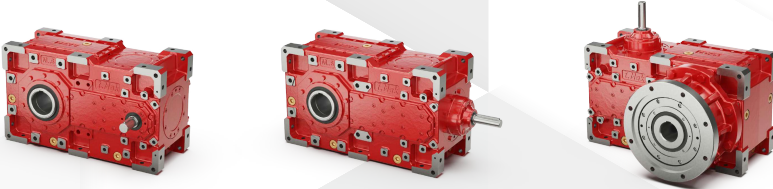


Monoblok Ağır Hizmet Serisi

Horizontal Helical Gear Unit
Réducteur hélicoïdal à usage industriel



M00



SERIES
MA
MK
MKE



MA-MK Series

• Industrial Monobloc Gear Unit •



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MA

SERİSİ / SERIES / SÉRIES



- Monoblok döküm gövdeli
- 8 farklı gövde büyüklüğü
- 1325 – 48445 Nm moment aralığı
- 4 – 423 Tahvil aralığı

- Cast iron monobloc housing
- 8 size of housing
- Torque range from 1325 to 48445 Nm
- Ratio range from 4 to 423

- *Carter monobloc en fonte*
- *8 tailles de carter*
- Couple allant de 1325 à 48445 Nm
- Rapport de réduction compris entre 4 et 423

MK

SERİSİ / SERIES / SÉRIES



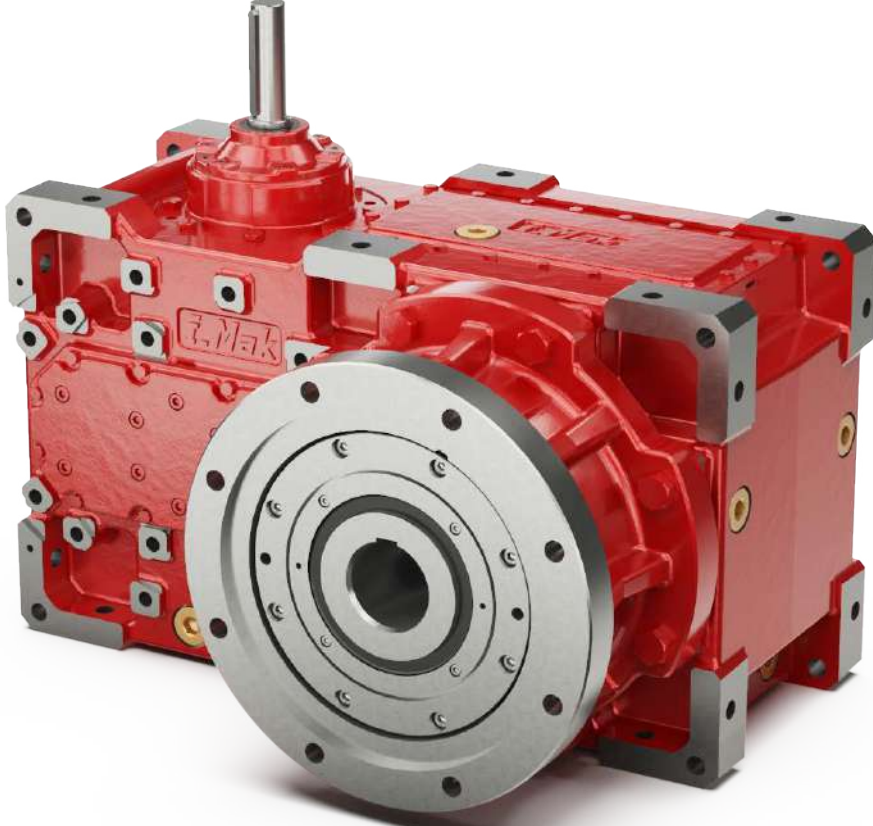
- Monoblok döküm gövdeli
- 8 farklı gövde büyüklüğü
- 1400 – 47900 Nm moment aralığı
- 14 – 512 Tahvil aralığı

- Cast iron monobloc housing
- 8 size of housing
- Torque range from 1400 to 47900 Nm
- Ratio range from 14 to 512

- *Carter monobloc en fonte*
- *8 tailles de carter*
- Couple allant de 1400 à 47900 Nm
- Rapport de réduction compris entre 14 et 512

MKE

SERİSİ / SERIES / SÉRIES



- Monoblok döküm gövdeli
- 8 farklı gövde büyüklüğü
- 1400 – 47900 Nm
moment aralığı
- 14 – 512 Tahvil aralığı

- Cast iron monobloc housing
- 8 size of housing
- Torque range from 1400 to
47900 Nm
- Ratio range from 14 to 512

- *Carter monobloc en fonte*
- *8 tailles de carter*
- Couple allant de 1400 à
47900 Nm
- Rapport de réduction
compris entre 14 et 512

Genel Bilgiler

General Information
Informations g n rales

MA serisi redüktörlerin genel özellikleri

Helisel dişlili, paralel milli MA serileri, devamlı yükleme altında ve ağır şartlarda çalışmaya elverişli olarak dizayn edilmiş redüktörlerimizdir.

Dişli malzemesi, bu redüktörlere uygun bir biçimde 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 GG20 pik malzemesinden tekil gövde (monoblok) olarak yapılmıştır.

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

Descriptions and specifications of the MA series.

The MA Series gearboxes are designed for applications with heavy loads on continuous working cycle.

Gears are manufactured from high quality 16MnCr5 steel in I-MAK factory.

All our gears are heat treated (Gear hardness 57 HRC)ground and measured to insure the highest quality standard.

The robust monobloc housing is made of GG20 iron and is machined by state of art technology.

MA Series gearboxes are available with output shaft, hollow shaft, double output shaft, shrink disk and various flange configurations

Descriptions et spécifications de la série MA.

Spécialement conçus pour les applications à charges continue, les réducteurs de la Série MA garantissent une performance optimale.

Les pignons hélicoïdaux qui composent les réducteurs de cette série sont produits à partir d'acier 16MnCr5 avec une dureté de 57 HRC après traitement.

Le carter en monobloc offre une grande robustesse et résistance aux réducteurs de la série MA.

Les réducteurs MA 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.

MK serisi redüktörlerin genel özellikleri

Tek kademesi konik dişli diğer dişli kademeleri helisel olan MK serileri, devamlı yük altında ve ağır şartlarda çalışmaya elverişli olarak dizayn edilmiş redüktörlerimizdir.

Dişli malzemesi, bu redüktörlere uygun bir biçimde 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 GG20 pik malzemesinden tekil gövde (monoblok) olarak yapılmıştır.

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

Descriptions and specifications of the MK series.

Designed to work under heavy loads and in hard conditions, the bevel helical MK serie is perfectly adapted to a wide range of applications.

Gears are manufactured from high quality 16MnCr5 steel in I-MAK factory. All our gears are heat treated (Gear hardness 57 HRC)ground and measured to insure the highest quality standard.

The robust monobloc housing is made of GG20 iron and is machined by state of art technology.

MK Series gearboxes are available with output shaft, hollow shaft, double output shaft, shrink disk and various flange configurations

Descriptions et spécifications de la série MK.

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

Les pignons hélicoïdaux qui composent les réducteurs de cette série sont produits à partir d'acier 16MnCr5 avec une dureté de 57 HRC après traitement.

Le carter en monobloc offre une grande robustesse et résistance aux réducteurs de la série MK.

Les réducteurs MK 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.

MA SERIES

Tip Type Type	Moment (Max) Torque (Max) Couple (Max)	Kovan Çapı Hollow Shaft Diamètre de l'arbre creux	Mil Çapı Shaft Diameter Diamètre de l'arbre de sortie
MA 402-403	6080 Nm	Ø80	Ø80
MA 502-503	10300 Nm	Ø95	Ø100
MA 602-603	12900 Nm	Ø105	Ø110
MA 702-703-704	19400 Nm	Ø115	Ø120
MA 802-803-804	24100 Nm	Ø125	Ø130
MA 902-903-904	29930 Nm	Ø135	Ø140
MA 1002-1003-1004	36000 Nm	Ø150	Ø160
MA 1102-1103-1104	50000 Nm	Ø165	Ø170
Range of Ratios / Rapports de réduction			
3,786 423,479			
Applicable Motor Power / Puissance Moteur Applicable			
3 kW...560 kW			

Monoblok Ağır Hizmet Serisi (Helisel Dişlili) Monobloc industrial gear unit Monobloc Réducteur hélicoïdal à usage industriel



Monoblok Ağır Hizmet Serisi (Konik Dişlili) Monobloc industrial gear unit Monobloc Réducteur hélicoïdal à usage industriel



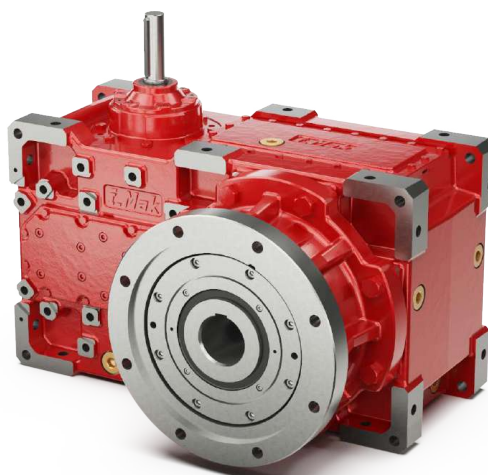
Tip Type Type	Moment (Max) Torque (Max) Couple (Max)	Kovan Çapı Hollow Shaft Diamètre de l'arbre creux	Mil Çapı Shaft Diameter Diamètre de l'arbre de sortie
MK 403-404	6100 Nm	Ø80	Ø80
MK 503-504	10300 Nm	Ø95	Ø100
MK 603-604	12900 Nm	Ø105	Ø110
MK 703-704	19400 Nm	Ø115	Ø120
MK 803-804	22520 Nm	Ø125	Ø130
MK 903-904	29530 Nm	Ø135	Ø140
MK 1003-1004	37580 Nm	Ø150	Ø160
MK 1103-1104	50000 Nm	Ø165	Ø170
Range of Ratios / Rapports de réduction			
14,012 511,760			
Applicable Motor Power / Puissance Moteur Applicable			
0,75 kW...250 kW			

MK SERIES

MAE SERIES

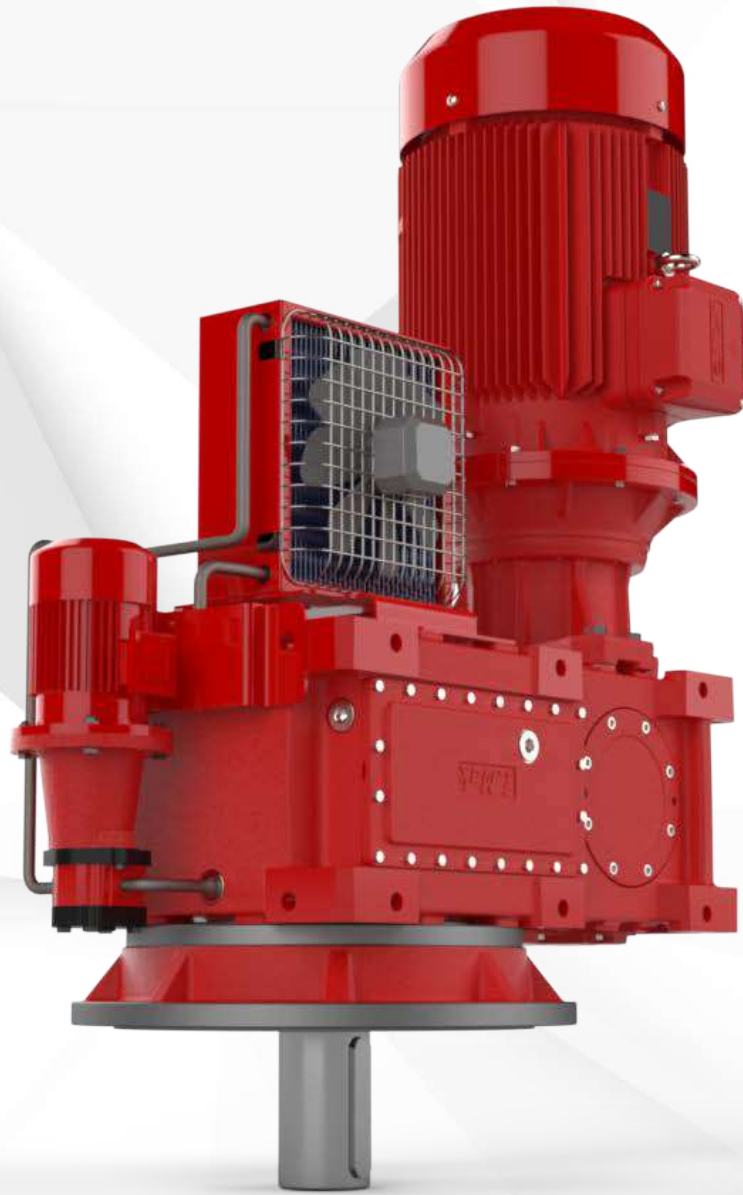
Tip Type Type	Moment (Max) Torque (Max) Couple (Max)	Kovan Çapı Hollow Shaft Diamètre de l'arbre creux
MAE 402-403	6080 Nm	Ø60
MAE 502-503	10300 Nm	Ø70
MAE 602-603	12900 Nm	Ø80
MAE 702-703-704	19400 Nm	Ø90
MAE 802-803-804	24100 Nm	Ø100
MAE 902-903-904	29930 Nm	Ø110
MAE 1002-1003-1004	36000 Nm	Ø120
MAE 1102-1103-1104	50000 Nm	Ø130
Range of Ratios / Rapports de réduction		
3,786 423,479		
Applicable Motor Power / Puissance Moteur Applicable		
3 kW...560 kW		

Monoblok Ağır Hizmet Serisi (Extruder) Monobloc extruder gear units Réducteur monobloc pour extrudeuse

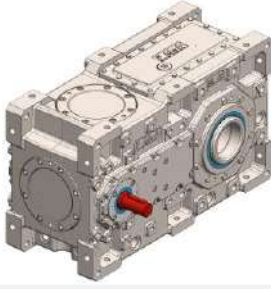


MKE SERIES

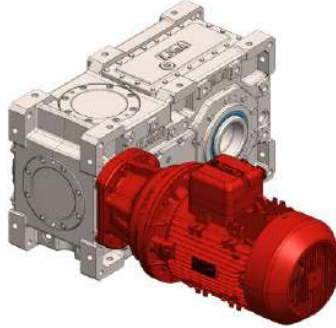
Tip Type Type	Moment (Max) Torque (Max) Couple (Max)	Kovan Çapı Hollow Shaft Diamètre de l'arbre creux
MK 403-404	6100 Nm	Ø60
MK 503-504	10300 Nm	Ø70
MK 603-604	12900 Nm	Ø80
MK 703-704	19400 Nm	Ø90
MK 803-804	22520 Nm	Ø100
MK 903-904	29530 Nm	Ø110
MK 1003-1004	37580 Nm	Ø120
MK 1103-1104	50000 Nm	Ø130
Range of Ratios / Rapports de réduction		
14,012 511,760		
Applicable Motor Power / Puissance Moteur Applicable		
0,75 kW...250 kW		



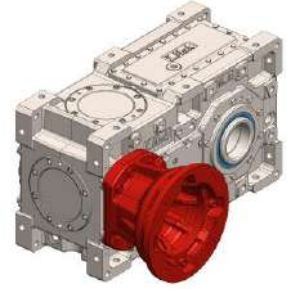
50^{göl}  **i.Mak**®



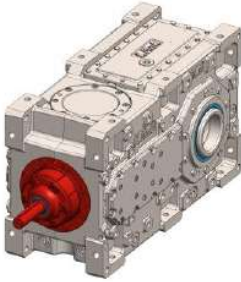
MA
Giriş Milli
Solid input shaft
Arbre d'entrée



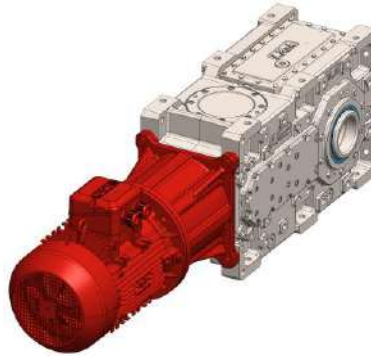
MAPM
IEC Pam Flanşlı Motorlu
IEC input flange with motor
Avec bride PAM-IEC et moteur



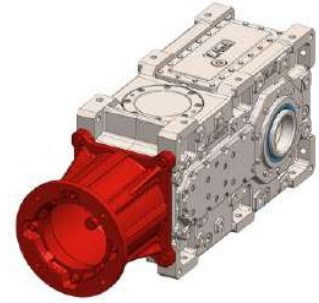
MAP
IEC Pam Flanşlı
IEC input flange
Avec bride PAM – IEC



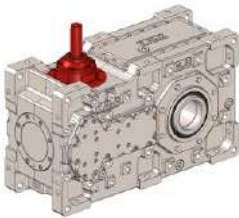
MK – G07
Giriş Milli
Solid input shaft
Arbre d'entrée



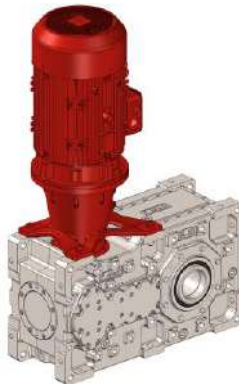
MKPM – G09
IEC Pam Flanşlı Motorlu
IEC input flange with motor
Avec bride PAM-IEC et moteur



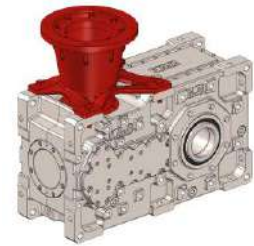
MKP – G09
IEC Pam Flanşlı
IEC input flange
Avec bride PAM – IEC



MK – G08
Giriş Milli
Solid input shaft
Arbre d'entrée



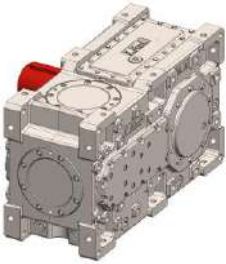
MKPM – G10
IEC Pam Flanşlı Motorlu
IEC input flange with motor
Avec bride PAM-IEC et moteur



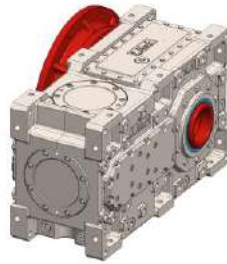
MKP – G10
IEC Pam Flanşlı
IEC input flange
Avec bride PAM – IEC



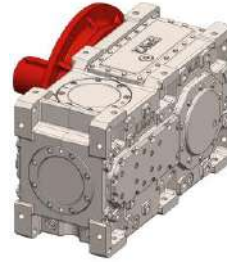
MA / MK
Delik milli
Output hollow shaft
Arbre creux



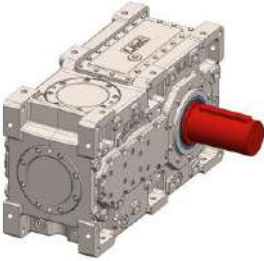
MA / MK SL
Çıkış flanşı (Sol)
Output solid shaft (Left)
Arbre de sortie (Gauche)



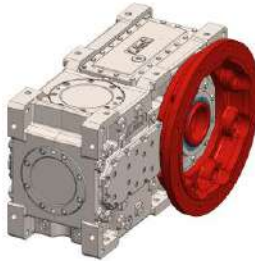
MA / MK FL
Çıkış flanşı (Sol)
Output flange (Left)
Bride de sortie (Gauche)



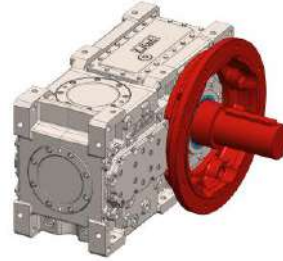
MA / MK FL-SL
Çıkış milli - Çıkış Flanşlı (Sağ)
Output flange-Output solid shaft (Left)
Arbre et bride de sortie (Gauche)



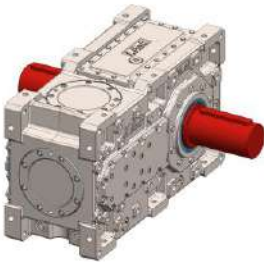
MA / MK SR
Çıkış milli (Sağ)
Output solid shaft (Right)
Arbre de sortie (Droite)



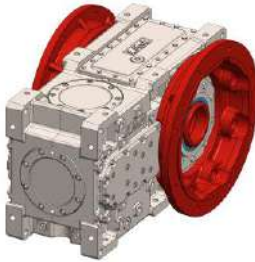
MA / MK FR
Çıkış flanşı (Sağ)
Output flange (Right)
Bride de sortie (Droite)



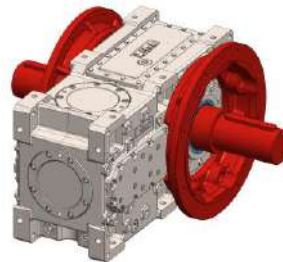
MA / MK FR-SR
Çıkış milli - Çıkış Flanşlı (Sağ)
Output flange-Output solid shaft (Right)
Arbre et bride de sortie (Droite)



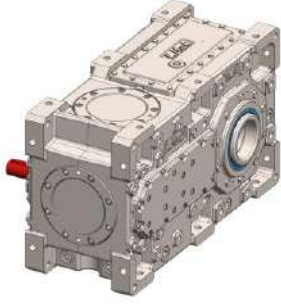
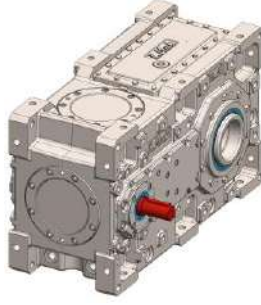
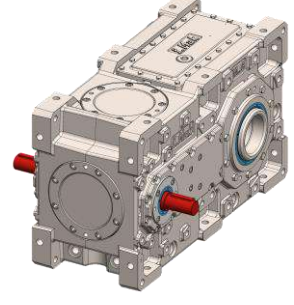
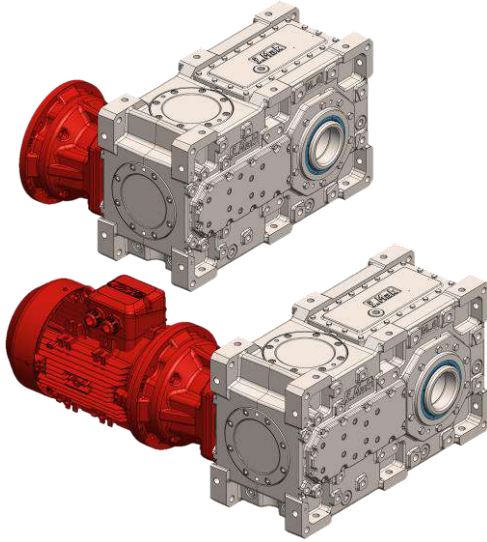
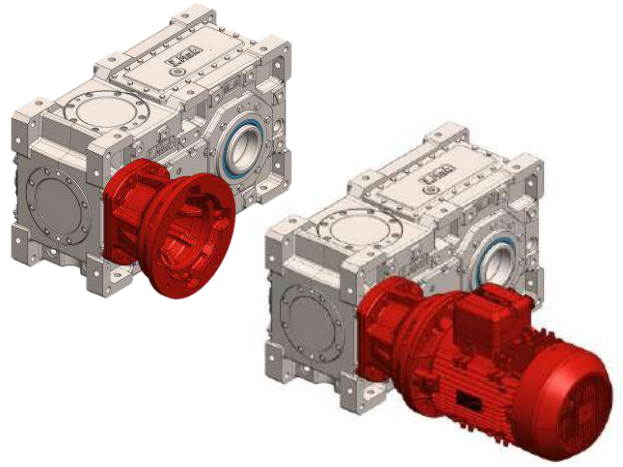
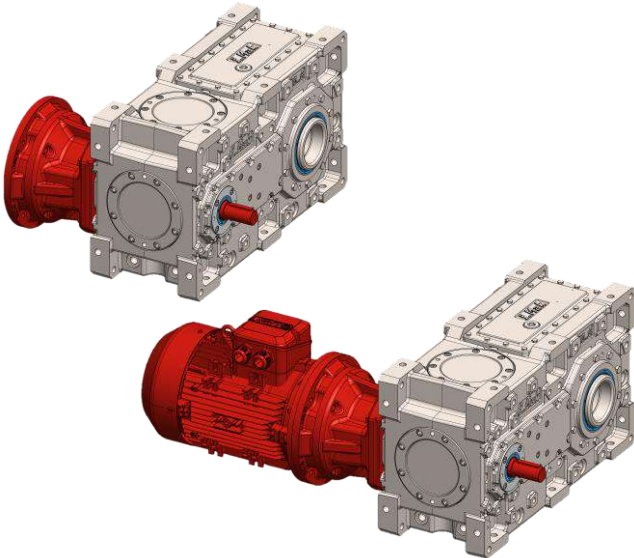
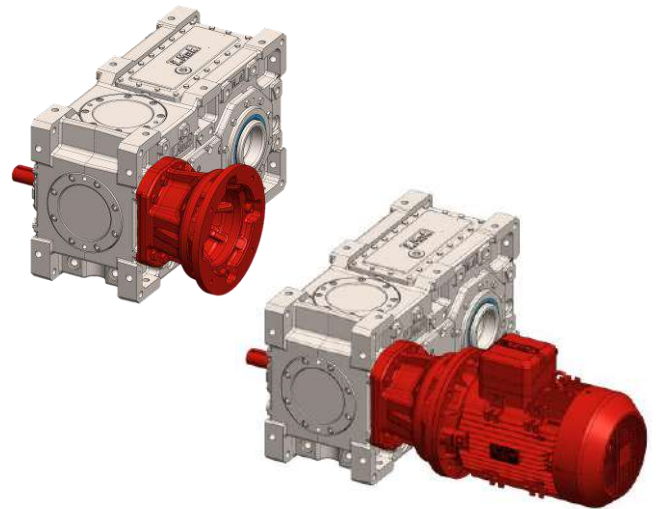
MA / MK SD
Çift çıkış flanşlı
Double output solid shaft
Double arbre de sortie

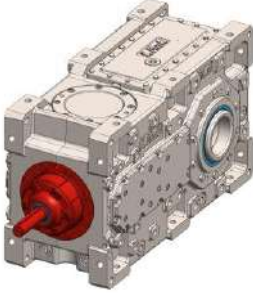


MA / MK FD
Çift çıkış flanşlı
Double output flange
Bride de sortie (Double)

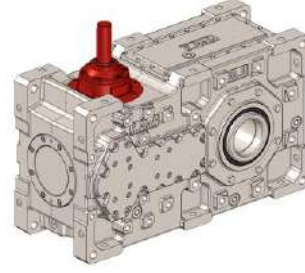


MA / MK FD-SD
Çift çıkış flanşlı - Çift çıkış milli
Double output flange-Double output solid shaft
Bride de sortie double - Arbre de sortie double

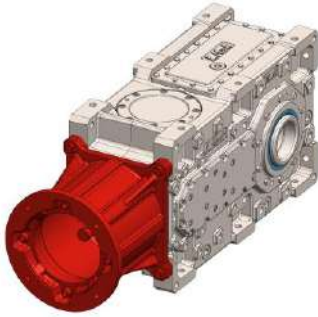
**G00****Giriş Milli (Sol)**Solid input shaft (Left)
Arbre d'entrée (Gauche)**G01****Giriş Milli (Sağ)**Solid input shaft (Right)
Arbre d'entrée (Droite)**G02****Çift Giriş Milli**Double Solid input shaft
Double arbre d'entrée**G03****Pam Flanşlı veya Motorlu (Sol)**IEC input flange or With motor (Left)
Avec bride PAM - IEC ou Moteur (Gauche)**G04****Pam Flanşlı veya Motorlu (Sağ)**IEC input flange or With motor (Right)
Avec bride PAM - IEC ou Moteur (Droite)**G05****Pam Flanşlı veya Motorlu (Sol) + Giriş Milli (Sağ)**IEC input flange or With motor (Left) + Solid input shaft (Right)
Avec bride PAM - IEC ou Moteur (Gauche) + Arbre d'entrée (Droite)**G06****Pam Flanşlı veya Motorlu (Sağ) + Giriş Milli (Sol)**IEC input flange or With motor (Right) + Solid input shaft (Left)
Avec bride PAM - IEC ou Moteur (Droite) + Arbre d'entrée (Gauche)



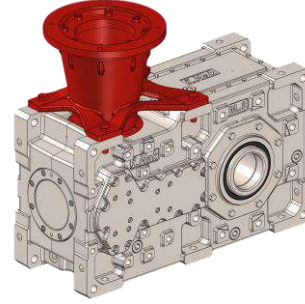
G07
Önden Giriş Milli
Input shaft from the front
Arbre d'entrée de face



G08
Üstten Giriş Milli
Overhead input shaft
Arbre d'entrée supérieur



G09
Önden Pam Flanşlı veya Motorlu
IEC input flange or With motor from the front
Avec bride PAM - IEC ou Moteur de face



G10
Üstten Pam Flanşlı veya Motorlu
Overhead IEC input flange or With motor
Avec bride PAM - IEC ou Moteur supérieur

Giriş Yönlerine Göre Bağlanabilir Çıkış Opsiyonları / Output Options According to Entry Aspects / -

Giriş Yönleri Entry Aspects Aspects d'entree	Çıkış Opsiyonları / Output Options / Options de sortie									
	Kovanlı Hollow Shaft	SL	SR	SD	FL	FR	FD	FL-SL	FR-SR	FD-SD
G00										
G01										
G02										
G03										
G04										
G05										
G06										
G07										
G08										
G09										
G10										

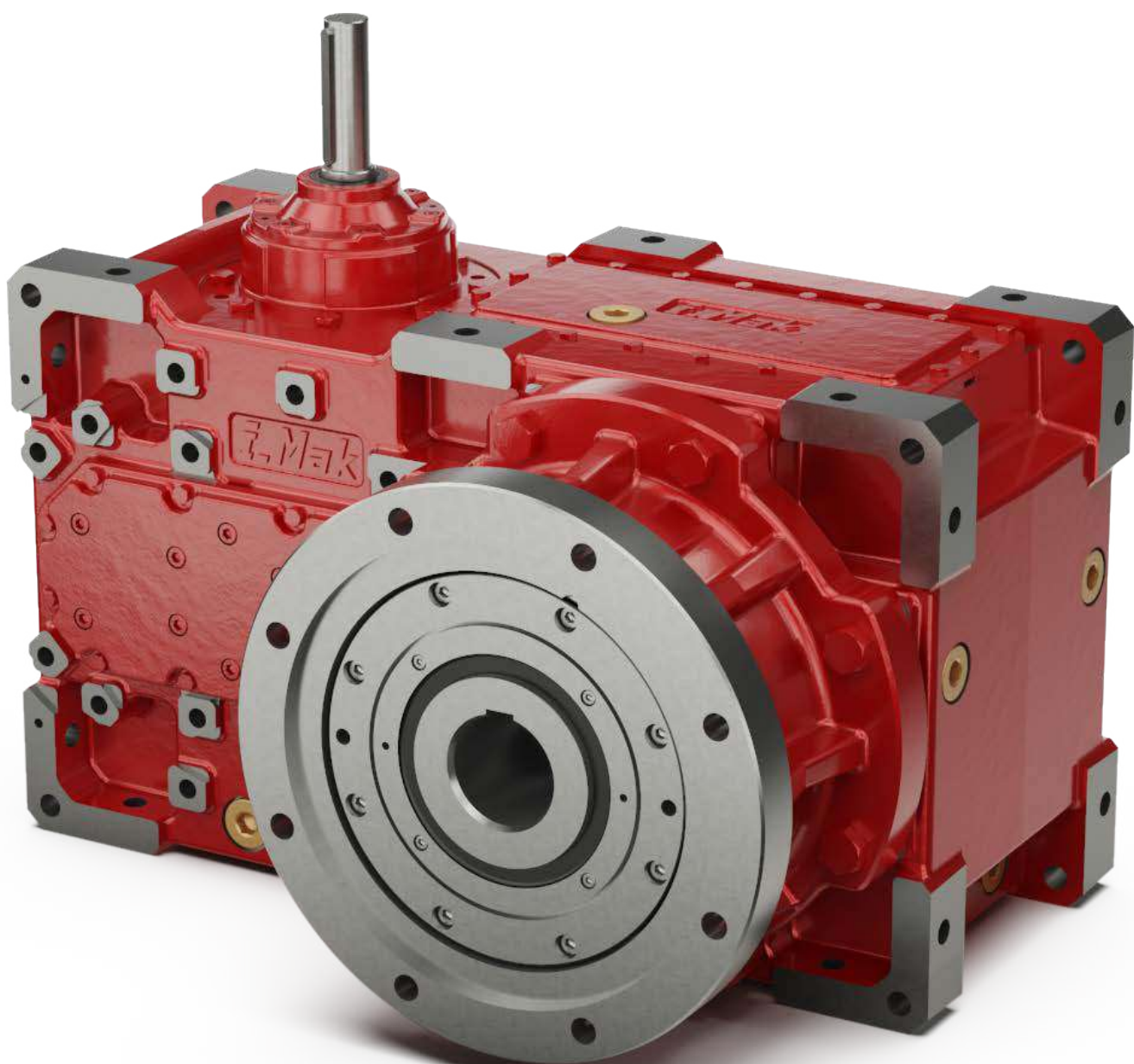
Termal Güç Tablosu / Thermal Power Table / Tableau de Puissance Thermique

SOĞUTMASIZ REDÜKTÖR GEARBOX WITHOUT COOLING					
Termal Güç / Thermal Power / Puissance thermique [kW]					
	MA_2	MA_3	MA_4	MK_3	MK_4
40_	55	33	-	33	24
50_	67	40	-	40	29
60_	72	44	-	44	31
70_	91	55	39	55	39
80_	102	62	44	62	44
90_	114	69	49	69	49
100_	134	80	57	80	57
110_	164	98	70	98	70

RADYATÖR SOĞUTMALI REDÜKTÖR GEARBOX WITH RADITAOTOR COOLING					
Termal Güç / Thermal Power / Puissance thermique [kW]					
	MA_2	MA_3	MA_4	MK_3	MK_4
40_	205	123	-	123	88
50_	252	151	-	151	108
60_	272	164	-	164	116
70_	324	195	138	195	138
80_	356	214	152	214	152
90_	512	307	218	307	218
100_	546	327	232	327	232
110_	620	372	264	372	264

SERPANTİN SOĞUTMALI REDÜKTÖR GEARBOX WITH SERPENTINE COOLING					
Termal Güç / Thermal Power / Puissance thermique [kW]					
	MA_2	MA_3	MA_4	MK_3	MK_4
40_	144	86	-	86	62
50_	168	101	-	101	72
60_	191	115	-	115	82
70_	238	143	102	143	102
80_	268	161	115	161	115
90_	292	175	125	175	125
100_	322	193	138	193	138
110_	378	227	162	227	162

LEHİMLİ-BORULU EŞANJÖR SOĞUTMALI REDÜKTÖR GEARBOX WITH SOLDERED HEAT EXCHANGER COOLING					
Termal Güç / Thermal Power / Puissance thermique [kW]					
	MA_2	MA_3	MA_4	MK_3	MK_4
40_	95	57	-	57	41
50_	130	78	-	78	55
60_	142	86	-	86	61
70_	244	146	104	146	104
80_	260	156	110	156	110
90_	419	251	178	251	178
100_	470	282	200	282	200
110_	580	348	247	348	247



	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 extruder	Extruder left	Extruder (Gauche)
ER	Sağ extruder	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)
TSL	Sol tork limitörü	Torque limiter left	Limiteur de couple (Gauche)
TSR	Sağ tork limitörü	Torque limiter right	Limiteur 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 (güdükl)	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
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
135	Özel alın mili	Special input shaft	Arbre d'entrée spéciale
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*

	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)

	Yağlama	Lubrication	Lubrification
Kod / Code	Varyasyon	Options	Options
216	Pompa Cebri Yağlama	Auxiliary Lubrication	Lubrification auxiliaire
217	Genleşme Tankı	Expansion Tank	Réservoir d'huile
218	Nilos Ring uygulaması	Nilos – Ring Application	Joint Nilos

	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

	Soğutma	Cooling	Refroidissement
Kod / Code	Varyasyon	Options	Options
244	Fanlı soğutma	Fan Cooling	Refroidissement par ventilation
245	Radyatörlü soğutma	Radiator Cooling	Radiateur de refroidissement
246	Serpantin soğutma	Serpentine Cooling	Serpentin de refroidissement
247	Plakalı eşanjörlü soğutma	Plate Heat Exchanger Cooling	Refroidissement par plaque
248	Borulu eşanjörlü soğutma	Tubed Heat Exchanger Cooling	Refroidissement tubulaire
249	Lehimli eşanjörlü soğutma	Brazed Heat Exchanger Cooling	Refroidissement par échangeur brasé

	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)	Acrylic 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 brand motor standard category / Catégorie standard de moteur de marque İ.Mak

** 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
Betonyerler	M	Concrete mixers	M	Malaxeur à béton	M
Yol inşaat makinaları	M	Road contruction machines	M	Machine de construction(routes)	M

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

Tahrik Makinası Torque Machine Machines couplées	Günlük Çalışma Müddeti (Saat) Daily Working Period (Hour) Utilisation journalière (Heure)	Makinanın Yükleme Karakteristiği Load Characteristics of Machines Caractéristique des charges		
		Hafif Yük U Uniform Load U Charge uniforme U	Orta Yük M Moderate Load M Charge modérée M	Ağır Yük H Heavy Load H Charge élevée H
Elekt. Motorlu / Elect. Motor / <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 Cylindir) <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 Cylindir) <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

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
Santrifüjler	U	Centrifuges (Lights)	U	Centrifugeuse (Légère)	U
Santrifüjler	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 Cylindres) 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 Cylindres) 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 / <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 Cylindir) <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 Cylindir) <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

Kağıt Endüstri Makinaları		Paper Industry Machines		Industrie Papetière	
Düzleme silindirleri	H	Glazing Cylinders	H	Cylindres appliniseurs	H
Holender	M	Hollenders	M	Hollenders	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	Vacuum 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 / 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 Cylindir) Machine à pistons (4.....6 Cylindres)	0....3	1	1.25	2
	3....10	1.25	1.5	2
	10...24	1.5	1.75	2
Pistonlu Makinalar (1....2 Silindir Piston Machines (1....2 Cylindir) Machine à pistons (1.....2 Cylindres)	0....3	1.25	1.5	2
	3....10	1.5	1.75	2.25
	10...24	1.75	2	2.5

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 chaîne	1,40	< 13 dents
Roue a chaîne	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.

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

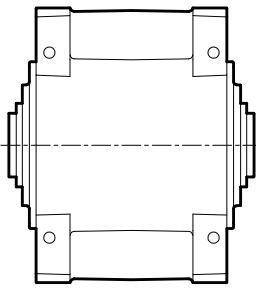
Calculation of Overhung Load for State Acting on Hollow Shaft

Calcul des charges radiales appliques en configuration arbre creux

Radyal Yk Hesabı iin Sabit Deęerler Tablosu

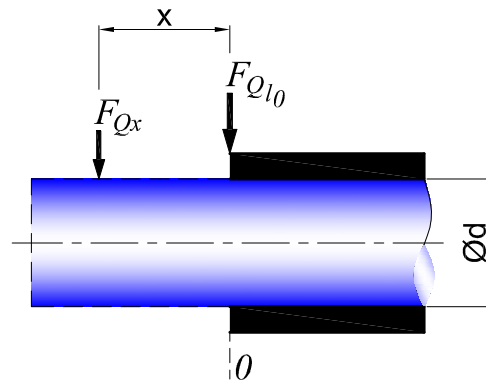
Tables of Fixed Values for Calculation of Overhung Load

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



M Serisi
M Series / M Srie

M Serisi / M Series / M Srie				
Tip / Type / Type	k	c	d	l
MA-MK 402 / 403 / 404	258	258	???	-
MA-MK 502 / 503 / 504	299	299	95	-
MA-MK 602 / 603 / 604	298	298	105	-
MA-MK 702 / 703 / 704	334	334	115	-
MA-MK 802 / 803 / 804	334	334	125	-
MA-MK 902 / 903 / 904	379	379	135	-
MA-MK 1002 / 1003 / 1004	381	381	150	-
MA-MK 1102 / 1103 / 1104	426	426	165	-



Radyal yk, kovanın 0 noktasında deęil ise $F_{Qx} = F_{Ql_0} \cdot \frac{k}{c+x}$ forml ile hesaplanır.

If overhung load is not applied at the zero point of hollow shaft; it is calculated by $F_{Qx} = F_{Ql_0} \cdot \frac{k}{c+x}$

Si les charges radiales ne sont pas appliques au point 0 de l'arbre creux, il convient d'appliquer la formule suivante $F_{Qx} = F_{Ql_0} \cdot \frac{k}{c+x}$

Radyal Yük Hesabı, Çıkış Miline etkiyen Durum için

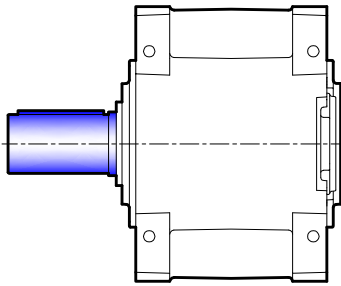
Calculation of Overhung Load for State Acting on Output Shaft

Calcul des charges radiales appliquées sur l'arbre de sortie

Radyal Yük Hesabı için Sabit Değerler Tablosu

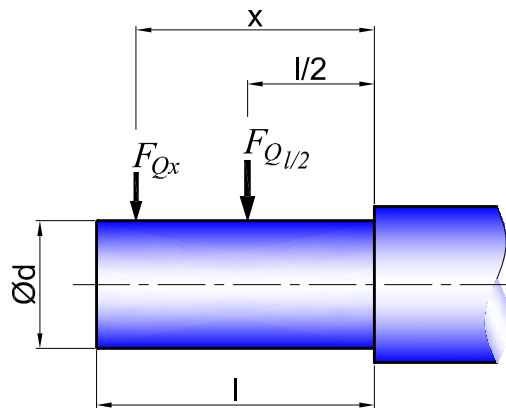
Tables of Fixed Values for Calculation of Overhung Load

Tableau des valeurs préétablies pour le calcul des charges radiale



M Serisi
M Series / M Série

M Serisi / M Series / M Série				
Tip / Type / Type	k	c	d	l
MA-MK 402 / 403 / 404	328	258	80	140
MA-MK 502 / 503 / 504	404	299	100	210
MA-MK 602 / 603 / 604	403	298	110	210
MA-MK 702 / 703 / 704	439	334	120	210
MA-MK 802 / 803 / 804	459	334	130	250
MA-MK 902 / 903 / 904	504	379	140	250
MA-MK 1002 / 1003 / 1004	516	381	160	270
MA-MK 1102 / 1103 / 1104	561	426	170	270



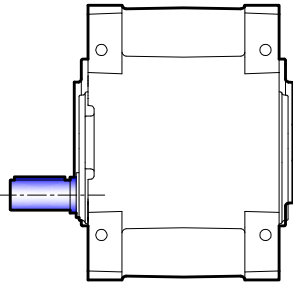
Radyal yük, milin orta noktasında değil ise $F_{Qx} = F_{Ql/2} \cdot \frac{k}{c+x}$ formülü ile hesaplanır.

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

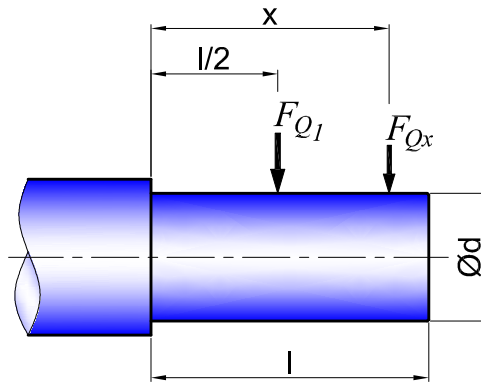
Radyal Yk Hesabı, Giriş Miline etkiyen Durum için
Calculation of Overhung Load for State Acting on Input Shaft
Calcul des charges appliquées sur l'arbre d'entrée

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



MA Serisi
MA Series / MA Série

MA Serisi / MA Series / MA Série				
Tip / Type / Type	k	c	d	l
MA 704	385	345	30	80
MA 804	385	345	30	80
MA 904	436	396	30	80
MA 1004	436	396	30	80
MA 1104	502	457	45	90



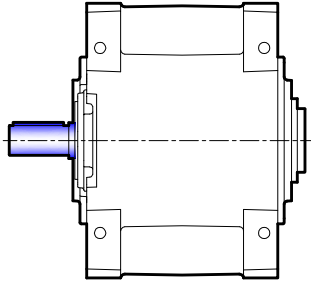
Radyal yk, milin orta noktasında deęil ise $F_{Qx} = F_{Ql} \cdot \frac{k}{c+x}$ forml ile hesaplanır.

