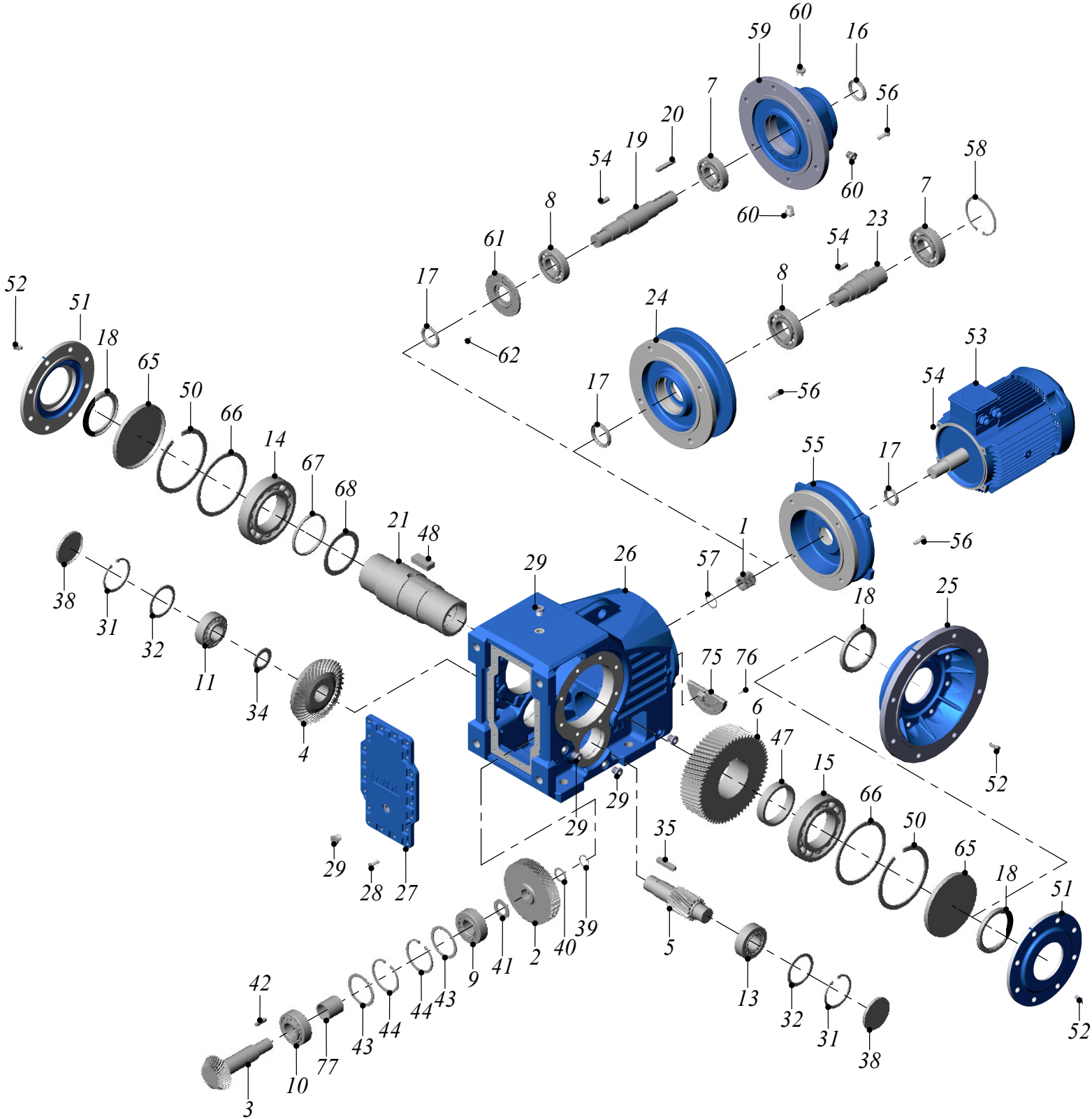
1 - Dişli Z1	1 - Gear Z1	1 - Pignon Z1
2 - Dişli Z2	2 - Gear Z2	2 - Pignon Z2
3 - Milli Dişli Z3	3 - Gear Z3	3 - Pignon Z3
4 - Dişli Z4	4 - Gear Z4	4 - Pignon Z4
5 - Pinyon Z5	5 - Pinion Shaft Z5	5 - Pignon Z5
6 - Ayna Dişlisi Z6	6 - Gear Wheel Z6	6 - Pignon Z6
7 - Rulman	7 - Bearing	7 - Roulement
8 - Rulman	8 - Bearing	8 - Roulement
9 - Rulman	9 - Bearing	9 - Roulement
10 - Rulman	10 - Bearing	10 - Roulement
11 - Rulman	11 - Bearing	11 - Roulement
12 - Rulman	12 - Bearing	12 - Roulement
13 - Keçe	13 - Seal	13 - Joint
14 - Keçe	14 - Seal	14 - Joint
15 - Keçe	15 - Seal	15 - Joint
16 - Giriş Mili	16 - Input Shaft	16 - Antriebswelle
17 - Kama	17 - Key	17 - Clavette
18 - Kovan	18 - Hollow Shaft	18 - Arbre creux
19 - Ara Bağlantı Mili	19 - Connection Shaft	19 - Arbre connecteur
20 - Pam Flanş (IEC)	20 - IEC Flange	20 - Bridge IEC
21 - Flanş	21 - Flange	21 - Bridge