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

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

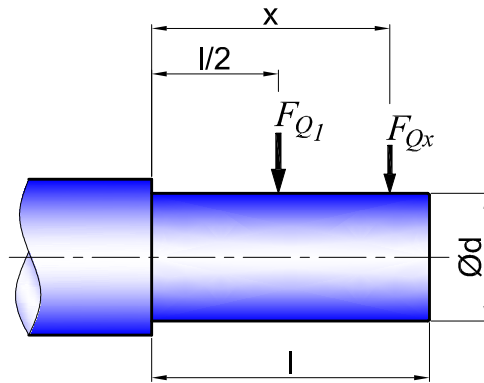
Radyal Yk Hesabı, Giriş Miline etkiyen Durum için
Calculation of Overhung Load for State Acting on Input Shaft
Calcul des charges appliquées sur l'arbre d'entrée

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



MA Serisi
MA Series / MA Série

MA Serisi / MA Series / MA Série				
Tip / Type / Type	k	c	d	l
MA 402	330.5	285.5	45	90
MA 403	332.75	292.75	30	80
MA 502	363.25	313.25	50	100
MA 503	353.25	313.25	40	80
MA 602	363.25	313.25	50	100
MA 603	353.25	313.25	40	80
MA 702	415	350.75	60	120
MA 703	400.75	350.75	45	100
MA 802	415	350.75	60	120
MA 803	400.75	350.75	45	100
MA 902	472.5	402.5	60	120
MA 903	466.5	406.5	45	120
MA 902	470.5	400.5	75	120
MA 903	466.5	406.5	55	120
MA 1002	472.5	402.5	60	120
MA 1003	466.5	406.5	45	120
MA 1002	470.5	400.5	75	120
MA 1003	466.5	406.5	55	120
MA 1102	528.5	458.5	75	140
MA 1103	526.5	456.5	55	140



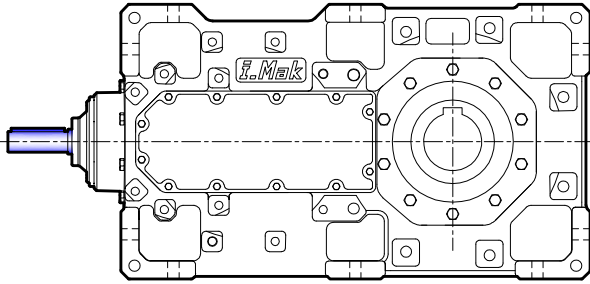
Radyal yk, milin orta noktasında deėil ise $F_{Qx} = F_{Ql} \cdot \frac{k}{c+x}$ **forml ile hesaplanır.**

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

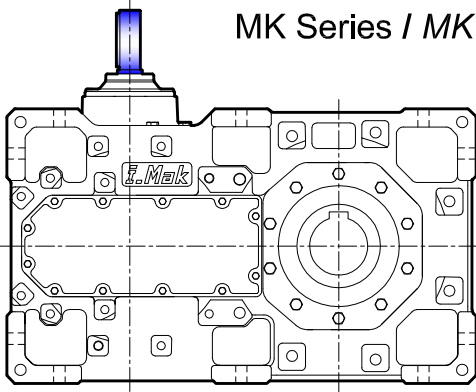
Dans le cas où les charges radiales ne sont appliquées au centre de l'arbre d'entrée, la formule à appliquer est $F_{Qx} = F_{Ql} \cdot \frac{k}{c+x}$

Radyal Yük 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

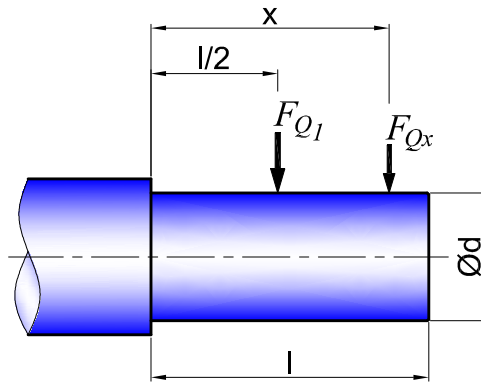
Radyal Yük Hesabı için Sabit Değerler Tablosu
Tables of Fixed Values for Calculation of Overhung Load
Tableau des valeurs préétablies pour le calcul des charges radiales



MK Serisi
MK Series / MK Série



MK Serisi / MK Series / MK Série				
Tip / Type / Type	k	c	d	l
MK 403	236.25	178.75	35	115
MK 404	167.75	117.75	28	100
MK 503	236.25	178.75	35	115
MK 504	170.75	120.75	28	100
MK 603	236.25	178.75	35	115
MK 604	170.75	120.75	28	100
MK 703	263.5	198.5	45	130
MK 704	188.25	130.75	30	115
MK 803	263.5	198.5	45	130
MK 804	188.25	130.75	30	115
MK 903	296	226	55	140
MK 904	207.25	155.75	35	115
MK 1003	296	226	55	140
MK 1004	207.25	155.75	35	115
MK 1103	333	253	70	160
MK 1104	241.5	176.5	45	130



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

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

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

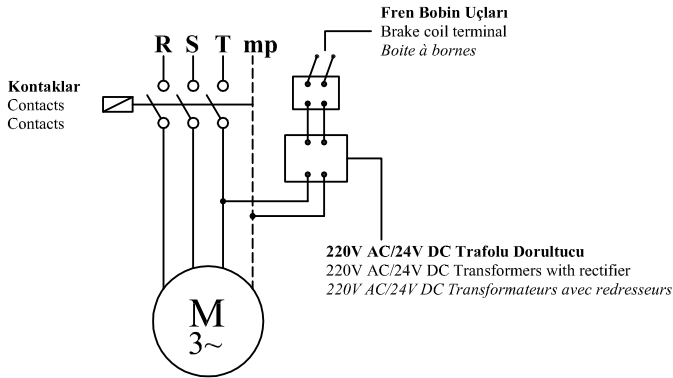
Veillez à nous informer si une unité de transformation 220/30V est nécessaire au branchement de votre frein (24 V)

Type de connexion des freins

Gecikmeli Frenleme (24V)

Delayed Running Brake (24V)

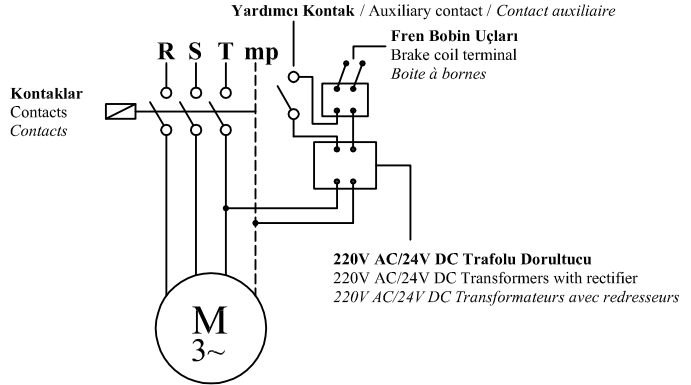
Frein à retardement (24 V)



Ani Frenleme (24V)

Sudden Running Brake (24V)

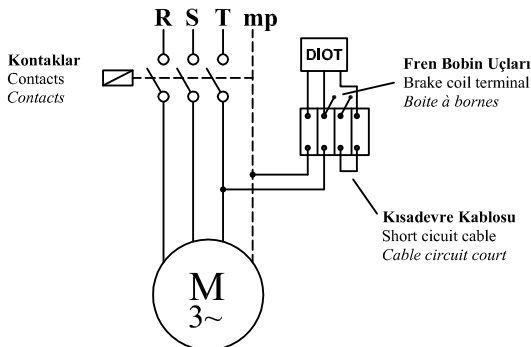
Frein à arrêt immédiat (24 V)



Gecikmeli Frenleme (220V)

Delayed Running Brake (220V)

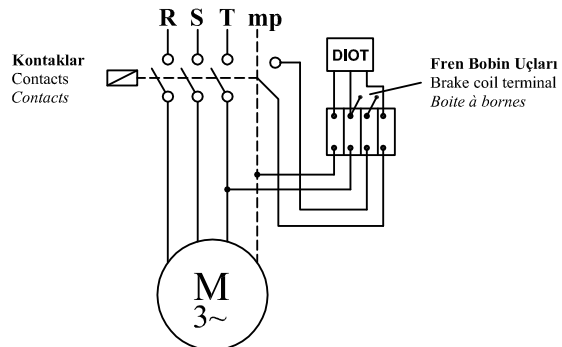
Frein à retardement (220 V)



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

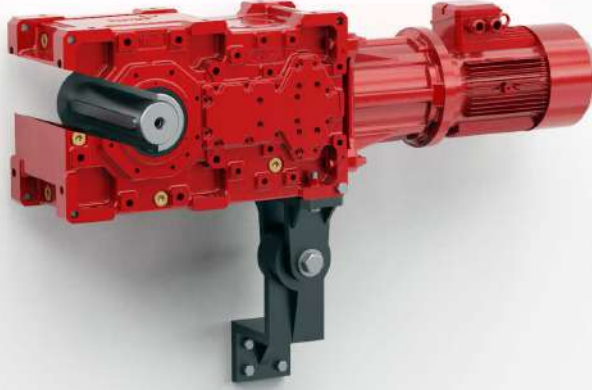
Redüktörünüzün sabitlendiği yüzeyle buluşturan, bağlantı noktaları zamanla aşınıp kırılmalara neden olabilir. Bu nedenle MA-MK serisi için özel olarak tasarladığımız tork kolu, içindeki lastik takoz sayesinde redüktörünüzü ani kalkışlara ve mil salgılarına karşı koruyup, sistem kaynaklı kasma ve gerilmeleri 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

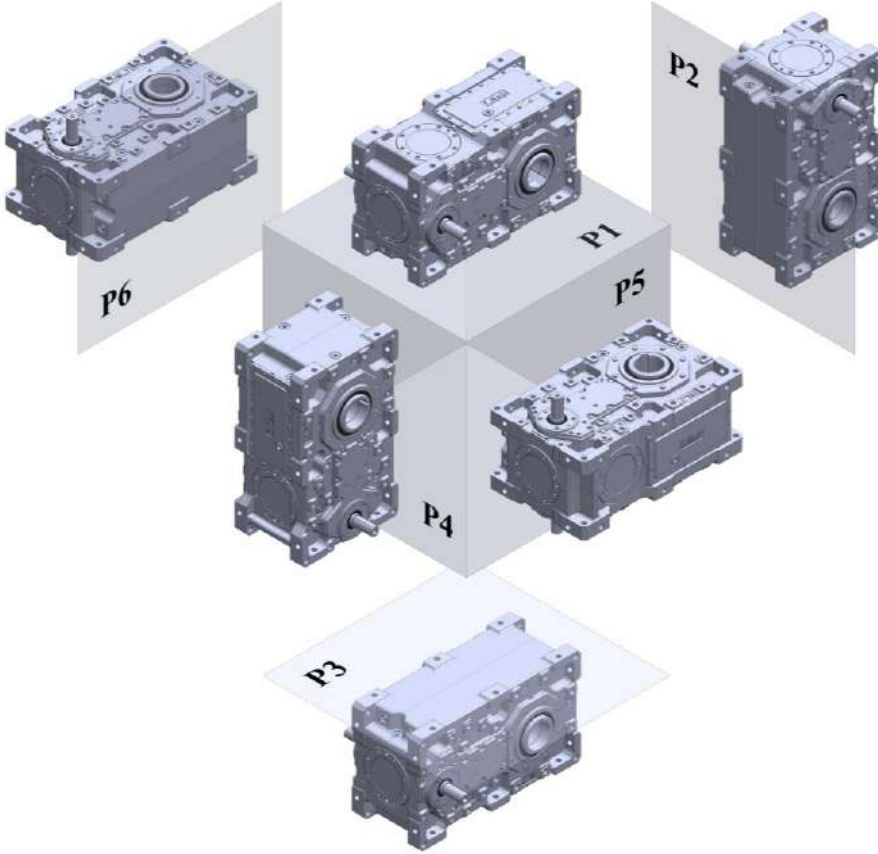
En cause de la majorité des pannes et défaillances, l'accouplement des réducteurs à la structure de l'application finale est un point essentiel au bon fonctionnement et au prolongement de la durée de vie des réducteurs. En effet, un accouplement défaillant ou mal adapté est souvent la cause de fissures, 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 :

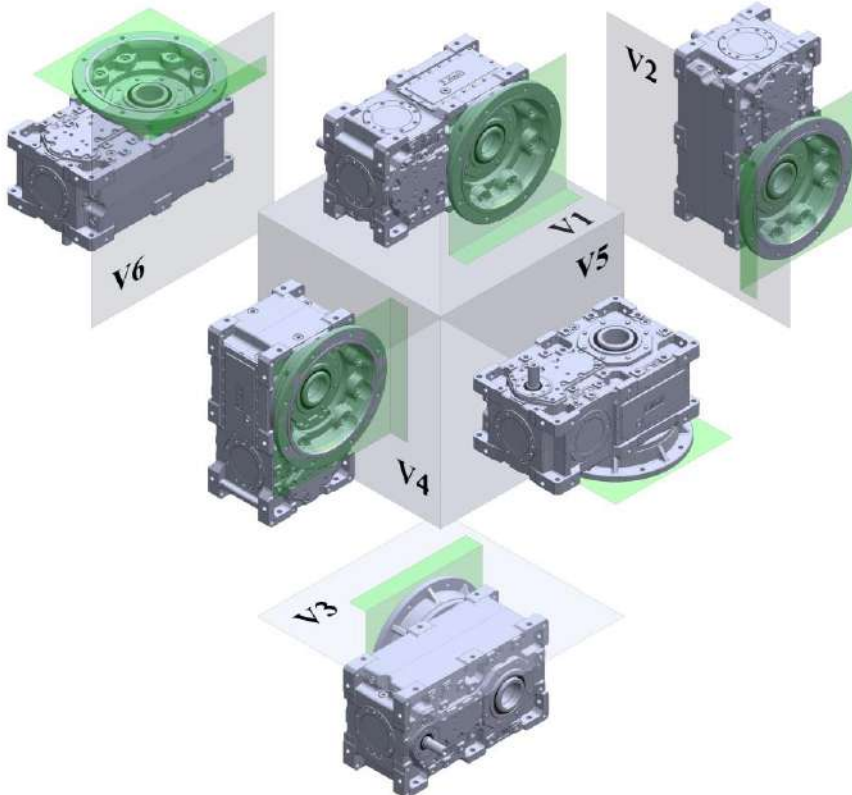
- Phase de montage facilitée
- Prolongement de la durée de vie
- Maintenance rapide



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.

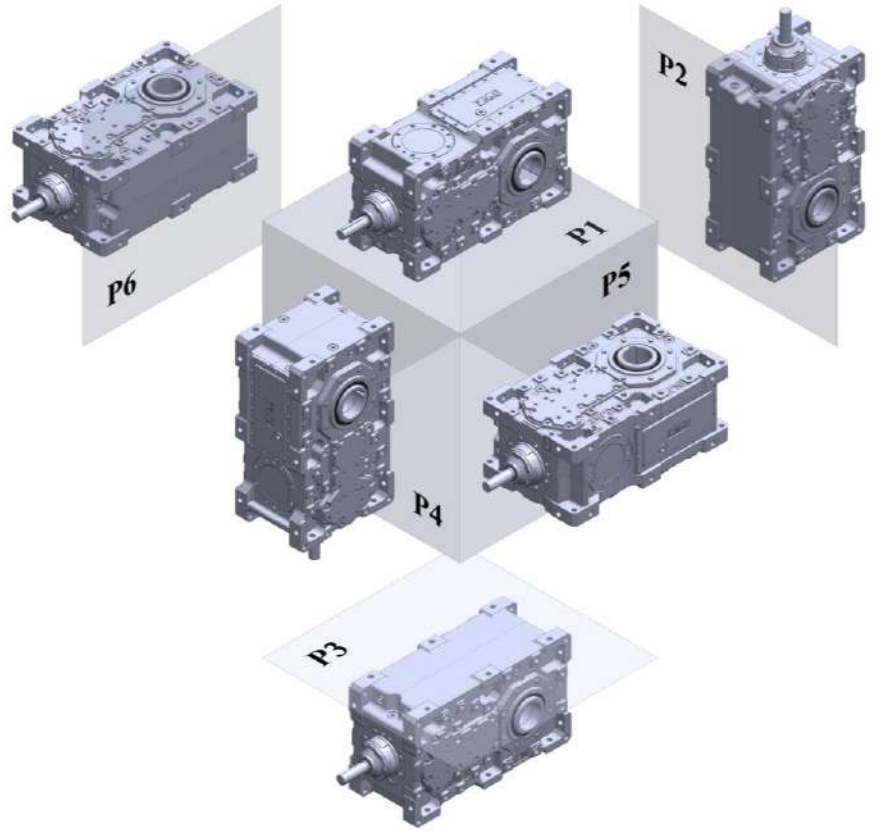
Flange mounted gearboxes position are defined as "V"

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

Ayak montajlı redüktörlerde
montaj pozisyonu "P" ile
gösterilir.

Foot mounted gearboxes
position are defined as "P"

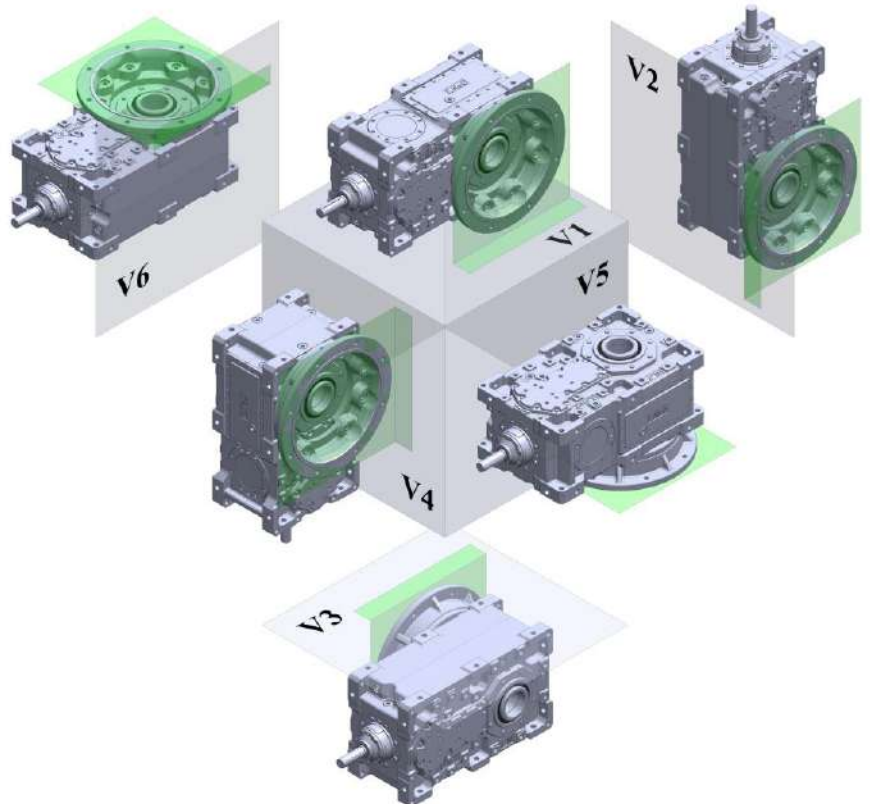
Les positions de montages
des réducteurs à pattes sont
définis par "P"

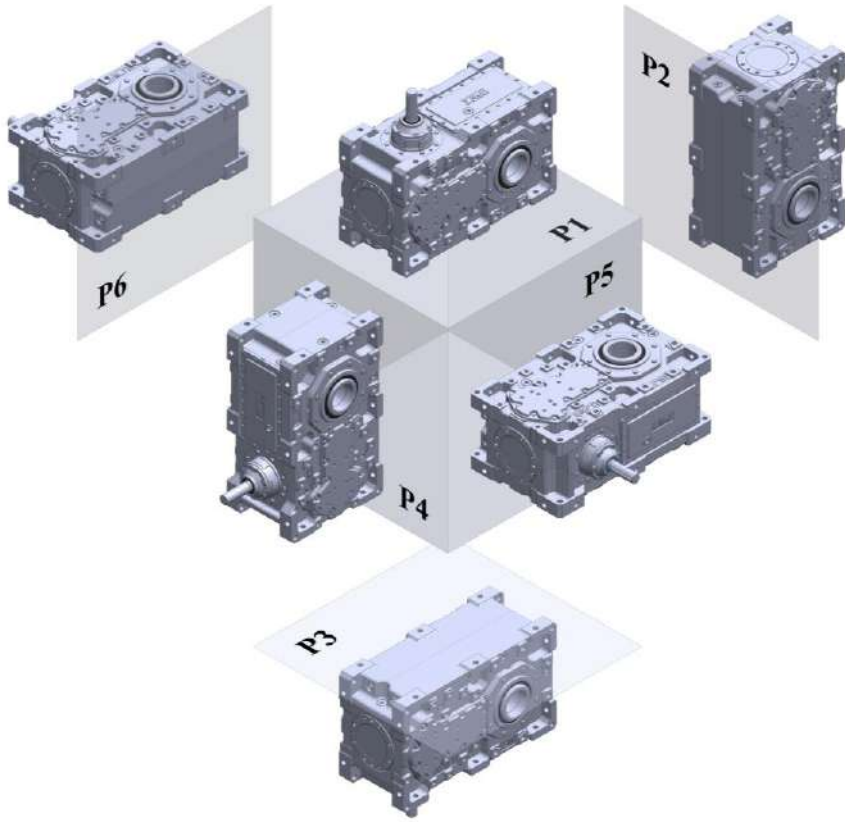


Flanş montajlı redüktörlerde
montaj pozisyonu "V" ile
gösterilir.

Flange mounted gearboxes
position are defined as "V"

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

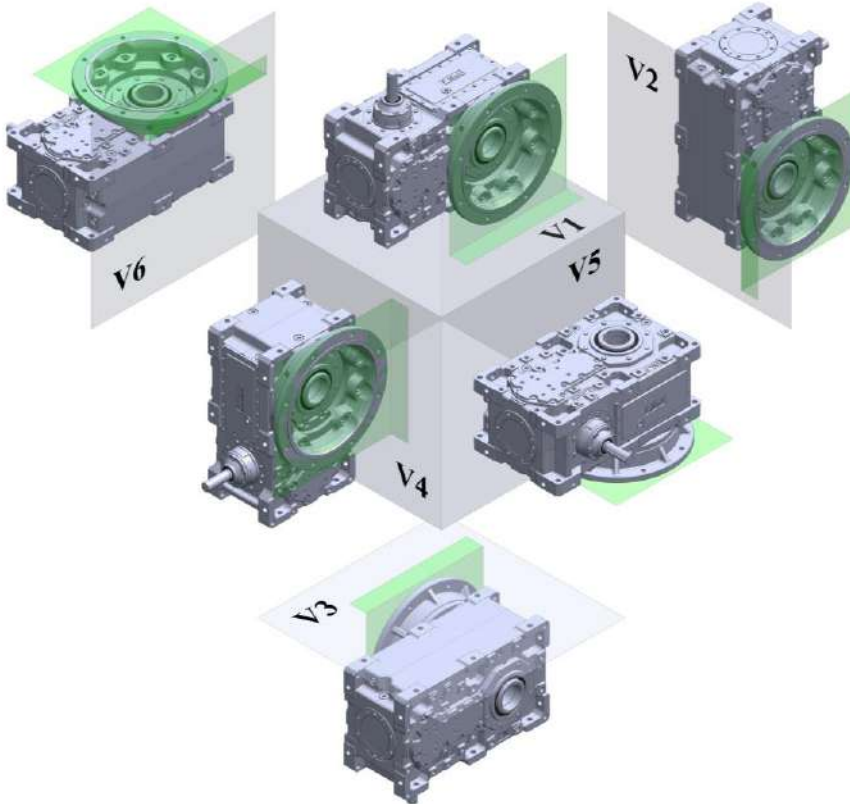




Ayak montajlı redüktörlerde
montaj pozisyonu "P" ile
gösterilir.

Foot mounted gearboxes
position are defined as "P"

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

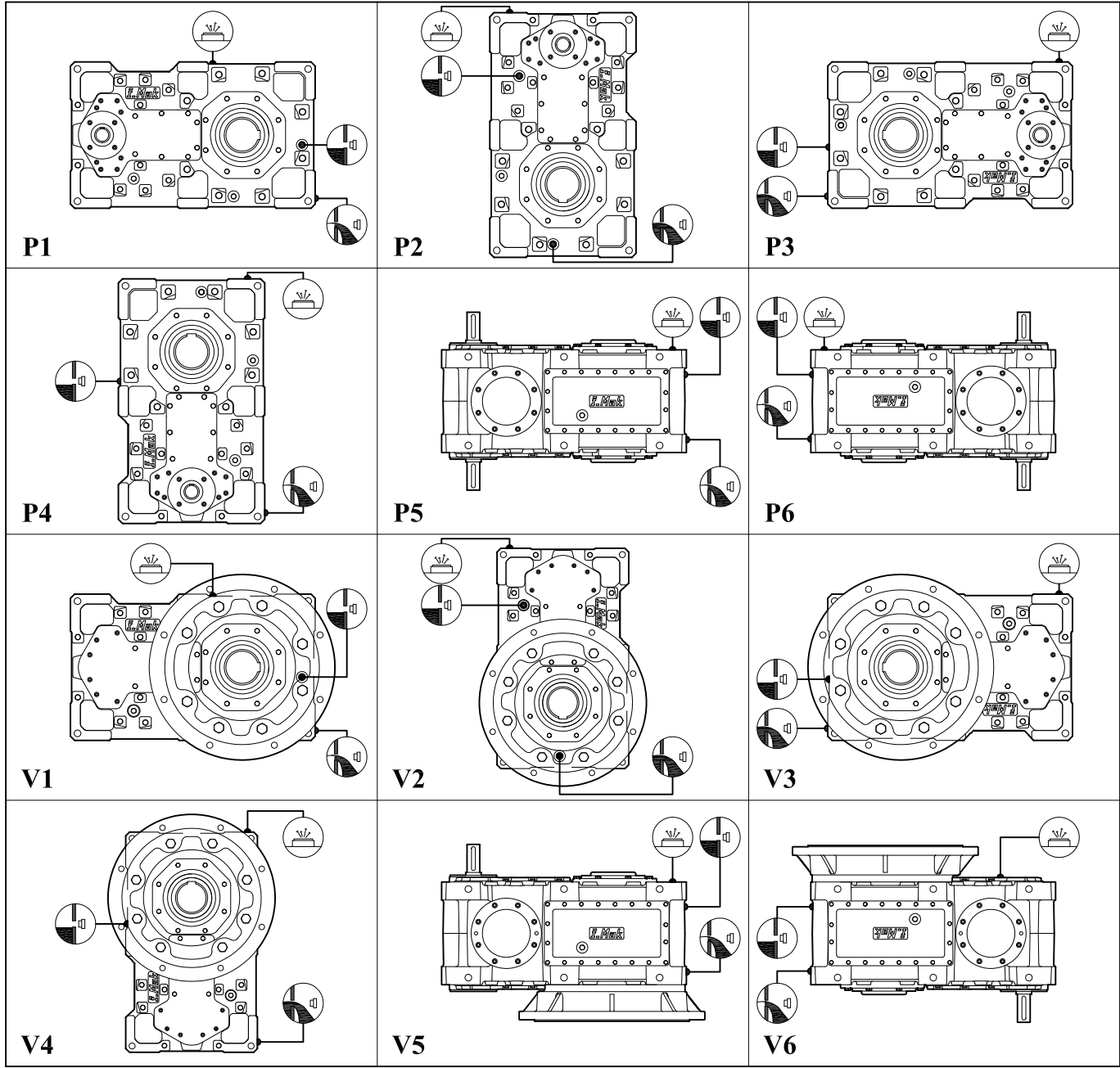


Flanş montajlı redüktörlerde
montaj pozisyonu "V" ile
gösterilir.

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 viscosité	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 GX 320	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 GX 220	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 GX 150	Alpha SP 150	Klüberoil GEM 1 N 150	Recompound FL 150
	ISO VG 100	CLP	-15.....+90	Mobilgear 600 XP 100	-	-	OmalaS2 GX 100	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 GEM 4N 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 GEM 4N 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 GEM 4N 150	Recompound Syn 150
	ISO VG 100	CLP HC	-45.....+110	Mobil SHC 627	-	-	-	Optigear Synthetic PD 100 ES	Klübersynth GEM 4N 100	Recompound Syn 100



Semboller :

Symbols :

Symboles :



Yağ Doldurma ve Havalandırma

Oil Filling and Vent Plug

Valve d'aération



Yağ Seviye Tespit

Oil Level

Niveau d'huile

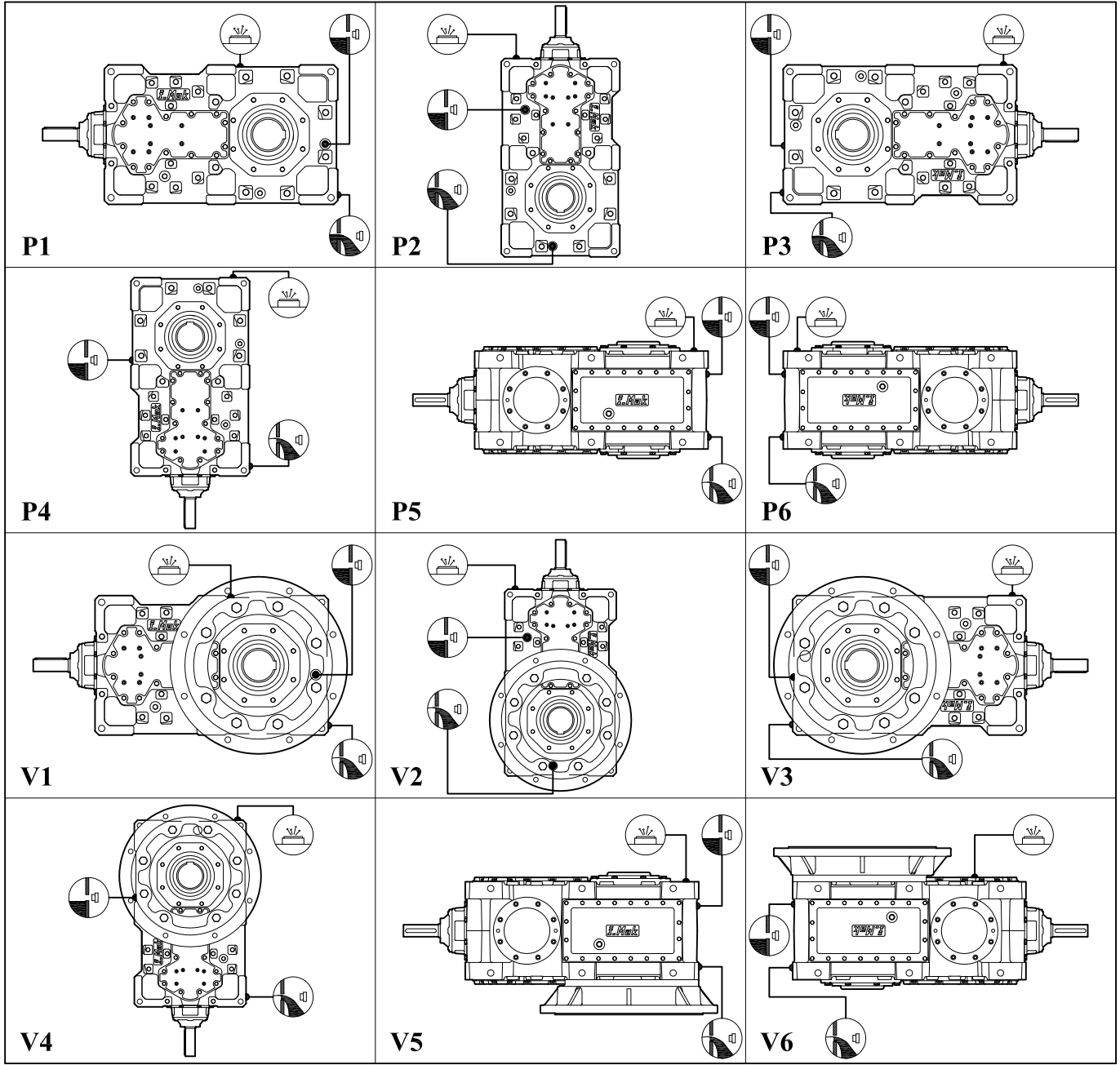


Yağ Boşaltma

Oil Drain Plug

Bouchon de drainage

TİP Type	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
MA.... 403-402	17		26		16		24		28		27	
MA.... 503-502	23		35		20		30		36		35	
MA.... 603-602	26		39		22		33		40		39	
MA.... 704-703-702	38		55		32		48		58		55	
MA.... 804-803-802	42		65		36		53		66		63	
MA.... 904-903-902	51		81		45		74		82		78	
MA.... 1004-1003-1002	58		92		51		80		92		88	
MA.... 1104-1103-1102	74		115		66		105		125		118	



Semboller :
Seymbols :
Seymboles :



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

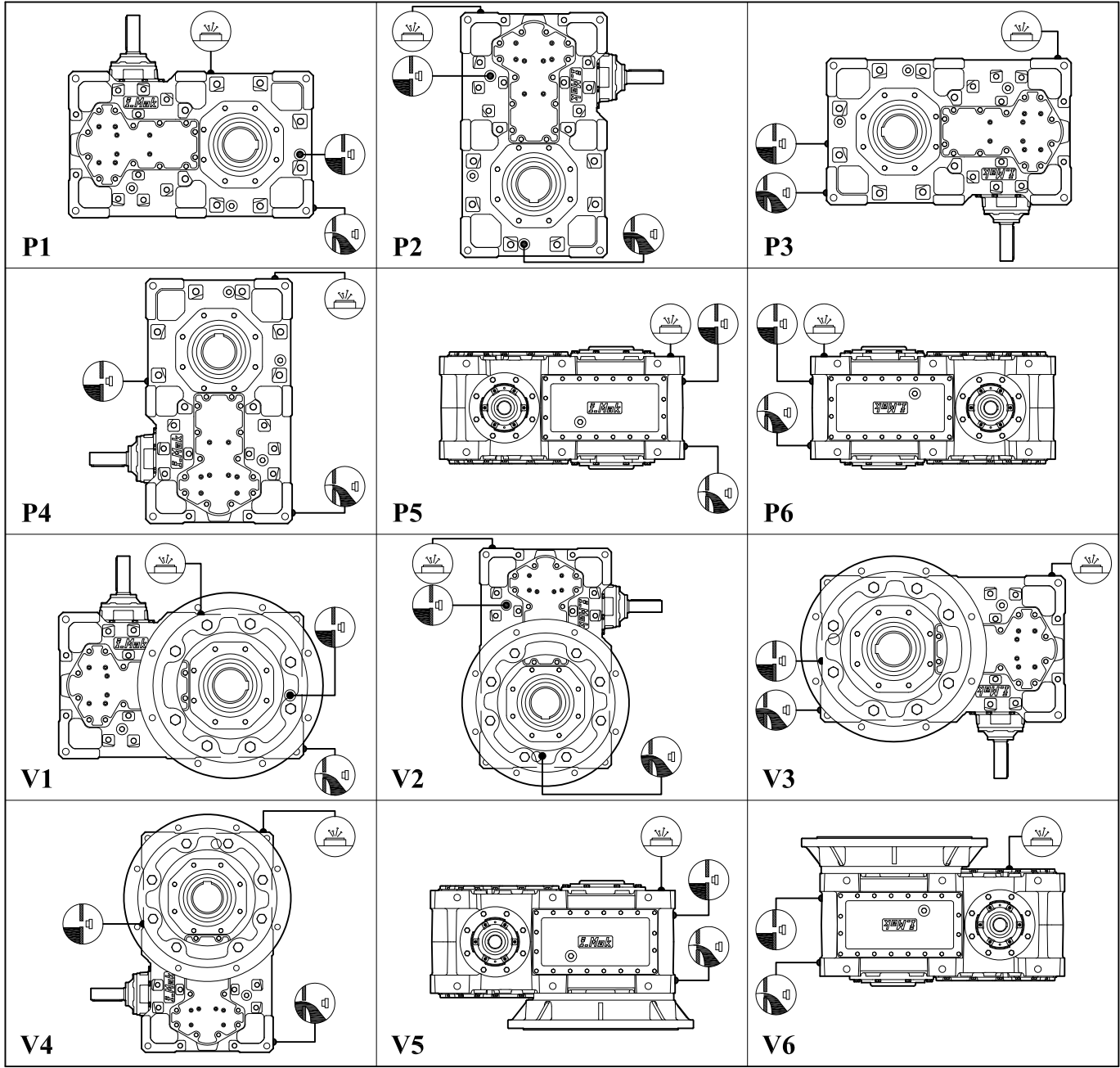


Yağ Seviye Tespit
Oil Level
Niveau d'huile



Yağ Boşaltma
Oil Drain Plug
Bouchon de drainage

TİP Type	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
MK.... 404-403 / G07-G09	17		26		16		24		28		27	
MK.... 504-503 / G07-G09	23		35		20		31		37		36	
MK.... 604-603 / G07-G09	26		39		22		34		41		40	
MK.... 704-703 / G07-G09	38		55		32		49		59		56	
MK.... 804-803 / G07-G09	42		65		36		54		67		64	
MK.... 904-903 / G07-G09	52		81		45		76		84		80	
MK.... 1004-1003 / G07-G09	59		92		51		82		94		90	
MK.... 1104-1103 / G07-G09	76		120		68		110		122		115	



Semboller :

Symbols :

Symboles :



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	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
MK.... 403 / G08-G10	17		26		16		24		28		27	
MK.... 503 / G08-G10	23		35		21		31		37		36	
MK.... 603 / G08-G10	25		39		23		34		41		40	
MK.... 703 / G08-G10	38		55		33		49		59		56	
MK.... 803 / G08-G10	42		65		37		54		67		64	
MK.... 903 / G08-G10	50		81		47		76		84		80	
MK.... 1003 / G08-G10	58		92		53		82		94		90	
MK.... 1103 / G08-G10	76		121		66		113		127		118	

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	Efficiency		
					100%	75%		
63M4a	0,12	1365	0,40	0,80	59,1	59,1	IE2	S1
63M4b	0,18	1340	0,55	1,30	64,7	64,7	IE2	S1
71M4a	0,25	1380	0,75	1,70	68,5	68,5	IE2	S1
71M4b	0,37	1390	1,10	2,50	72,7	72,7	IE2	S1
C71M4c	0,55	1385	1,60	3,80	68,6	68,6	IE2	S1
80M4a	0,55	1365	1,45	3,80	77,1	77,1	IE2	S1
80H4b	0,75	1425	1,85	5,00	82,5	82,5	IE3	S1
90S4a	1,1	1440	2,60	7,30	84,1	84,1	IE3	S1
90H4b	1,5	1435	3,30	10,0	85,3	85,3	IE3	S1
100L4a	2,2	1445	5,00	14,5	86,7	86,8	IE3	S1
100H4b	3	1445	6,60	19,8	87,7	87,8	IE3	S1
112M4a	4	1450	8,00	26,3	88,6	88,5	IE3	S1
132S4a	5,5	1450	11,0	36,2	89,6	89,6	IE3	S1
132M4b	7,5	1470	15,4	48,7	90,4	90,5	IE3	S1
C132M4c	9,2	1460	18,3	60,1	90,4	90,5	IE3	S1
160M4a	11	1470	21,1	71,5	91,4	91,3	IE3	S1
160L4b	15	1475	28,5	97,1	92,1	92,0	IE3	S1
180M4a	18,5	1475	34,0	119,8	92,6	92,6	IE3	S1
180L4b	22	1475	39,4	142,4	93,0	92,8	IE3	S1
200L4a	30	1475	52,8	194,2	93,6	93,5	IE3	S1
225S4a	37	1475	67,0	239,6	93,9	93,9	IE3	S1
225M4b	45	1475	80,0	291,4	94,2	94,2	IE3	S1
250M4a	55	1480	96,0	354,9	94,6	94,7	IE3	S1
280S4a	75	1485	133	482,3	95,0	94,9	IE3	S1
280M4b	90	1485	158	578,8	95,2	95,2	IE3	S1

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

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

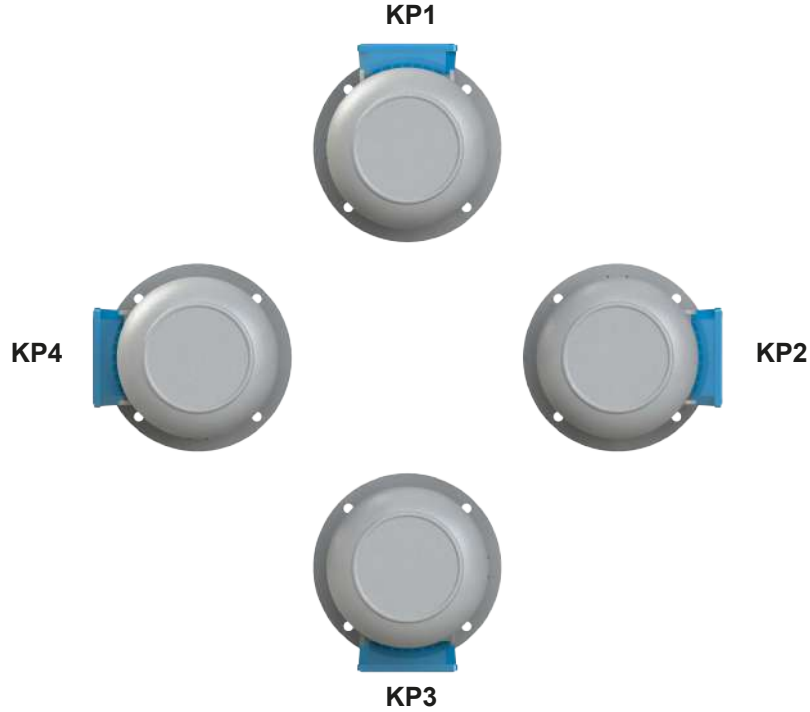
Kod Code Code	Güç (kW) Power (kW) Puissance (kW)	Hız (d/d) Speed (r.p.m.) Vitesse (r.p.m.)	Anma Akımı Rated Current Ampère	Moment (Nm) Torque (Nm) Couple (Nm)	Verim		IE Sınıfı IE Class Classe IE	Çalışma Sınıfı Duty Type Classe d'utilisation
					100	75		
					Efficiency	Efficiency		
					100%	75%		
315S4a	110	1490	194	705,0	95,4	95,2	IE3	S1
315M4b	132	1490	226	846,0	95,6	95,4	IE3	S1
315L4c	160	1490	275	1025,5	95,8	95,6	IE3	S1
315L4d	185	1490	321	1185,7	96,0	96,0	IE3	S1
315H4e	200	1490	350	1281,9	96,0	95,8	IE3	S1
315H4f	250	1490	435	1602,3	96,0	95,8	IE3	S1
355M4a	250	1490	430	1602,3	96,0	96,0	IE3	S1
355M4b	315	1490	540	2019,0	96,0	96,0	IE3	S1
355L4c	355	1490	610	2275,3	96,0	96,0	IE3	S1
355L4d	400	1490	690	2563,8	96,0	96,1	IE3	S1
400L4a	450	1490	760	2884,2	96,0	96,0	IE3	S1
400L4b	500	1490	845	3204,7	96,0	96,0	IE3	S1
400L4c	560	1490	957	3589,3	96,0	96,0	IE3	S1
400L4d	630	1490	1090	4037,9	96,0	96,0	IE3	S1
400L4e	710	1490	710	4550,7	96,0	96,0	IE3	S1
450L4a	800	1490	772	5127,5	96,0	96,0	IE3	S1
450H4b	900	1490	869	5768,5	96,0	96,0	IE3	S1
450H4c	1000	1490	965	6409,4	96,0	96,0	IE3	S1

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

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

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

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



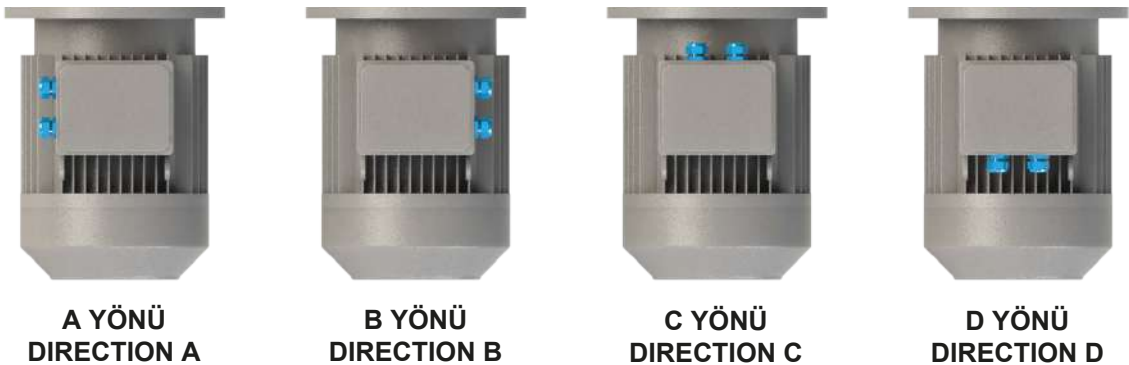
Rakor Yönleri

Cable Entry / Entrée des câbles

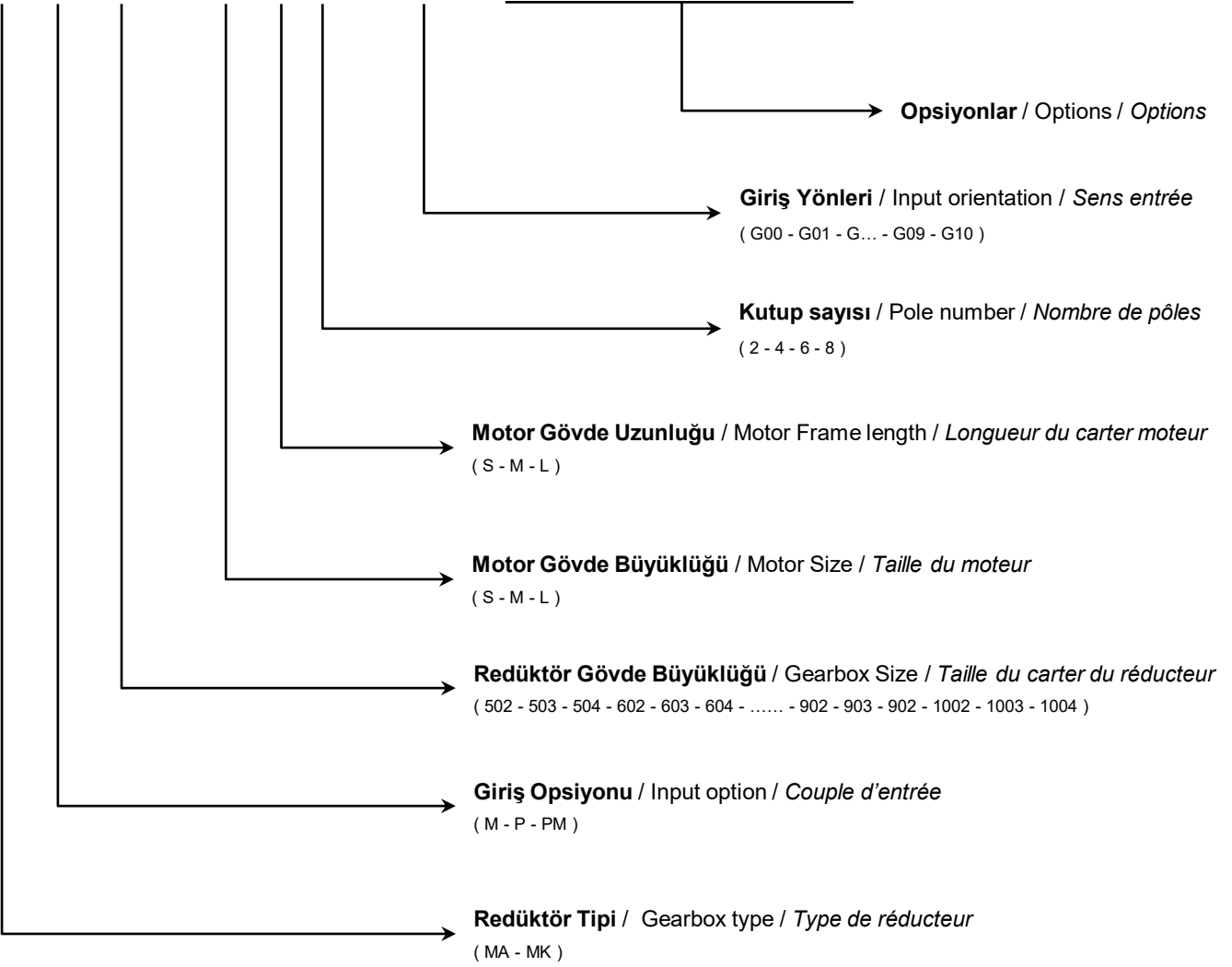
Standart rakor yönü "A" dir, belirtilmediği sürece standart yönde yapılır.

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 configuration standard pour la position d'entrée des câbles est définie comme « A ». Si aucune position n'est définie lors de la commande, la position « A » sera automatiquement attribuée.



MA M 703 - 180 L 4 / G03 - FR SR E BR 353



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.	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	60	120
	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>	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.	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	110	160
	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>	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.	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	90	240
	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>	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.	Çinko fosfat pigmentli epoksi Epoxy including zinc phosphate pigment <i>Expozy au composants de zinc et pigment phosphates</i>	80	500
	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>	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	

		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>

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 sıkılamak 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.