22 - Gövde	22 - Gear Case	22 - Carter
23 - Kapak	23 - Cover	23 - Couvercle
24 - Cıvata	24 - Bolt	24 - Vis
25 - Yağ Tapası	25 - Oil Plug	25 - Bouchon d'huile
26 - Segman	26 - Circlip	26 - Circlip
27 - Motor Bağlantı Kapağı	27 - Motor Mounting Adapter	27 - Bride moteur
28 - Motor	28 - Electric Motor	28 - Moteur électrique
29 - Segman	29 - Circlip	29 - Circlip
30 - Kama	30 - Key	30 - Clavette
31 - Motorsuz Kapak	31 - Gear Case Cover	31 - Antriebsdeckel
32 - Segman	32 - Circlip	32 - Circlip
33 - Kama	33 - Key	33 - Clavette
34 - Segman	34 - Circlip	34 - Circlip
35 - Segman	35 - Circlip	35 - Circlip
36 - Pul	36 - Washer	36 - Joint
37 - Pul	37 - Washer	37 - Joint
38 - Segman	38 - Circlip	38 - Circlip
39 - Burç	39 - Spacer	39 - Anneau d'espacement
40 - Segman	40 - Circlip	40 - Circlip
41 - Burç	41 - Spacer	41 - Anneau d'espacement
42 - Kama	42 - Key	42 - Clavette
43 - Cıvata	43 - Bolt	43 - Vis