MA Serisi Motorlu Redüktörler Güç ve Devir Tabloları

MA Series - Performances Tables
Series MA - Table de performances



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	3,3	423	3,00	8158	235000	MAM	804 / 100 L 4b	153	731
	3,7	377	3,30	7275	235000			158	
	4,1	339	3,70	6534	235000				
	4,6	306	4,10	5902	235000				
	4,2	333	3,00	6422	180000	MAM	704 / 100 L 4b	135	645
	4,7	297	3,40	5727	180000			140	
	5,2	266	3,80	5143	180000				
4 5,5	3,9	357	3,80	9173	270000	MAM	1004 / 112 M 4a	189 194	1124
	3,8	363	3,00	9344	170000	MAM	904 / 112 M 4a	171	
	4,2	330	3,40	8479	170000			176	
	4,9	287	3,80	7395	170000				
	3,3	423	2,20	10877	235000	MAM	804 / 112 M 4a	153 158	737
	3,7	377	2,50	9700	235000				
	4,1	339	2,80	8712	235000				
	4,6	306	3,10	7870	235000				
	5,0	278	3,40	7144	235000				
	5,4	257	3,60	6615	235000				
	6,2	226	4,10	5809	235000				
	4,2	333	2,20	8562	180000	MAM	704 / 112 M 4a	135 140	651
	4,7	297	2,50	7636	180000				
	5,2	266	2,80	6858	180000				
	5,8	241	3,10	6195	180000				
	6,5	214	3,60	5511	180000				
	7,2	193	4,00	4978	180000				
	14	103	4,00	2695	85000	MAM	503 / 112 M 4a	105 110	460
	16,4	85,14	3,20	2220	55000	MAM	403 / 112 M 4a	93 98	317
	18,6	75,28	3,60	1963	55000				
	20,9	67,14	4,00	1751	55000				
5,5 7,5	3,7	380	3,70	13448	330000	MAM	1104 / 132 S 4a	207 212	1501
	3,9	357	2,80	12613	270000	MAM	1004 / 132 S 4a	189 194	1141
	4,4	314	3,20	11115	270000				
	4,8	292	3,40	10344	270000				
	5,4	258	3,80	9116	270000				
	5,7	245	4,00	8680	270000				
	3,8	363	2,20	12849	170000	MAM	904 / 132 S 4a	171 176	941
	4,2	330	2,40	11659	170000				
	4,9	287	2,80	10168	170000				
	5,5	253	3,20	8961	170000				
	5,8	239	3,30	8467	170000				
	6,6	211	3,70	7461	170000				
	3,3	423	1,61	14956	235000	MAM	804 / 132 S 4a	153 158	754
	3,7	377	1,80	13338	235000				
	4,1	339	2,00	11979	235000				
	4,6	306	2,20	10821	235000				
	5,0	278	2,50	9823	235000				
	5,4	257	2,60	9096	235000				
	6,2	226	3,00	7988	235000				
	6,9	203	3,40	7174	235000				
	7,6	183	3,70	6480	235000				
	8,8	158	4,10	5603	235000				
	4,2	333	1,64	11773	180000	MAM	704 / 132 S 4a	135 140	668
	4,7	297	1,85	10499	180000				
	5,2	266	2,10	9429	180000				
	5,8	241	2,30	8518	180000				
	6,5	214	2,60	7578	180000				



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	7,2	193	2,90	6845	180000	MAM	704 / 132 S 4a	135 140	668
	8,0	174	3,20	6160	180000				
	8,9	157	3,50	5565	180000				
	10	139	4,00	4942	180000				
	11	127	4,30	4486	180000				
	16	89,19	3,50	3198	100000	MAM	603 / 132 S 4a	117 122	483
	18	78,14	4,00	2802	100000				
	14	103	2,90	3706	85000	MAM	503 / 132 S 4a	105 110	475
	15	92,73	3,30	3325	85000				
	17	80,56	3,80	2889	85000				
	20	70,72	4,30	2536	85000	MAM	403 / 132 S 4a	93 98	332
	16	85,14	2,30	3053	55000				
	19	75,28	2,60	2699	55000				
	21	67,14	2,90	2407	55000				
	23	60,29	3,30	2162	55000				
	26	54,47	3,60	1953	55000				
7,5 10	28	49,44	3,90	1773	55000	MAM	1104 / 132 M 4a	207 212	1509
	3,7	380	2,70	18338	330000				
	4,1	338	3,10	16285	330000				
	4,6	302	3,30	14560	330000				
	5,2	271	3,80	13091	330000	MAM	1004 / 132 M 4a	189 194	1149
	3,9	357	2,00	17200	270000				
	4,4	314	2,30	15157	270000				
	4,8	292	2,50	14106	270000				
	5,4	258	2,80	12431	270000	MAM	904 / 132 M 4a	171 176	949
	5,7	245	2,90	11837	270000				
	6,5	216	3,40	10431	270000				
	3,8	363	1,64	17521	170000				
	4,2	330	1,80	15899	170000				
	4,9	287	2,00	13865	170000				
	5,5	253	2,30	12219	170000				
	5,8	239	2,40	11545	170000	MAM	804 / 132 M 4a	153 158	762
	6,6	211	2,70	10174	170000				
	7,0	198	2,90	9564	170000				
	8,4	167	3,50	8043	170000				
	3,3	423	1,18	20395	235000	MAM	704 / 132 M 4a	135 140	676
	3,7	377	1,32	18188	235000				
	4,1	339	1,48	16335	235000				
	4,6	306	1,64	14756	235000				
	5,0	278	1,80	13395	235000				
	5,4	257	1,92	12403	235000				
	6,2	226	2,20	10892	235000				
	6,9	203	2,50	9782	235000	MAM	704 / 132 M 4a	135 140	676
	7,6	183	2,70	8837	235000				
	8,8	158	3,00	7640	235000				
	9,7	144	3,40	6935	235000				
	11	125	3,80	6026	235000				
	4,2	333	1,20	16054	180000				
	4,7	297	1,36	14317	180000				
	5,2	266	1,52	12858	180000				
	5,8	241	1,68	11615	180000				
	6,5	214	1,92	10333	180000				
	7,2	193	2,20	9334	180000				
	8,0	174	2,30	8401	180000				
	8,9	157	2,50	7589	180000				
	10	139	2,90	6739	180000				
	11	127	3,10	6117	180000				
	12	113	3,60	5469	180000				
	14	102	4,00	4917	180000				



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 10	16	89,19	2,60	4361	100000	MAM	603 / 132 M 4a	117 122	491
	18	78,14	3,00	3821	100000				
	21	67,89	3,50	3319	100000				
	23	59,59	4,00	2914	100000				
	14	103	2,20	5054	85000	MAM	503 / 132 M 4a	105 110	483
	15	92,73	2,40	4534	85000				
	17	80,56	2,80	3939	85000				
	20	70,72	3,20	3458	85000				
	22	62,58	3,60	3060	85000	MAM	403 / 132 M 4a	93 98	340
	25	55,74	4,00	2726	85000				
	26	53,35	4,00	2609	85000				
	16	85,14	1,68	4163	55000				
	19	75,28	1,92	3681	55000				
	21	67,14	2,10	3283	55000				
	23	60,29	2,40	2948	55000				
	26	54,47	2,60	2663	55000				
	28	49,44	2,90	2418	55000				
	32	44,06	3,10	2154	55000				
	36	39,29	3,50	1921	55000	MAM	1104 / 160 M 4a	207 212	1589
	40	35,29	4,00	1725	55000				
11 15	3,7	380	1,85	26896	330000				
	4,1	338	2,10	23884	330000				
	4,6	302	2,30	21355	330000				
	5,2	271	2,60	19200	330000				
	5,8	242	2,80	17117	330000				
	6,5	216	3,20	15304	330000				
	7,2	194	3,60	13745	330000				
	8,0	174	4,00	12358	330000				
	3,9	357	1,38	25226	270000				
	4,4	314	1,60	22231	270000				
	4,8	292	1,70	20688	270000				
	5,4	258	1,90	18232	270000				
	5,7	245	2,00	17361	270000				
	6,5	216	2,30	15299	270000				
	7,8	179	2,80	12651	270000				
	8,8	159	3,20	11231	270000				
	9,6	145	3,40	10301	270000				
	11	129	3,80	9144	270000				
	3,8	363	1,12	25697	170000				
	4,2	330	1,23	23319	170000				
	4,9	287	1,50	20336	170000				
	5,5	253	1,58	17921	170000				
	5,8	239	1,64	16933	170000				
	6,6	211	1,85	14923	170000				
	7,0	198	2,00	14027	170000				
	8,4	167	2,40	11797	170000				
	9,5	147	2,70	10406	170000				
	11	130	3,00	9238	170000				
	12	116	3,50	8207	170000				
	14	103	3,90	7286	170000				
	4,6	306	1,12	21642	235000				
	5,0	278	1,23	19645	235000				
	5,4	257	1,31	18191	235000				
	6,2	226	1,50	15975	235000				
	6,9	203	1,69	14347	235000				
	7,6	183	1,85	12961	235000				
	8,8	158	2,10	11205	235000				
	9,7	144	2,30	10172	235000				
	11	125	2,60	8837	235000				
	12	113	2,90	8022	235000				



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	13	104	3,30	7482	235000	MAM	803 / 160 M 4a	147 152	847
	15	93,04	3,70	6672	235000	MAM	704 / 160 M 4a	135 140	749
	5,8	241	1,15	17036	180000				
	6,5	214	1,31	15155	180000				
	7,2	193	1,47	13690	180000				
	8,0	174	1,60	12321	180000				
	8,9	157	1,75	11130	180000				
	10	139	2,00	9884	180000				
	11	127	2,10	8972	180000				
	12	113	2,40	8022	180000				
	14	102	2,70	7212	180000				
	15	94,40	2,80	6668	180000				
	16	84,88	3,10	5995	180000				
	17	82,13	3,30	5890	180000	MAM	703 / 160 M 4a	129 134	761
	19	73,24	3,80	5252	180000	MAM	603 / 160 M 4a	117 122	568
	21	65,78	3,90	4717	180000				
	16	89,19	1,77	6396	100000				
	18	78,14	2,00	5604	100000				
	21	67,89	2,30	4868	100000				
	23	59,59	2,70	4273	100000	MAM	503 / 160 M 4a	105 110	560
	25	56,88	3,40	4079	100000				
	14	103	1,48	7412	85000				
	15	92,73	1,66	6650	85000				
	17	80,56	1,91	5778	85000				
	20	70,72	2,20	5071	85000				
	22	62,58	2,40	4488	85000				
	25	55,74	2,70	3998	85000				
	26	53,35	2,70	3826	85000				
	30	46,83	3,10	3358	85000				
	34	41,44	3,50	2972	85000				
	38	36,91	4,00	2647	85000	MAM	403 / 160 M 4a	93 98	413
	19	75,28	1,31	5399	55000				
	21	67,14	1,45	4815	55000				
	23	60,29	1,64	4324	55000				
	26	54,47	1,78	3906	55000				
	28	49,44	1,96	3546	55000				
	32	44,06	2,20	3160	55000				
	36	39,29	2,40	2818	55000				
	40	35,29	2,70	2531	55000				
	44	31,88	3,00	2286	55000				
	48	28,93	3,30	2075	55000	MAM	402 / 160 M 4a	87 92	419
	55	25,33	3,40	1817	55000				
	62	22,75	3,80	1632	55000				
	67	20,97	3,70	1527	55000				
	75	18,54	4,20	1350	55000				
15 20	3,7	380	1,35	36676	330000	MAM	1104 / 160 L 4a	207 212	1616
	4,1	338	1,54	32569	330000				
	4,6	302	1,68	29120	330000				
	5,2	271	1,90	26181	330000				
	5,8	242	2,10	23342	330000				
	6,5	216	2,30	20869	330000				
	7,2	194	2,60	18743	330000				
	8,0	174	2,90	16852	330000				
	8,9	158	3,20	15221	330000				
	9,8	143	3,60	13801	330000				
	11	129	4,00	12467	330000				



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
15 20	3,9	357	1,01	34399	270000	MAM	1004 / 160 L 4a	189 194	1249
	4,4	314	1,17	30315	270000				
	4,8	292	1,25	28211	270000				
	5,4	258	1,39	24861	270000				
	5,7	245	1,47	23674	270000				
	6,5	216	1,69	20863	270000				
	7,8	179	2,00	17252	270000				
	8,8	159	2,30	15315	270000				
	9,6	145	2,50	14047	270000				
	11	129	2,80	12470	270000				
	13	108	3,30	10464	270000				
	4,2	330	0,90	31798	170000	MAM	904 / 160 L 4a	171 176	1049
	4,9	287	1,10	27731	170000				
	5,5	253	1,16	24438	170000				
	5,8	239	1,20	23091	170000				
	6,6	211	1,36	20349	170000				
	7,0	198	1,46	19128	170000				
	8,4	167	1,76	16087	170000				
	9,5	147	2,00	14190	170000				
	11	130	2,20	12598	170000				
	12	116	2,50	11191	170000				
	14	103	2,90	9935	170000				
	15	92,07	3,20	8869	170000	MAM	903 / 160 L 4a	165 170	1069
	16	85,88	3,30	8273	170000				
	16	89,63	3,30	8765	170000				
	17	81,33	3,70	7954	170000	MAM	804 / 160 L 4a	153 158	862
	6,2	226	1,10	21785	235000				
	6,9	203	1,24	19565	235000				
	7,6	183	1,35	17673	235000				
	8,8	158	1,50	15280	235000				
	9,7	144	1,69	13870	235000				
	11	125	1,91	12051	235000	MAM	803 / 160 L 4a	147 152	874
	12	113	2,10	10939	235000				
	13	104	2,40	10202	235000				
	15	93,04	2,70	9099	235000				
	17	83,56	3,00	8171	235000				
	19	75,48	3,30	7382	235000				
	20	68,52	3,70	6701	235000	MAM	704 / 160 L 4a	135 140	776
	10	139	1,47	13478	180000				
	11	127	1,58	12235	180000				
	12	113	1,80	10939	180000				
	14	102	1,98	9835	180000				
	15	94,40	2,10	9093	180000				
	16	84,88	2,30	8176	180000	MAM	703 / 160 L 4a	129 134	788
	17	82,13	2,40	8031	180000				
	19	73,24	2,80	7162	180000				
	21	65,78	2,80	6432	180000				
	24	59,42	3,20	5811	180000				
	26	52,86	4,00	5169	180000				
	18	78,14	1,50	7641	100000	MAM	603 / 160 L 4a	117 122	595
	21	67,89	1,75	6639	100000				
	23	59,59	2,00	5827	100000				
	25	56,88	2,50	5562	100000				
	32	44,14	3,20	4317	100000				
	36	38,40	3,50	3756	100000				
	42	33,71	4,00	3297	100000				
	46	30,49	4,40	2982	100000				



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
15 20	15	92,73	1,22	9068	85000	MAM	503 / 160 L 4a	105 110	587
	17	80,56	1,40	7878	85000				
	20	70,72	1,60	6915	85000				
	22	62,58	1,81	6120	85000				
	25	55,74	2,00	5451	85000				
	26	53,35	2,00	5217	85000				
	30	46,83	2,30	4579	85000				
	34	41,44	2,60	4052	85000				
	38	36,91	3,00	3610	85000				
	43	32,46	3,40	3175	85000				
	49	28,63	3,80	2800	85000				
	55	25,59	4,30	2503	85000				
	26	54,47	1,31	5326	55000	MAM	403 / 160 L 4a	93 98	440
	28	49,44	1,44	4835	55000				
	32	44,06	1,58	4309	55000				
	36	39,29	1,76	3843	55000				
	40	35,29	1,98	3451	55000				
	44	31,88	2,20	3117	55000				
	48	28,93	2,40	2830	55000				
	55	25,33	2,50	2478	55000				
	62	22,75	2,80	2225	55000	MAM	402 / 160 L 4a	87 92	446
	67	20,97	2,70	2083	55000				
	75	18,54	3,10	1841	55000				
	85	16,54	3,40	1642	55000				
	94	14,85	3,80	1475	55000				
	104	13,42	4,30	1332	55000				
18,5 25	3,7	380	1,10	45234	330000	MAM	1104 / 180 M 4a	207 212	1659
	4,1	338	1,25	40169	330000				
	4,6	302	1,36	35915	330000				
	5,2	271	1,55	32290	330000				
	5,8	242	1,70	28788	330000				
	6,5	216	1,90	25739	330000				
	7,2	194	2,10	23116	330000				
	8,0	174	2,40	20784	330000				
	8,9	158	2,60	18773	330000				
	9,8	143	2,90	17021	330000				
	11	129	3,20	15375	330000				
	4,4	314	0,95	37388	270000	MAM	1004 / 180 M 4a	189 194	1295
	4,8	292	1,01	34794	270000				
	5,4	258	1,13	30662	270000				
	5,7	245	1,19	29197	270000				
	6,5	216	1,37	25731	270000				
	7,8	179	1,66	21277	270000				
	8,8	159	1,87	18888	270000				
	9,6	145	1,99	17324	270000				
	11	129	2,20	15379	270000				
	13	108	2,70	12905	270000				
	12	115	2,80	13915	270000	MAM	1003 / 180 M 4a	183 188	1316
	14	101	3,20	12263	270000				
	15	94,62	3,40	11411	270000				
	17	83,39	3,90	10057	270000				
	5,8	239	0,97	28478	170000	MAM	904 / 180 M 4a	171 176	1095
	6,6	211	1,10	25097	170000				
	7,0	198	1,19	23591	170000				
	8,4	167	1,43	19840	170000				
	9,5	147	1,62	17501	170000				



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
18,5 25	11	130	1,82	15537	170000	MAM	904 / 180 M 4a	171 176	1095
	12	116	2,00	13803	170000				
	14	103	2,30	12253	170000				
	15	92,07	2,60	10938	170000				
	16	85,88	2,70	10203	170000				
	16	89,63	2,70	10810	170000	MAM	903 / 180 M 4a	165 170	1116
	17	81,33	3,00	9809	170000				
	20	70,93	3,40	8555	170000				
	22	62,51	3,90	7539	170000				
	24	59,06	3,90	7123	170000				
	7,6	183	1,10	21797	235000	MAM	804 / 180 M 4a	153 158	908
	8,8	158	1,22	18845	235000				
	9,7	144	1,36	17107	235000				
	11	125	1,55	14863	235000				
	12	113	1,72	13492	235000				
	13	104	1,95	12583	235000	MAM	803 / 180 M 4a	147 152	917
	15	93,04	2,20	11222	235000				
	17	83,56	2,40	10078	235000				
	19	75,48	2,70	9104	235000				
	20	68,52	3,00	8264	235000				
	22	63,45	3,20	7653	235000	MAM	704 / 180 M 4a	135 140	822
	25	55,72	3,60	6720	235000				
	12	113	1,45	13491	180000				
	14	102	1,60	12130	180000				
	15	94,40	1,70	11215	180000				
	16	84,88	1,86	10083	180000	MAM	703 / 180 M 4a	129 134	831
	17	82,13	1,95	9905	180000				
	19	73,24	2,20	8833	180000				
	21	65,78	2,30	7933	180000				
	24	59,42	2,60	7166	180000				
	26	52,86	3,20	6375	180000	MAM	603 / 180 M 4a	117 122	638
	29	47,75	3,60	5759	180000				
	33	42,97	3,80	5183	180000				
	36	38,82	4,00	4682	180000				
	18	78,14	1,21	9424	100000				
	21	67,89	1,41	8188	100000	MAM	503 / 180 M 4a	105 110	630
	23	59,59	1,62	7187	100000				
	25	56,88	2,00	6860	100000				
	32	44,14	2,60	5324	100000				
	36	38,40	2,80	4632	100000				
	42	33,71	3,20	4066	100000	MAM	503 / 180 M 4a	105 110	630
	46	30,49	3,50	3678	100000				
	52	26,76	4,10	3228	100000				
	55	25,38	4,40	3061	100000				
	20	70,72	1,29	8529	85000				
	22	62,58	1,46	7548	85000	MAM	503 / 180 M 4a	105 110	630
	25	55,74	1,62	6723	85000				
	26	53,35	1,62	6434	85000				
	30	46,83	1,86	5648	85000				
	34	41,44	2,10	4998	85000				
	38	36,91	2,40	4452	85000	MAM	503 / 180 M 4a	105 110	630
	43	32,46	2,70	3915	85000				
	49	28,63	3,00	3454	85000				
	55	25,59	3,40	3086	85000				
	62	22,57	3,90	2723	85000				



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
18,5 25	32	44,06	1,28	5314	55000	MAM	403 / 180 M 4a	93 98	485
	36	39,29	1,43	4739	55000				
	40	35,29	1,60	4256	55000				
	44	31,88	1,75	3845	55000				
	48	28,93	1,93	3490	55000				
	55	25,33	2,00	3056	55000				
	62	22,75	2,20	2744	55000	MAM	402 / 180 M 4a	87 92	491
	67	20,97	2,20	2569	55000				
	75	18,54	2,50	2271	55000				
	85	16,54	2,80	2025	55000				
	94	14,85	3,10	1819	55000				
	104	13,42	3,50	1643	55000				
	110	12,69	3,60	1554	55000				
	123	11,40	3,90	1396	55000				
22 30	4,6	302	1,15	42709	330000	MAM	1104 / 180 L 4a	207 212	1680
	5,2	271	1,30	38399	330000				
	5,8	242	1,43	34235	330000				
	6,5	216	1,60	30608	330000				
	7,2	194	1,80	27489	330000				
	8,0	174	2,00	24716	330000				
	8,9	158	2,20	22325	330000				
	9,8	143	2,40	20241	330000				
	11	129	2,70	18284	330000				
	15	96,12	3,40	13579	330000				
	5,4	258	0,95	36463	270000	MAM	1004 / 180 L 4a	189 194	1316
	5,7	245	1,00	34721	270000				
	6,5	216	1,15	30598	270000				
	7,8	179	1,40	25302	270000				
	8,8	159	1,58	22462	270000				
	9,6	145	1,68	20602	270000				
	11	129	1,88	18289	270000				
	13	108	2,20	15347	270000				
	12	115	2,30	16548	270000				
	14	101	2,70	14583	270000				
	15	94,62	2,90	13570	270000	MAM	1003 / 180 L 4a	183 188	1337
	17	83,39	3,30	11960	270000				
	18	79,4	3,40	11387	270000				
	20	69,97	3,90	10035	270000				
	7,0	198	1,00	28055	170000				
	8,4	167	1,20	23594	170000				
	9,5	147	1,36	20812	170000	MAM	904 / 180 L 4a	171 176	1116
	11	130	1,53	18477	170000				
	12	116	1,74	16414	170000				
	14	103	1,94	14571	170000				
	15	92,07	2,20	13007	170000				
	16	85,88	2,30	12133	170000				
	16	89,63	2,20	12855	170000				
	17	81,33	2,50	11665	170000				
	20	70,93	2,80	10173	170000				
	22	62,51	3,30	8965	170000				
	24	59,06	3,30	8471	170000	MAM	903 / 180 L 4a	165 170	1137
	27	52,05	3,80	7465	170000				
	9,7	144	1,15	20343	235000				
	11	125	1,30	17675	235000				
	12	113	1,45	16044	260000				



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
22 30	13	104	1,64	14964	235000	MAM	803 / 180 L 4a	147 152	938
	15	93,04	1,84	13345	235000				
	17	83,56	2,00	11985	235000				
	19	75,48	2,30	10826	235000				
	20	68,52	2,50	9828	235000				
	22	63,45	2,70	9100	235000				
	25	55,72	3,10	7992	235000				
	29	48,17	3,40	6909	235000				
	32	43,26	3,80	6205	235000				
	17	82,13	1,64	11779	180000	MAM	703 / 180 L 4a	129 134	852
	19	73,24	1,88	10505	180000				
	21	65,78	1,95	9434	180000				
	24	59,42	2,20	8522	180000				
	26	52,86	2,70	7582	180000				
	29	47,75	3,00	6849	180000				
	33	42,97	3,20	6164	180000				
	36	38,82	3,40	5568	180000				
	41	34,47	3,70	4944	180000	MAM	603 / 180 L 4a	117 122	659
	45	31,29	4,00	4488	180000				
	21	67,89	1,19	9737	100000				
	23	59,59	1,36	8546	100000				
	25	56,88	1,70	8158	100000				
	32	44,14	2,20	6331	100000				
	36	38,40	2,40	5508	100000				
	42	33,71	2,70	4835	100000				
	46	30,49	3,00	4374	100000	MAM	503 / 180 L 4a	105 110	651
	52	26,76	3,40	3839	100000				
	55	25,38	3,70	3640	100000				
	62	22,61	3,90	3243	100000				
	22	62,58	1,23	8976	85000				
	25	55,74	1,36	7995	85000				
	26	53,35	1,36	7652	85000				
	30	46,83	1,56	6716	85000				
	34	41,44	1,77	5944	85000	MAM	502 / 180 L 4a	99 104	665
	38	36,91	2,00	5294	85000				
	43	32,46	2,30	4656	85000				
	49	28,63	2,50	4107	85000				
	55	25,59	2,90	3670	85000				
	62	22,57	3,30	3238	85000				
	61	22,84	3,30	3327	85000	MAM	403 / 180 L 4a	93 98	506
	70	19,92	3,80	2901	85000				
	80	17,55	4,30	2557	85000				
	36	39,29	1,20	5636	55000				
	40	35,29	1,35	5061	55000				
	44	31,88	1,48	4572	55000				
	48	28,93	1,63	4150	55000				
	55	25,33	1,70	3634	55000	MAM	402 / 180 L 4a	87 92	512
	62	22,75	1,88	3263	55000				
	67	20,97	1,85	3054	55000				
	75	18,54	2,10	2701	55000				
	85	16,54	2,30	2409	55000				
	94	14,85	2,60	2163	55000				
	104	13,42	2,90	1954	55000				
	110	12,69	3,00	1848	55000				
	123	11,40	3,30	1660	55000				
	136	10,29	3,70	1500	55000				
	150	9,349	4,10	1361	55000				



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
30 40	5,8	242	1,05	46684	330000	MAM	1104 / 200 L 4a	207 212	1741
	6,5	216	1,17	41739	330000				
	7,2	194	1,32	37485	330000				
	8,0	174	1,48	33704	330000				
	8,9	158	1,62	30443	330000				
	9,8	143	1,80	27601	330000				
	11	129	2,00	24933	330000				
	15	96,12	2,50	18516	330000	MAM	1103 / 200 L 4a	201 206	1780
	15	92,98	2,70	18184	330000				
	17	82,57	3,10	16148	330000				
	19	73,82	3,50	14437	330000				
	21	66,37	3,90	12980	330000				
	7,8	179	1,03	34503	270000	MAM	1004 / 200 L 4a	189 194	1377
	8,8	159	1,16	30629	270000				
	9,6	145	1,23	28094	270000				
	11	129	1,37	24939	270000				
	13	108	1,65	20928	270000				
	12	115	1,73	22565	270000	MAM	1003 / 200 L 4a	183 188	1404
	14	101	1,97	19886	270000				
	15	94,62	2,10	18505	270000				
	17	83,39	2,40	16309	270000				
	18	79,4	2,50	15528	270000				
	20	69,97	2,80	13684	270000				
	24	57,86	3,40	11316	270000				
	27	51,36	3,90	10045	270000	MAM	904 / 200 L 4a	171 176	1177
	9,5	147	1,00	28380	170000				
	11	130	1,12	25195	170000				
	12	116	1,28	22383	170000				
	14	103	1,42	19870	170000				
	15	92,07	1,60	17737	170000				
	16	85,88	1,67	16545	170000				
	16	89,63	1,66	17530	170000	MAM	903 / 200 L 4a	165 170	1204
	17	81,33	1,83	15907	170000				
	20	70,93	2,10	13872	170000				
	22	62,51	2,40	12225	170000				
	24	59,06	2,40	11551	170000				
	27	52,05	2,80	10180	170000				
	28	49,17	3,00	9617	170000				
	34	41,14	3,60	8047	170000	MAM	803 / 200 L 4a	147 152	999
	13	104	1,20	20405	235000				
	15	93,04	1,35	18197	235000				
	17	83,56	1,50	16343	235000				
	19	75,48	1,65	14763	235000				
	20	68,52	1,85	13402	235000				
	22	63,45	2,00	12410	235000				
	25	55,72	2,30	10898	235000				
	29	48,17	2,50	9422	235000				
	32	43,26	2,80	8462	235000				
	36	39,08	3,10	7644	235000				
	41	34,12	3,50	6674	235000				
	17	82,13	1,20	16062	180000	MAM	703 / 200 L 4a	129 134	913
	19	73,24	1,38	14324	180000				
	21	65,78	1,43	12865	180000				
	24	59,42	1,61	11621	180000				
	26	52,86	2,00	10338	180000				
	29	47,75	2,20	9339	180000				
	33	42,97	2,40	8405	180000				



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
30 40	36	38,82	2,50	7592	180000	MAM	703 / 200 L 4a	129 134	913
	41	34,47	2,70	6742	180000				
	45	31,29	3,00	6120	180000				
	50	27,98	3,20	5472	180000				
	56	25,15	3,40	4920	180000				
	60	23,26	3,60	4549	180000				
	67	20,91	3,70	4090	180000	MAM	603 / 200 L 4a	117 122	720
	23	59,59	1,00	11654	100000				
	25	56,88	1,25	11125	100000				
	32	44,14	1,61	8634	100000				
	36	38,40	1,76	7512	100000				
	42	33,71	2,00	6593	100000				
	46	30,49	2,20	5964	100000				
	52	26,76	2,50	5235	100000				
	55	25,38	2,70	4964	100000				
	62	22,61	2,90	4422	100000				
	70	20,01	3,30	3914	100000	MAM	503 / 200 L 4a	105 110	712
	79	17,82	3,70	3486	100000				
	30	46,83	1,15	9159	85000				
	34	41,44	1,30	8105	85000				
	38	36,91	1,50	7220	85000				
	43	32,46	1,70	6349	85000				
	49	28,63	1,90	5601	85000	MAM	502 / 200 L 4a	99 104	726
	55	25,59	2,10	5005	85000				
	62	22,57	2,40	4415	85000				
	61	22,84	2,40	4536	85000				
	70	19,92	2,80	3956	85000				
	80	17,55	3,20	3486	85000				
	93	15,12	3,60	3004	85000	MAM	403 / 200 L 4a	93 98	567
	105	13,33	4,00	2647	85000				
	48	28,93	1,20	5660	55000	MAM	402 / 200 L 4a	87 92	573
	67	20,97	1,35	4165	55000				
	75	18,54	1,54	3683	55000				
	85	16,54	1,72	3284	55000				
	94	14,85	1,91	2950	55000				
	104	13,42	2,10	2665	55000				
	110	12,69	2,20	2521	55000				
	123	11,40	2,40	2264	55000				
	136	10,29	2,70	2045	55000				
	150	9,349	3,00	1856	55000				
	172	8,139	3,20	1616	55000				
	190	7,352	3,50	1460	55000				
	210	6,674	3,90	1325	55000	MAM	1104 / 225 S 4a	207 212	1828
37 50	7,2	194	1,07	46232	330000				
	8,0	174	1,19	41568	330000				
	8,9	158	1,31	37546	330000				
	9,8	143	1,46	34041	330000				
	11	129	1,62	30751	330000				
	15	96,12	2,00	22837	330000				
	15	92,98	2,20	22427	330000				
	17	82,57	2,50	19916	330000				
	19	73,82	2,80	17806	330000				
	21	66,37	3,20	16009	330000				
	24	59,32	3,50	14308	330000				
	26	53,34	3,90	12866	330000				
	9,6	145	0,99	34649	270000				
	11	129	1,11	30758	270000	MAM	1004 / 225 S 4a	189 194	1468
	13	108	1,34	25811	270000				



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
37 50	12	115	1,40	27830	270000	MAM	1003 / 225 S 4a	183 188	1490
	14	101	1,60	24526	270000				
	15	94,62	1,70	22823	270000				
	17	83,39	1,95	20114	270000				
	18	79,4	2,10	19152	270000				
	20	69,97	2,30	16877	270000				
	24	57,86	2,80	13956	270000				
	27	51,36	3,20	12388	270000				
	30	47,11	3,30	11363	270000				
	33	41,82	3,70	10087	270000				
	12	116	1,03	27605	170000	MAM	904 / 225 S 4a	171 176	1268
	14	103	1,15	24506	170000				
	15	92,07	1,29	21876	170000				
	16	85,88	1,35	20406	170000				
	16	89,63	1,35	21620	170000	MAM	903 / 225 S 4a	165 170	1290
	17	81,33	1,48	19619	170000				
	20	70,93	1,70	17109	170000				
	22	62,51	1,95	15078	170000				
	24	59,06	1,95	14247	170000				
	27	52,05	2,30	12555	170000				
	28	49,17	2,40	11861	170000				
	34	41,14	2,90	9925	170000				
	39	36,29	3,30	8755	170000				
	43	32,22	3,70	7772	170000				
	15	93,04	1,09	22443	235000	MAM	803 / 225 S 4a	147 152	1086
	17	83,56	1,22	20156	235000				
	19	75,48	1,35	18208	235000				
	20	68,52	1,50	16529	235000				
	22	63,45	1,62	15305	235000				
	25	55,72	1,82	13441	235000				
	29	48,17	2,00	11620	235000				
	32	43,26	2,30	10436	235000				
	36	39,08	2,50	9427	235000				
	41	34,12	2,90	8231	235000				
	45	30,82	3,20	7435	235000	MAM	802 / 225 S 4a	141 146	1099
	50	27,98	3,40	6749	235000				
	55	25,47	3,80	6239	235000				
	19	73,24	1,11	17667	180000	MAM	703 / 225 S 4a	129 134	1000
	21	65,78	1,16	15866	180000				
	24	59,42	1,31	14333	180000				
	26	52,86	1,62	12751	180000				
	29	47,75	1,78	11518	180000	MAM	703 / 225 S 4a	129 134	1000
	33	42,97	1,90	10366	180000				
	36	38,82	2,00	9364	180000				
	41	34,47	2,20	8316	180000				
	45	31,29	2,40	7549	180000				
	50	27,98	2,60	6749	180000				
	56	25,15	2,80	6068	180000				
	60	23,26	2,90	5610	180000				
	67	20,91	3,00	5044	180000				
	98	14,27	4,30	3444	180000				
	32	44,14	1,30	10648	100000	MAM	603 / 225 S 4a	117 122	811
	42	33,71	1,62	8132	100000				
	52	26,76	2,00	6456	100000				
	55	25,38	2,20	6122	100000				
	62	22,61	2,30	5454	100000				
	70	20,01	2,60	4827	100000				
	79	17,82	3,00	4300	100000				



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	87	16,11	3,60	3946	100000	MAM	602 / 225 S 4a	111 116	821
	98	14,31	4,00	3505	100000				
	38	36,91	1,21	8904	85000			MAM	
	43	32,46	1,37	7831	85000				
	49	28,63	1,54	6907	85000				
	55	25,59	1,74	6173	85000				
	62	22,57	1,98	5445	85000				
	61	22,84	2,00	5595	85000	MAM	502 / 225 S 4a	99 104	813
	70	19,92	2,30	4879	85000				
	80	17,55	2,60	4300	85000				
	93	15,12	2,90	3705	85000				
	105	13,33	3,20	3265	85000				
	115	12,18	3,70	2984	85000	MAM	402 / 225 S 4a	87 92	660
	133	10,48	4,10	2568	85000				
	75	18,54	1,25	4542	55000				
	85	16,54	1,40	4051	55000				
	94	14,85	1,55	3638	55000				
	104	13,42	1,75	3286	55000				
	110	12,69	1,80	3109	55000				
	123	11,40	1,96	2792	55000				
	136	10,29	2,20	2522	55000				
	150	9,349	2,40	2289	55000				
	172	8,139	2,60	1993	55000				
	190	7,352	2,80	1800	55000				
	210	6,674	3,10	1634	55000				
	232	6,028	3,40	1476	55000				
45 60	8,9	158	1,08	45664	330000	MAM	1104 / 225 M 4a	207 212	1858
	9,8	143	1,20	41402	330000				
	11	129	1,33	37400	330000				
	15	96,12	1,68	27775	330000				
	15	92,98	1,80	27276	330000	MAM	1103 / 225 M 4a	201 206	1897
	17	82,57	2,10	24222	330000				
	19	73,82	2,30	21656	330000				
	21	66,37	2,60	19470	330000				
	24	59,32	2,80	17402	330000				
	26	53,34	3,20	15648	330000				
	29	48,23	3,50	14149	330000				
	32	43,36	3,90	12720	330000				
	12	115	1,15	33848	270000	MAM	1003 / 225 M 4a	183 188	1520
	14	101	1,32	29829	270000				
	15	94,62	1,40	27757	270000				
	17	83,39	1,60	24463	270000				
	18	79,4	1,69	23293	270000				
	20	69,97	1,89	20526	270000				
	24	57,86	2,30	16974	270000				
	27	51,36	2,60	15067	270000				
	30	47,11	2,70	13820	270000				
	33	41,82	3,10	12268	270000				
	35	39,53	3,30	11596	270000				
	40	35,09	3,70	10294	270000				
	16	85,88	1,11	24818	170000	MAM	904 / 225 M 4a	171 176	1298
	16	89,63	1,10	26295	170000	MAM	903 / 225 M 4a	165 170	1320
	17	81,33	1,22	23861	170000				
	20	70,93	1,40	20809	170000				
	22	62,51	1,60	18338	170000				
	24	59,06	1,60	17327	170000				
	27	52,05	1,87	15270	170000				



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
45 60	28	49,17	2,00	14426	170000	MAM	903 / 225 M 4a	165 170	1320
	34	41,14	2,40	12071	170000				
	39	36,29	2,70	10648	170000				
	43	32,22	3,10	9452	170000				
	49	28,62	3,40	8398	170000				
	55	25,41	3,80	7455	170000				
	19	75,48	1,10	22145	235000	MAM	803 / 225 M 4a	147 152	1116
	20	68,52	1,23	20102	235000				
	22	63,45	1,33	18614	235000				
	25	55,72	1,50	16347	235000				
	29	48,17	1,64	14133	235000				
	32	43,26	1,84	12692	235000				
	36	39,08	2,10	11466	235000				
	41	34,12	2,30	10011	235000				
	45	30,82	2,60	9043	235000	MAM	802 / 225 M 4a	141 146	1129
	50	27,98	2,80	8209	235000				
	55	25,47	3,10	7588	235000	MAM	703 / 225 M 4a	129 134	1030
	67	20,80	3,70	6195	235000				
	24	59,42	1,08	17432	180000				
	26	52,86	1,33	15508	180000				
	29	47,75	1,47	14009	180000				
	33	42,97	1,56	12607	180000				
	36	38,82	1,67	11389	180000				
	41	34,47	1,80	10113	180000				
	45	31,29	1,96	9181	180000				
	50	27,98	2,20	8208	180000				
	56	25,15	2,30	7380	180000	MAM	702 / 225 M 4a	123 128	1043
	60	23,26	2,40	6823	180000				
	67	20,91	2,50	6135	180000				
	98	14,27	3,50	4189	180000				
	70	20,05	3,50	5973	180000	MAM	603 / 225 M 4a	117 122	841
	79	17,80	4,00	5304	180000				
	32	44,14	1,07	12951	100000				
	42	33,71	1,33	9890	100000				
	52	26,76	1,70	7852	100000				
	55	25,38	1,83	7446	100000				
	62	22,61	1,93	6634	100000	MAM	602 / 225 M 4a	111 116	851
	70	20,01	2,20	5870	100000				
	79	17,82	2,50	5229	100000				
	87	16,11	2,90	4800	100000				
	98	14,31	3,30	4262	100000	MAM	503 / 225 M 4a	105 110	833
	109	12,79	3,70	3811	100000				
	120	11,63	3,90	3465	100000				
	129	10,89	4,10	3244	100000				
	49	28,63	1,26	8401	85000	MAM	502 / 225 M 4a	99 104	843
	55	25,59	1,43	7508	85000				
	62	22,57	1,63	6623	85000				
	61	22,84	1,65	6805	85000				
	70	19,92	1,88	5934	85000	MAM	502 / 225 M 4a	99 104	843
	80	17,55	2,10	5229	85000				
	93	15,12	2,40	4506	85000				
	105	13,33	2,60	3971	85000				
	115	12,18	3,00	3629	85000				
	133	10,48	3,40	3124	85000				
	151	9,252	3,90	2755	85000				



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
45 60	94	14,85	1,27	4424	55000	MAM	402 / 225 M 4a	87 92	690
	104	13,42	1,44	3997	55000				
	110	12,69	1,48	3781	55000				
	123	11,40	1,61	3395	55000				
	136	10,29	1,81	3067	55000				
	150	9,349	2,00	2784	55000				
	172	8,139	2,10	2424	55000				
	190	7,352	2,30	2190	55000				
	210	6,674	2,60	1988	55000				
	232	6,028	2,80	1795	55000				
55 75	11	129	1,09	45711	330000	MAM	1104 / 250 M 4a	207 212	1942
	15	96,12	1,37	33947	330000	MAM	1103 / 250 M 4a	201 206	1984
	15	92,98	1,47	33338	330000				
	17	82,57	1,70	29605	330000				
	19	73,82	1,91	26468	330000				
	21	66,37	2,10	23797	330000				
	24	59,32	2,30	21269	330000				
	26	53,34	2,60	19125	330000				
	29	48,23	2,90	17293	330000				
	32	43,36	3,20	15547	330000				
	36	39,16	3,60	14041	330000				
	39	35,51	3,90	12732	330000				
	14	101	1,07	36457	270000	MAM	1003 / 250 M 4a	183 188	1599
	15	94,62	1,14	33926	270000				
	17	83,39	1,31	29899	270000				
	18	79,4	1,38	28469	270000				
	20	69,97	1,55	25088	270000				
	24	57,86	1,88	20746	270000				
	27	51,36	2,10	18415	270000				
	30	47,11	2,20	16891	270000				
	33	41,82	2,50	14994	270000				
	35	39,53	2,70	14173	270000				
	40	35,09	3,00	12581	270000	MAM	1003 / 250 M 4a	183 188	1599
	48	29,22	3,50	10477	270000	MAM	903 / 250 M 4a	165 170	1399
	54	26,07	3,90	9347	270000				
	20	70,93	1,15	25433	170000				
	22	62,51	1,31	22413	170000				
	24	59,06	1,31	21177	170000				
	27	52,05	1,53	18663	170000				
	28	49,17	1,64	17631	170000				
	34	41,14	1,96	14754	170000				
	39	36,29	2,20	13014	170000				
	43	32,22	2,50	11553	170000				
	49	28,62	2,80	10264	170000	MAM	803 / 250 M 4a	147 152	1200
	55	25,41	3,20	9111	170000				
	62	22,68	3,50	8134	170000				
	66	21,16	3,70	7587	170000				
	22	63,45	1,09	22751	235000				
	25	55,72	1,23	19979	235000				
	29	48,17	1,35	17273	235000				
	32	43,26	1,51	15513	235000				
	36	39,08	1,68	14013	235000				
	41	34,12	1,92	12235	235000				
	45	30,82	2,10	11052	235000	MAM	803 / 250 M 4a	147 152	1200
	50	27,98	2,30	10033	235000				



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
55 75	55	25,47	2,50	9274	235000	MAM	802 / 250 M 4a	141 146	1213
	67	20,80	3,00	7572	235000				
	72	19,34	3,30	7042	235000				
	81	17,37	3,50	6324	235000				
	89	15,79	4,00	5749	235000				
	36	38,82	1,36	13920	180000	MAM	703 / 250 M 4a	129 134	1114
	41	34,47	1,47	12361	180000				
	45	31,29	1,61	11221	180000				
	50	27,98	1,77	10032	180000				
	56	25,15	1,85	9020	180000				
	60	23,26	1,96	8340	180000				
	67	20,91	2,00	7498	180000				
	98	14,27	2,90	5120	180000				
	70	20,05	2,90	7300	180000	MAM	702 / 250 M 4a	123 128	1127
	79	17,80	3,30	6483	180000				
	87	16,11	3,80	5866	180000	MAM	603 / 250 M 4a	117 122	925
	79	17,82	2,00	6391	1000000				
	87	16,11	2,40	5866	100000	MAM	602 / 250 M 4a	111 116	929
	98	14,31	2,70	5210	100000				
	109	12,79	3,00	4657	100000				
	120	11,63	3,20	4235	100000				
	129	10,89	3,30	3965	100000				
	135	10,40	3,60	3787	100000				
	145	9,672	3,80	3521	100000				
	152	9,201	3,90	3349	100000	MAM	503 / 250 M 4a	105 110	917
	55	25,59	1,17	9176	85000				
	62	22,57	1,33	8094	85000				
	61	22,84	1,35	8317	85000	MAM	502 / 250 M 4a	99 104	921
	70	19,92	1,54	7253	85000				
	80	17,55	1,75	6392	85000				
	93	15,12	1,97	5507	85000				
	105	13,33	2,20	4853	85000				
	115	12,18	2,50	4435	85000				
	133	10,48	2,80	3818	85000				
	151	9,252	3,20	3368	85000				
	169	8,272	3,50	3011	85000				
	192	7,297	3,90	2656	85000				
	110	12,69	1,21	4621	55000	MAM	402 / 250 M 4a	87 92	695
	123	11,40	1,32	4150	55000				
	136	10,29	1,48	3749	55000				
	150	9,349	1,64	3403	55000				
	172	8,139	1,75	2963	55000				
	190	7,352	1,91	2676	55000				
	210	6,674	2,10	2429	55000				
	232	6,028	2,30	2194	55000				
75 100	15	92,98	1,08	45461	330000	MAM	1103 / 280 S 4a	201 206	2164
	17	82,57	1,24	40371	330000				
	19	73,82	1,40	36093	330000				
	21	66,37	1,56	32450	330000				
	24	59,32	1,72	29003	330000				
	26	53,34	1,92	26079	330000				
	29	48,23	2,10	23581	330000				
	32	43,36	2,30	21200	330000				
	36	39,16	2,60	19146	330000				
	39	35,51	2,90	17362	330000				
	43	32,56	3,20	15920	330000				
	47	29,52	3,40	14433	330000				
	53	26,47	3,60	12942	330000				



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
75 100	20	69,97	1,13	34210	270000	MAM	1003 / 280 S 4a	183 188	1766
	24	57,86	1,38	28289	270000				
	27	51,36	1,56	25111	270000				
	30	47,11	1,64	23033	270000				
	33	41,82	1,84	20447	270000				
	35	39,53	1,96	19327	270000				
	40	35,09	2,20	17156	270000				
	48	29,22	2,60	14286	270000				
	54	26,07	2,90	12746	270000				
	27	52,05	1,12	25449	170000	MAM	903 / 280 S 4a	165 170	1566
	28	49,17	1,20	24043	170000				
	34	41,14	1,44	20118	170000				
	39	36,29	1,64	17746	170000				
	43	32,22	1,84	15754	170000				
	49	28,62	2,10	13997	170000				
	55	25,41	2,30	12425	170000				
	62	22,68	2,60	11091	170000				
	66	21,16	2,70	10346	170000				
	73	19,28	3,00	9574	170000	MAM	902 / 280 S 4a	159 164	1611
	80	17,50	3,40	8688	170000				
	87	16,06	3,60	7972	170000				
	32	43,26	1,11	21154	235000	MAM	803 / 280 S 4a	147 152	1367
	36	39,08	1,23	19109	235000				
	41	34,12	1,41	16684	235000				
	45	30,82	1,55	15071	235000				
	50	27,98	1,70	13681	235000	MAM	802 / 280 S 4a	141 146	1380
	55	25,47	1,88	12646	235000				
	67	20,80	2,20	10325	235000				
	72	19,34	2,40	9602	235000				
	81	17,37	2,60	8623	235000				
	89	15,79	2,90	7840	235000				
	106	13,19	3,40	6548	235000				
	112	12,45	3,70	6183	235000	MAM	703 / 280 S 4a	129 134	1281
	56	25,15	1,36	12300	180000				
	60	23,26	1,44	11372	180000				
	67	20,91	1,48	10224	180000				
	98	14,27	2,10	6981	180000	MAM	702 / 280 S 4a	123 128	1294
	70	20,05	2,10	9954	180000				
	79	17,80	2,40	8840	180000				
	87	16,11	2,80	8000	180000				
98	14,31	3,10	7104	180000					
107	13,10	3,30	6503	180000					
120	11,63	3,70	5775	180000					
135	10,40	4,20	5164	180000					
87	16,11	1,78	8000	100000	MAM	602 / 280 S 4a	111 116	1097	
98	14,31	2,00	7104	100000					
109	12,79	2,20	6351	100000					
120	11,63	2,30	5775	100000					
129	10,89	2,40	5407	100000					
135	10,40	2,70	5164	100000					
145	9,672	2,80	4801	100000					
152	9,201	2,90	4567	100000					
162	8,648	3,10	4293	100000					
171	8,171	3,20	4056	100000					
192	7,305	3,60	3626	100000					
260	5,388	4,80	2674	100000					



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
75 100	80	17,55	1,28	8716	90000	MAM	502 / 280 S 4a	99 104	1089
	93	15,12	1,44	7510	85000				
	105	13,33	1,61	6618	85000				
	115	12,18	1,83	6048	85000				
	133	10,48	2,00	5206	85000				
	151	9,252	2,30	4592	85000				
	169	8,272	2,60	4106	85000				
	192	7,297	2,90	3622	85000				
	216	6,477	3,20	3215	85000				
	150	9,349	1,20	4641	55000	MAM	402 / 280 S 4a	87 92	855
	172	8,139	1,28	4040	55000				
	190	7,352	1,40	3649	55000				
	210	6,674	1,56	3313	55000				
	232	6,028	1,68	2992	55000				
90 120	17	82,57	1,03	48445	330000	MAM	1103 / 280 M 4a	201 206	2224
	19	73,82	1,16	43311	330000				
	21	66,37	1,30	38940	330000				
	24	59,32	1,43	34804	330000				
	26	53,34	1,60	31295	330000				
	29	48,23	1,76	28297	330000				
	32	43,36	1,97	25440	330000				
	36	39,16	2,20	22976	330000				
	39	35,51	2,40	20834	330000				
	43	32,56	2,60	19103	330000				
	47	29,52	2,90	17320	330000				
	53	26,47	3,00	15530	330000				
	58	24	3,30	14081	330000				
	63	22,36	3,60	13119	330000				
	69	20,27	4,00	11893	330000				
	65	21,49	4,00	12800	330000	MAM	1102 / 280 M 4a	195 200	2244
	24	57,86	1,15	33947	270000	MAM	1003 / 280 M 4a	183 188	1826
	27	51,36	1,30	30134	270000				
	30	47,11	1,36	27640	270000				
	33	41,82	1,53	24536	270000				
	35	39,53	1,63	23193	270000				
	40	35,09	1,83	20588	270000				
	48	29,22	2,20	17144	270000				
	54	26,07	2,40	15296	270000				
	49	28,47	2,30	16958	270000	MAM	1002 / 280 M 4a	177 182	1871
	60	23,34	2,80	13902	270000				
	71	19,59	3,40	11669	270000				
	84	16,72	3,90	9959	270000				
	34	41,14	1,20	24142	170000	MAM	903 / 280 M 4a	165 170	1626
	39	36,29	1,37	21295	170000				
	43	32,22	1,53	18905	170000				
	49	28,62	1,73	16796	170000				
	55	25,41	1,93	14910	170000				
	62	22,68	2,20	13310	170000				
	66	21,16	2,20	12415	170000				
	73	19,28	2,50	11489	170000				
	80	17,50	2,80	10425	170000	MAM	902 / 280 M 4a	159 164	1671
	87	16,06	3,00	9567	170000				
	96	14,64	3,30	8724	170000				
	115	12,19	3,90	7264	170000				
	41	34,12	1,17	20021	235000	MAM	803 / 280 M 4a	147 152	1427
	45	30,82	1,30	18085	235000				
	50	27,98	1,42	16417	235000				



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
90 120	55	25,47	1,56	15175	235000	MAM	802 / 280 M 4a	141 146	1440
	67	20,80	1,86	12390	235000				
	72	19,34	2,00	11523	235000				
	81	17,37	2,20	10348	235000				
	89	15,79	2,50	9408	235000				
	106	13,19	2,90	7857	235000				
	112	12,45	3,10	7420	235000				
	135	10,40	3,60	6197	235000				
	139	10,07	3,90	6000	235000				
	98	14,27	1,77	8378	180000	MAM	703 / 280 M 4a	129 134	1341
	70	20,05	1,78	11945	180000	MAM	702 / 280 M 4a	123 128	1354
	79	17,80	2,00	10608	180000				
	87	16,11	2,30	9599	180000				
	98	14,31	2,60	8525	180000				
	107	13,10	2,70	7804	180000				
	120	11,63	3,10	6930	180000				
	135	10,40	3,50	6197	180000				
	150	9,353	3,80	5571	180000				
	162	8,648	4,00	5151	180000				
	87	16,11	1,48	9599	100000	MAM	602 / 280 M 4a	111 116	1157
	98	14,31	1,66	8525	100000				
	109	12,79	1,86	7621	100000				
	120	11,63	1,97	6930	100000				
	129	10,89	2,00	6488	100000				
	135	10,40	2,20	6197	100000				
	145	9,672	2,30	5761	100000				
	152	9,201	2,40	5481	100000				
	162	8,648	2,60	5151	100000				
	171	8,171	2,70	4867	100000	MAM	502 / 280 M 4a	99 104	1149
	192	7,305	3,00	4351	100000				
	260	5,388	4,00	3209	100000				
	105	13,33	1,34	7942	85000				
	115	12,18	1,52	7257	85000				
	133	10,48	1,71	6247	85000				
	151	9,252	1,95	5511	85000				
	169	8,272	2,10	4927	85000				
	192	7,297	2,40	4346	85000				
	216	6,477	2,70	3858	85000	MAM	402 / 280 M 4a	87 92	915
	370	3,786	4,40	2255	85000				
	190	7,352	1,17	4379	55000				
110 150	210	6,674	1,30	3975	55000	MAM	1103 / 315 S 4a	201 206	2451
	232	6,028	1,40	3591	55000				
	21	66,37	1,06	47594	330000	MAM	1102 / 315 S 4a	195 200	2471
	24	59,32	1,17	42538	330000				
	26	53,34	1,31	38250	330000				
	29	48,23	1,44	34585	330000				
	32	43,36	1,61	31093	330000				
	36	39,16	1,80	28081	330000				
	39	35,51	1,96	25464	330000				
	43	32,56	2,20	23349	330000				
	47	29,52	2,40	21169	330000				
	53	26,47	2,50	18982	330000				
	58	24	2,70	17210	330000				
	63	22,36	3,00	16034	330000				
	69	20,27	3,30	14536	330000				
	65	21,49	3,20	15645	330000				
	80	17,47	4,00	12718	330000				



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
110 150	27	51,36	1,06	36830	270000	MAM	1003 / 315 S 4a	183 188	2062
	30	47,11	1,12	33782	270000				
	33	41,82	1,25	29989	270000				
	35	39,53	1,34	28347	270000				
	40	35,09	1,50	25163	270000				
	48	29,22	1,77	20954	270000				
	54	26,07	1,99	18695	270000	MAM	1002 / 315 S 4a	177 182	2097
	49	28,47	1,88	20727	270000				
	60	23,34	2,30	16992	270000				
	71	19,59	2,80	14262	270000				
	84	16,72	3,20	12172	270000				
	88	15,95	3,40	11612	270000				
	103	13,61	3,90	9908	270000	MAM	903 / 315 S 4a	165 170	1862
	39	36,29	1,12	26028	170000				
	43	32,22	1,25	23106	170000				
	49	28,62	1,42	20528	170000				
	55	25,41	1,58	18223	170000				
	62	22,68	1,78	16267	170000				
	66	21,16	1,84	15174	170000	MAM	902 / 315 S 4a	159 164	1897
	73	19,28	2,00	14042	170000				
	80	17,50	2,30	12742	170000				
	87	16,06	2,40	11693	170000				
	96	14,64	2,70	10663	170000				
	115	12,19	3,20	8878	170000				
	121	11,55	3,50	8409	170000	MAM	803 / 315 S 4a	147 152	1524
	50	27,98	1,16	20066	235000	MAM	802 / 315 S 4a	141 146	1676
	55	25,47	1,28	18548	235000				
	67	20,80	1,53	15143	235000				
	72	19,34	1,66	14083	235000				
	81	17,37	1,77	12647	235000				
	89	15,79	2,00	11498	235000				
	106	13,19	2,30	9603	235000				
	112	12,45	2,50	9069	235000				
	135	10,40	3,00	7574	235000				
	139	10,07	3,20	7333	235000				
	159	8,829	3,60	6428	235000	MAM	702 / 315 S 4a	123 128	1590
	180	7,784	4,10	5667	235000				
	79	17,80	1,65	12965	180000				
	87	16,11	1,90	11733	180000				
	98	14,31	2,10	10419	180000				
	107	13,10	2,20	9538	180000				
	120	11,63	2,50	8470	180000				
135	10,40	2,80	7574	180000					
150	9,353	3,10	6809	180000					
162	8,648	3,30	6296	180000					
180	7,775	3,60	5660	180000	MAM	602 / 315 S 4a	111 116	1256	
199	7,022	4,00	5112	180000					
220	6,367	4,20	4635	180000					
87	16,11	1,21	11733	100000					
98	14,31	1,36	10419	100000					
109	12,79	1,52	9315	100000					
120	11,63	1,61	8470	100000	MAM	602 / 315 S 4a	111 116	1256	
129	10,89	1,69	7930	100000					
135	10,40	1,81	7574	100000					



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
110 150	145	9,672	1,91	7041	100000	MAM	602 / 315 S 4a	111 116	1256
	152	9,201	1,95	6698	100000				
	162	8,648	2,10	6296	100000				
	171	8,171	2,20	5949	100000				
	192	7,305	2,50	5318	100000				
	260	5,388	3,30	3923	100000	MAM	502 / 315 S 4a	99 104	1248
	115	12,18	1,25	8870	85000				
	133	10,48	1,40	7635	85000				
	151	9,252	1,60	6736	85000				
	169	8,272	1,75	6022	85000				
	192	7,297	1,95	5312	85000				
	216	6,477	2,20	4715	85000				
	370	3,786	3,60	2756	85000				
132 175	26	53,34	1,09	45900	330000	MAM	1103 / 315 M 4a	201 206	2472
	29	48,23	1,20	41503	330000				
	32	43,36	1,34	37312	330000				
	36	39,16	1,50	33698	330000				
	39	35,51	1,64	30557	330000				
	43	32,56	1,80	28018	330000				
	47	29,52	1,96	25402	330000				
	53	26,47	2,10	22778	330000				
	58	24	2,30	20652	330000				
	63	22,36	2,50	19241	330000				
	69	20,27	2,70	17443	330000	MAM	1102 / 315 M 4a	195 200	2492
	65	21,49	2,70	18774	330000				
	80	17,47	3,30	15262	330000				
	96	14,52	4,00	12685	330000	MAM	1003 / 315 M 4a	183 188	2083
	33	41,82	1,05	35987	270000				
	35	39,53	1,11	34016	270000				
	40	35,09	1,25	30195	270000				
	48	29,22	1,48	25144	270000				
	54	26,07	1,66	22434	270000				
	49	28,47	1,56	24872	270000	MAM	1002 / 315 M 4a	177 182	2118
	60	23,34	1,91	20390	270000				
	71	19,59	2,30	17114	270000				
	84	16,72	2,70	14607	270000				
	88	15,95	2,80	13934	270000				
	103	13,61	3,20	11890	270000				
	124	11,33	3,70	9898	270000	MAM	903 / 315 M 4a	165 170	1883
	43	32,22	1,05	27727	170000				
	49	28,62	1,18	24634	170000				
	55	25,41	1,32	21867	170000				
	62	22,68	1,48	19521	170000				
	66	21,16	1,50	18208	170000				
	73	19,28	1,70	16850	170000	MAM	902 / 315 M 4a	159 164	1918
	80	17,50	1,93	15290	170000				
	87	16,06	2,00	14031	170000				
	96	14,64	2,30	12795	170000				
	115	12,19	2,70	10654	170000				
	121	11,55	2,90	10091	170000				
	146	9,618	3,30	8402	170000	MAM	802 / 315 M 4a	141 146	1697
	153	9,153	3,60	7996	170000				
	67	20,80	1,27	18172	235000				
	72	19,34	1,38	16900	235000				
	81	17,37	1,48	15176	235000				
	89	15,79	1,68	13798	235000				
	106	13,19	1,95	11524	235000				



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
132 175	112	12,45	2,10	10883	235000	MAM	802 / 315 M 4a	141 146	1697
	135	10,40	2,50	9088	235000				
	139	10,07	2,60	8800	235000				
	159	8,829	3,00	7713	235000				
	180	7,784	3,40	6800	235000				
	87	16,11	1,58	14079	180000	MAM	702 / 315 M 4a	123 128	1611
	98	14,31	1,78	12503	180000				
	107	13,10	1,89	11446	180000				
	120	11,63	2,10	10165	180000				
	135	10,40	2,30	9088	180000				
	150	9,353	2,60	8171	180000				
	162	8,648	2,80	7555	180000				
	180	7,775	3,00	6792	180000				
	199	7,022	3,33	6135	180000				
	220	6,367	3,50	5562	180000				
	242	5,791	3,80	5059	180000	MAM	602 / 315 M 4a	111 116	1277
	87	16,11	1,01	14079	100000				
	98	14,31	1,13	12503	100000				
	109	12,79	1,27	11178	100000				
	120	11,63	1,34	10165	100000				
	129	10,89	1,41	9515	100000				
	135	10,40	1,51	9088	100000				
	145	9,672	1,59	8450	100000				
	152	9,201	1,62	8038	100000				
	162	8,648	1,78	7555	100000				
	171	8,171	1,80	7138	100000				
	192	7,305	2,00	6382	100000				
	260	5,388	2,72	4707	100000				
	133	10,48	1,16	9163	85000	MAM	502 / 315 M 4a	99 104	1269
	151	9,252	1,33	8083	85000				
	169	8,272	1,46	7227	85000				
	192	7,297	1,63	6375	85000				
	216	6,477	1,83	5658	85000				
160 210	370	3,786	3,00	3308	85000	MAM	1103 / 315 M 4b	201 206	2520
	32	43,36	1,11	45227	330000				
	36	39,16	1,23	40846	330000				
	39	35,51	1,35	37039	330000				
	43	32,56	1,49	33962	330000				
	47	29,52	1,61	30791	330000				
	53	26,47	1,72	27609	330000				
	58	24	1,89	25033	330000				
	63	22,36	2,00	23323	330000				
	69	20,27	2,20	21143	330000				
	65	21,49	2,20	22756	330000	MAM	1102 / 315 M 4b	195 200	2540
	80	17,47	3,70	18500	330000				
	96	14,52	3,30	15376	330000				
	114	12,27	3,90	12993	330000				
	48	29,22	1,22	30478	270000	MAM	1003 / 315 M 4b	183 188	2131
	54	26,07	1,37	27192	270000				
	49	28,47	1,29	30148	270000	MAM	1002 / 315 M 4b	177 182	2166
	60	23,34	1,58	24715	270000				
	71	19,59	1,91	20744	270000				
	84	16,72	2,20	17705	270000				
	88	15,95	2,30	16890	270000				
	103	13,61	2,70	14412	270000				
	124	11,33	3,10	11998	270000				
	55	25,41	1,08	26506	170000				
	62	22,68	1,22	23662	170000	MAM	903 / 315 M 4b	165 170	1931
	66	21,16	1,26	22071	170000				



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
160 210	73	19,28	1,40	20425	170000	MAM	902 / 315 M 4b	159 164	1966
	80	17,50	1,59	18533	170000				
	87	16,06	1,68	17007	170000				
	96	14,64	1,87	15509	170000				
	115	12,19	2,20	12914	170000				
	121	11,55	2,40	12232	170000				
	146	9,618	2,70	10185	170000				
	153	9,153	3,00	9692	170000				
	175	8,016	3,40	8488	170000				
	184	7,622	3,50	8071	170000				
	198	7,061	3,90	7477	170000				
	81	17,37	1,22	18396	235000	MAM	802 / 315 M 4b	141 146	1745
	89	15,79	1,38	16725	235000				
	106	13,19	1,61	13968	235000				
	112	12,45	1,74	13191	235000				
	135	10,40	2,00	11016	235000				
	139	10,07	2,20	10667	235000				
	159	8,829	2,50	9349	235000				
	180	7,784	2,80	8243	235000	MAM	702 / 315 M 4b	123 128	1659
	98	14,31	1,46	15155	180000				
	120	11,63	1,75	12321	180000				
	135	10,40	1,96	11016	180000				
	150	9,353	2,10	9904	180000				
	162	8,648	2,20	9158	180000				
	180	7,775	2,50	8233	180000				
	199	7,022	2,70	7436	180000				
	220	6,367	2,80	6742	180000	MAM	602 / 315 M 4b	111 116	1325
	242	5,791	3,13	6132	180000				
	135	10,40	1,25	11016	100000				
	162	8,648	1,45	9158	100000				
	192	7,305	1,67	7735	100000	MAM	502 / 315 M 4b	99 104	1317
	260	5,388	2,25	5706	100000				
	216	6,477	1,51	6859	85000	MAM	502 / 315 M 4b	99 104	1317
	370	3,786	2,40	4009	85000				
185 250	39	35,51	1,16	42826	330000	MAM	1103 / 315 L 4a	201 206	2605
	43	32,56	1,29	39268	330000				
	47	29,52	1,40	35602	330000				
	53	26,47	1,49	31923	330000				
	58	24	1,63	28945	330000				
	63	22,36	1,75	26967	330000				
	69	20,27	1,93	24446	330000	MAM	1102 / 315 L 4a	195 200	2625
	65	21,49	1,95	26312	330000				
	80	17,47	2,30	21390	330000				
	96	14,52	2,80	17778	330000				
	114	12,27	3,30	15023	330000				
	137	10,24	3,90	12538	330000				
	140	9,97	3,90	12207	330000	MAM	1003 / 315 L 4a	183 188	2216
	48	29,22	1,05	35240	270000				
	54	26,07	1,18	31441	270000				
	49	28,47	1,12	34858	270000	MAM	1002 / 315 L 4a	177 182	2251
	60	23,34	1,36	28577	270000				
	71	19,59	1,65	23986	270000				
	84	16,72	1,90	20472	270000				
	88	15,95	2,00	19529	270000				
	103	13,61	2,30	16664	270000				
	124	11,33	2,70	13872	270000				
	143	9,8	3,00	11999	270000				
	164	8,555	3,30	10475	270000				



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
185 250	73	19,28	1,21	23616	170000	MAM	902 / 315 L 4a	159 164	2051
	80	17,50	1,38	21429	170000				
	87	16,06	1,46	19665	170000				
	96	14,64	1,62	17932	170000				
	115	12,19	1,90	14931	170000				
	121	11,55	2,10	14143	170000				
	146	9,618	2,40	11776	170000				
	153	9,153	2,60	11207	170000				
	175	8,016	2,90	9815	170000				
	184	7,622	3,00	9332	170000				
	198	7,061	3,30	8645	170000				
	210	6,675	3,50	8173	170000				
	238	5,88	3,90	7199	170000				
	89	15,79	1,20	19338	235000	MAM	802 / 315 L 4a	141 146	1830
	106	13,19	1,39	16151	235000				
	112	12,45	1,51	15252	235000				
	135	10,40	1,77	12737	235000				
	139	10,07	1,87	12333	235000				
	159	8,829	2,10	10810	235000				
	180	7,784	2,40	9531	235000	MAM	702 / 315 L 4a	123 128	1744
	135	10,40	1,71	12737	180000				
	150	9,353	1,88	11452	180000				
	162	8,648	1,97	10589	180000				
	180	7,775	2,10	9520	180000				
	199	7,022	2,30	8598	180000				
	220	6,367	2,50	7796	180000	MAM	1103 / 315 L 4b	201 206	2690
	242	5,791	2,71	7090	180000				
200 270	43	32,56	1,19	42452	330000				
	47	29,52	1,29	38488	330000				
	53	26,47	1,37	34512	330000				
	58	24	1,51	31291	330000				
	63	22,36	1,62	29153	330000				
	69	20,27	1,78	26428	330000				
	65	21,49	1,80	28446	330000				
	80	17,47	2,20	23124	330000				
	96	14,52	2,60	19220	330000				
	114	12,27	3,10	16241	330000				
	137	10,24	3,60	13554	330000				
	140	9,97	3,60	13197	330000				
	60	23,34	1,26	30894	270000				
	71	19,59	1,53	25931	270000				
	84	16,72	1,75	22132	270000				
	88	15,95	1,85	21112	270000				
	103	13,61	2,10	18015	270000				
	124	11,33	2,50	14997	270000				
	143	9,8	2,80	12972	270000				
	164	8,555	3,10	11324	270000				
	73	19,28	1,12	25531	170000				
	80	17,50	1,27	23167	170000				
	87	16,06	1,35	21259	170000				
	96	14,64	1,50	19386	170000				
	115	12,19	1,76	16142	170000				
	121	11,55	1,93	15290	170000				
	146	9,618	2,20	12731	170000				
	153	9,153	2,40	12115	170000				
	175	8,016	2,70	10610	170000				
	184	7,622	2,80	10089	170000				
	198	7,061	3,10	9346	170000				
	210	6,675	3,20	8835	170000				
	238	5,88	3,60	7783	170000				
	80	17,50	1,27	23167	170000	MAM	902 / 315 L 4b	159 164	2136
	87	16,06	1,35	21259	170000				
	96	14,64	1,50	19386	170000				
	115	12,19	1,76	16142	170000				
	121	11,55	1,93	15290	170000				
	146	9,618	2,20	12731	170000				
	153	9,153	2,40	12115	170000				
	175	8,016	2,70	10610	170000				
	184	7,622	2,80	10089	170000				
	198	7,061	3,10	9346	170000				
	210	6,675	3,20	8835	170000				
	238	5,88	3,60	7783	170000				



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
200 270	106	13,19	1,29	17460	235000	MAM	802 / 315 L 4b	141 146	1915
	112	12,45	1,39	16489	235000				
	135	10,40	1,64	13770	235000				
	139	10,07	1,73	13333	235000				
	159	8,829	1,98	11687	235000				
	180	7,784	2,20	10303	235000				
	150	9,353	1,74	12380	180000	MAM	702 / 315 L 4b	123 128	1829
	180	7,775	2,00	10291	180000				
	199	7,022	2,20	9295	180000				
	220	6,367	2,30	8428	180000				
242	5,791	2,50	7665	180000					
250 340	53	26,47	1,10	43140	330000	MA	1103 / 355 M 4a	177 182	2800
	58	24	1,21	39114	330000				
	63	22,36	1,30	36441	330000				
	69	20,27	1,43	33035	330000				
	65	21,49	1,44	35557	330000				
	80	17,47	1,76	28906	330000	MA	1102 / 355 M 4a	177 182	2800
	96	14,52	2,10	24025	330000				
	114	12,27	2,50	20302	330000				
	137	10,24	2,90	16943	330000				
	140	9,97	2,90	16496	330000				
	155	9,05	3,30	14974	330000				
	168	8,33	3,50	13783	330000				
	178	7,86	3,80	13005	330000				
	190	7,35	4,00	12161	330000				
	71	19,59	1,22	32413	270000	MA	1002 / 355 M 4a	177 182	2450
	84	16,72	1,40	27665	270000				
	88	15,95	1,48	26391	270000				
	103	13,61	1,72	22519	270000				
	124	11,33	1,98	18746	270000				
	143	9,8	2,20	16215	270000				
	164	8,555	2,50	14155	270000				
	96	14,64	1,20	24233	170000	MA	902 / 355 M 4a	159 164	2250
	115	12,19	1,40	20178	170000				
	121	11,55	1,54	19112	170000				
	146	9,618	1,76	15914	170000				
	153	9,153	1,90	15144	170000				
	175	8,016	2,20	13263	170000				
	184	7,622	2,20	12611	170000				
	198	7,061	2,50	11683	170000				
	210	6,675	2,60	11044	170000				
	238	5,88	2,90	9729	170000				
135	10,40	1,31	17213	235000	MA	802 / 355 M 4a	141 146	2063	
139	10,07	1,39	16667	235000					
159	8,829	1,58	14608	235000					
180	7,784	1,78	12879	235000					
242	5,791	2,00	9582	180000	MA	702 / 355 M 4a	123 128	1977	
315 430	65	21,49	1,14	44802	330000	MA	1102 / 355 M 4b	111 116	2838
	80	17,47	1,40	36421	330000				
	96	14,52	1,68	30271	330000				
	114	12,27	1,97	25580	330000				
	137	10,24	2,30	21348	330000				
	140	9,97	2,30	20785	330000				
	155	9,05	2,70	18867	330000				
	168	8,33	2,80	17366	330000				
	178	7,86	3,00	16386	330000				
	190	7,35	3,20	15323	330000				
	219	6,39	3,70	13322	330000				



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
315 430	84	16,72	1,11	34857	270000	MA	1002 / 355 M 4b	177 182	2488
	88	15,95	1,17	33252	270000				
	103	13,61	1,36	28374	270000				
	124	11,33	1,57	23620	270000				
	143	9,8	1,73	20431	270000				
	164	8,555	1,93	17835	270000				
	329	4,256	4,10	8873	270000	MA	902 / 355 M 4b	159 164	2288
	121	11,55	1,22	24081	170000				
	146	9,618	1,40	20051	170000				
	153	9,153	1,50	19082	170000				
	175	8,016	1,72	16712	170000				
	184	7,622	1,76	15890	170000				
	198	7,061	1,98	14721	170000	MA	802 / 355 M 4b	141 146	2101
	210	6,675	2,00	13916	170000				
	238	5,88	2,30	12258	170000	MA	702 / 355 M 4b	123 128	2015
	159	8,829	1,26	18406	235000				
	180	7,784	1,41	16228	235000				
	242	5,791	1,59	12073	180000				
355 485	96	14,52	1,50	34115	330000	MA	1102 / 355 M 4c	195 200	2890
	114	12,27	1,75	28828	330000				
	137	10,24	2,00	24059	330000				
	140	9,97	2,00	23425	330000				
	155	9,05	2,40	21263	330000				
	168	8,33	2,50	19571	330000				
	178	7,86	2,70	18467	330000				
	190	7,35	2,80	17269	330000				
	219	6,39	3,30	15013	330000	MA	1002 / 355 M 4c	177 182	2540
	251	5,57	3,80	13087	330000				
	103	13,61	1,21	31977	270000				
	124	11,33	1,39	26620	270000				
	143	9,8	1,53	23025	270000				
	164	8,555	1,74	20100	270000				
	329	4,256	3,60	9999	270000				
	153	9,153	1,33	21505	170000	MA	902 / 355 M 4c	159 164	2340
	175	8,016	1,52	18834	170000				
	184	7,622	1,56	17908	170000				
	198	7,061	1,76	16590	170000				
	210	6,675	1,80	15683	170000				
	238	5,88	2,00	13815	170000				
400 550	96	14,52	1,32	38439	330000	MA	1102 / 355 L 4a	195 200	3120
	114	12,27	1,55	32483	330000				
	137	10,24	1,84	27109	330000				
	140	9,97	1,84	26394	330000				
	155	9,05	2,10	23958	330000				
	168	8,33	2,20	22052	330000				
	178	7,86	2,40	20808	330000				
	190	7,35	2,50	19458	330000				
	219	6,39	2,90	16916	330000				
	251	5,57	3,30	14746	330000				
	124	11,33	1,24	29994	270000				
	143	9,8	1,36	25944	270000	MA	902 / 355 L 4a	159 164	2570
	164	8,555	1,53	22648	270000				
	329	4,256	3,20	11267	270000				
	175	8,016	1,35	21221	170000				
	184	7,622	1,38	20178	170000				
	198	7,061	1,56	18693	170000				
	210	6,675	1,60	17671	170000				
	238	5,88	1,80	15566	170000				



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
450 610	114	12,27	1,38	36543	330000	MA	1102 / 355 L 4b	195 200	3825
	137	10,24	1,63	30497	330000				
	140	9,97	1,63	29693	330000				
	155	9,05	1,88	26953	330000				
	168	8,33	1,95	24809	330000				
	178	7,86	2,10	23409	330000				
	190	7,35	2,30	21890	330000	MA	1002 / 355 L 4b	177 182	3475
	219	6,39	2,60	19031	330000				
	251	5,57	3,00	16589	330000				
	124	11,33	1,10	33744	270000				
	143	9,8	1,20	29187	270000				
	164	8,555	1,37	25479	270000				
	329	4,256	2,90	12675	270000	MA	902 / 355 L 4b	159 164	3275
	184	7,622	1,23	22700	170000				
	198	7,061	1,38	21029	170000				
	210	6,675	1,42	19880	170000				
	238	5,88	1,60	17512	170000				
	137	10,24	1,47	33886	330000	MA	1102 / 400 L 4b	195 200	3930
500 680	140	9,97	1,47	32992	330000				
	155	9,05	1,69	29948	330000				
	168	8,33	1,76	27565	330000				
	178	7,86	1,93	26010	330000				
	190	7,35	2,00	24322	330000				
	219	6,39	2,30	21146	330000				
	251	5,57	2,70	18432	330000	MA	1002 / 400 L 4b	177 182	3580
	143	9,8	1,08	32430	270000				
	164	8,555	1,23	28310	270000				
	329	4,256	2,60	14084	270000				
560 750	137	10,24	1,31	37952	330000	MA	1102 / 400 L 4c	195 200	4200
	140	9,97	1,31	36951	330000				
	155	9,05	1,51	33542	330000				
	168	8,33	1,57	30873	330000				
	178	7,86	1,72	29131	330000				
	190	7,35	1,81	27241	330000				
	219	6,39	2,10	23683	330000	MA	1002 / 400 L 4c	177 182	3850
	251	5,57	2,40	20644	330000				
	164	8,555	1,10	31707	270000				
	329	4,256	2,30	15774	270000				

MA Serisi Redüktörler Güç ve Devir Tabloları

MA Series - Performances Tables
Series MA - Table de performances



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ 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)	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
6100 Nm	11,0	16	85,15	6100	5000	55000	MA 403	93 98	250
	12,4	19	75,29	6100	5000	55000			
	13,9	21	67,14	6100	5000	55000			
	15,5	23	60,30	6100	5000	55000			
	17,2	26	54,47	6100	5000	55000			
	18,9	28	49,45	6100	5000	55000			
	21,2	32	44,06	6100	5000	55000			
	23,8	36	39,30	6100	5000	55000			
	26,5	40	35,29	6100	5000	55000			
	29,4	44	31,88	6100	5000	55000			
	32,3	48	28,94	6100	5000	55000			
	36,9	55	25,34	6100	5000	55000			
	41,1	62	22,76	6100	5000	55000			
	39,6	67	20,98	5500	5000	55000			
5500 Nm	44,8	75	18,55	5500	5000	55000	MA 402	87 92	250
	50,2	85	16,54	5500	5000	55000			
	55,9	94	14,86	5500	5000	55000			
	61,9	104	13,42	5500	5000	55000			
	65,5	110	12,70	5500	5000	55000			
	72,9	123	11,40	5500	5000	55000			
	80,7	136	10,30	5500	5000	55000			
	88,9	150	9,349	5500	5000	55000			
	102	172	8,139	5500	5000	55000			
	113	190	7,352	5500	5000	55000			
	125	210	6,674	5500	5000	55000			
	138	232	6,028	5500	5000	55000			
	15,3	14	103	10300	6000	85000	MA 503	105 110	387
	17,0	15	92,74	10300	6000	85000			
	19,6	17	80,57	10300	6000	85000			
	22,3	20	70,72	10300	6000	85000			
	25,2	22	62,58	10300	6000	85000			
	28,3	25	55,75	10300	6000	85000			
	29,6	26	53,35	10300	6000	85000			
	33,7	30	46,83	10300	6000	85000			
	38,1	34	41,44	10300	6000	85000			
	42,8	38	36,92	10300	6000	85000			
	48,7	43	32,47	10300	6000	85000			
	55,2	49	28,64	10300	6000	85000			
	61,7	55	25,59	10300	6000	85000			
	70,0	62	22,58	10300	6000	85000			
10200 Nm	67,5	61	22,85	10200	6000	85000	MA 502	99 104	387
	77,3	70	19,93	10200	6000	85000			
	87,8	80	17,56	10200	6000	85000			
	102	93	15,13	10200	6000	85000			
	116	105	13,33	10200	6000	85000			
	126	115	12,18	10200	6000	85000			
	147	133	10,49	10200	6000	85000			
	167	151	9,252	10200	6000	85000			
	186	169	8,272	10200	6000	85000			
	211	192	7,297	10200	6000	85000			
	238	216	6,477	10200	6000	85000			
	407	370	3,786	10200	6000	85000			
	20,5	16	89,20	11900	6000	100000	MA 603	117 122	395
	23,4	18	78,14	11900	6000	100000			
	26,9	21	67,89	11900	6000	100000			
	30,6	23	59,59	11900	6000	100000			
	32,1	25	56,88	11900	6000	100000			
	41,3	32	44,15	11900	6000	100000			
	47,5	36	38,41	11900	6000	100000			



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ 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)	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
11900 Nm	54,1	42	33,71	11900	6000	100000	MA 603	117 122	395
	59,9	46	30,50	11900	6000	100000			
	68,2	52	26,77	11900	6000	100000			
	71,9	55	25,38	11900	6000	100000			
	80,7	62	22,61	11900	6000	100000			
	91,2	70	20,01	11900	6000	100000			
	102	79	17,83	11900	6000	100000			
12900 Nm	121	87	16,12	12900	6000	100000	MA 602	111 116	395
	136	98	14,31	12900	6000	100000			
	152	109	12,80	12900	6000	100000			
	168	120	11,64	12900	6000	100000			
	179	129	10,89	12900	6000	100000			
	187	135	10,40	12900	6000	100000			
	202	145	9,672	12900	6000	100000			
	212	152	9,201	12900	6000	100000			
	225	162	8,648	12900	6000	100000			
	239	171	8,171	12900	6000	100000			
	267	192	7,305	12900	6000	100000			
	362	260	5,388	12900	6000	100000			
19300 Nm	9,0	4,20	333	19300	7000	180000	MA 704	135 140	577
	10,1	4,71	297	19300	7000	180000			
	11,3	5,24	267	19300	7000	180000			
	12,5	5,80	241	19300	7000	180000			
	14,0	6,52	215	19300	7000	180000			
	15,5	7,22	194	19300	7000	180000			
	17,2	8,03	174	19300	7000	180000			
	19,1	8,88	158	19300	7000	180000			
	21,5	10	140	19300	7000	180000			
	23,7	11	127	19300	7000	180000			
	26,5	12	114	19300	7000	180000			
	29,4	14	102	19300	7000	180000			
	31,8	15	94,41	19300	7000	180000			
	31,8	15	94,41	19300	7000	180000			
19000 Nm	35,5	17	82,13	19000	7000	180000	MA 703	129 134	577
	39,8	19	73,24	19000	7000	180000			
	44,3	21	65,78	19000	7000	180000			
	49,0	24	59,42	19000	7000	180000			
	55,1	26	52,86	19000	7000	180000			
	61,0	29	47,75	19000	7000	180000			
	67,8	33	42,98	19000	7000	180000			
	75,1	36	38,82	19000	7000	180000			
	84,5	41	34,48	19000	7000	180000			
	93,1	45	31,30	19000	7000	180000			
	104	50	27,98	19000	7000	180000			
	116	56	25,16	19000	7000	180000			
	125	60	23,26	19000	7000	180000			
	139	67	20,91	19000	7000	180000			
	204	98	14,28	19000	7000	180000			
19400 Nm	146	70	20,05	19400	7000	180000	MA 702	123 128	577
	165	79	17,81	19400	7000	180000			
	182	87	16,12	19400	7000	180000			
	205	98	14,31	19400	7000	180000			
	224	107	13,10	19400	7000	180000			
	252	120	11,64	19400	7000	180000			
	282	135	10,40	19400	7000	180000			



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ <i>Service facteur $S_f=1$</i>	P ₁ GÜÇ Power <i>Puissance</i> [kW]	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m] (n ₁ =1400rpm)	i Tahvil Ratio <i>Rapport de réduction</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q1} Rad. Yük Over Loads <i>Charges radiales</i> [N]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
19400 Nm	313	150	9,353	19400	7000	180000	MA	702	123 128	577
	339	162	8,648	19400	7000	180000				
	377	180	7,775	19400	7000	180000				
	417	199	7,022	19400	7000	180000				
	460	220	6,367	19400	7000	180000				
	506	242	5,791	19400	7000	180000				
24100 Nm	8,9	3,31	423	24100	7000	235000	MA	804	153 158	663
	9,9	3,71	378	24100	7000	235000				
	11,1	4,13	339	24100	7000	235000				
	12,2	4,57	306	24100	7000	235000				
	13,5	5,03	278	24100	7000	235000				
	14,6	5,44	258	24100	7000	235000				
	16,6	6,19	226	24100	7000	235000				
	18,5	6,89	203	24100	7000	235000				
	20,5	7,63	183	24100	7000	235000				
	23,7	8,83	159	24100	7000	235000				
	26,1	9,72	144	24100	7000	235000				
	30,0	11	125	24100	7000	235000				
	33,0	12	114	24100	7000	235000				
23500 Nm	34,6	13	104	23500	7000	235000	MA	803	147 152	663
	38,7	15	93,05	23500	7000	235000				
	43,1	17	83,57	23500	7000	235000				
	47,8	19	75,49	23500	7000	235000				
	52,6	20	68,53	23500	7000	235000				
	56,8	22	63,45	23500	7000	235000				
	64,7	25	55,72	23500	7000	235000				
	74,8	29	48,18	23500	7000	235000				
	83,3	32	43,27	23500	7000	235000				
	92,2	36	39,08	23500	7000	235000				
	106	41	34,12	23500	7000	235000				
	117	45	30,83	23500	7000	235000				
	129	50	27,98	23500	7000	235000				
22300 Nm	132	55	25,48	22300	7000	235000	MA	802	141 146	663
	162	67	20,80	22300	7000	235000				
	174	72	19,35	22300	7000	235000				
	194	81	17,37	22300	7000	235000				
	213	89	15,79	22300	7000	235000				
	255	106	13,19	22300	7000	235000				
	270	112	12,46	22300	7000	235000				
	324	135	10,40	22300	7000	235000				
	335	139	10,07	22300	7000	235000				
	382	159	8,829	22300	7000	235000				
	433	180	7,784	22300	7000	235000				
28750 Nm	12,3	3,85	364	28750	8000	170000	MA	904	171 176	850
	13,6	4,24	330	28750	8000	170000				
	15,6	4,86	288	28750	8000	170000				
	17,6	5,52	254	28750	8000	170000				
	18,7	5,84	240	28750	8000	170000				
	21,2	6,63	211	28750	8000	170000				
	22,5	7,05	199	28750	8000	170000				
	26,8	8,38	167	28750	8000	170000				
	30,4	9,50	147	28750	8000	170000				
	34,2	11	131	28750	8000	170000				
	38,5	12	116	28750	8000	170000				
	43,4	14	103	28750	8000	170000				
	48,6	15	92,08	28750	8000	170000				
	52,1	16	85,89	28750	8000	170000				



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ 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)	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
29930 Nm	51,2	16	89,63	29930	8000	170000	MA 903	165 170	850
	56,4	17	81,34	29930	8000	170000			
	64,7	20	70,93	29930	8000	170000			
	73,4	22	62,51	29930	8000	170000			
	77,7	24	59,06	29930	8000	170000			
	88,2	27	52,05	29930	8000	170000			
	93,4	28	49,17	29930	8000	170000			
	112	34	41,15	29930	8000	170000			
	126	39	36,30	29930	8000	170000			
	142	43	32,22	29930	8000	170000			
	160	49	28,63	29930	8000	170000			
	181	55	25,41	29930	8000	170000			
	202	62	22,69	29930	8000	170000			
	217	66	21,16	29930	8000	170000			
29850 Nm	234	73	19,29	29850	8000	170000	MA 902	159 164	850
	258	80	17,50	29850	8000	170000			
	281	87	16,06	29850	8000	170000			
	308	96	14,65	29850	8000	170000			
	370	115	12,20	29850	8000	170000			
	390	121	11,55	29850	8000	170000			
	469	146	9,618	29850	8000	170000			
	493	153	9,153	29850	8000	170000			
	563	175	8,016	29850	8000	170000			
	592	184	7,622	29850	8000	170000			
	639	198	7,061	29850	8000	170000			
	676	210	6,675	29850	8000	170000			
	767	238	5,880	29850	8000	170000			
	1098	341	4,109	29850	8000	170000			
36000 Nm	15,7	3,92	357	36000	8000	270000	MA 1004	189 194	1050
	17,8	4,45	315	36000	8000	270000			
	19,1	4,78	293	36000	8000	270000			
	21,7	5,42	258	36000	8000	270000			
	22,8	5,70	246	36000	8000	270000			
	25,9	6,46	217	36000	8000	270000			
	31,3	7,82	179	36000	8000	270000			
	35,3	8,81	159	36000	8000	270000			
	38,4	9,60	146	36000	8000	270000			
	43,3	11	129	36000	8000	270000			
	51,6	13	109	36000	8000	270000			
	47,2	12	115	35500	8000	270000	MA 1003	183 188	1050
35500 Nm	53,6	14	102	35500	8000	270000			
	57,6	15	94,62	35500	8000	270000			
	65,3	17	83,39	35500	8000	270000			
	68,6	18	79,40	35500	8000	270000			
	77,8	20	69,97	35500	8000	270000			
	94,1	24	57,86	35500	8000	270000			
	106	27	51,36	35500	8000	270000			
	116	30	47,11	35500	8000	270000			
	130	33	41,82	35500	8000	270000			
	138	35	39,53	35500	8000	270000			
	155	40	35,09	35500	8000	270000			
	186	48	29,22	35500	8000	270000			
	209	54	26,07	35500	8000	270000			
	183	49	28,47	34500	8000	270000	MA 1002	177 182	1050
34500 Nm	223	60	23,34	34500	8000	270000			
	266	71	19,59	34500	8000	270000			
	312	84	16,72	34500	8000	270000			
	327	88	15,95	34500	8000	270000			



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ <i>Service facteur $S_f=1$</i>	P ₁	n ₂	i	M ₂	F _{Q1}	F _{Q10}	Tip Type <i>Types</i>							
	GÜÇ	Çıkış Devri	Tahvil	Çıkış Momenti	Rad. Yük	Rad. Yük								
	Power	Output Speeds	Ratio	Output Torque	Over Loads	Over Loads								
	<i>Puissance</i>	<i>Vitesse de sortie</i>	<i>Rapport de réduction</i>	<i>Couple de sortie</i>	<i>Charges radiales</i>	<i>Charges radiales</i>								
	[kW]	[r.p.m] (n ₁ =1400rpm)		[Nm]	[N]	[N]				~kg				
34500 Nm	383	103	13,61	34500	8000	270000	MA	1002	177 182	1050				
	460	124	11,33	34500	8000	270000								
	532	143	9,800	34500	8000	270000								
	609	164	8,555	34500	8000	270000								
	1225	329	4,256	34500	8000	270000								
50000 Nm	20,4	3,68	381	50000	10000	330000	MA	1104	207 212	1400				
	23,0	4,14	338	50000	10000	330000								
	25,8	4,63	302	50000	10000	330000								
	28,6	5,15	272	50000	10000	330000								
	32,1	5,78	242	50000	10000	330000								
	35,9	6,46	217	50000	10000	330000								
	40,0	7,19	195	50000	10000	330000								
	44,5	8,00	175	50000	10000	330000								
	49,3	8,86	158	50000	10000	330000								
	54,3	9,77	143	50000	10000	330000								
	60,2	11	129	50000	10000	330000								
	81,0	15	96,12	50000	10000	330000								
	83,1	15	92,98	50400	10000	330000					MA	1103	201 206	1400
	93,6	17	82,57	50400	10000	330000								
105	19	73,82	50400	10000	330000									
116	21	66,37	50400	10000	330000									
130	24	59,32	50400	10000	330000									
145	26	53,34	50400	10000	330000									
160	29	48,23	50400	10000	330000									
178	32	43,36	50400	10000	330000									
197	36	39,16	50400	10000	330000									
218	39	35,51	50400	10000	330000									
237	43	32,56	50400	10000	330000									
262	47	29,52	50400	10000	330000									
292	53	26,47	50400	10000	330000									
322	58	24,00	50400	10000	330000									
346	63	22,36	50400	10000	330000									
381	69	20,27	50400	10000	330000									
50000 Nm	352	65	21,49	50000	10000	330000	MA	1102	195 200	1400				
	432	80	17,47	50000	10000	330000								
	520	96	14,52	50000	10000	330000								
	616	114	12,27	50000	10000	330000								
	738	137	10,24	50000	10000	330000								
	758	140	9,970	50000	10000	330000								
	835	155	9,050	50000	10000	330000								
	907	168	8,330	50000	10000	330000								
	961	178	7,860	50000	10000	330000								
	1028	190	7,350	50000	10000	330000								
	1182	219	6,390	50000	10000	330000								
	1356	251	5,570	50000	10000	330000								

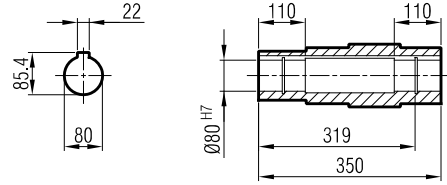
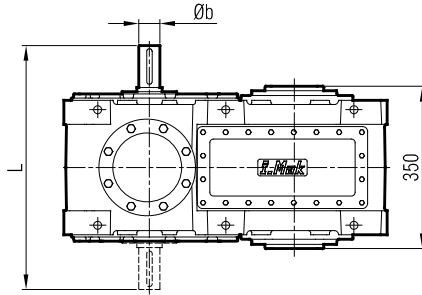
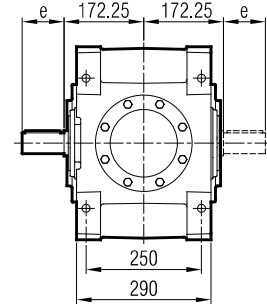
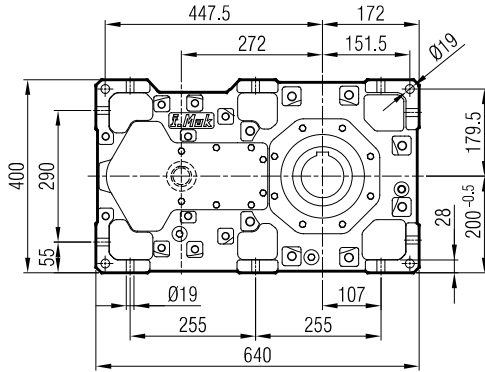
MA Serisi Redüktörler Ölçü Sayfaları

Dimensions Pages

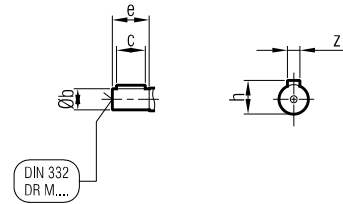
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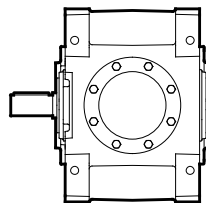
MA 402



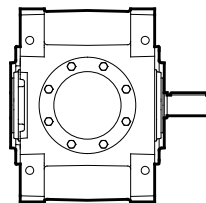
Tahvil / Ratio	Øb	e	z	c	h	M	L
i: 20,98 ... 12,70	32 ^{k6}	80	10	70	35	M12	505
i: 11,40 ... 6,03	45 ^{k6}	100	14	85	48.5	M16	545



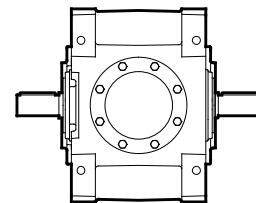
Giriş Seçenekleri / Input Options / Option d'entree



G00



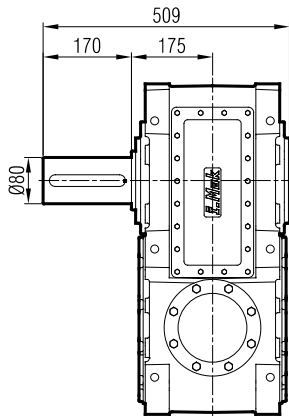
G01



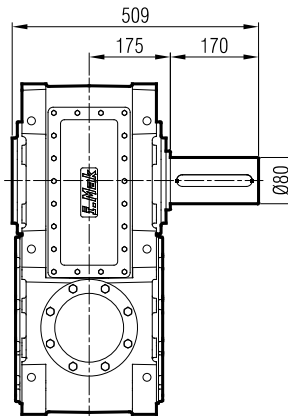
G02



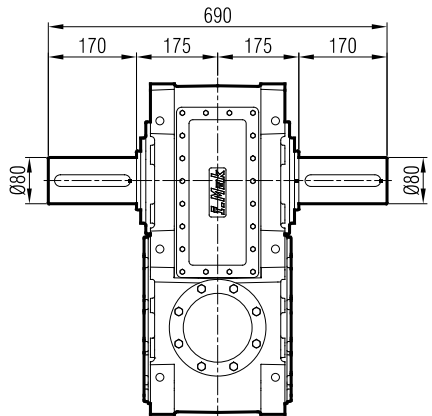
MA / MK 40_
...-SL



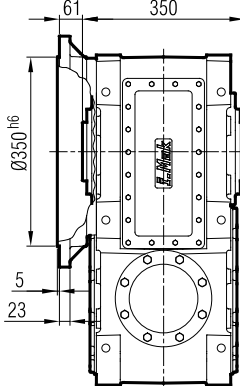
...-SR



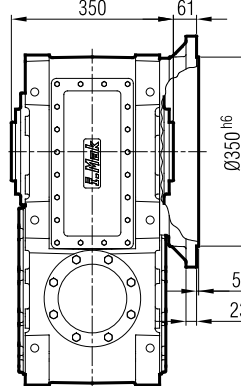
...-SD



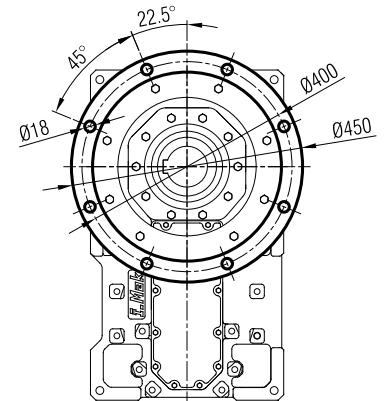
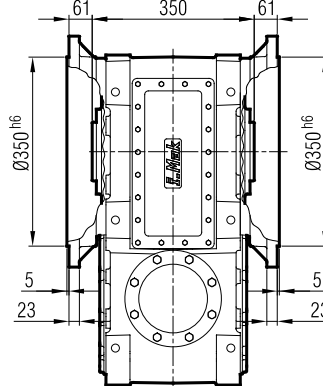
...-FL



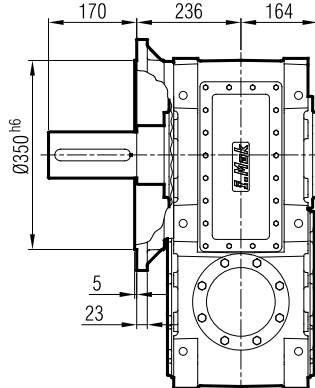
...-FR



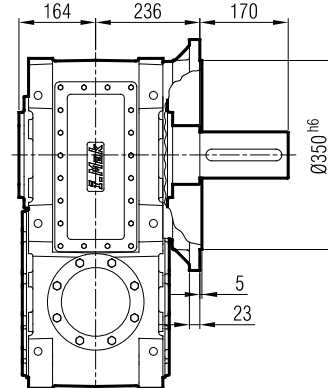
...-FD



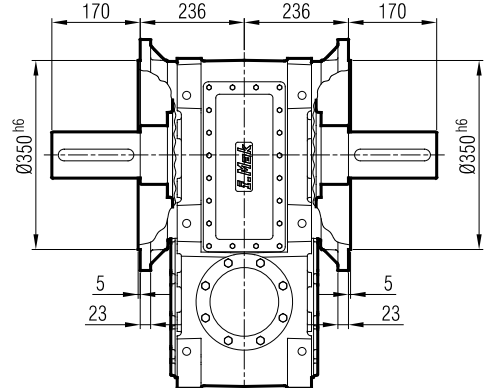
...-FL-SL



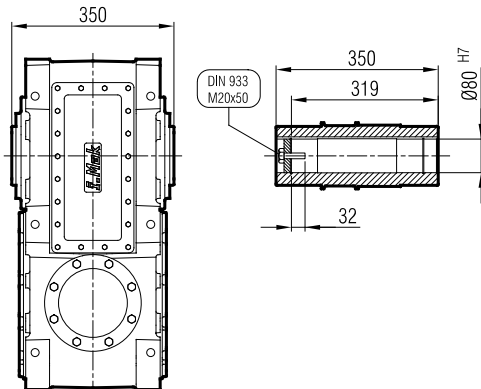
...-FR-SR



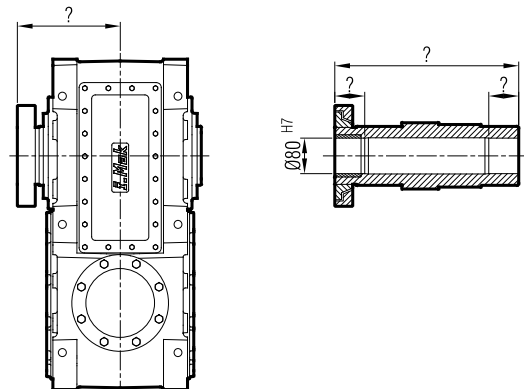
...-FD-SD



...-H

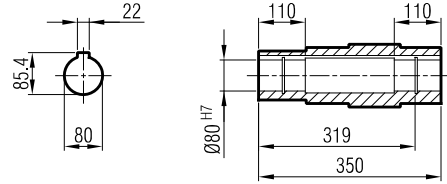
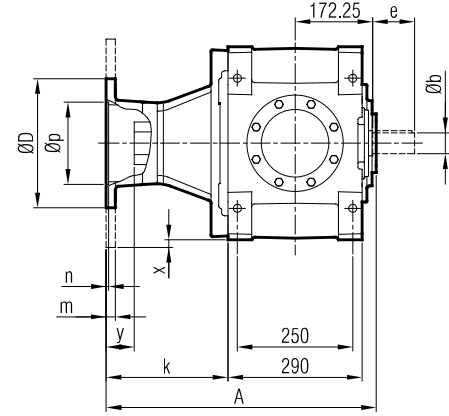
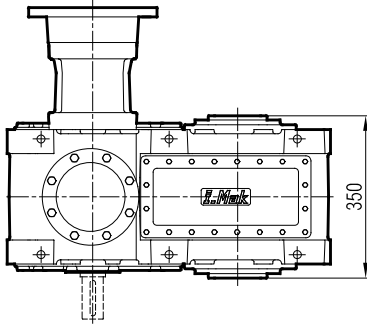
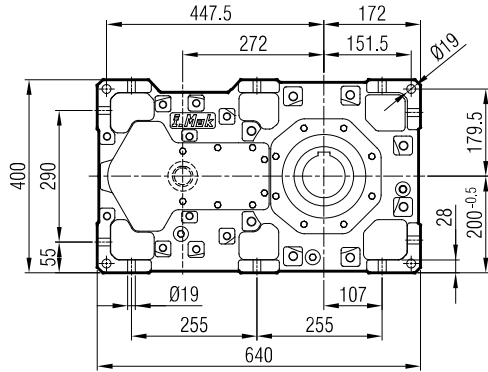