TİP / TYPE / TYP

İRK M - İRK FM - İRK PM - İRK FPM
İRK - İRK F - İRK P - İRK FP

} 63-73-83-93-103-123-143-153



**TİP / TYPE****İRK / İRKPM / İRKFM / İRKPFM
İRK / İRKP / İRK / İRKFP****} 63-73-83-93-103-123-143-153**

1 - Dişli Z1	1 - Gear Z1	1 - Pignon Z1
2 - Dişli Z2	2 - Gear Z2	2 - Pignon Z2
3 - Pinyon Z3	3 - Pinion Shaft Z3	3 - Pignon Z3
4 - Ayna Dişlisi Z4	4 - Gear Wheel Z4	4 - Pignon Z4
5 - Milli Dişli Z5	5 - Gear Z5	5 - Pignon Z5
6 - Dişli Z6	6 - Gear Z6	6 - Pignon Z6
7 - Rulman	7 - Bearing	7 - Roulement
8 - Rulman	8 - Bearing	8 - Roulement
9 - Rulman	9 - Bearing	9 - Roulement
10 - Rulman	10 - Bearing	10 - Roulement
11 - Rulman	11 - Bearing	11 - Roulement
13 - Rulman	13 - Bearing	13 - Roulement
14 - Rulman	14 - Bearing	14 - Roulement
15 - Rulman	15 - Bearing	15 - Roulement
16 - Keçe	16 - Seal	16 - Joint
17 - Keçe	17 - Seal	17 - Joint
18 - Keçe	18 - Seal	18 - Joint
19 - Giriş Mili	19 - Input Shaft	19 - Antriebswelle
20 - Kama	20 - Key	20 - Clavette
21 - Kovan	21 - Hollow Shaft	21 - Arbre creux
23 - Ara Bağlantı Mili	23 - Connection Shaft	23 - Arbre connecteur
24 - Pam Flanş (IEC)	24 - IEC Flange	24 - Bridge IEC
25 - Flanş	25 - Flange	25 - Bridge
26 - Gövde	26 - Gear Case	26 - Carter
27 - Kapak	27 - Cover	27 - Couvercle
28 - Cıvata	28 - Bolt	28 - Vis
29 - Yağ Tapası	29 - Oil Plug	29 - Bouchon d'huile
31 - Segman	31 - Circlip	31 - Circlip
32 - Pul	32 - Washer	32 - Joint
34 - Burç	34 - Spacer	34 - Anneau d'espacement
35 - Kama	35 - Key	35 - Clavette
38 - Tapa	38 - Locking Cover	38 - Bouchon
39 - Segman	39 - Circlip	39 - Circlip
40 - Pul	40 - Washer	40 - Joint
41 - Burç	41 - Spacer	41 - Anneau d'espacement
42 - Kama	42 - Key	42 - Clavette
43 - Pul	43 - Washer	43 - Joint
44 - Segman	44 - Circlip	44 - Circlip
47 - Burç	47 - Spacer	47 - Anneau d'espacement
48 - Kama	48 - Key	48 - Clavette
50 - Segman	50 - Circlip	50 - Circlip
51 - Keçe Kapağı	51 - Seal Cover	51 - Joint
52 - Cıvata	52 - Bolt	52 - Vis
53 - Motor	53 - Electric Motor	53 - Moteur électrique
54 - Kama	54 - Key	54 - Clavette
55 - Motor Bağlantı Kapağı	55 - Motor Mounting Adapter	55 - Bride moteur
56 - Cıvata	56 - Bolt	56 - Vis
57 - Segman	57 - Circlip	57 - Circlip
58 - Segman	58 - Circlip	58 - Circlip
59 - Motorsuz Kapak	59 - Gear Case Cover	59 - Antriebsdeckel
60 - Yağ Tapası	60 - Oil Plug	60 - Bouchon d'huile
61 - Keçe Kapağı	61 - Seal Cover	61 - Joint
62 - Cıvata	62 - Bolt	62 - Vis
65 - Tapa	65 - Locking Cover	65 - Bouchon
66 - Pul	66 - Washer	66 - Joint
67 - Burç	67 - Spacer	67 - Anneau d'espacement
68 - Pul	68 - Washer	68 - Joint
75 - Yarım Kapak	75 - Cover	75 - Couvercle
76 - Cıvata	76 - Bolt	76 - Vis
77 - Burç	77 - Spacer	77 - Anneau d'espacement



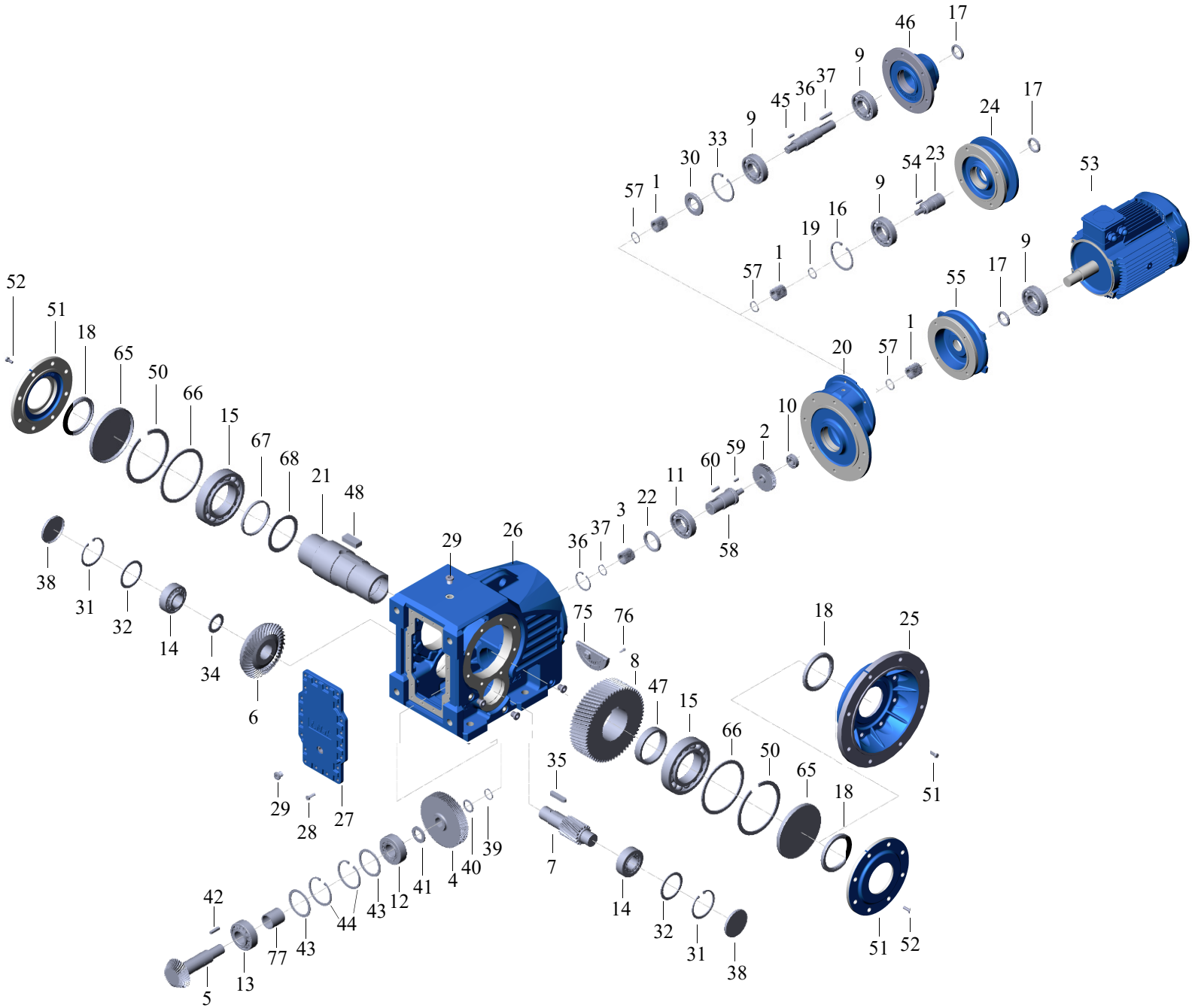
TİP / TYPE / TYP

İRK M - İRK PM - İRK P

İRK FM - İRK FPM - İRK FP



64-74-84-94-104-124-144-154





TİP / TYPE

**İRKM / İRKPM / İRKP
İRKFM / İRKFP / İRKFP**



64-74-84-94-104-124-144-154

1 - Dişli Z1	1 - Gear Z1	1 - Pignon Z1
2 - Dişli Z2	2 - Gear Z2	2 - Pignon Z2
3 - Dişli Z3	3 - Gear Z3	3 - Pignon Z3
4 - Dişli Z4	4 - Gear Z4	4 - Pignon Z4
5 - Pinyon Z5	5 - Pinion Shaft Z5	5 - Pignon Z5
6 - Ayna Dişlisi Z6	6 - Gear Wheel Z6	6 - Pignon Z6
7 - Milli Dişli Z7	7 - Gear Z7	7 - Pignon Z7
8 - Dişli Z8	8 - Gear Z8	8 - Pignon Z8
9 - Rulman	9 - Bearing	9 - Roulement
10 - Rulman	10 - Bearing	10 - Roulement
11 - Rulman	11 - Bearing	11 - Roulement
12 - Rulman	12 - Bearing	12 - Roulement
13 - Rulman	13 - Bearing	13 - Roulement
14 - Rulman	14 - Bearing	14 - Roulement
15 - Rulman	15 - Bearing	15 - Roulement
16 - Segman	16 - Circlip	16 - Circlip
17 - Keçe	17 - Seal	17 - Joint
18 - Keçe	18 - Seal	18 - Joint
19 - Segman	19 - Circlip	19 - Circlip
20 - V Gövde	20 - Gear Case V	20 - Carter V
21 - Kovan	21 - Hollow Shaft	21 - Arbre creux
22 - Keçe	22 - Seal	22 - Joint
23 - Ara Bağlantı Mili	23 - Connection Shaft	23 - Arbre connecteur
24 - Pam Flanş (IEC)	24 - IEC Flange	24 - Bridge IEC
25 - Flanş	25 - Flange	25 - Bridge
26 - Gövde	26 - Gear Case	26 - Carter
27 - Kapak	27 - Cover	27 - Couvercle
28 - Cıvata	28 - Bolt	28 - Vis
29 - Yağ Tapası	29 - Oil Plug	29 - Bouchon d'huile
30 - Keçe	30 - Seal	30 - Joint
31 - Segman	31 - Circlip	31 - Circlip