...-SDL / SDR



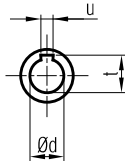
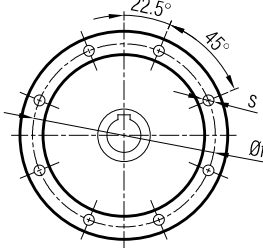
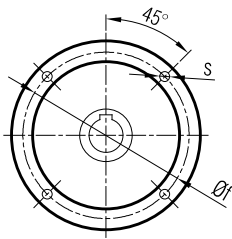


MAP 402

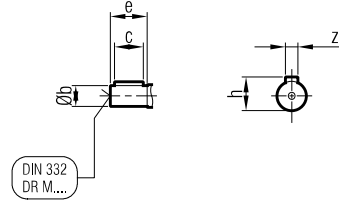


≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

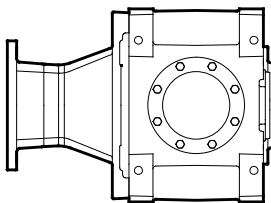


Tahvil / Ratio	Øb	e	z	c	h	M
i: 20,98 ... 12,70	32 k6	80	10	70	35	M12
i: 11,40 ... 6,03	45 k6	100	14	85	48.5	M16

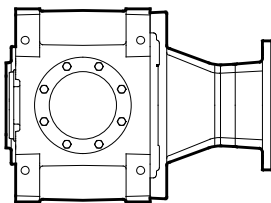


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	564	250	300	350	M14	243.5	20	6	42	45.3	12	-	66
180/B5	564	250	300	350	M14	243.5	20	6	48	51.8	14	-	52
200/B5	564	300	350	400	M16	243.5	22	6	55	59.3	16	0	52
225/B5	607	350	400	450	M16	286.5	22	6	60	64.4	18	25	95

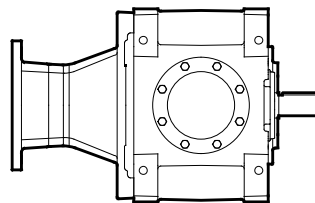
Giriş Seçenekleri / Input Options / Option d'entree



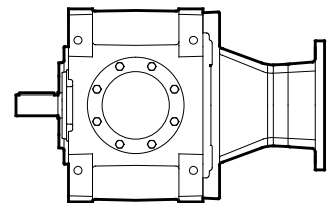
G03



G04



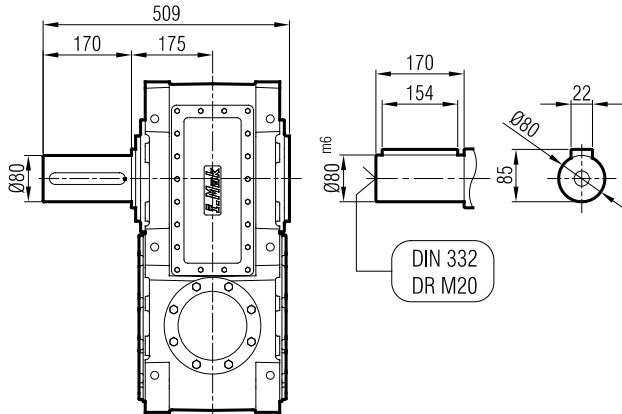
G05



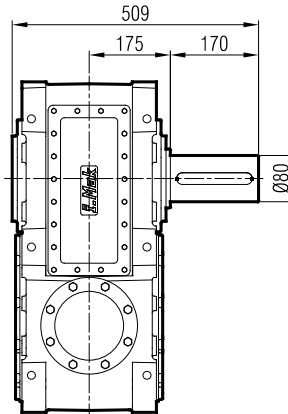
G06



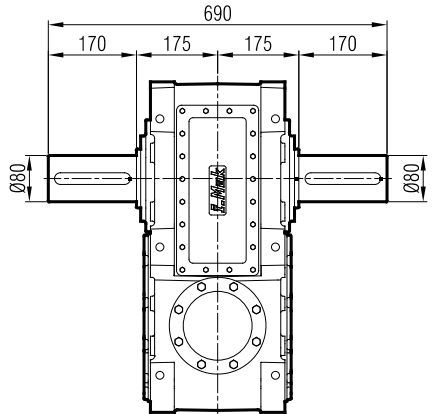
MA / MK 40_
...-SL



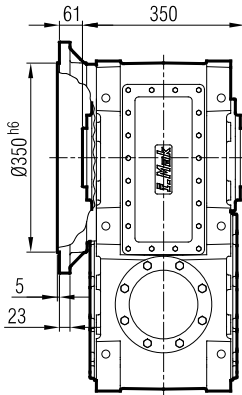
...-SR



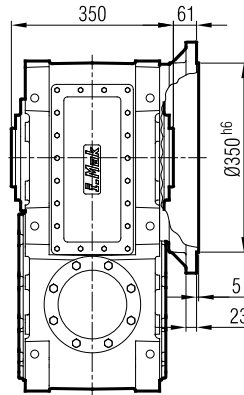
...-SD



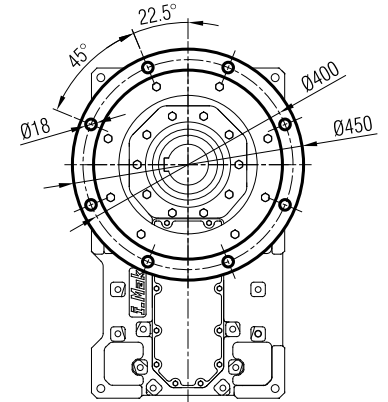
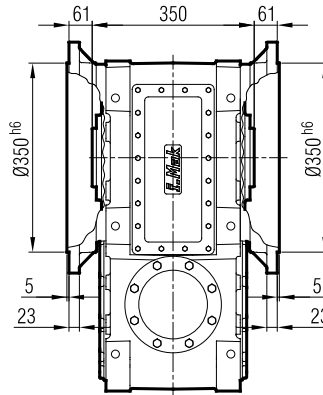
...-FL



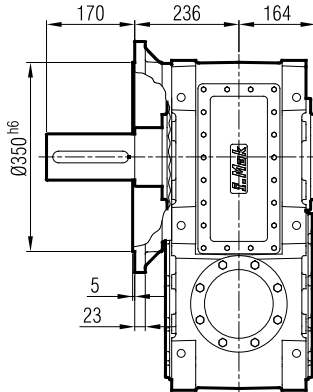
...-FR



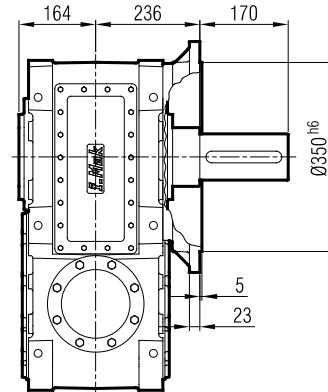
...-FD



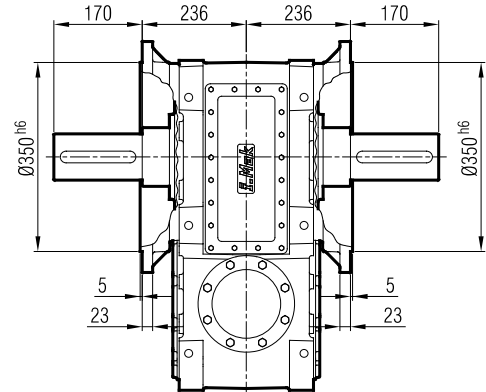
...-FL-SL



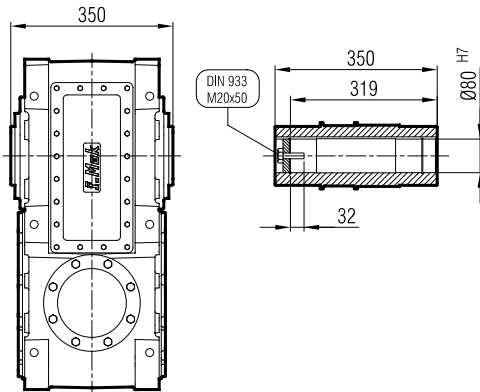
...-FR-SR



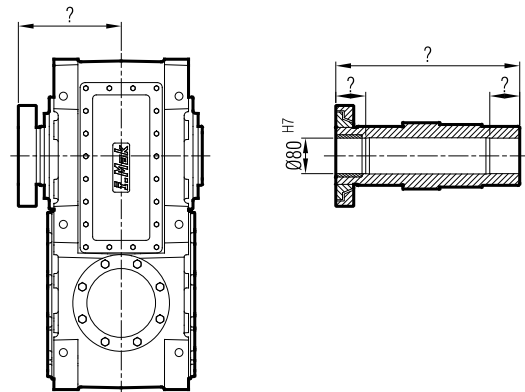
...-FD-SD



...-H

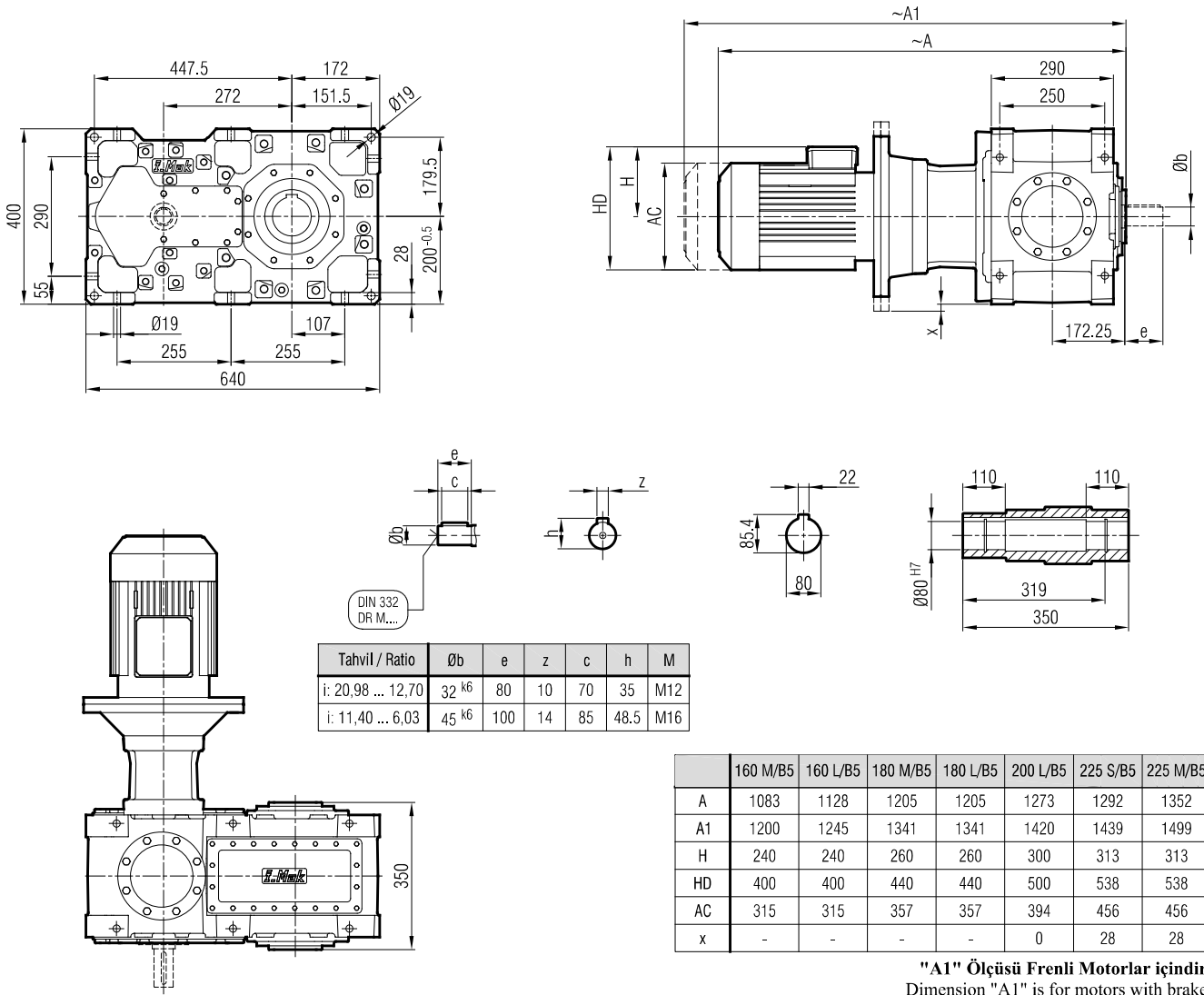


...-SDL / SDR





MAM 402

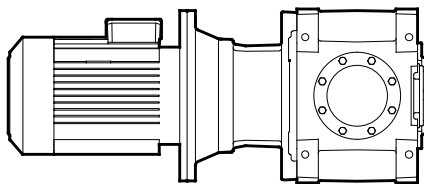


"A1" Ölçüsü Frenli Motorlar içindir.

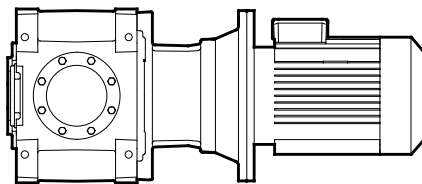
Dimension "A1" is for motors with brake.

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

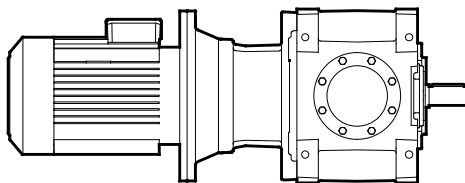
Giriş Seçenekleri / Input Options / Option d'entree



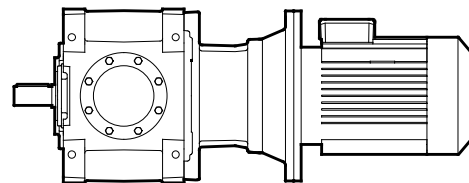
G03



G04



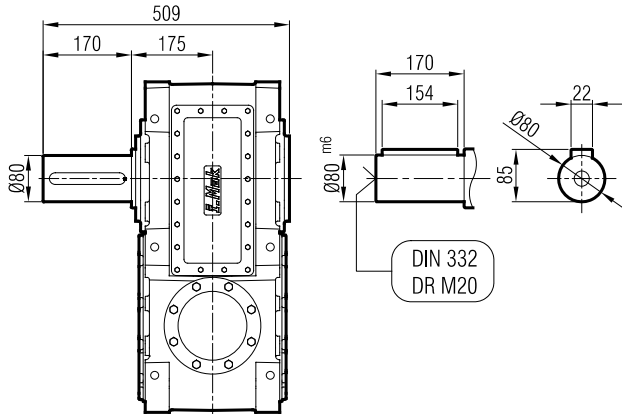
G05



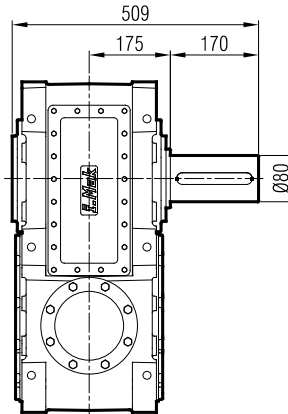
G06



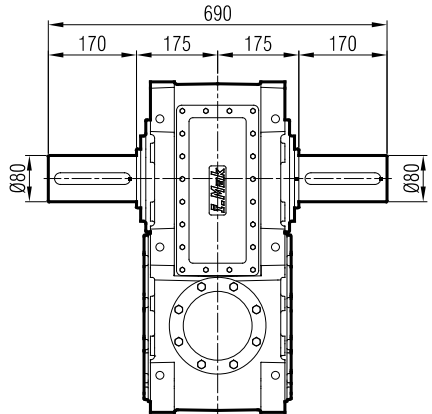
MA / MK 40_
...-SL



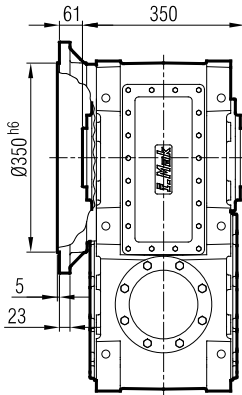
...-SR



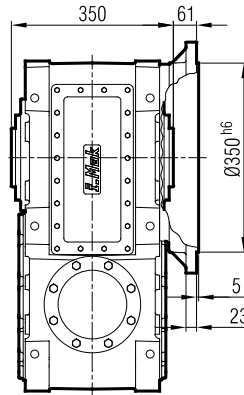
...-SD



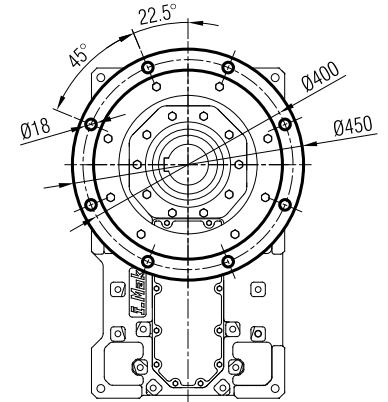
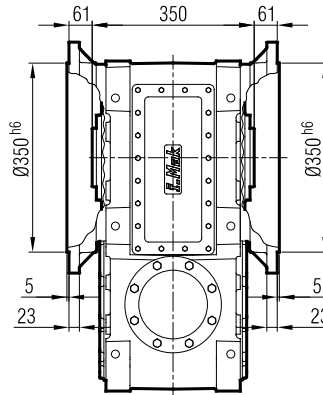
...-FL



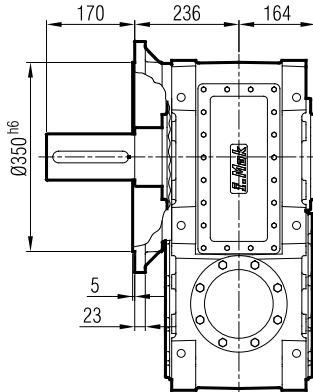
...-FR



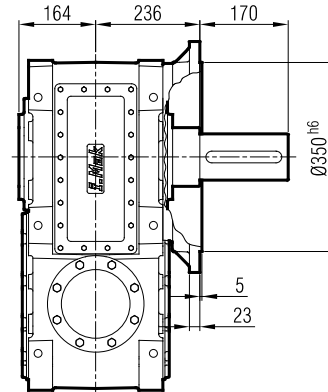
...-FD



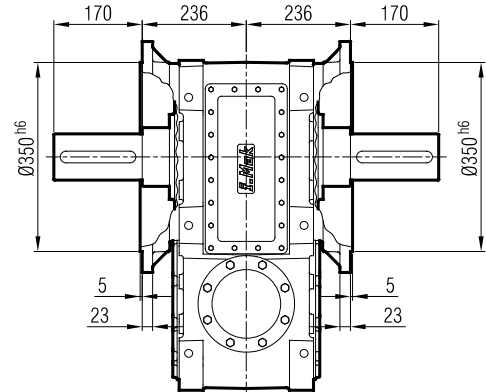
...-FL-SL



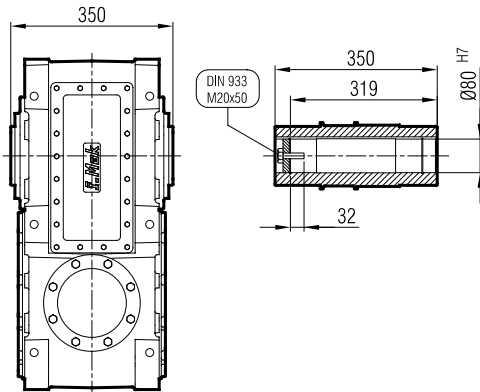
...-FR-SR



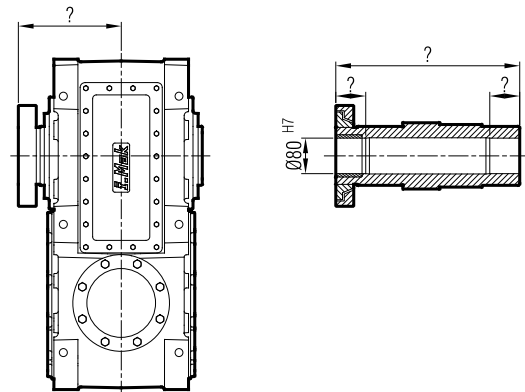
...-FD-SD



...-H

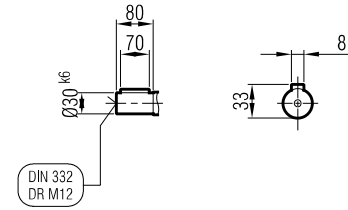
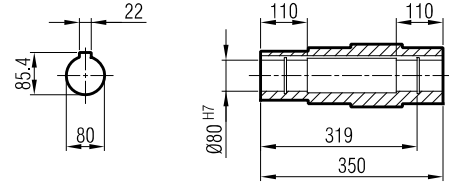
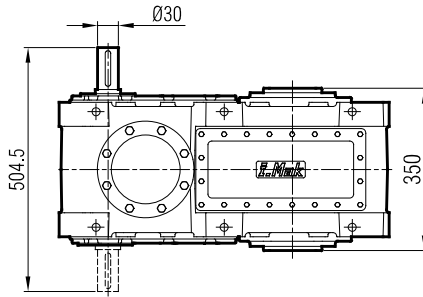
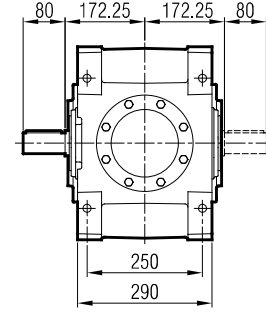
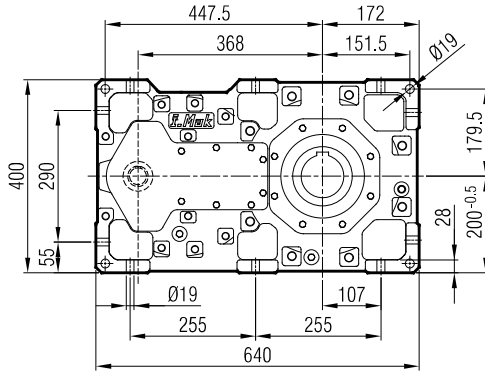


...-SDL / SDR



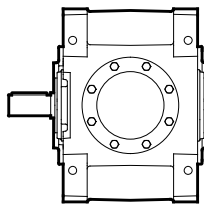


MA 403

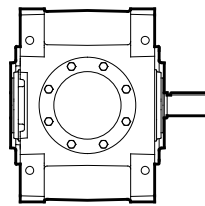


DIN 332
DR M12

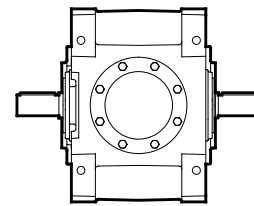
Giriş Seçenekleri / Input Options / Option d'entree



G00



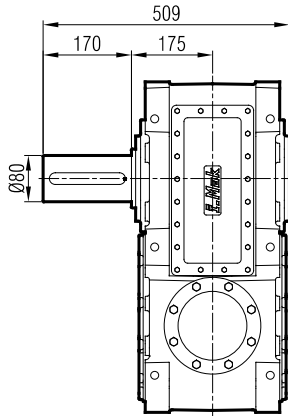
G01



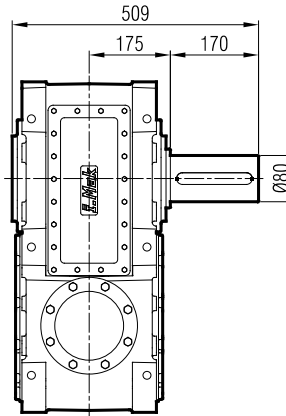
G02



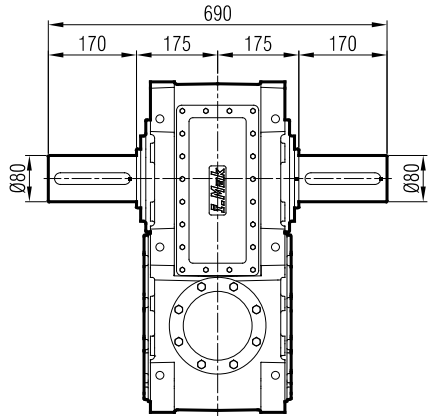
MA / MK 40_
...-SL



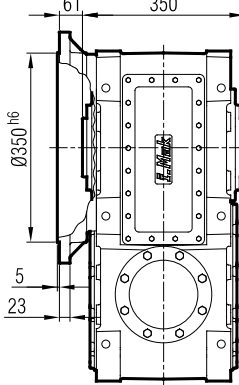
...-SR



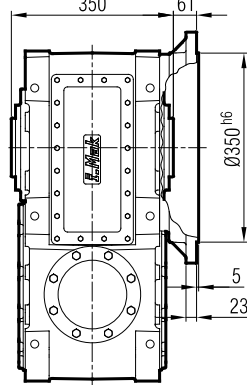
...-SD



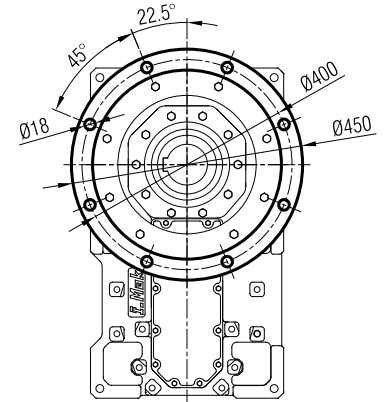
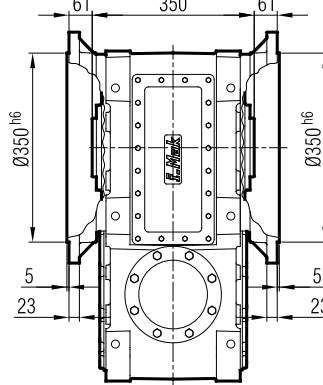
...-FL



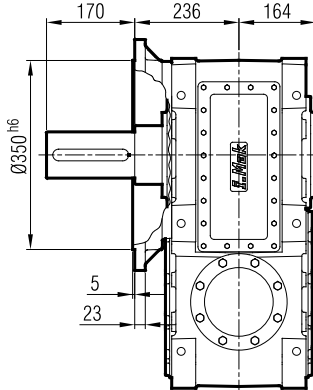
...-FR



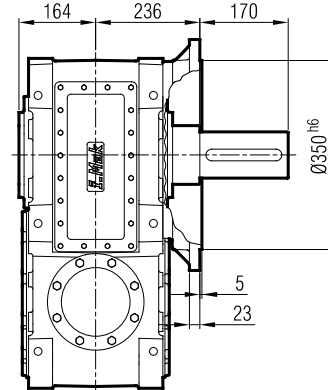
...-FD



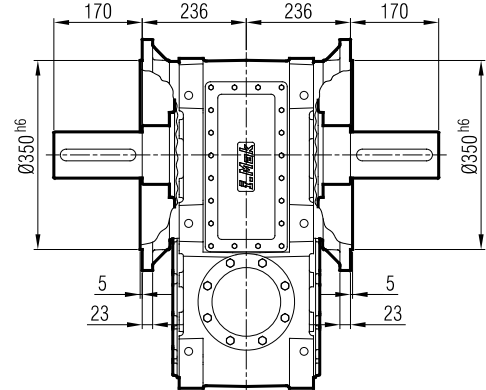
...-FL-SL



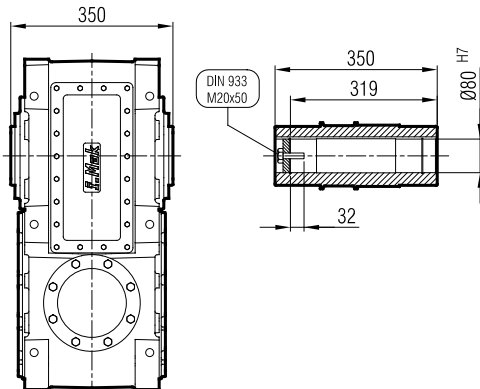
...-FR-SR



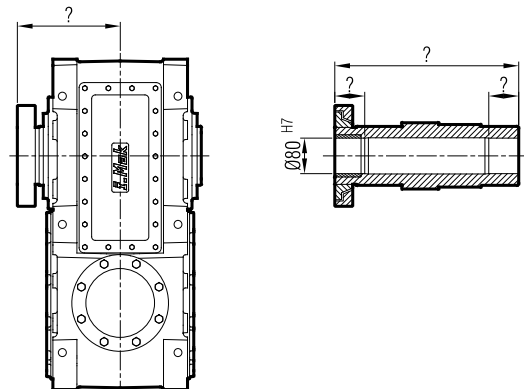
...-FD-SD



...-H

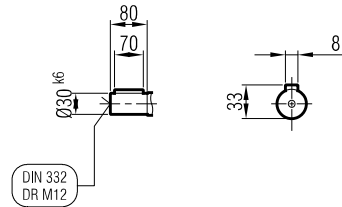
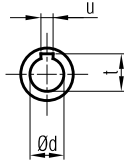
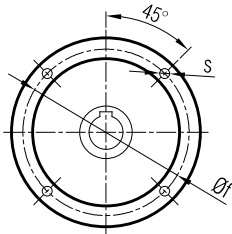
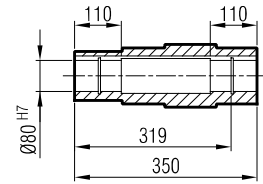
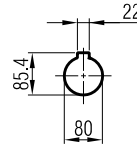
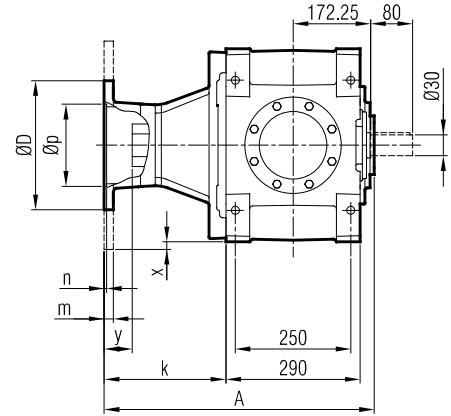
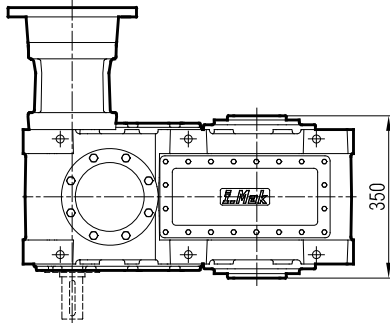
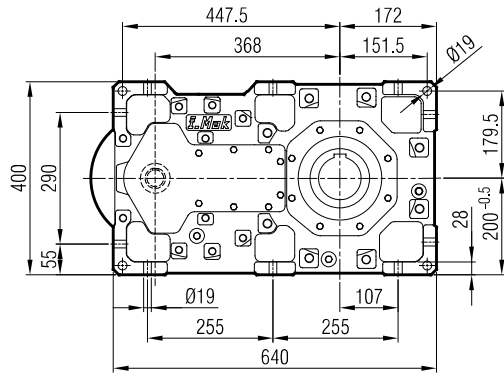


...-SDL / SDR



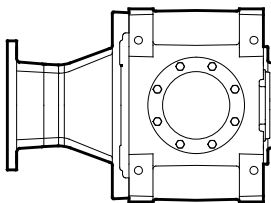


MAP 403

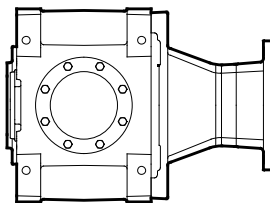


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	493	180	215	250	M12	177	15	5	28	31.3	8	-	14
132/B5	513	230	265	300	M12	197	18	6	38	41.3	10	-	34
160/B5	551	250	300	350	M14	231	20	6	42	45.3	12	-	64
180/B5	551	250	300	350	M14	231	20	6	48	51.8	14	-	60
200/B5	551	300	350	400	M16	231	22	6	55	59.3	16	0	60

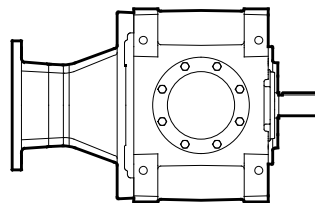
Giriş Seçenekleri / Input Options / Option d'entree



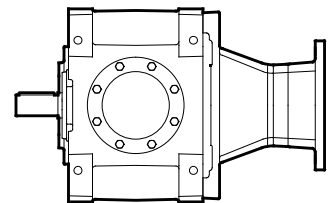
G03



G04



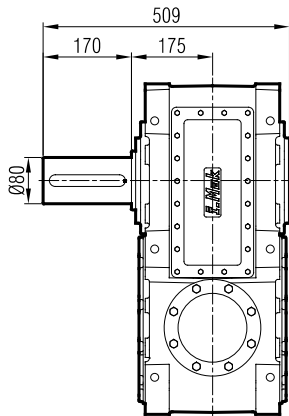
G05



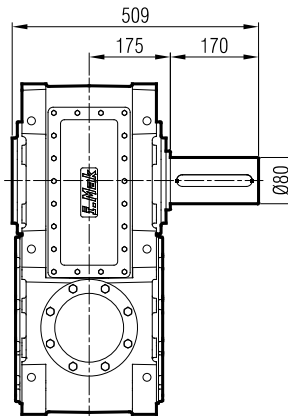
G06



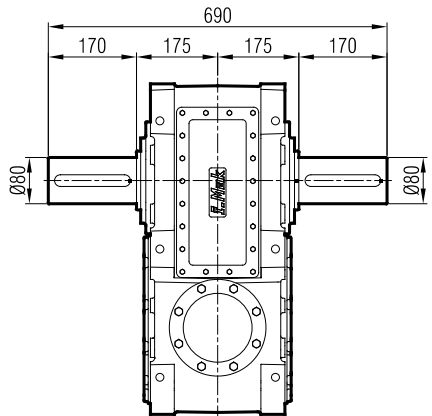
MA / MK 40_
...-SL



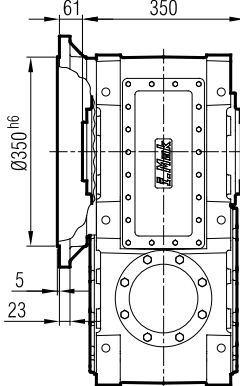
...-SR



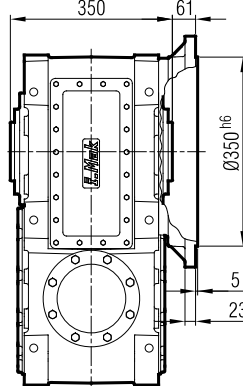
...-SD



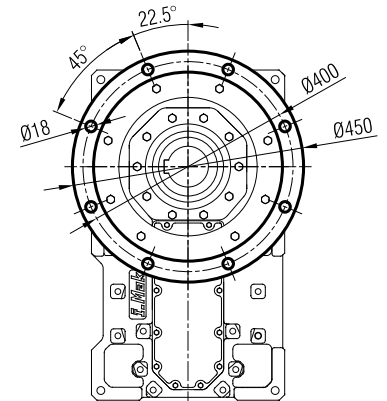
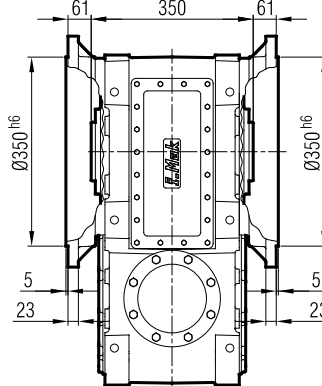
...-FL



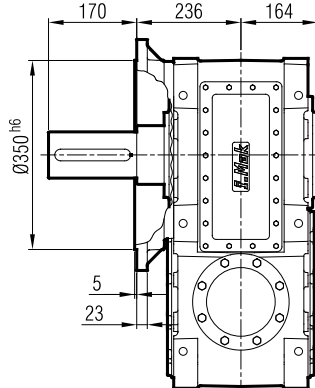
...-FR



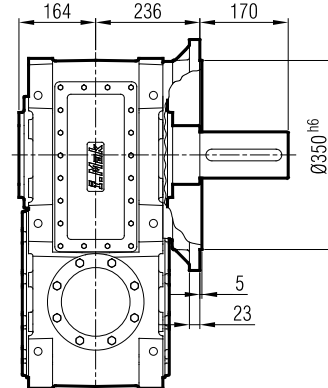
...-FD



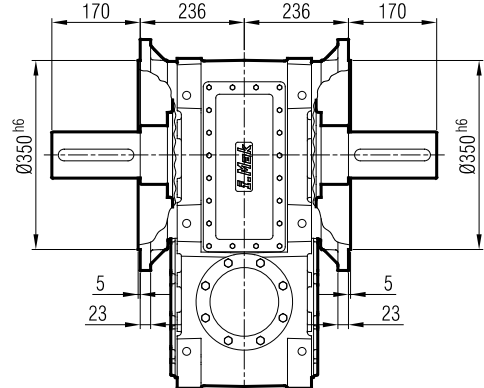
...-FL-SL



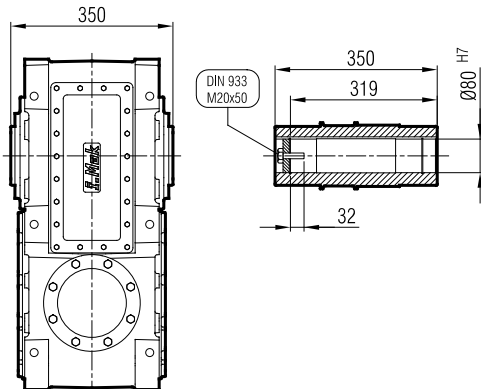
...-FR-SR



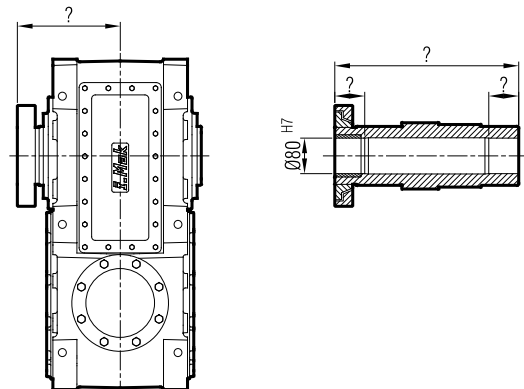
...-FD-SD

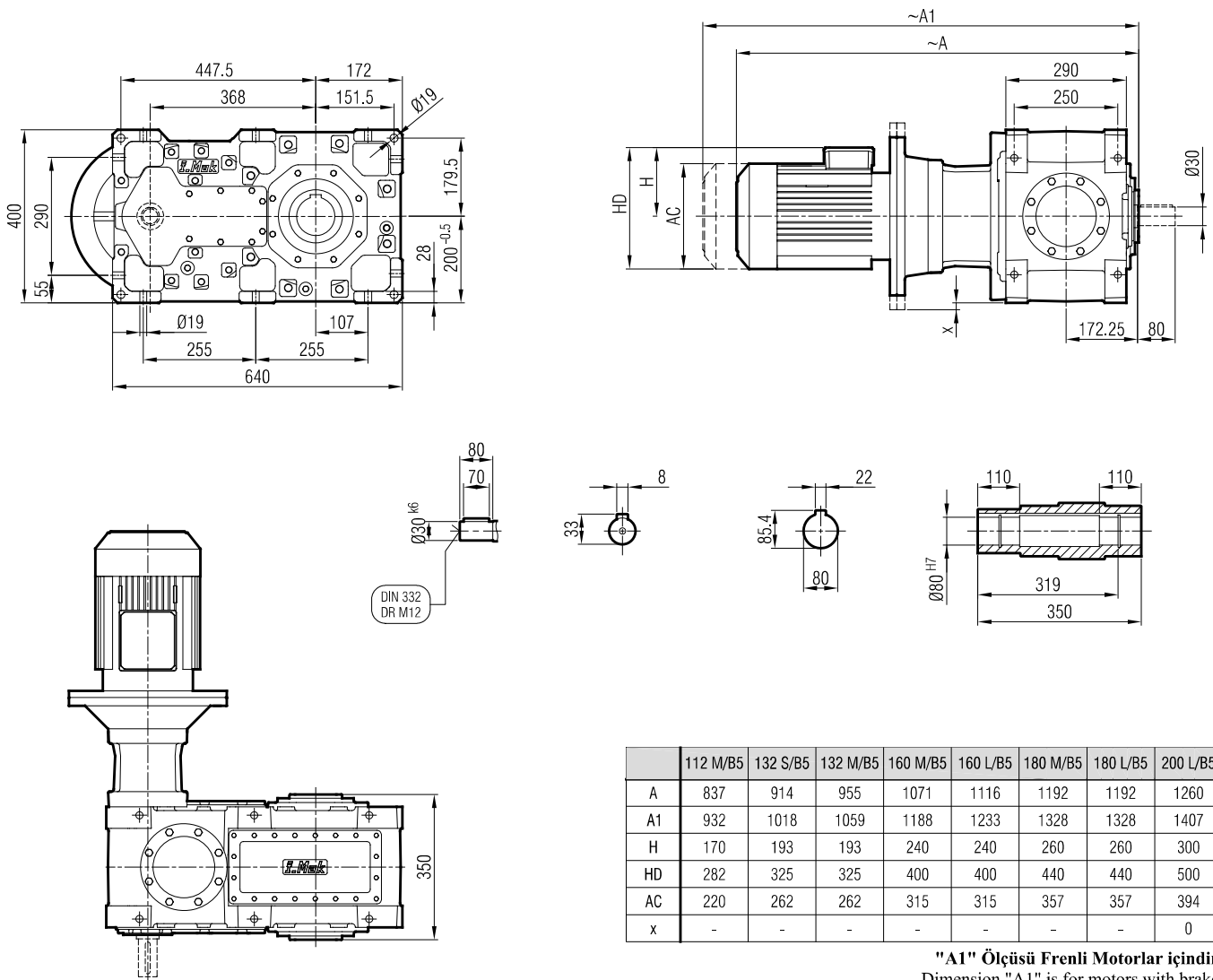


...-H



...-SDL / SDR



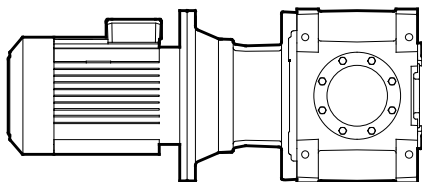
**MAM 403**

"A1" Ölçüsü Frenli Motorlar içindir.

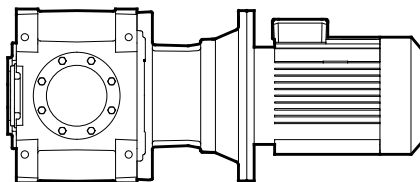
Dimension "A1" is for motors with brake.