32 - Pul	32 - Washer	32 - Joint
33 - Segman	33 - Circlip	33 - Circlip
34 - Burç	34 - Spacer	34 - Anneau d'espacement
35 - Kama	35 - Key	35 - Clavette
36 - Giriş Mili	36 - Input Shaft	36 - Antriebswelle
37 - Kama	37 - Key	37 - Clavette
38 - Tapa	38 - Locking Cover	38 - Bouchon
39 - Segman	39 - Circlip	39 - Circlip
40 - Pul	40 - Washer	40 - Joint
41 - Burç	41 - Spacer	41 - Anneau d'espacement
42 - Kama	42 - Key	42 - Clavette
43 - Pul	43 - Washer	43 - Joint
44 - Segman	44 - Circlip	44 - Circlip
45 - Kama	45 - Key	45 - Clavette
46 - Motorsuz Kapak	46 - Gear Case Cover	46 - Antriebsdeckel
47 - Burç	47 - Spacer	47 - Anneau d'espacement
48 - Kama	48 - Key	48 - Clavette
50 - Segman	50 - Circlip	50 - Circlip
51 - Keçe Kapağı	51 - Seal Cover	51 - Joint
52 - Cıvata	52 - Bolt	52 - Vis
53 - Motor	53 - Electric Motor	53 - Moteur électrique
54 - Kama	54 - Key	54 - Clavette
55 - Motor Bağlantı Kapağı	55 - Motor Mounting Adapter	55 - Bride moteur
57 - Segman	57 - Circlip	57 - Circlip
58 - Ara Bağlantı Mili	58 - Circlip	58 - Circlip
59 - Kama	59 - Key	59 - Clavette
60 - Kama	60 - Key	60 - Clavette
65 - Tapa	65 - Locking Cover	65 - Bouchon
66 - Pul	66 - Washer	66 - Joint
67 - Burç	67 - Spacer	67 - Anneau d'espacement
68 - Pul	68 - Washer	68 - Joint
75 - Yarım Kapak	75 - Cover	75 - Couvercle
76 - Cıvata	76 - Bolt	76 - Vis
77 - Burç	77 - Spacer	77 - Anneau d'espacement

Notlar
Notes

Notlar
Notes



Fabrika - Merkez Satış

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