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

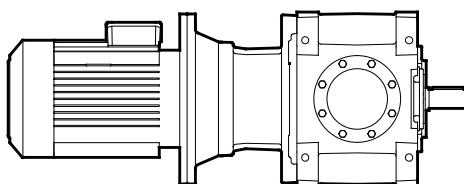
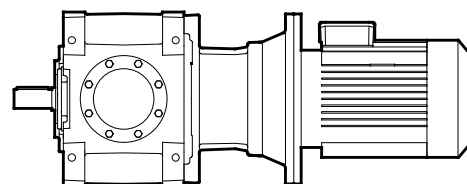
Giriş Seçenekleri / Input Options / Option d'entree



G03



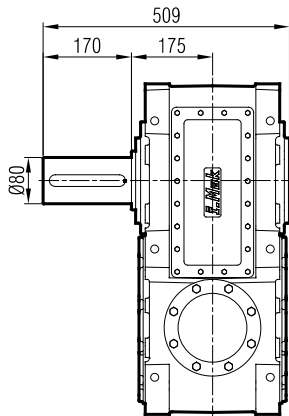
G04

**G05**

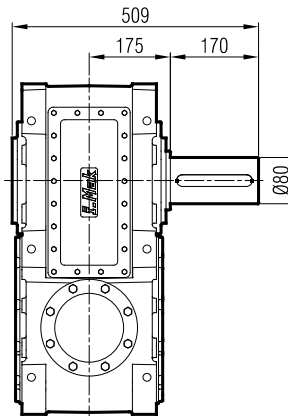
G06



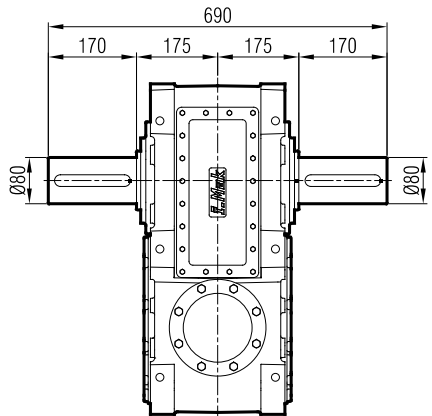
MA / MK 40_
...-SL



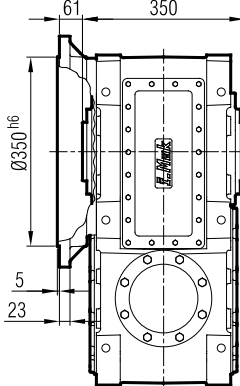
...-SR



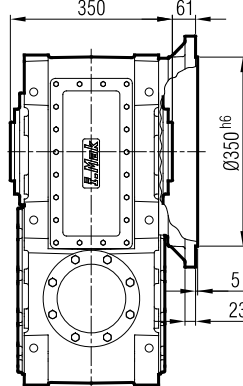
...-SD



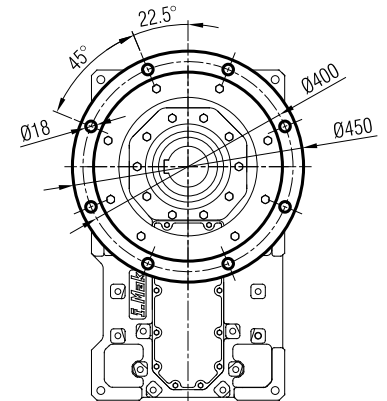
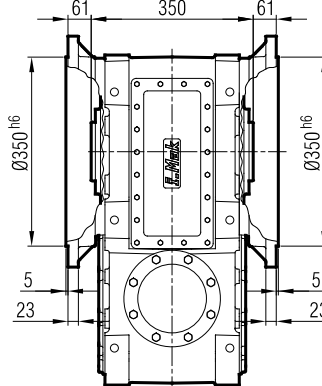
...-FL



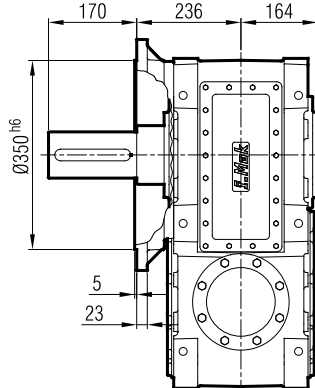
...-FR



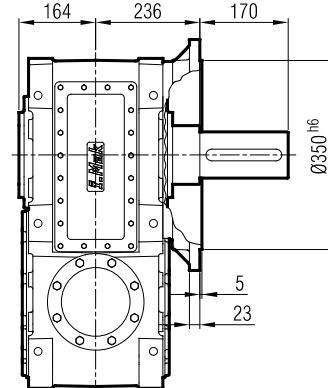
...-FD



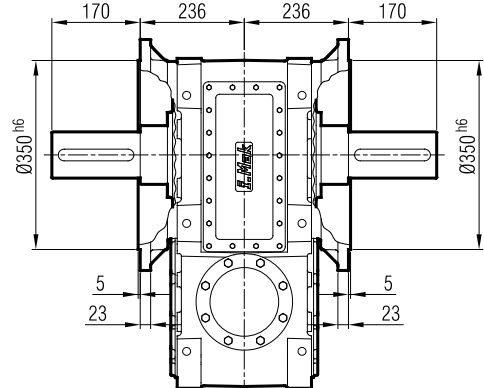
...-FL-SL



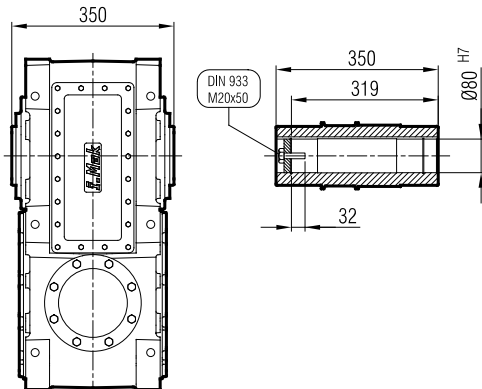
...-FR-SR



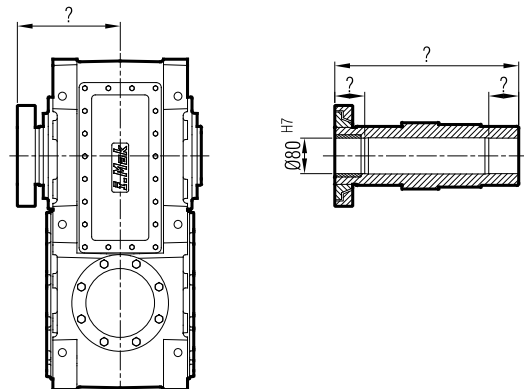
...-FD-SD



...-H

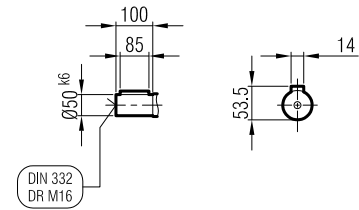
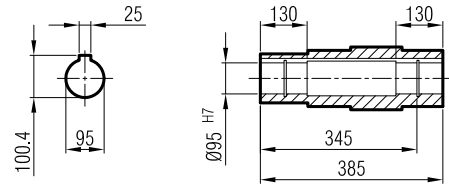
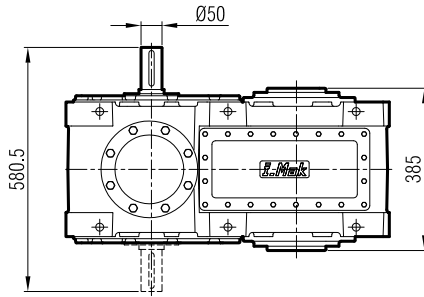
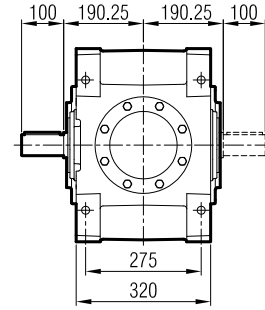
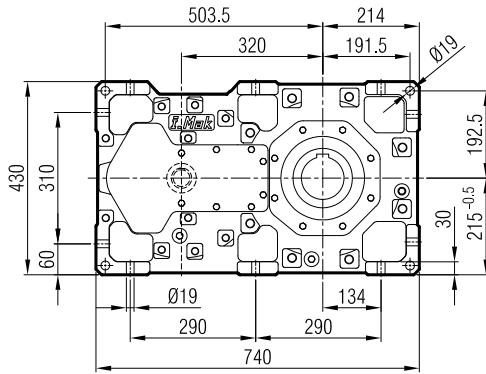


...-SDL / SDR

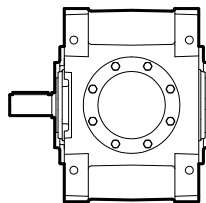




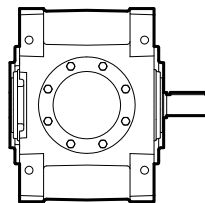
MA 502



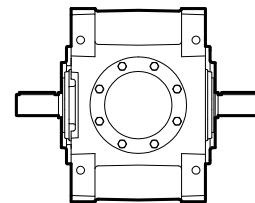
Giriş Seçenekleri / Input Options / Option d'entree



G00



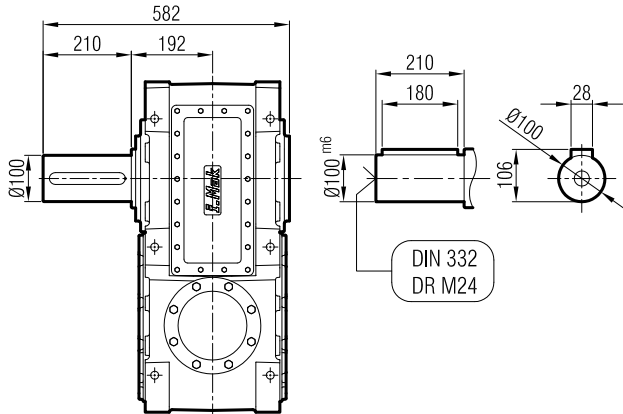
G01



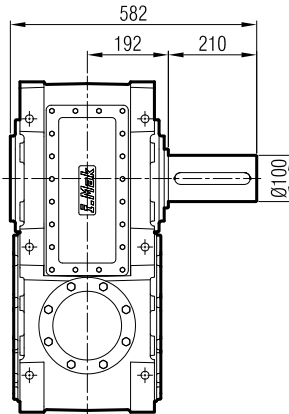
G02



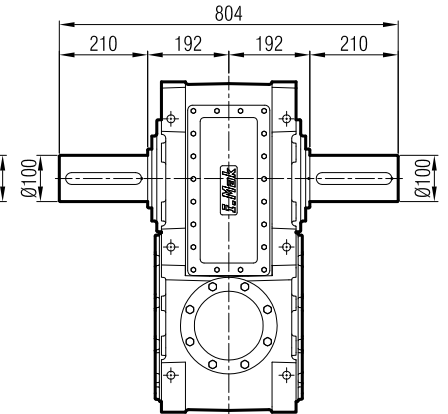
MA / MK 50_
...-SL



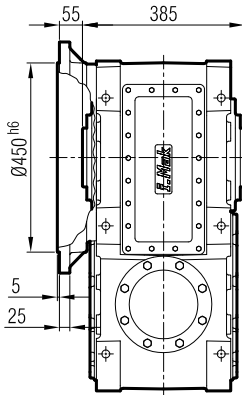
...-SR



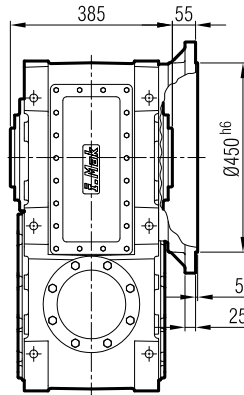
...-SD



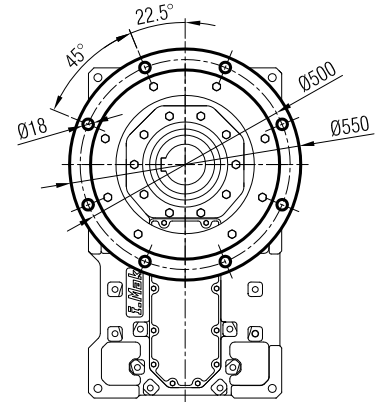
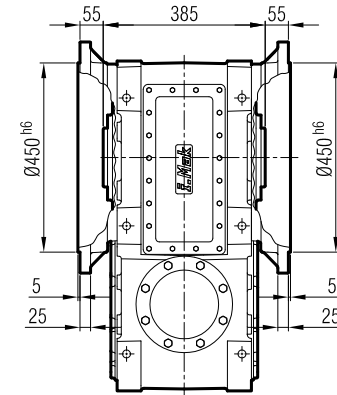
...-FL



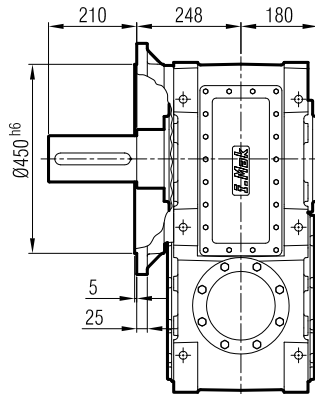
...-FR



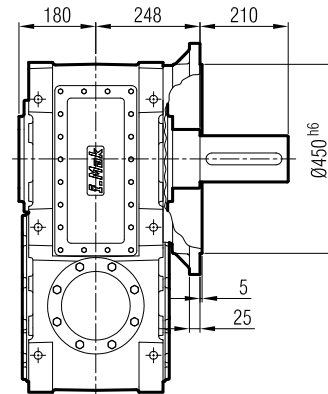
...-FD



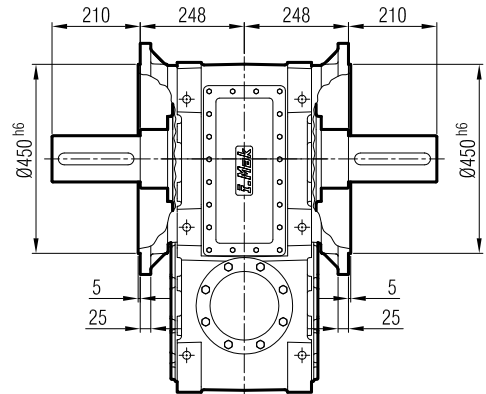
...-FL-SL



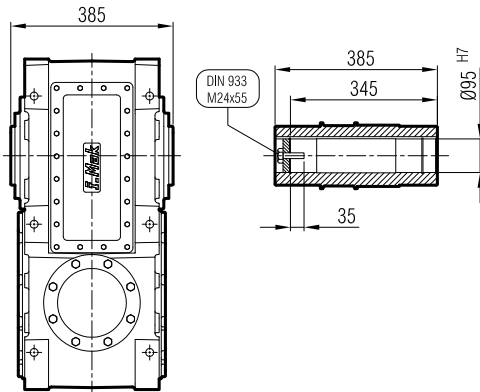
...-FR-SR



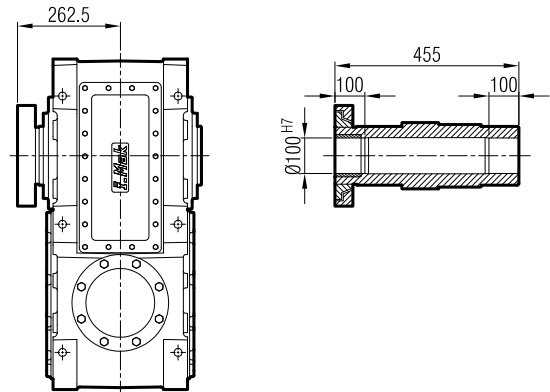
...-FD-SD



...-H

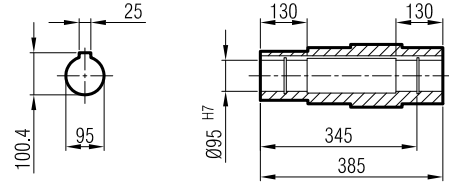
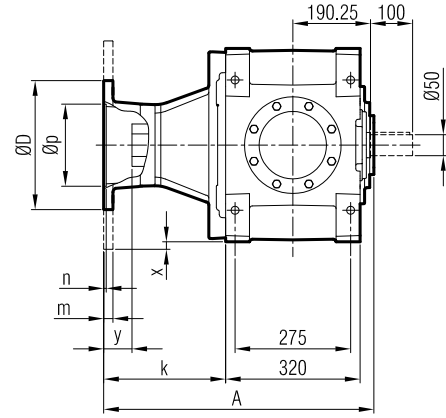
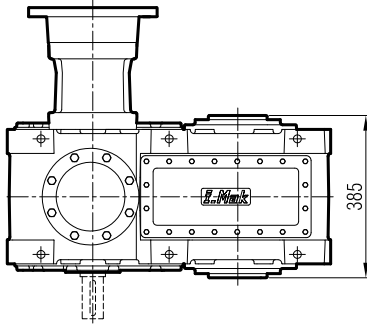
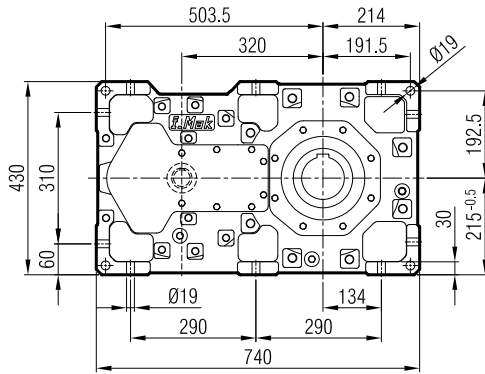


...-SDL / SDR



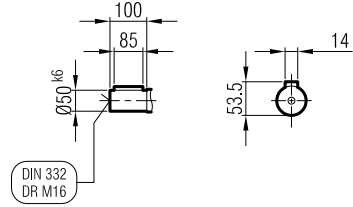
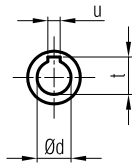
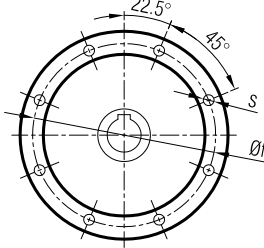
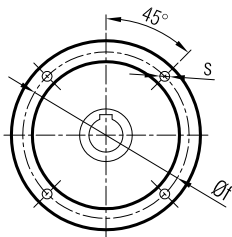


MAP 502



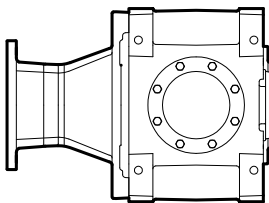
≤ 200 B5 **Tip/Type/Typ**

≥ 225 B5 **Tip/Type/Typ**

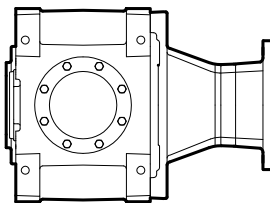


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
180/B5	597	250	300	350	M14	244	20	6	48	51.8	14	-	40
200/B5	597	300	350	400	M16	244	22	6	55	59.3	16	-	40
225/B5	640	350	400	450	M16	287	22	6	60	64.4	18	10	75
250/B5	640	450	500	550	M16	287	25	6.5	65	69.4	18	60	75
280/B5	640	450	500	550	M16	287	25	6.5	75	75.9	20	60	65

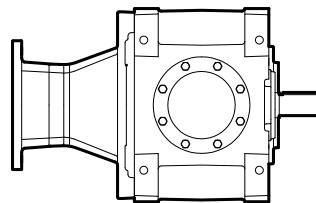
Giriş Seçenekleri / Input Options / Option d'entree



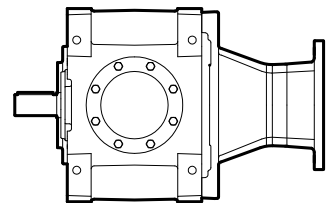
G03



G04



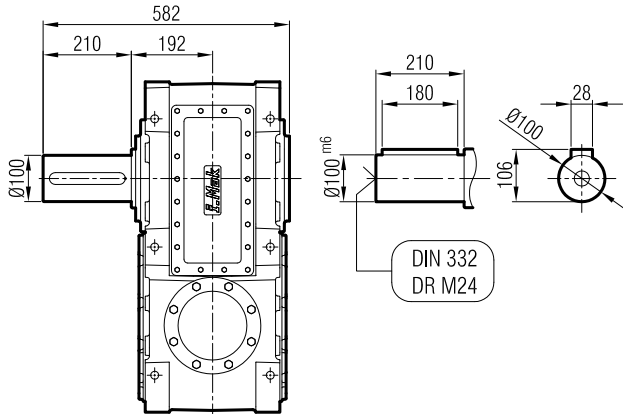
G05



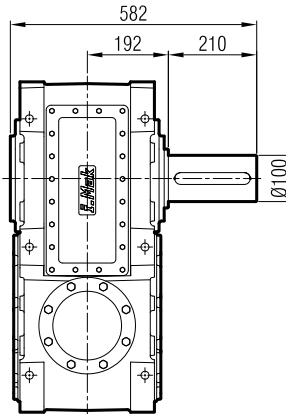
G06



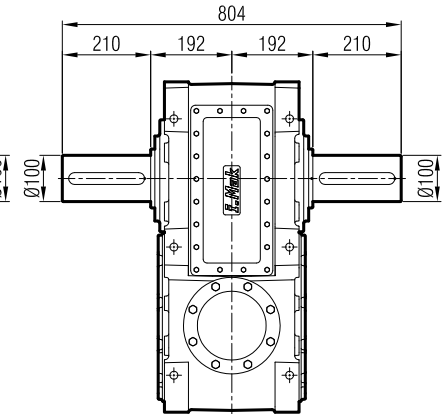
MA / MK 50_
...-SL



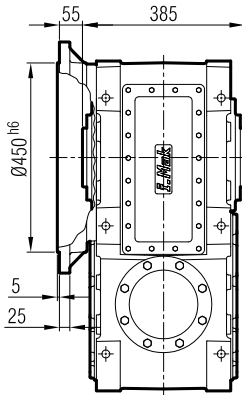
...-SR



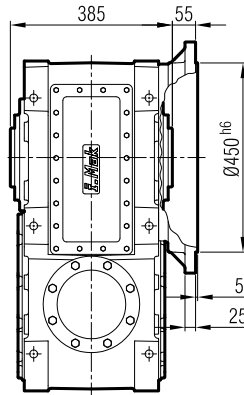
...-SD



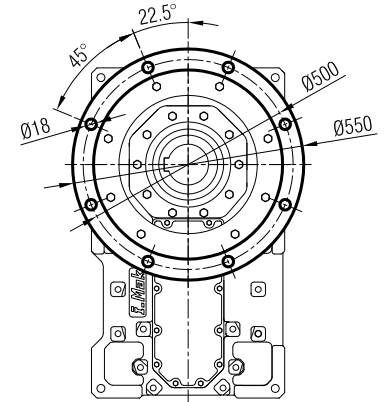
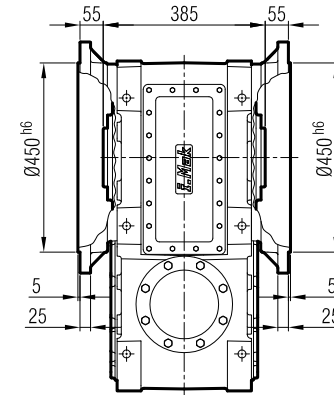
...-FL



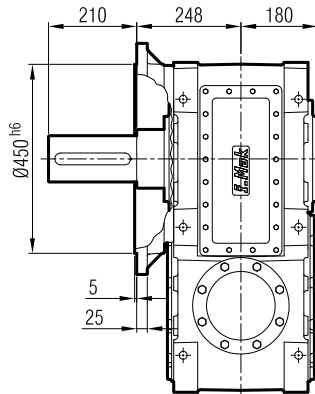
...-FR



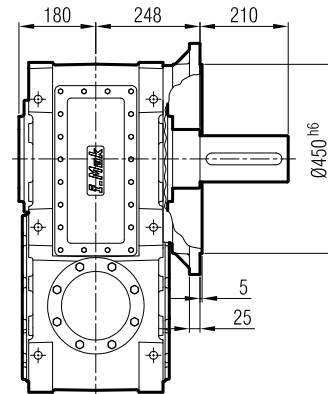
...-FD



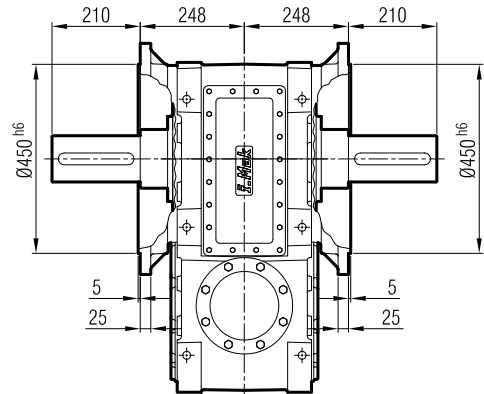
...-FL-SL



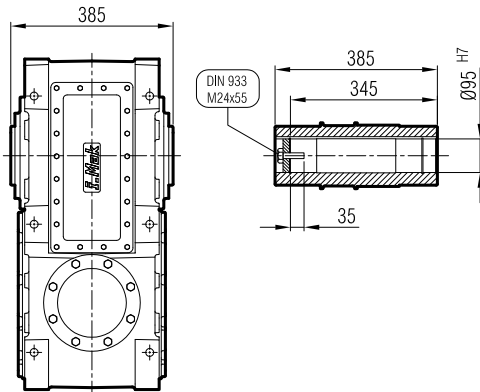
...-FR-SR



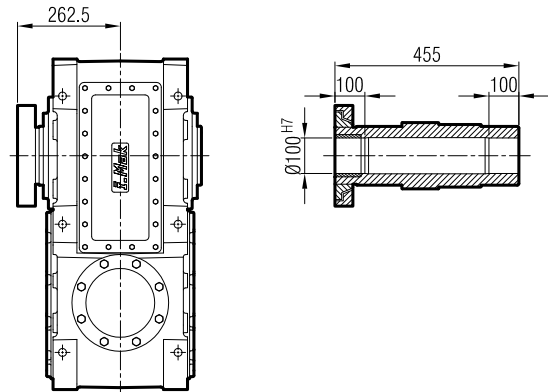
...-FD-SD



...-H

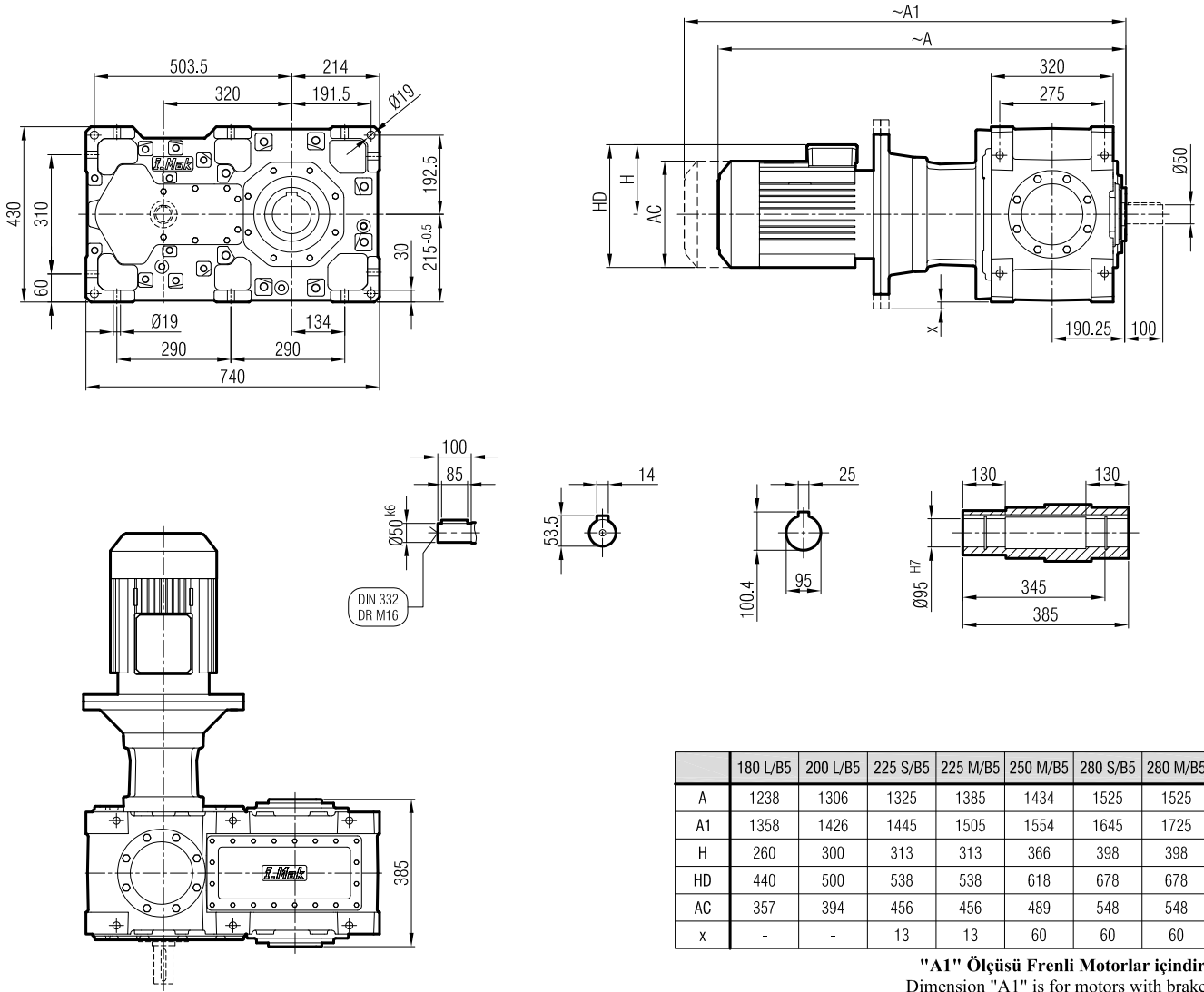


...-SDL / SDR





MAM 502

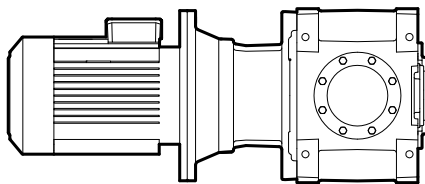


"A1" Ölçüsü Frenli Motorlar içindir.

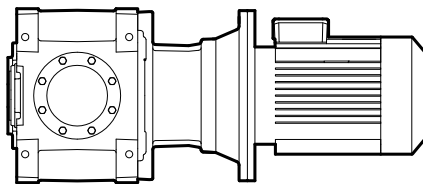
Dimension "A1" is for motors with brake.

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

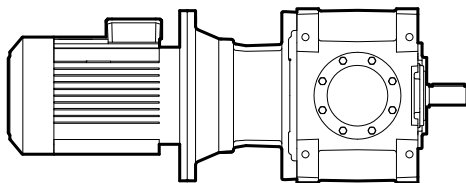
Giriş Seçenekleri / Input Options / Option d'entree



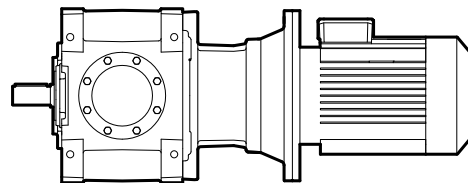
G03



G04



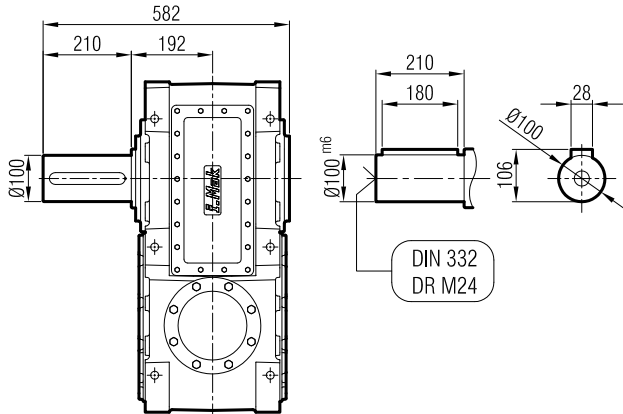
G05



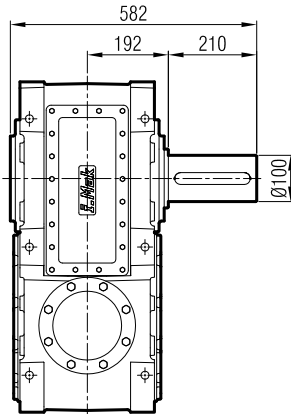
G06



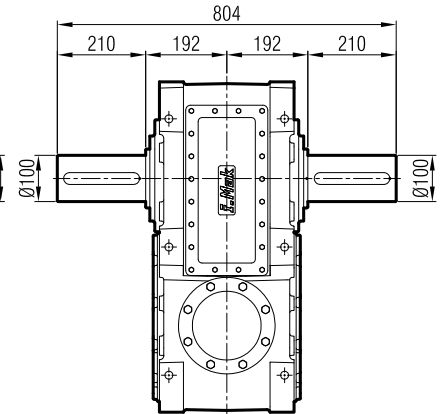
MA / MK 50_
...-SL



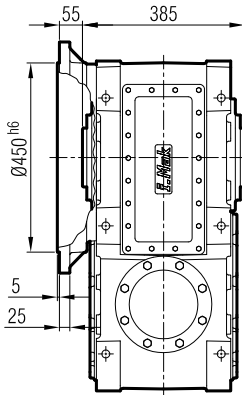
...-SR



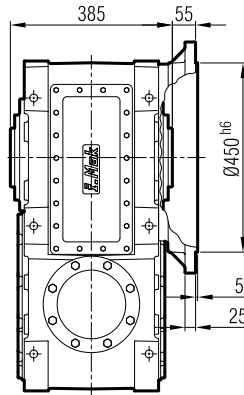
...-SD



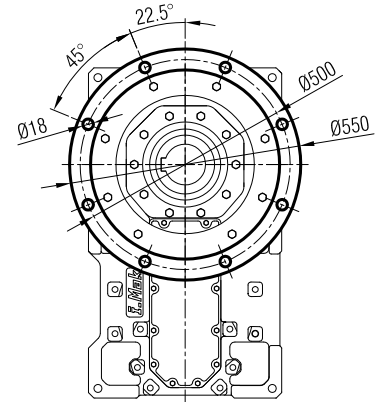
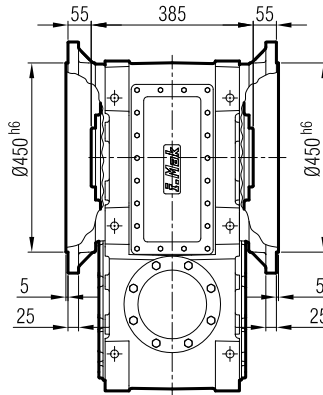
...-FL



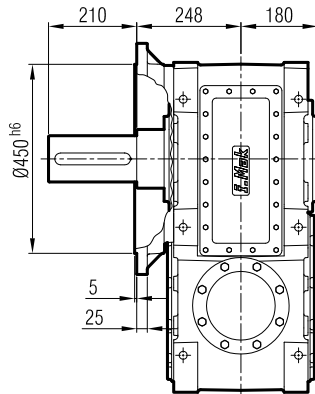
...-FR



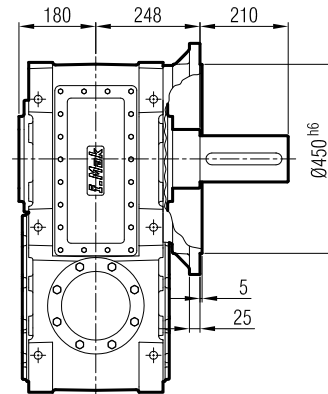
...-FD



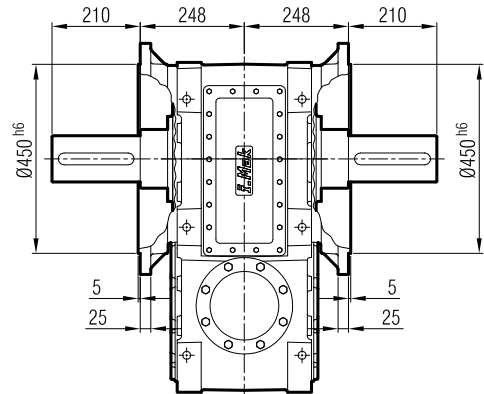
...-FL-SL



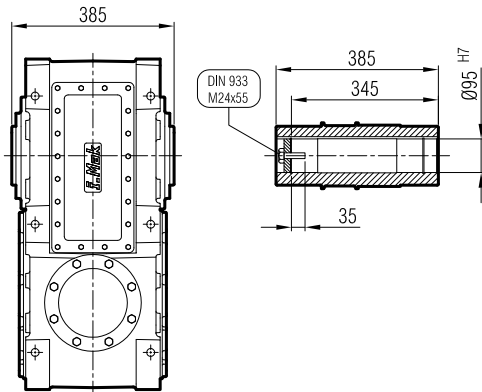
...-FR-SR



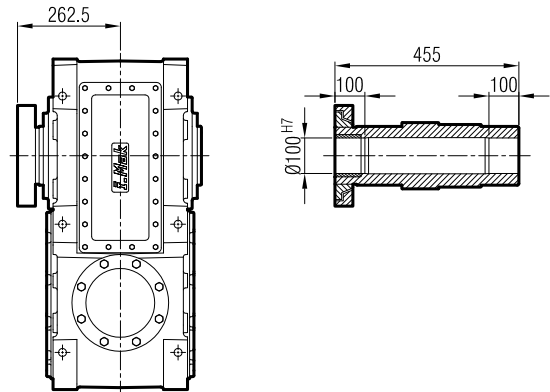
...-FD-SD



...-H

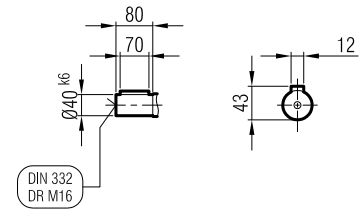
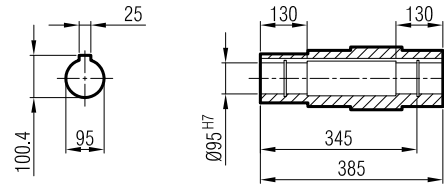
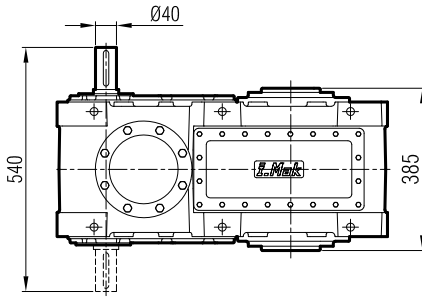
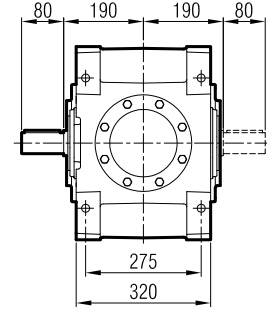
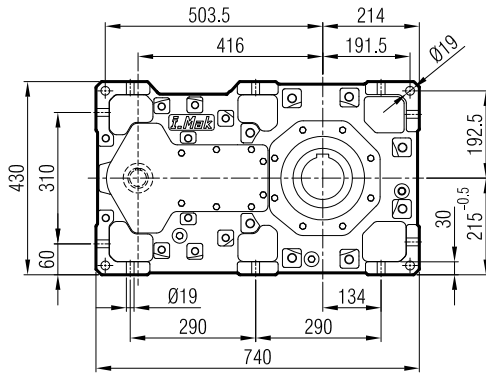


...-SDL / SDR

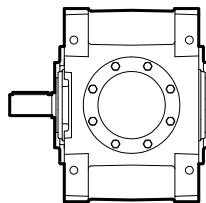




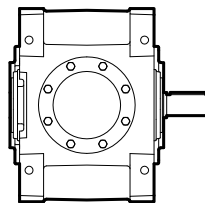
MA 503



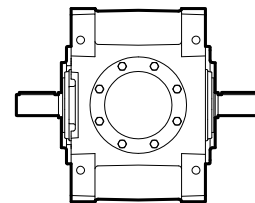
Giriş Seçenekleri / Input Options / Option d'entree



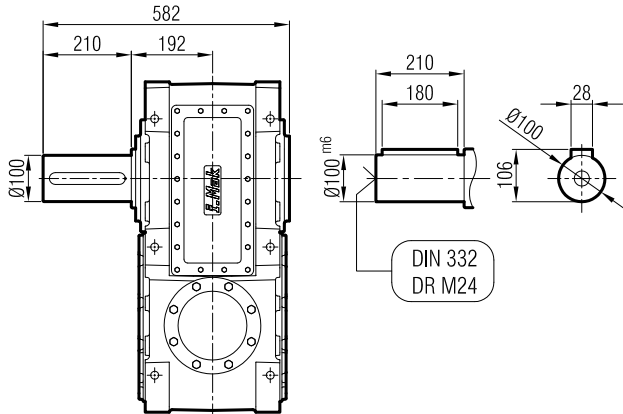
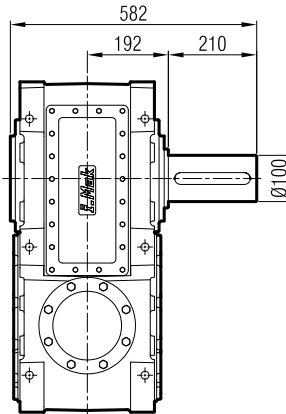
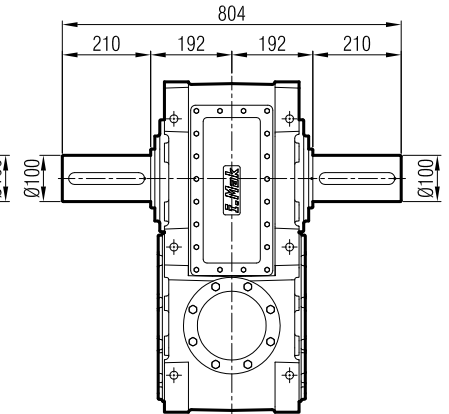
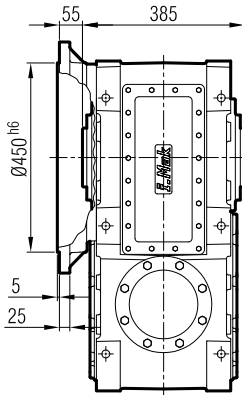
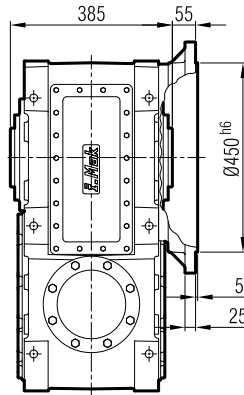
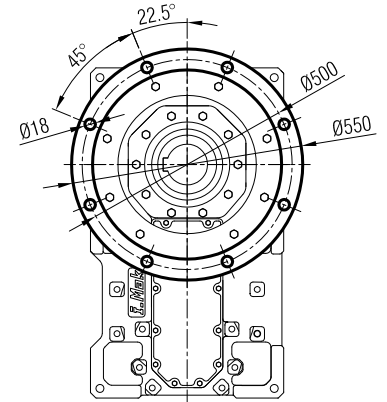
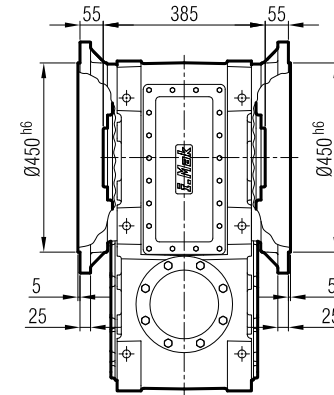
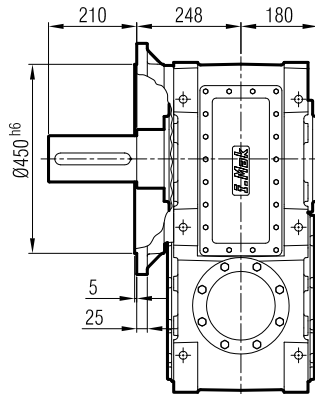
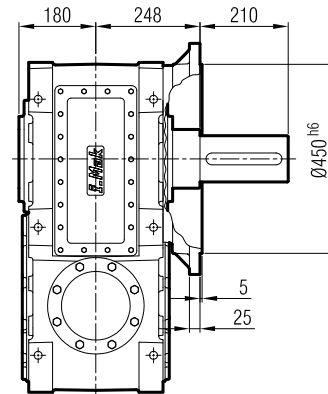
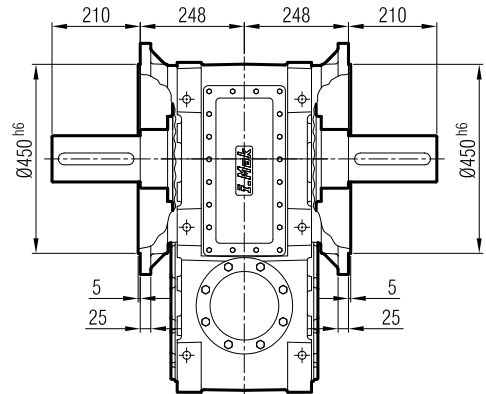
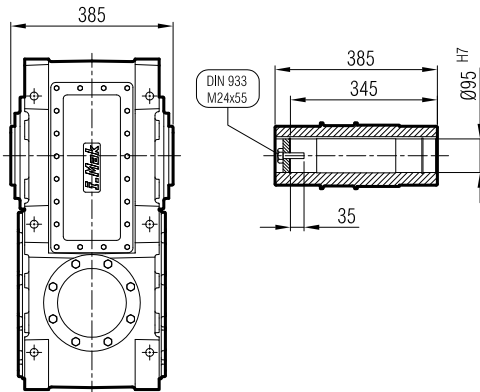
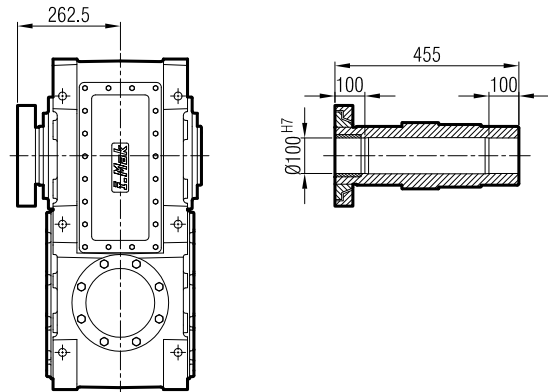
G00



G01

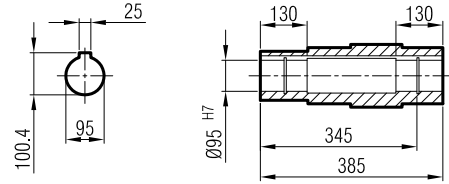
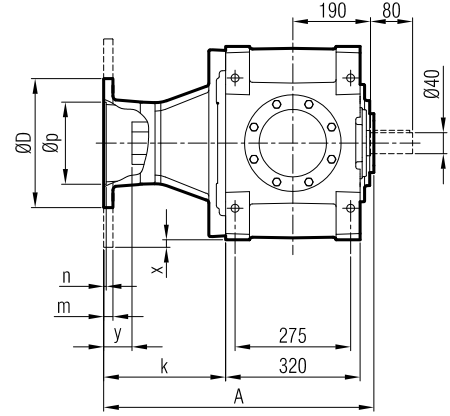
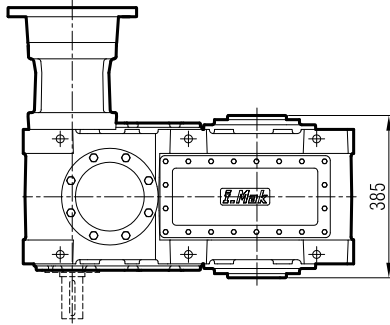
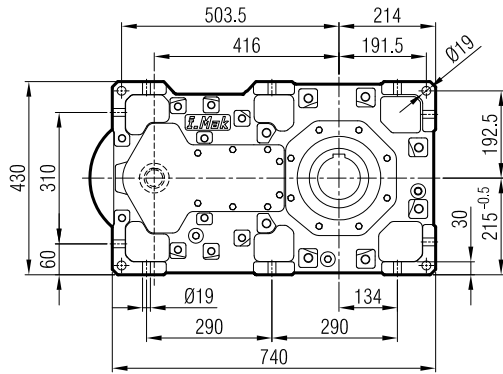


G02


MA / MK 50_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR


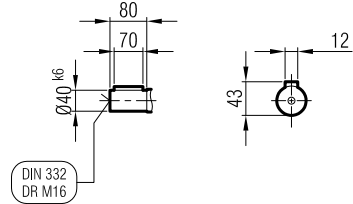
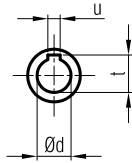
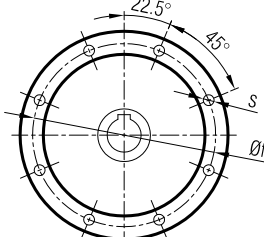
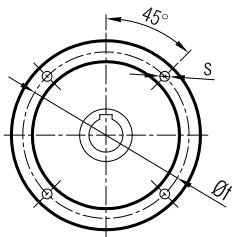


MAP 503



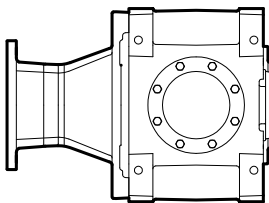
≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

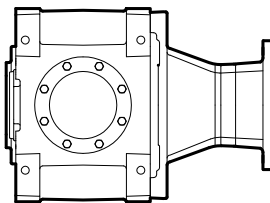


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	541	180	215	250	M12	188	15	5	28	31.3	8	-	17
132/B5	561	230	265	300	M12	208	18	6	38	41.3	10	-	37
160/B5	578	250	300	350	M14	225	20	6	42	45.3	12	-	60
180/B5	578	250	300	350	M14	225	20	6	48	51.8	14	-	60
200/B5	578	300	350	400	M16	225	22	6	55	59.3	16	-	60
225/B5	621	350	400	450	M16	268	22	6	60	64.4	18	10	80
250/B5	621	450	500	550	M16	268	25	6.5	65	69.4	18	60	75

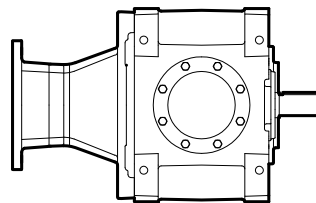
Giriş Seçenekleri / Input Options / Option d'entree



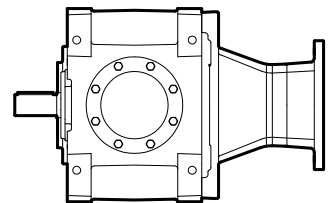
G03



G04



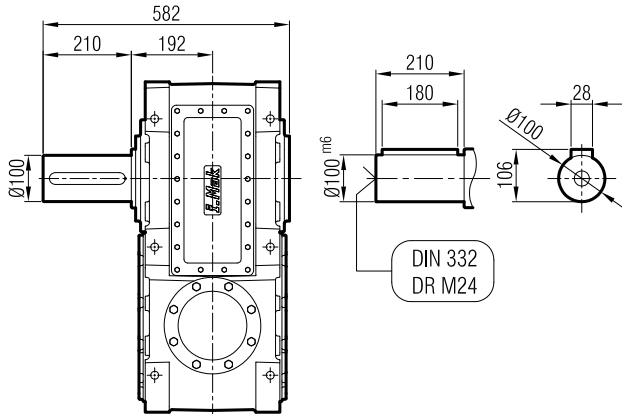
G05



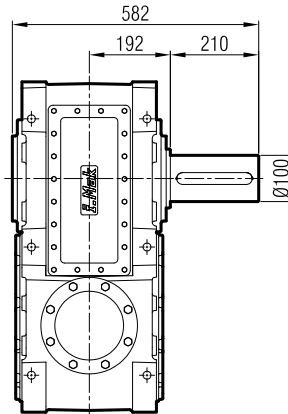
G06



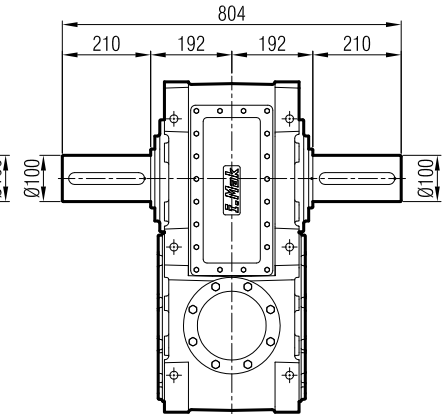
MA / MK 50_
...-SL



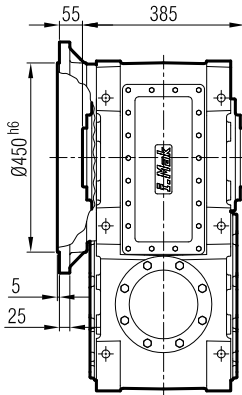
...-SR



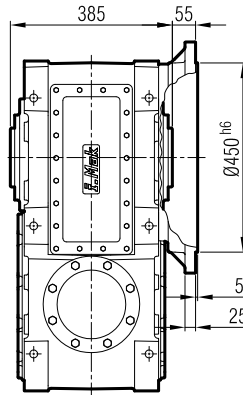
...-SD



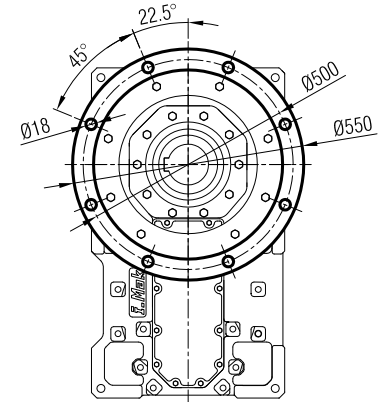
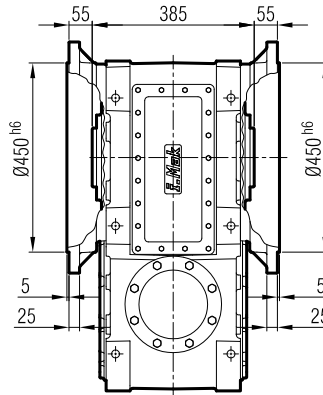
...-FL



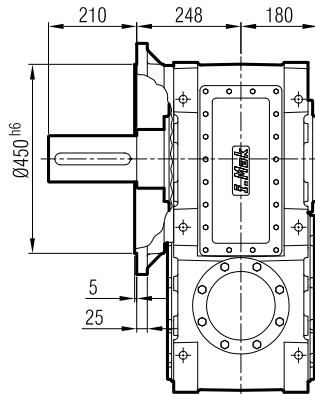
...-FR



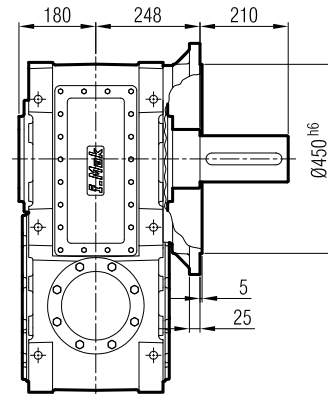
...-FD



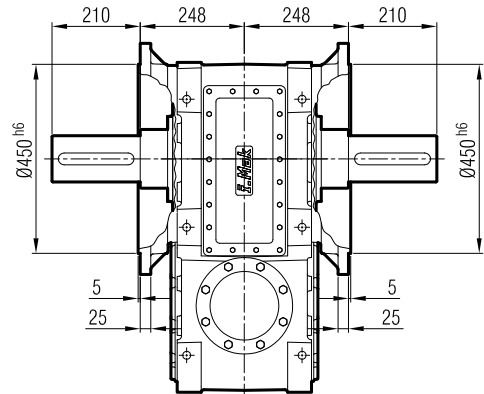
...-FL-SL



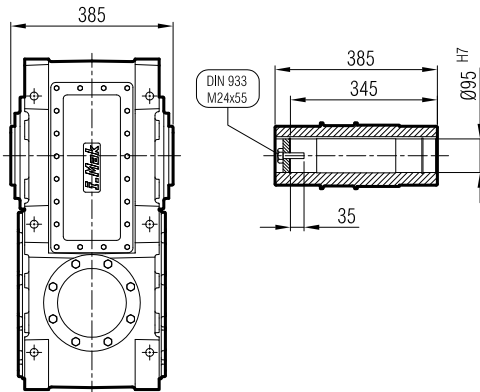
...-FR-SR



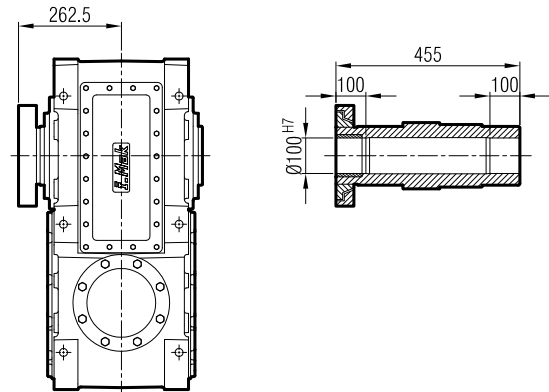
...-FD-SD



...-H

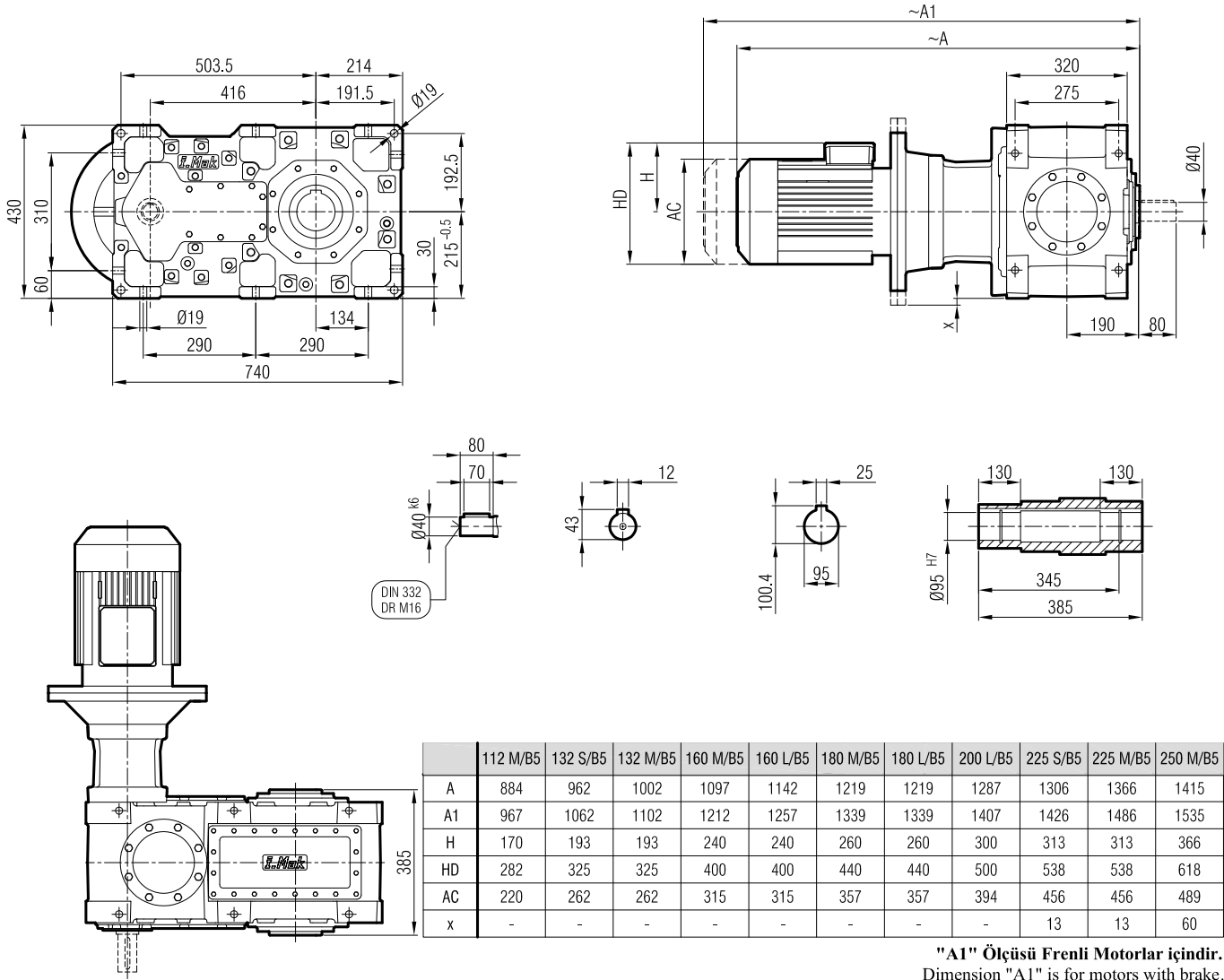


...-SDL / SDR





MAM 503

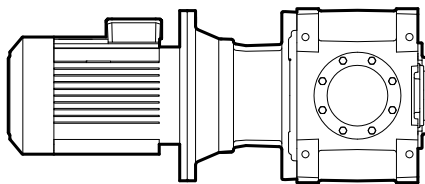


"A1" Ölçüsü Frenli Motorlar içindir.

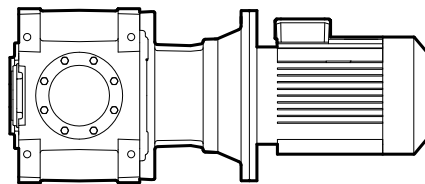
Dimension "A1" is for motors with brake.

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

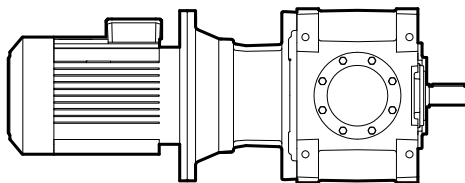
Giriş Seçenekleri / Input Options / Option d'entree



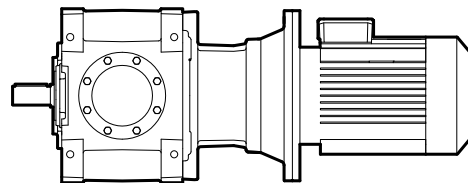
G03



G04



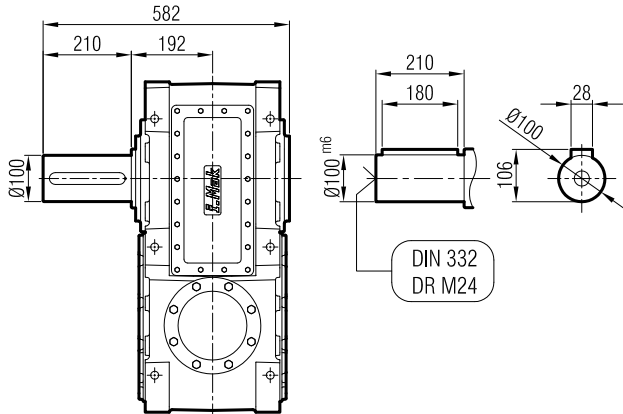
G05



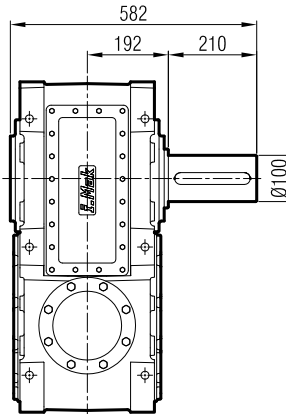
G06



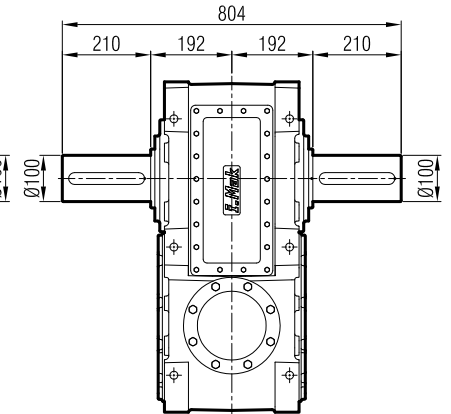
MA / MK 50_
...-SL



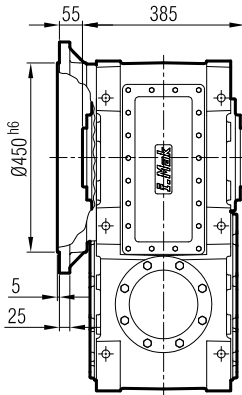
...-SR



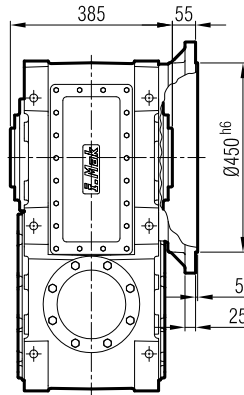
...-SD



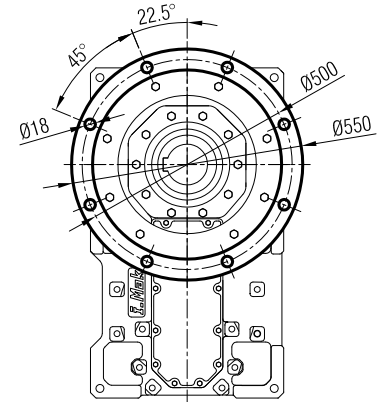
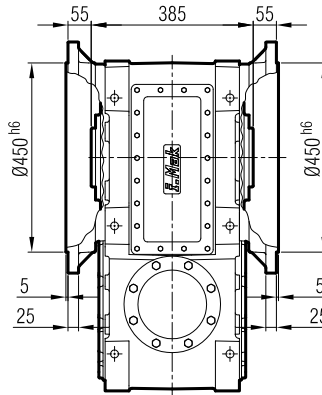
...-FL



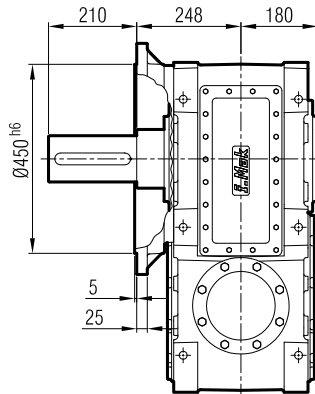
...-FR



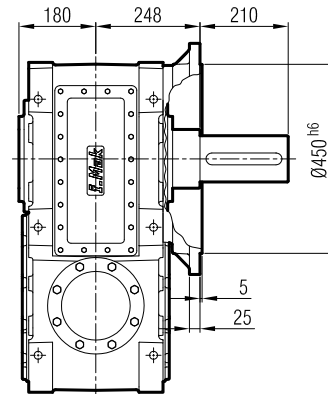
...-FD



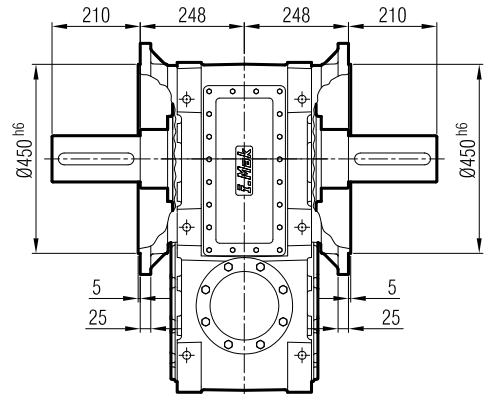
...-FL-SL



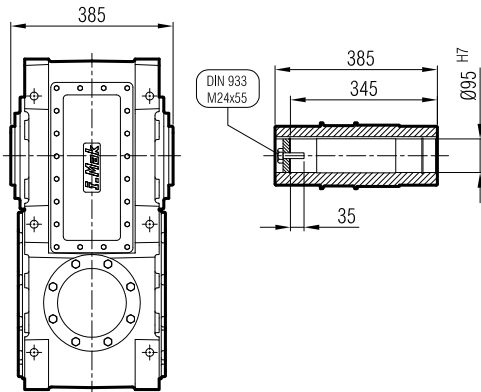
...-FR-SR



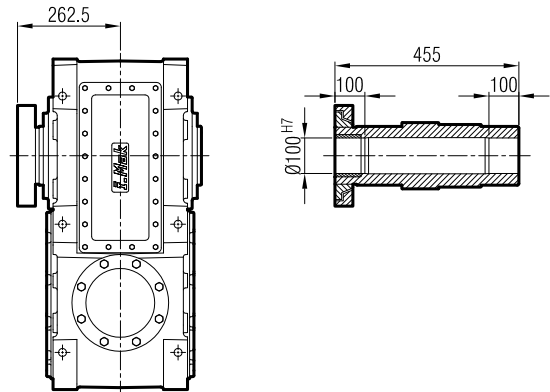
...-FD-SD



...-H

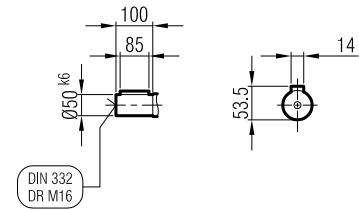
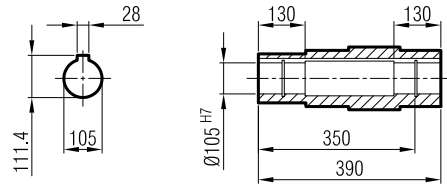
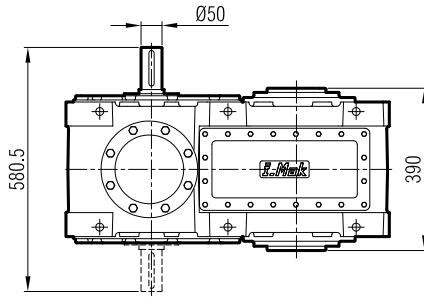
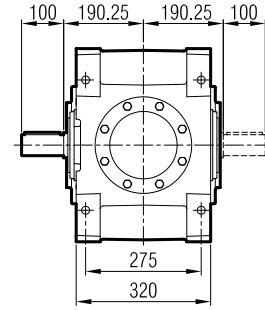
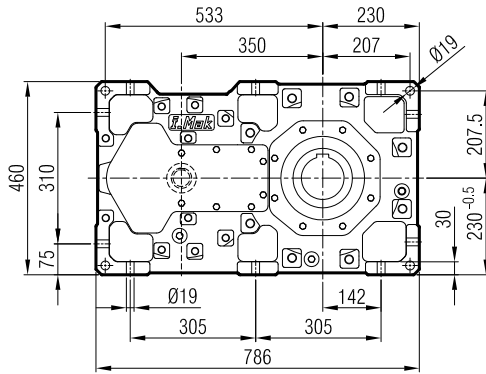


...-SDL / SDR

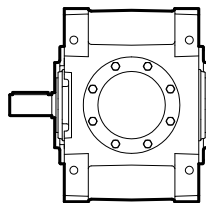




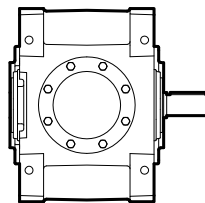
MA 602



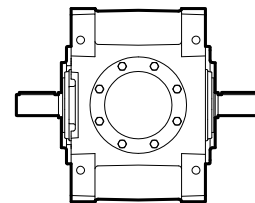
Giriş Seçenekleri / Input Options / Option d'entree



G00



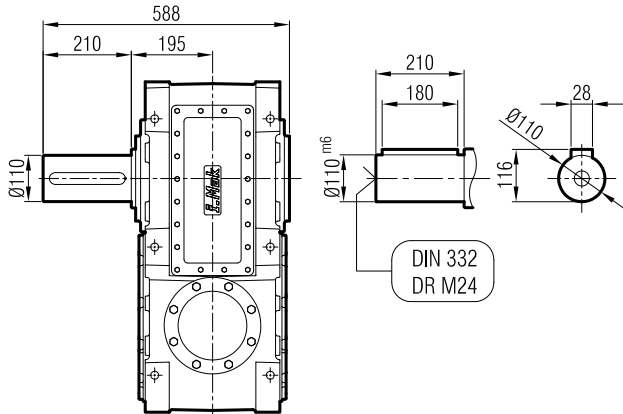
G01



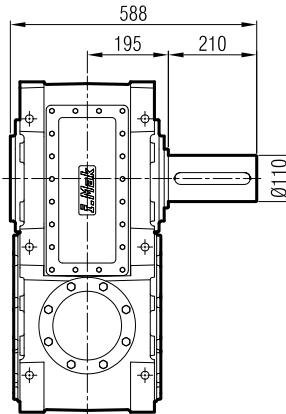
G02



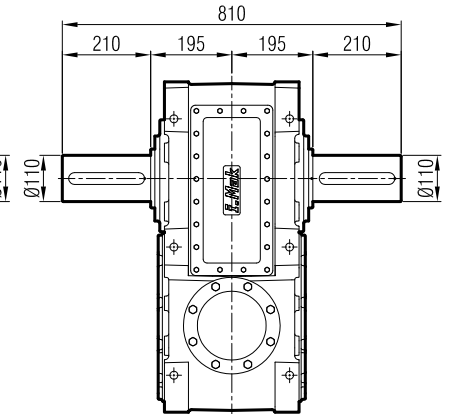
MA / MK 60_
...-SL



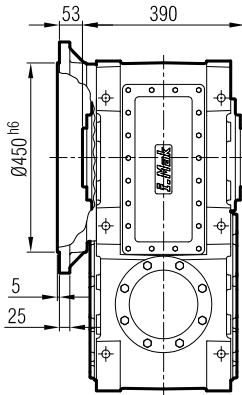
...-SR



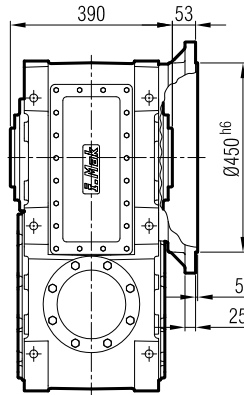
...-SD



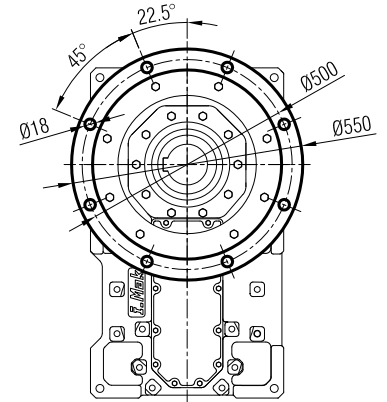
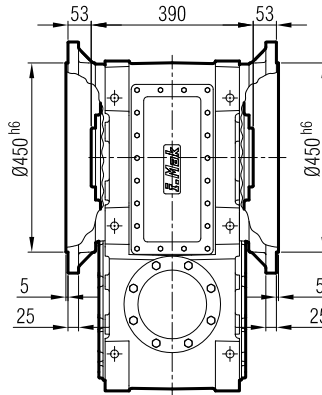
...-FL



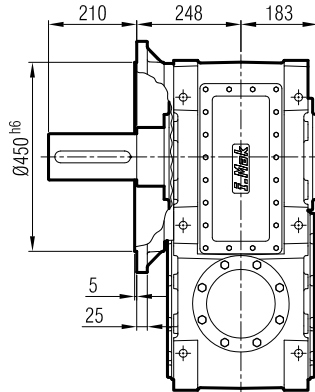
...-FR



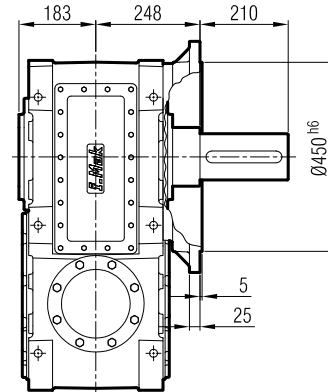
...-FD



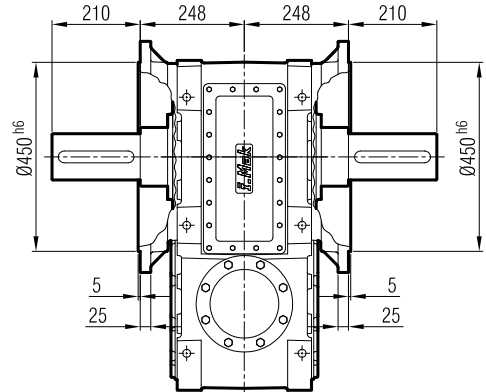
...-FL-SL



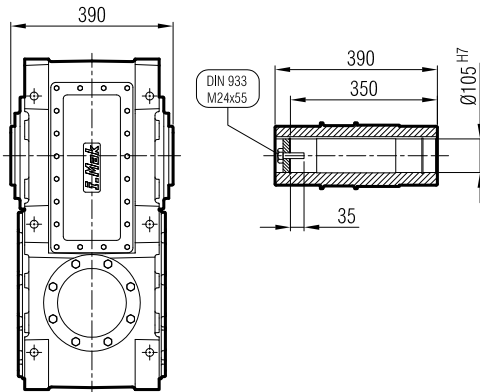
...-FR-SR



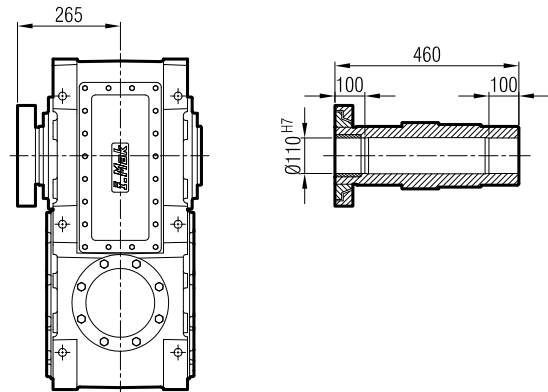
...-FD-SD



...-H

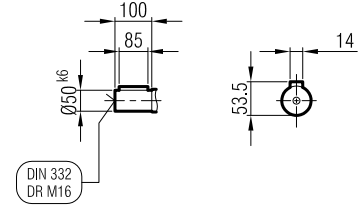
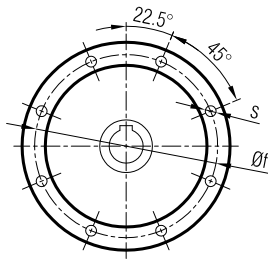
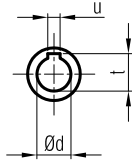
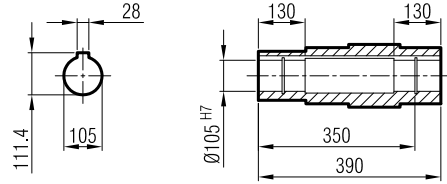
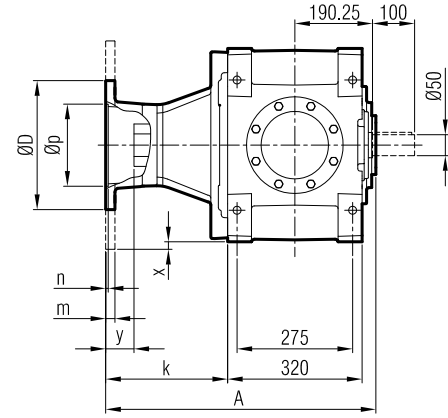
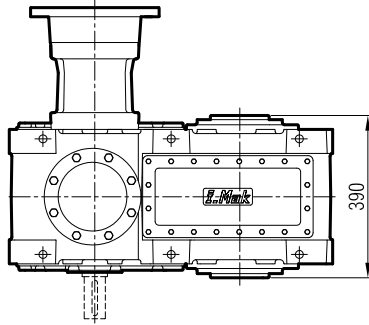
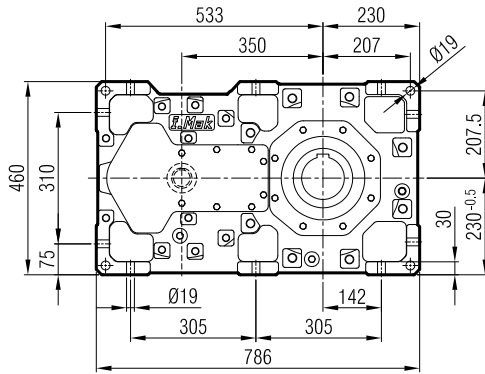


...-SDL / SDR



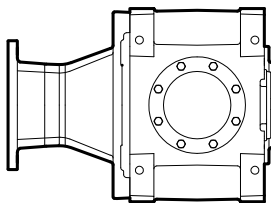


MAP 602

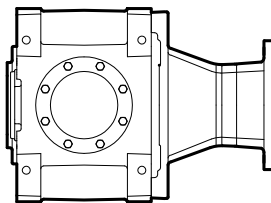


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
225/B5	642	350	400	450	M16	284	22	6	60	64.4	18	-	75
250/B5	642	450	500	550	M16	284	25	6.5	65	69.4	18	45	75
280/B5	642	450	500	550	M16	284	25	6.5	75	75.9	20	45	65

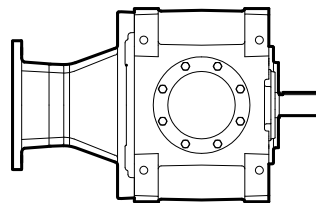
Giriş Seçenekleri / Input Options / Option d'entree



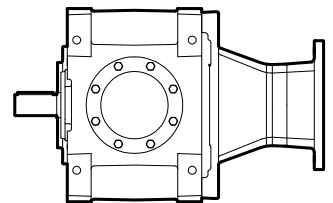
G03



G04



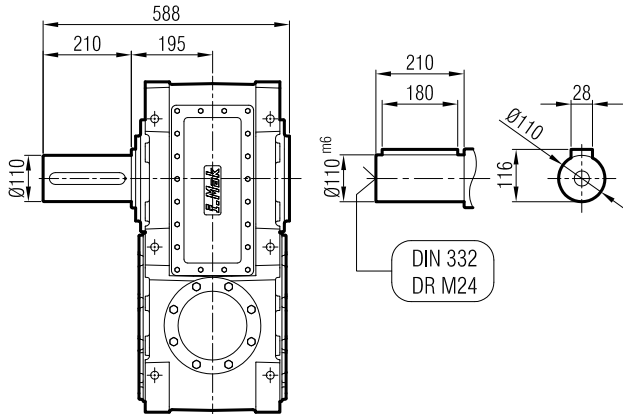
G05



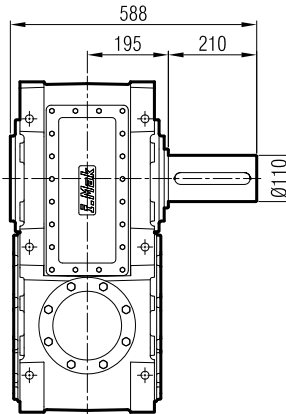
G06



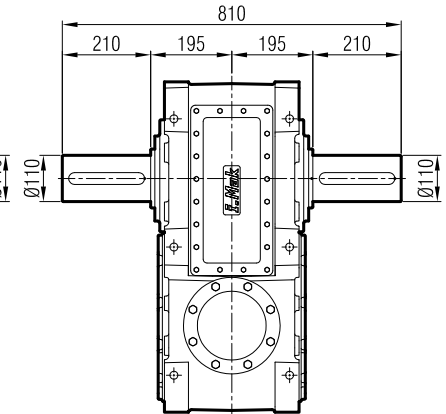
MA / MK 60_
...-SL



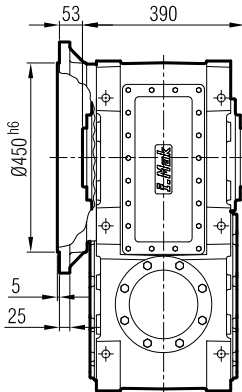
...-SR



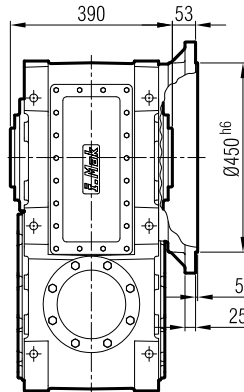
...-SD



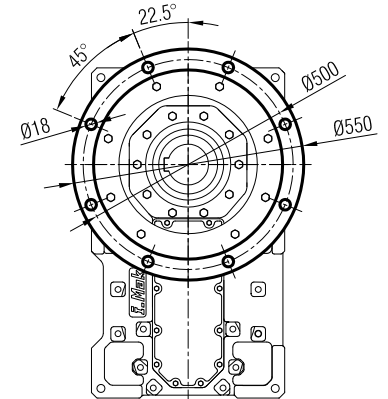
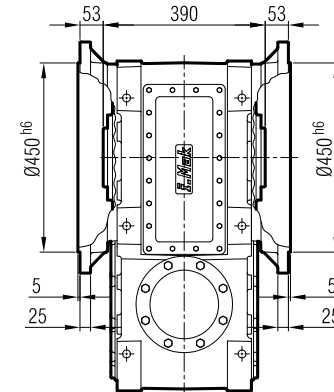
...-FL



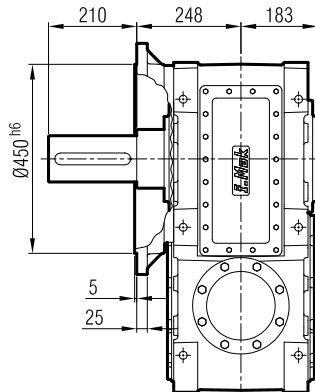
...-FR



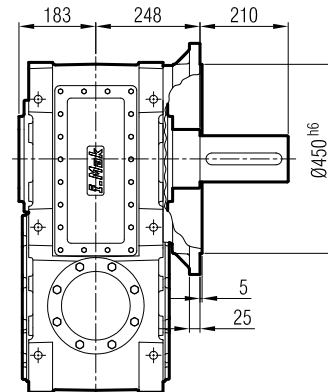
...-FD



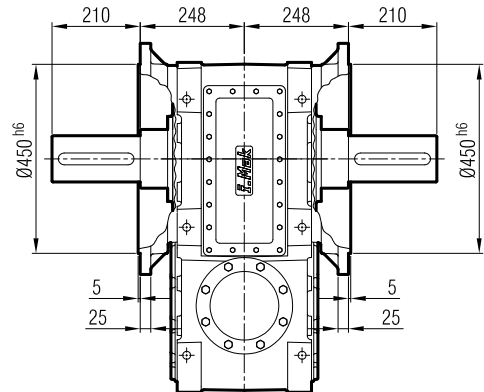
...-FL-SL



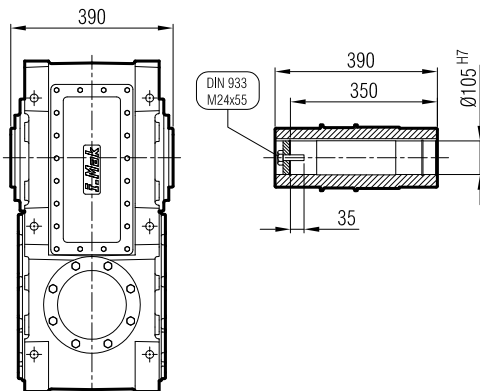
...-FR-SR



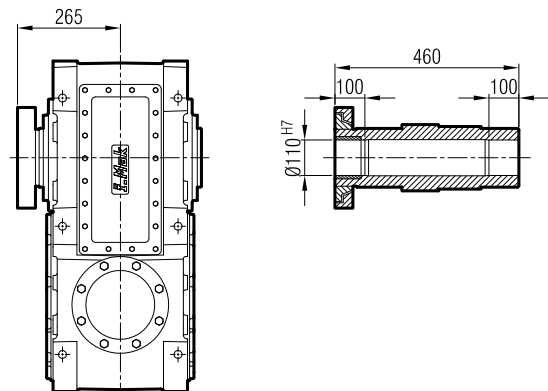
...-FD-SD



...-H

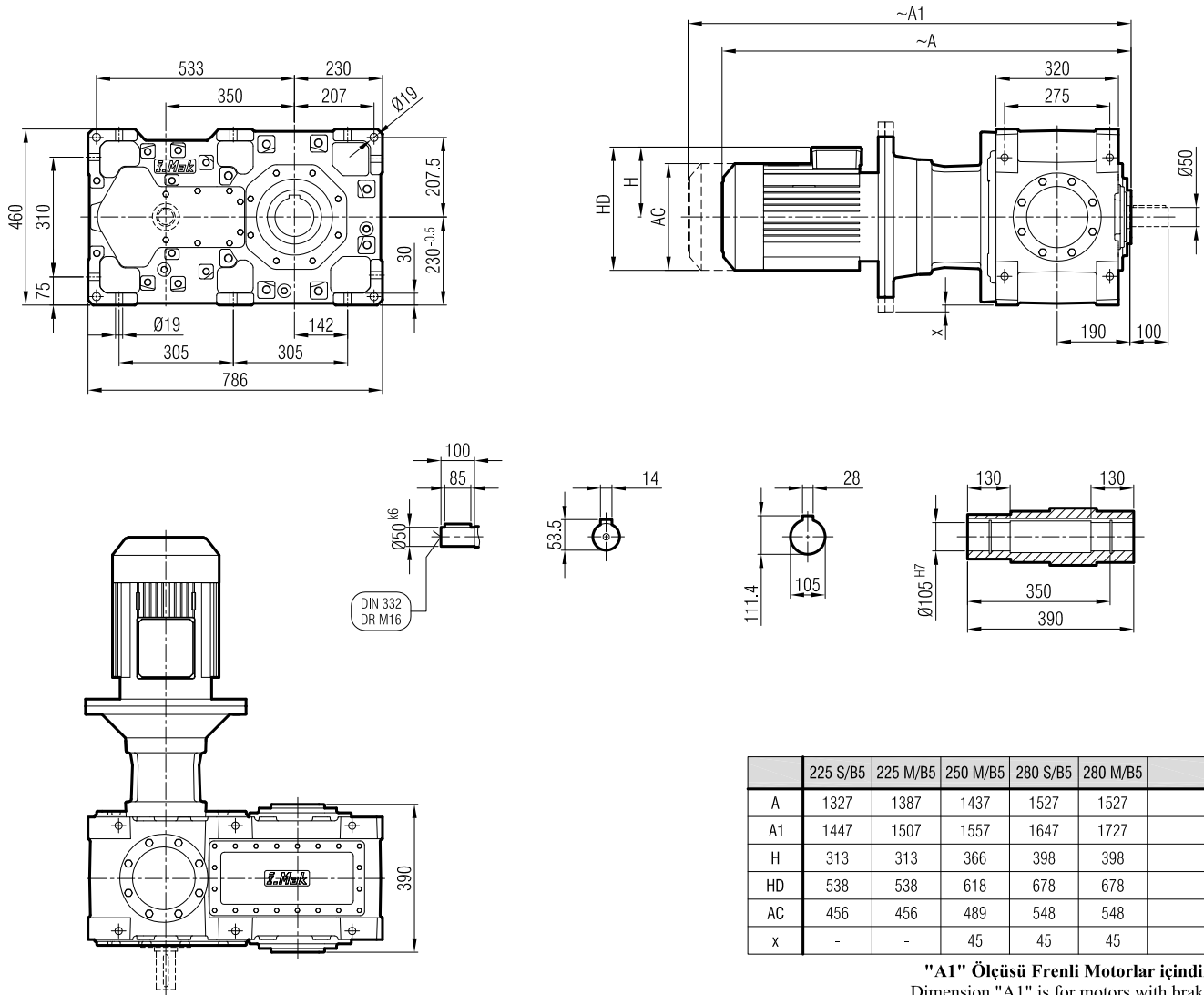


...-SDL / SDR





MAM 602

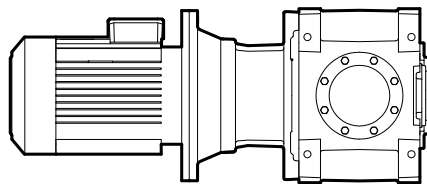


"A1" Ölçüsü Frenli Motorlar içindir.

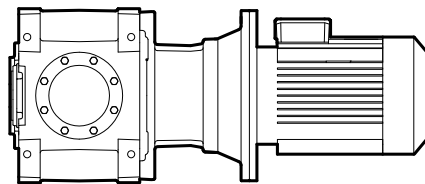
Dimension "A1" is for motors with brake.

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

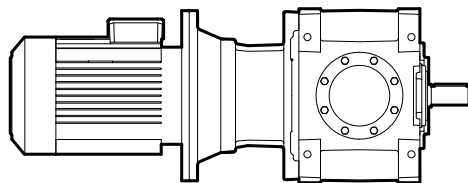
Giriş Seçenekleri / Input Options / Option d'entree



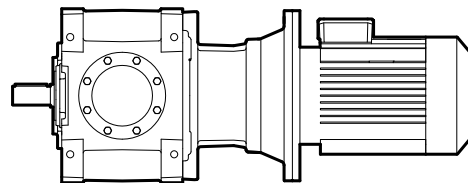
G03



G04



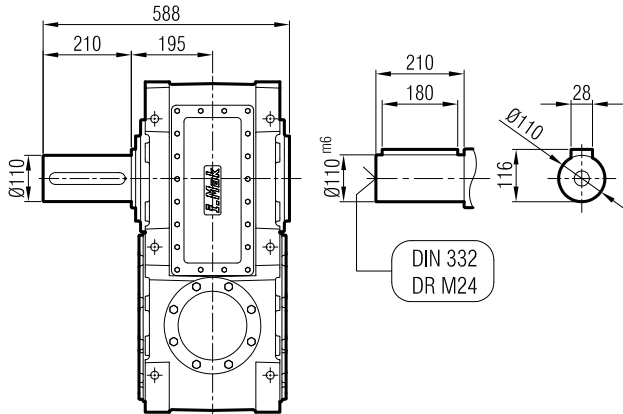
G05



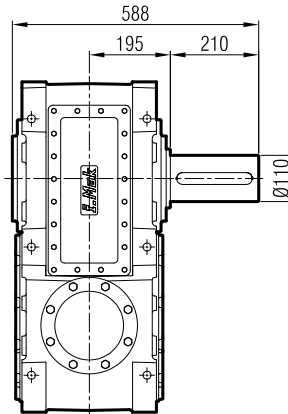
G06



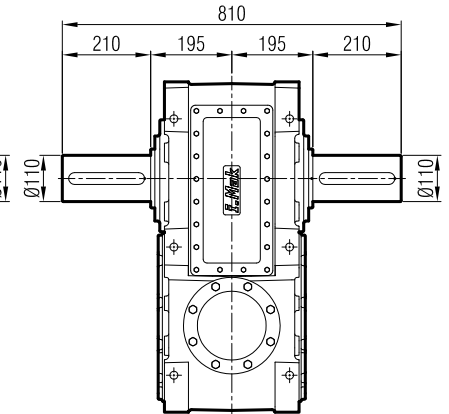
MA / MK 60_
...-SL



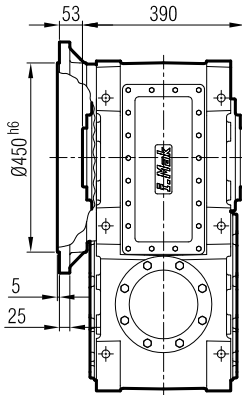
...-SR



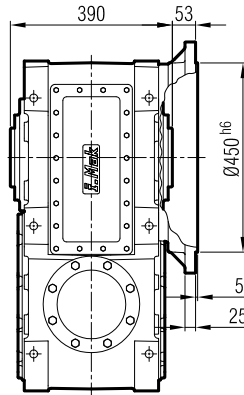
...-SD



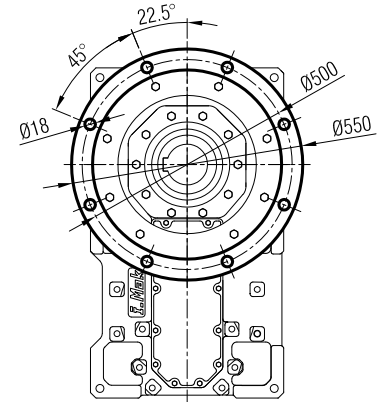
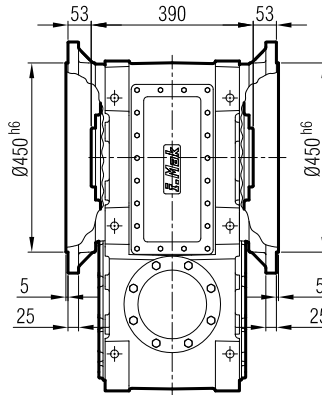
...-FL



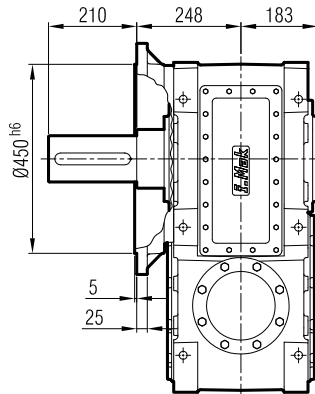
...-FR



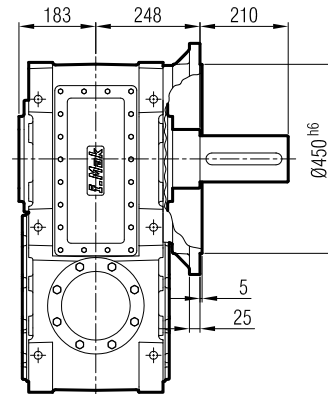
...-FD



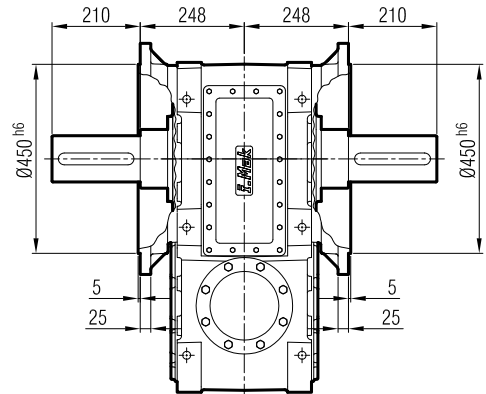
...-FL-SL



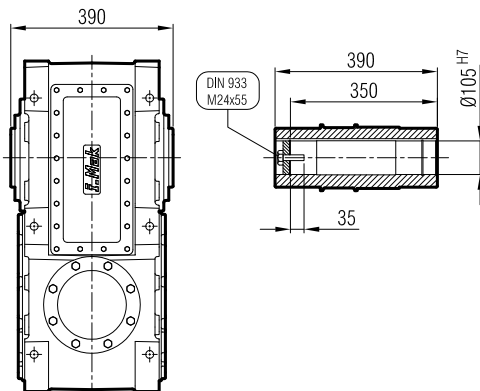
...-FR-SR



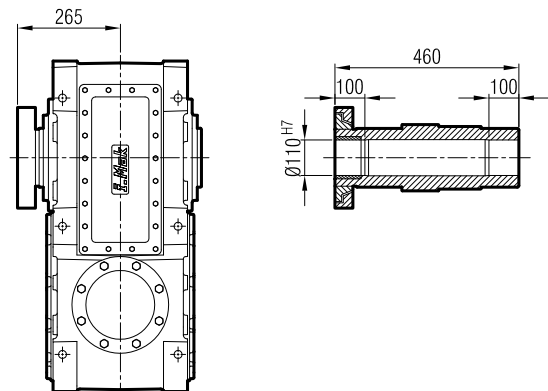
...-FD-SD



...-H

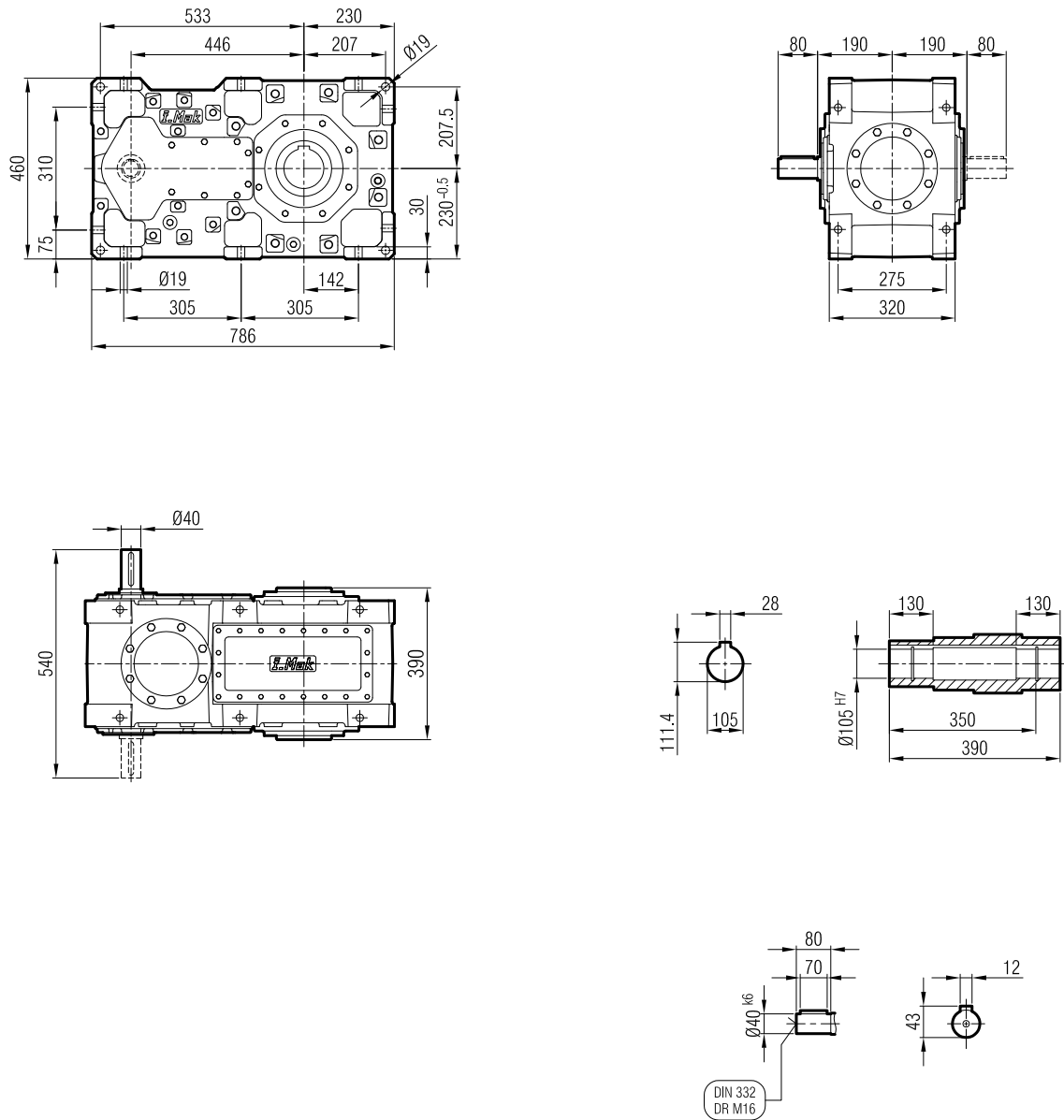


...-SDL / SDR

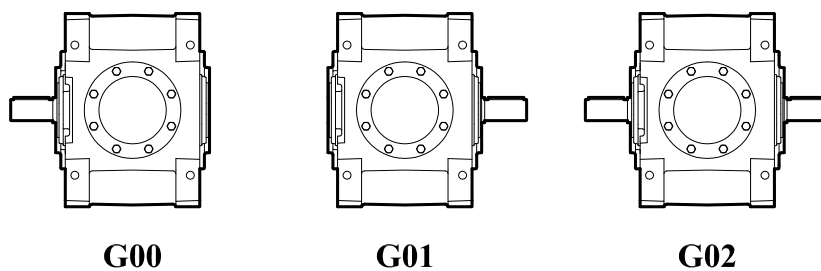




MA 603

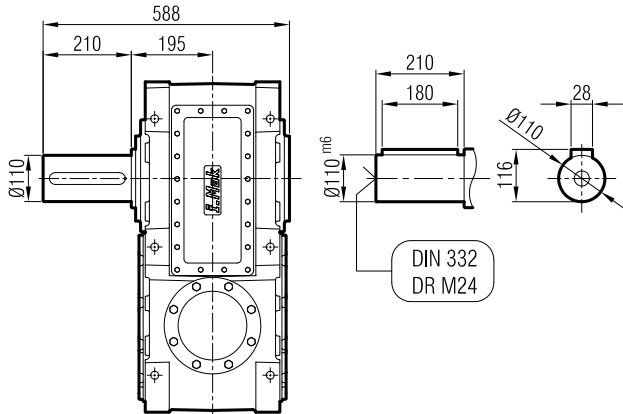


Giriş Seçenekleri / Input Options / Option d'entree

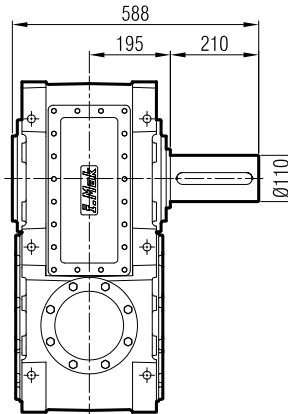




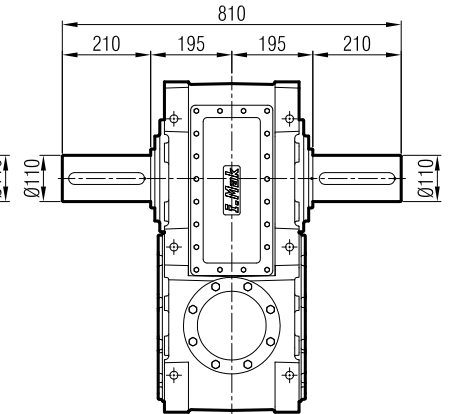
MA / MK 60_
...-SL



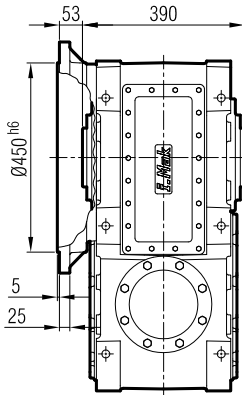
...-SR



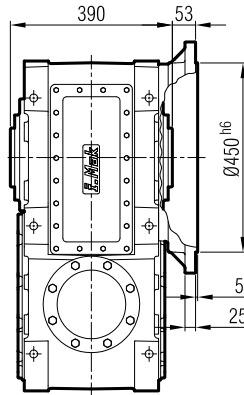
...-SD



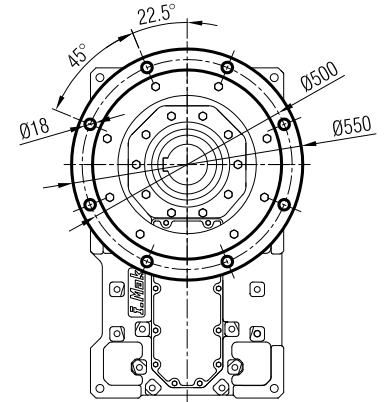
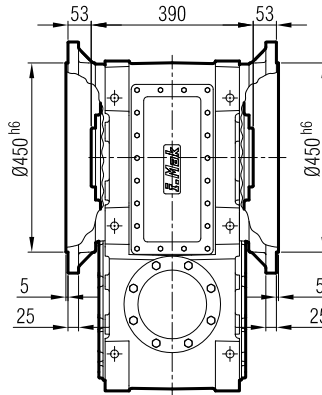
...-FL



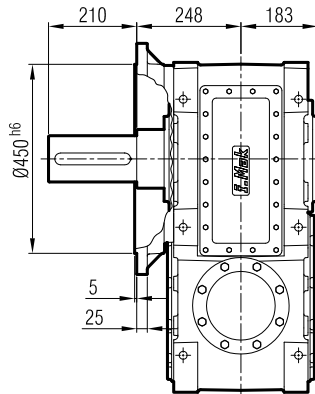
...-FR



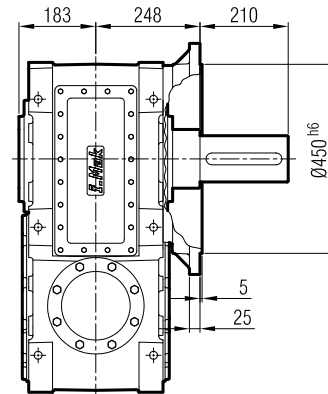
...-FD



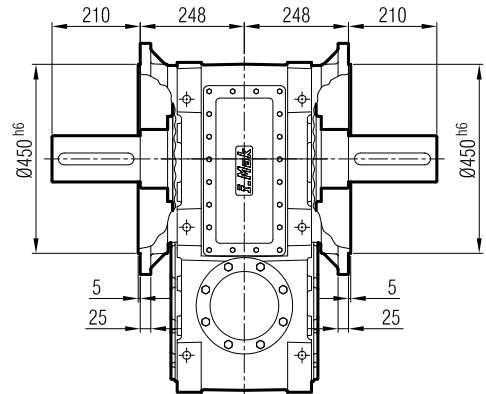
...-FL-SL



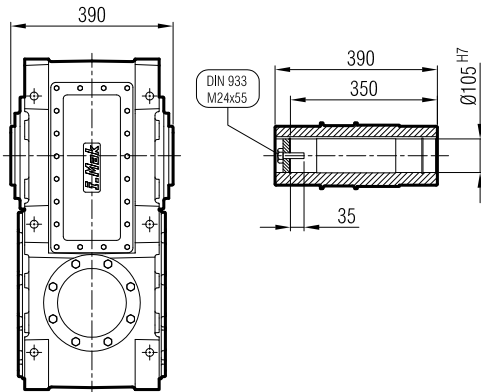
...-FR-SR



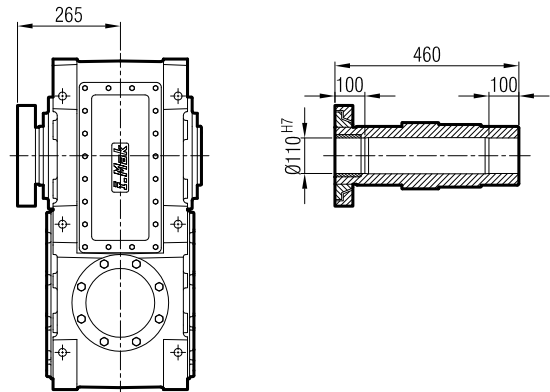
...-FD-SD



...-H

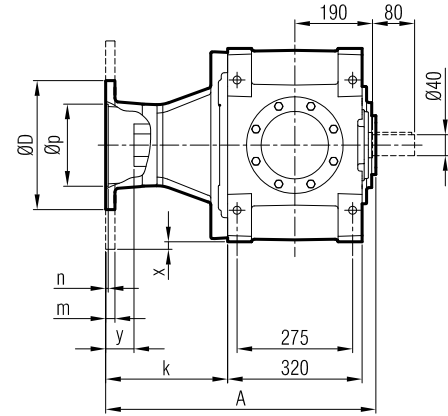
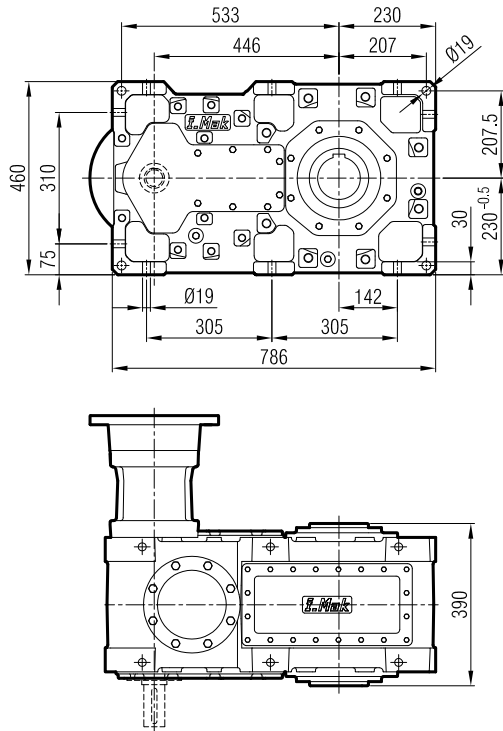


...-SDL / SDR



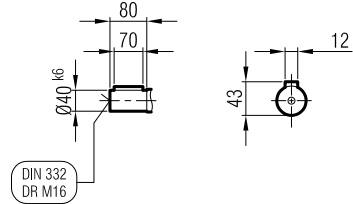
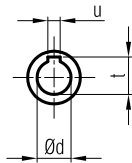
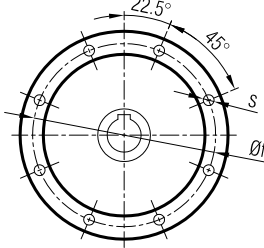
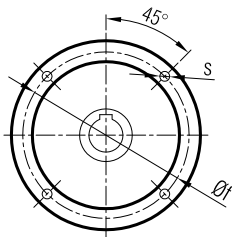


MAP 603



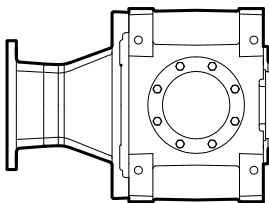
≤ 200 B5 **Tip/Type/Typ**

≥ 225 B5 **Tip/Type/Typ**

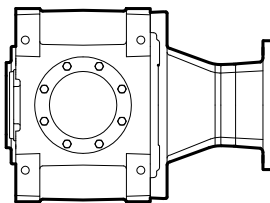


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
132/B5	563	230	265	300	M12	208	18	6	38	41.3	10	-	37
160/B5	580	250	300	350	M14	225	20	6	42	45.3	12	-	60
180/B5	580	250	300	350	M14	225	20	6	48	51.8	14	-	60
200/B5	580	300	350	400	M16	225	22	6	55	59.3	16	-	60
225/B5	623	350	400	450	M16	268	22	6	60	64.4	18	-	80
250/B5	623	450	500	550	M16	268	25	6.5	65	69.4	18	45	75

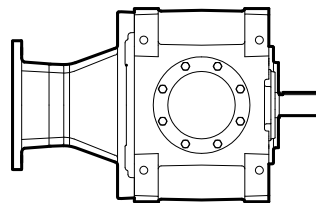
Giriş Seçenekleri / Input Options / Option d'entree



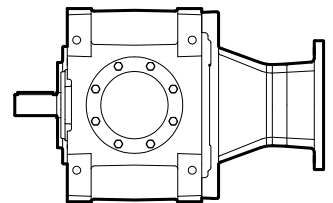
G03



G04



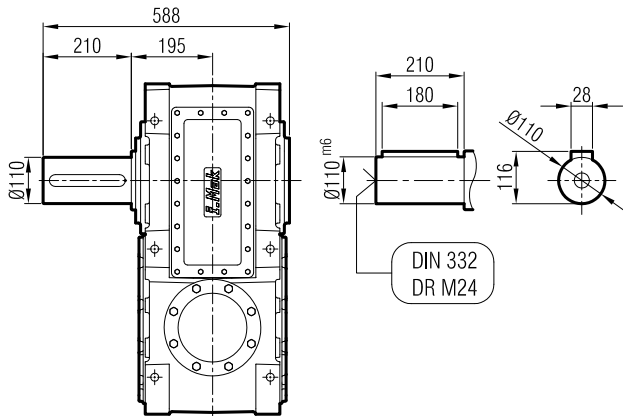
G05



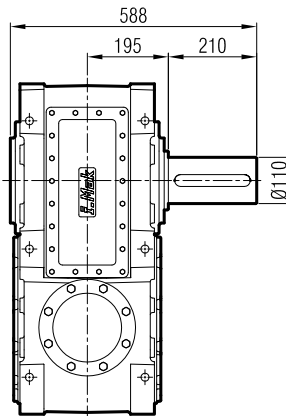
G06



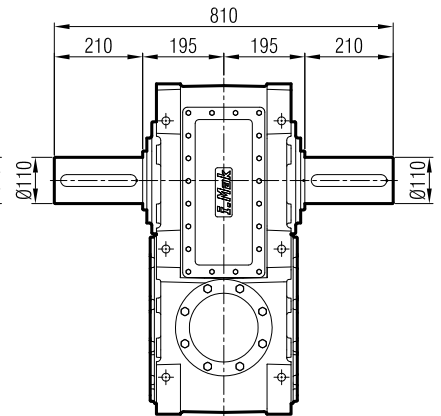
MA / MK 60_
...-SL



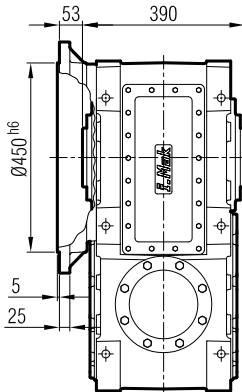
...-SR



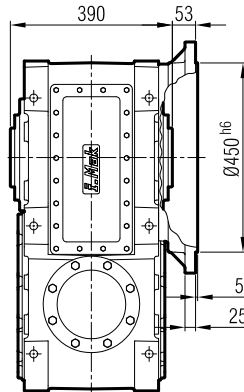
...-SD



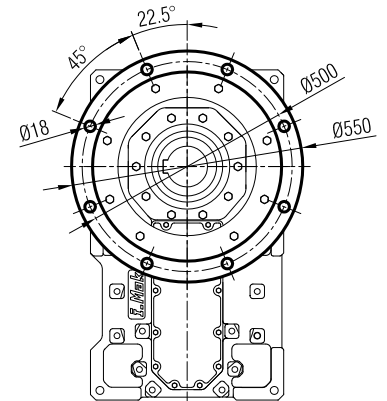
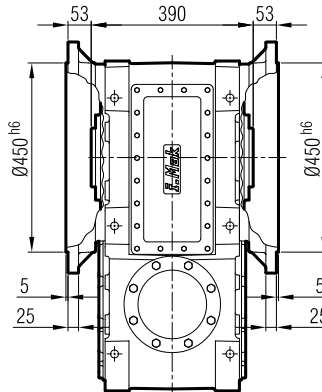
...-FL



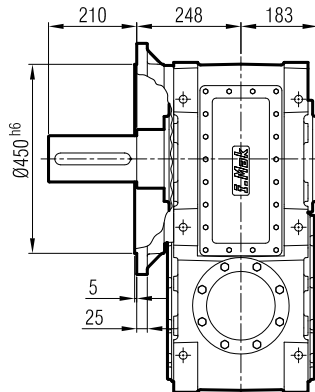
...-FR



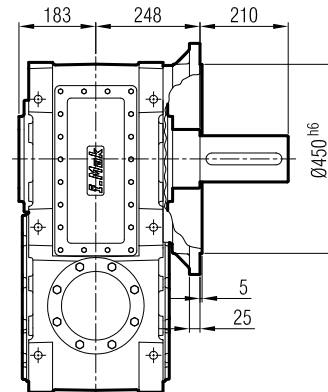
...-FD



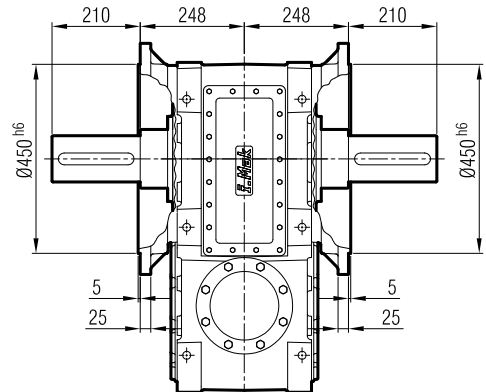
...-FL-SL



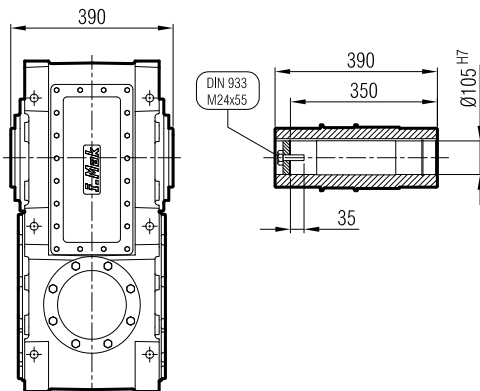
...-FR-SR



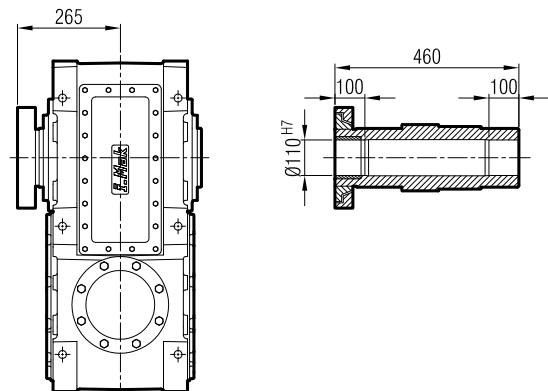
...-FD-SD



...-H

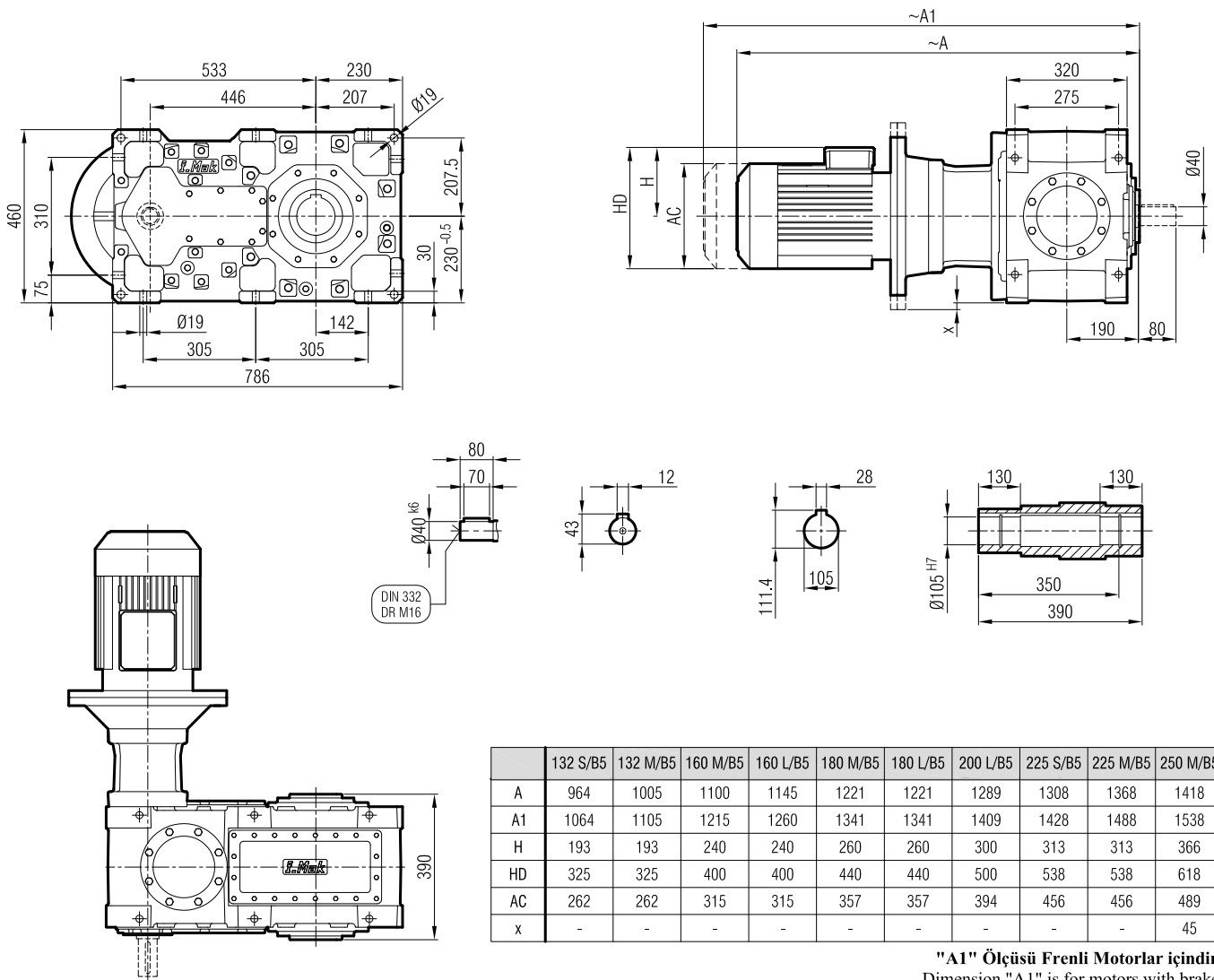


...-SDL / SDR





MAM 603

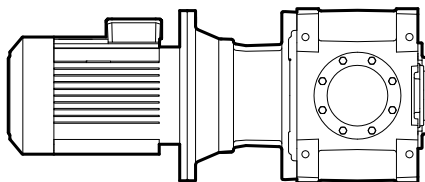
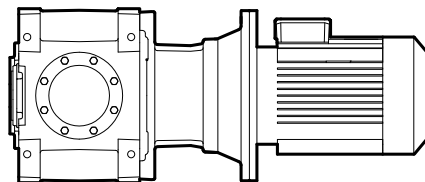


"A1" Ölçüsü Frenli Motorlar içindir.

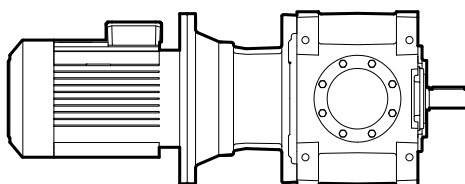
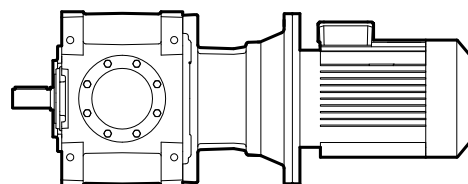
Dimension "A1" is for motors with brake.

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

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

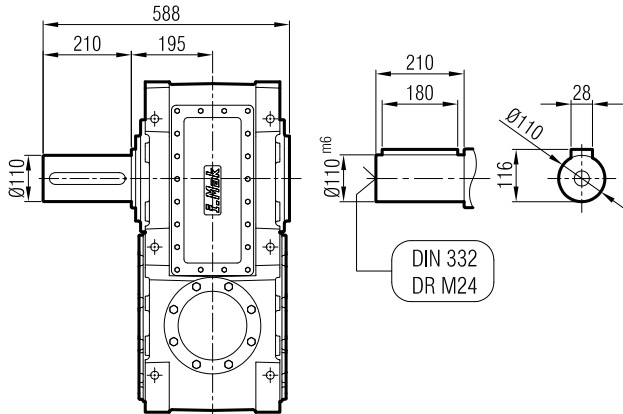
G04

**G05**

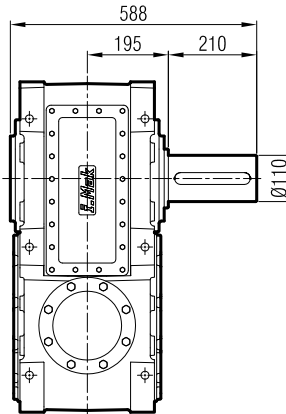
G06



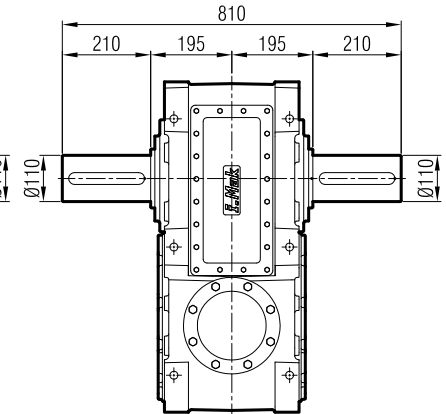
MA / MK 60_
...-SL



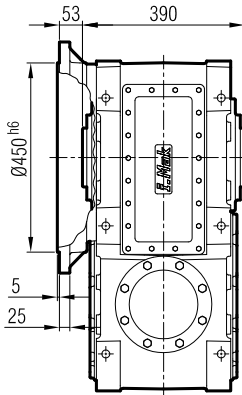
...-SR



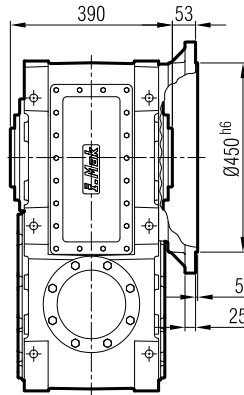
...-SD



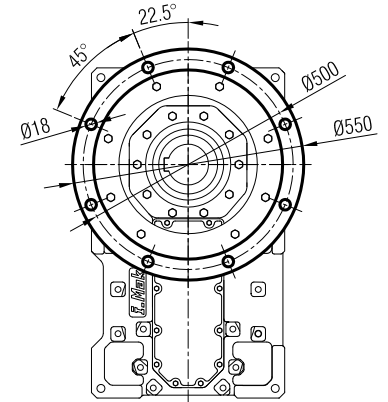
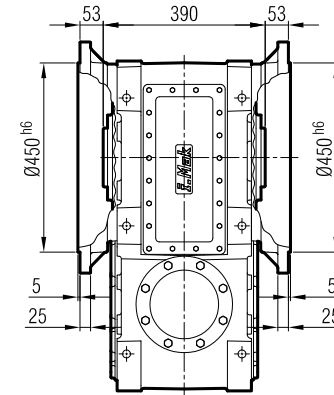
...-FL



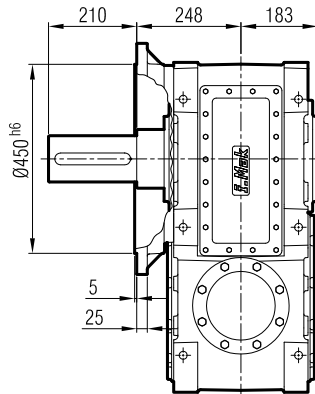
...-FR



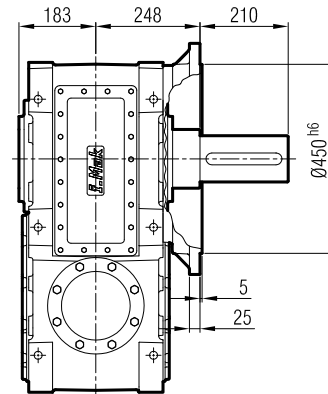
...-FD



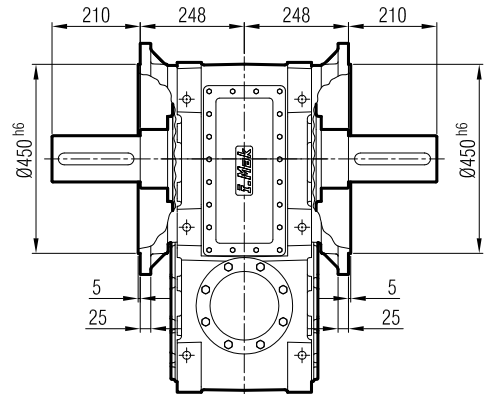
...-FL-SL



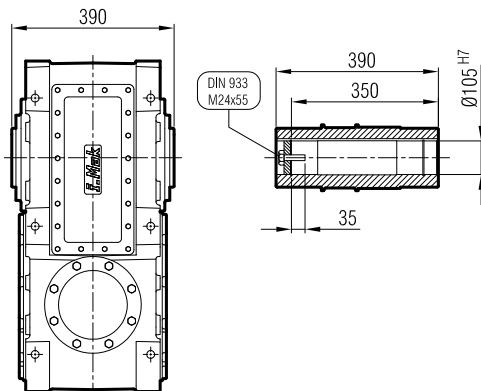
...-FR-SR



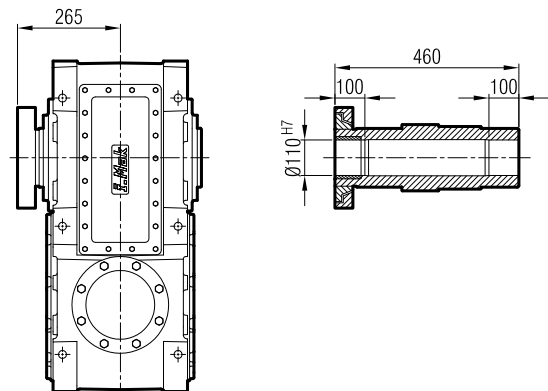
...-FD-SD



...-H

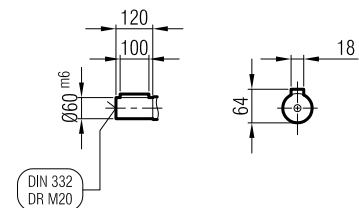
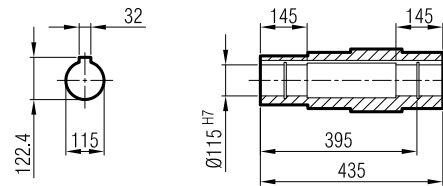
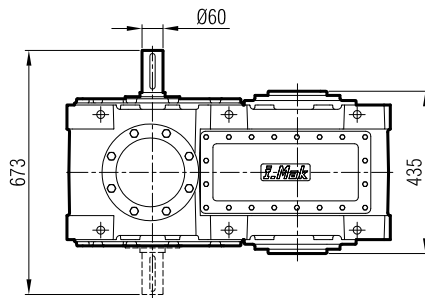
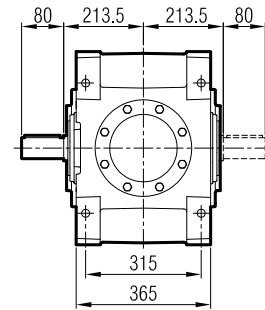
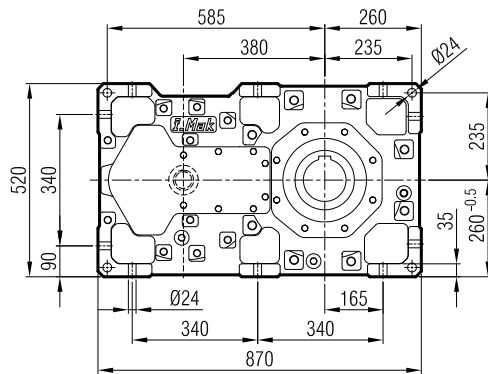


...-SDL / SDR

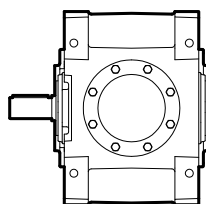




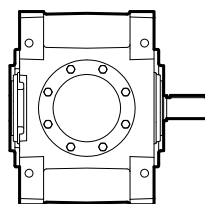
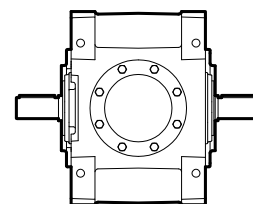
MA 702



Giriş Seçenekleri / Input Options / Option d'entree



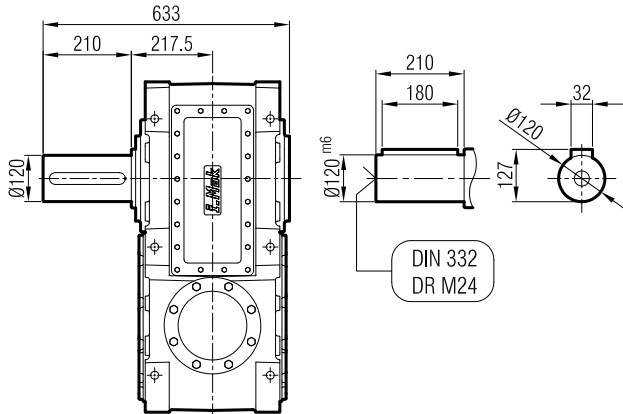
G00

**G01**

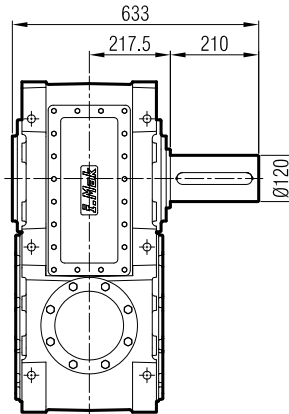
G02



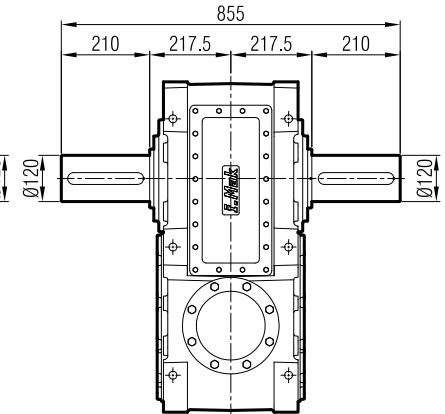
MA / MK 70_
...-SL



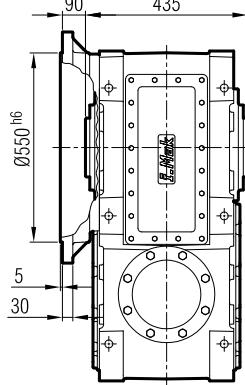
...-SR



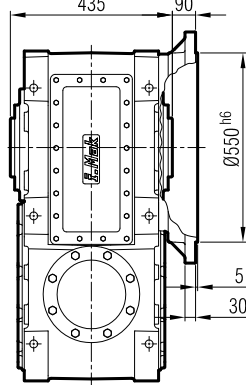
...-SD



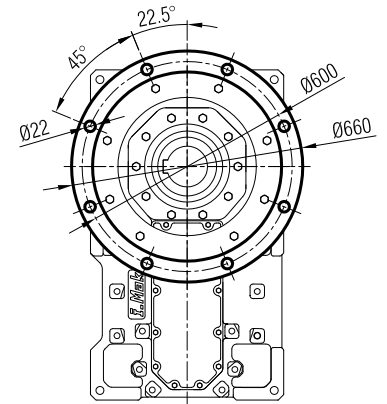
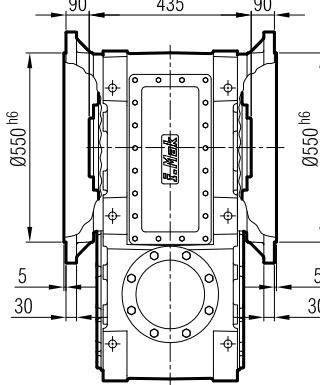
...-FL



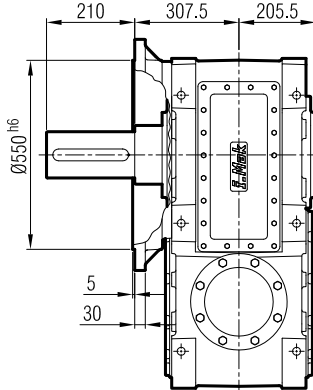
...-FR



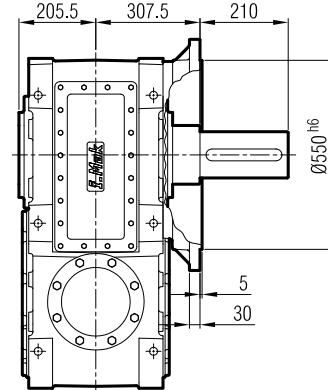
...-FD



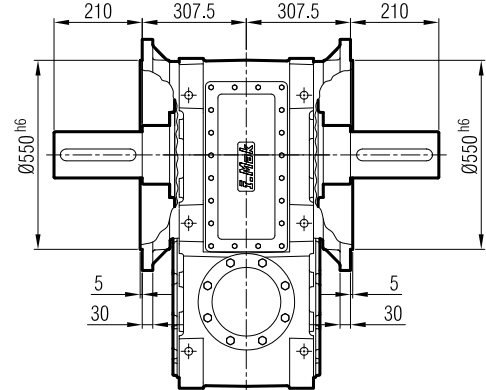
...-FL-SL



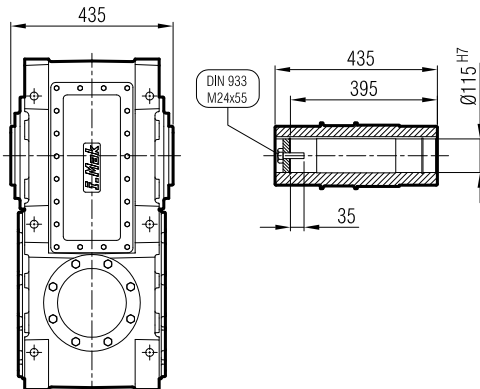
...-FR-SR



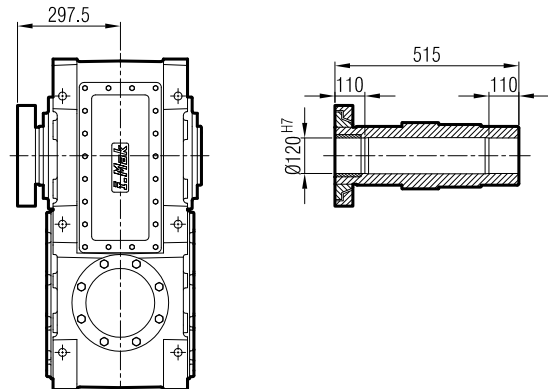
...-FD-SD

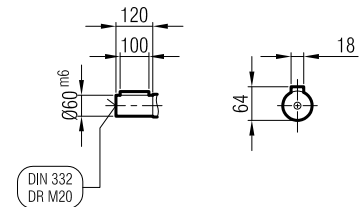
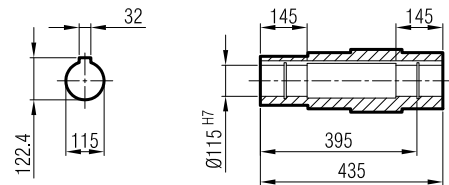
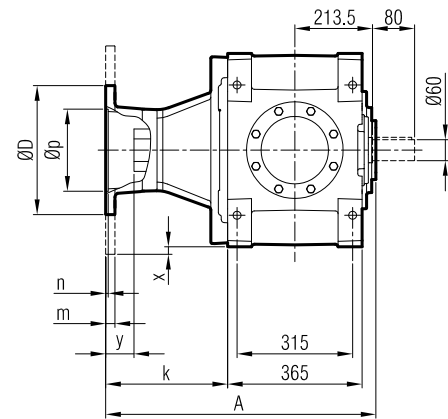
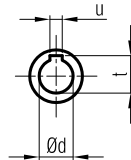
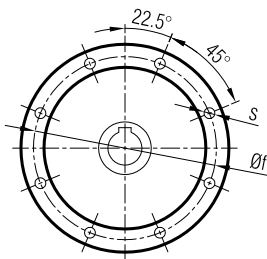
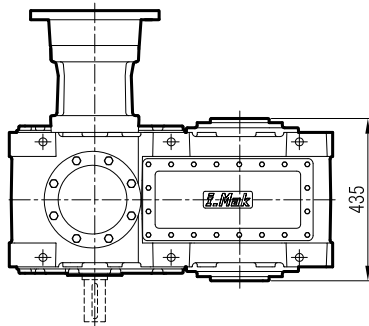
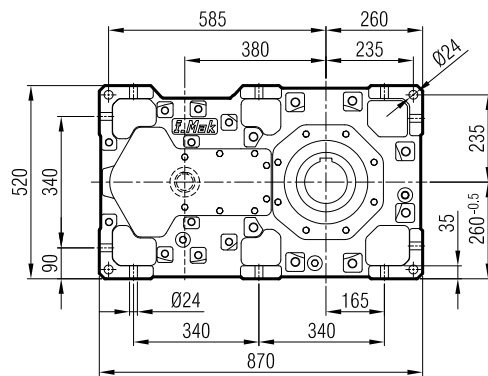


...-H



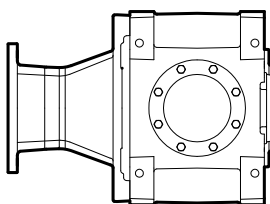
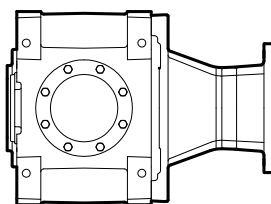
...-SDL / SDR



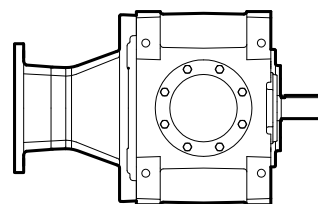
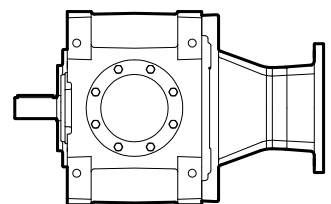
**MAP 702**

	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
225/B5	717	350	400	450	M16	317	22	6	60	64.4	18	-	65
250/B5	717	450	500	550	M16	317	25	6.5	65	69.4	18	15	65
280/B5	717	450	500	550	M16	317	25	6.5	75	75.9	20	15	65
315/B5	747	550	600	660	M24	347	30	7	85	90.4	22	70	90

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

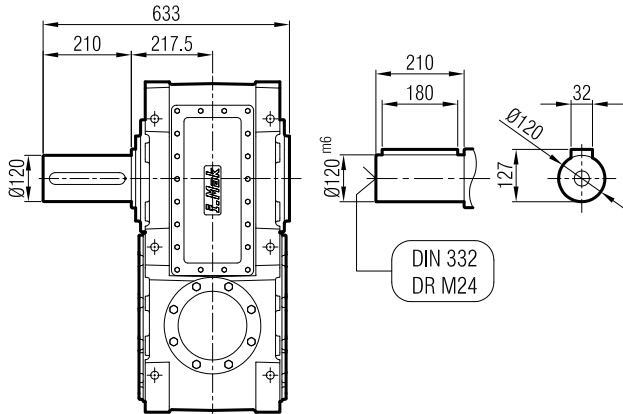
G04

**G05**

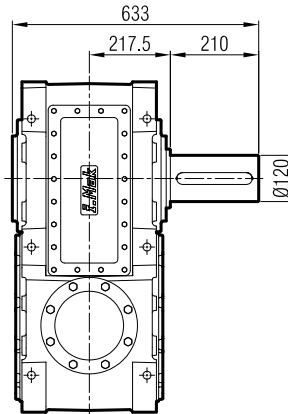
G06



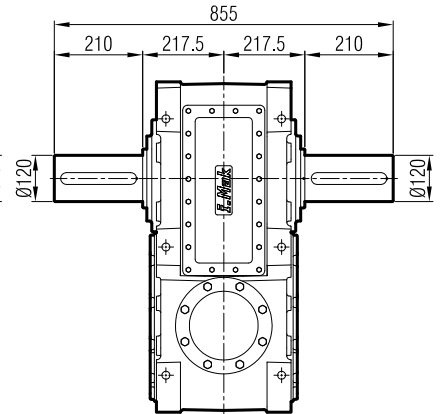
MA / MK 70_
...-SL



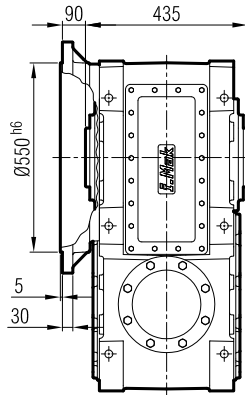
...-SR



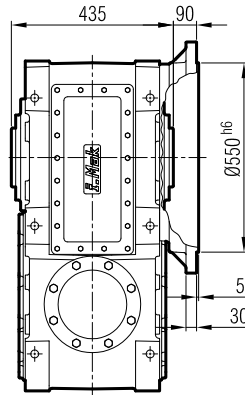
...-SD



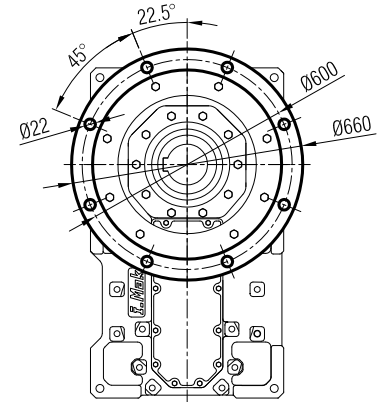
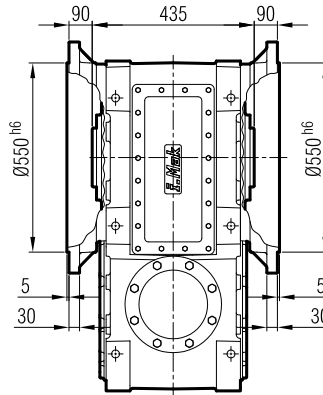
...-FL



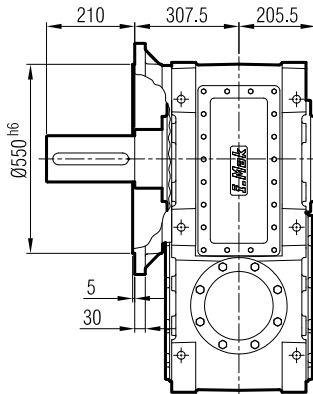
...-FR



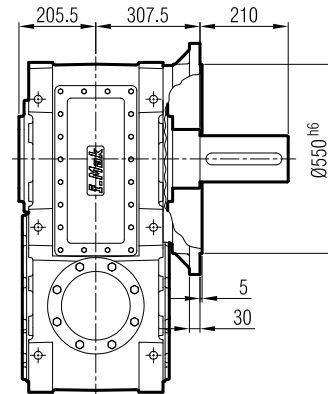
...-FD



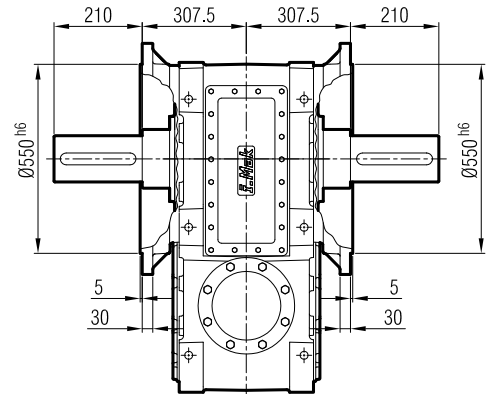
...-FL-SL



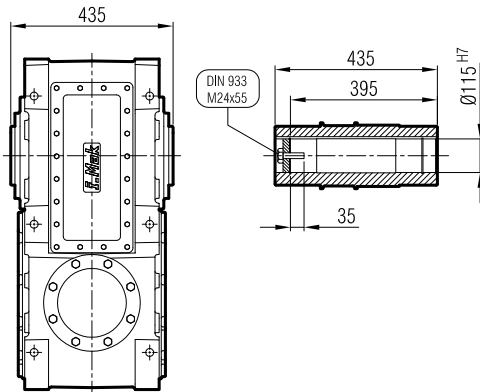
...-FR-SR



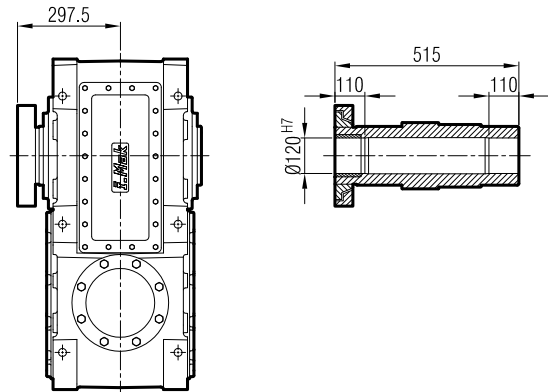
...-FD-SD



...-H

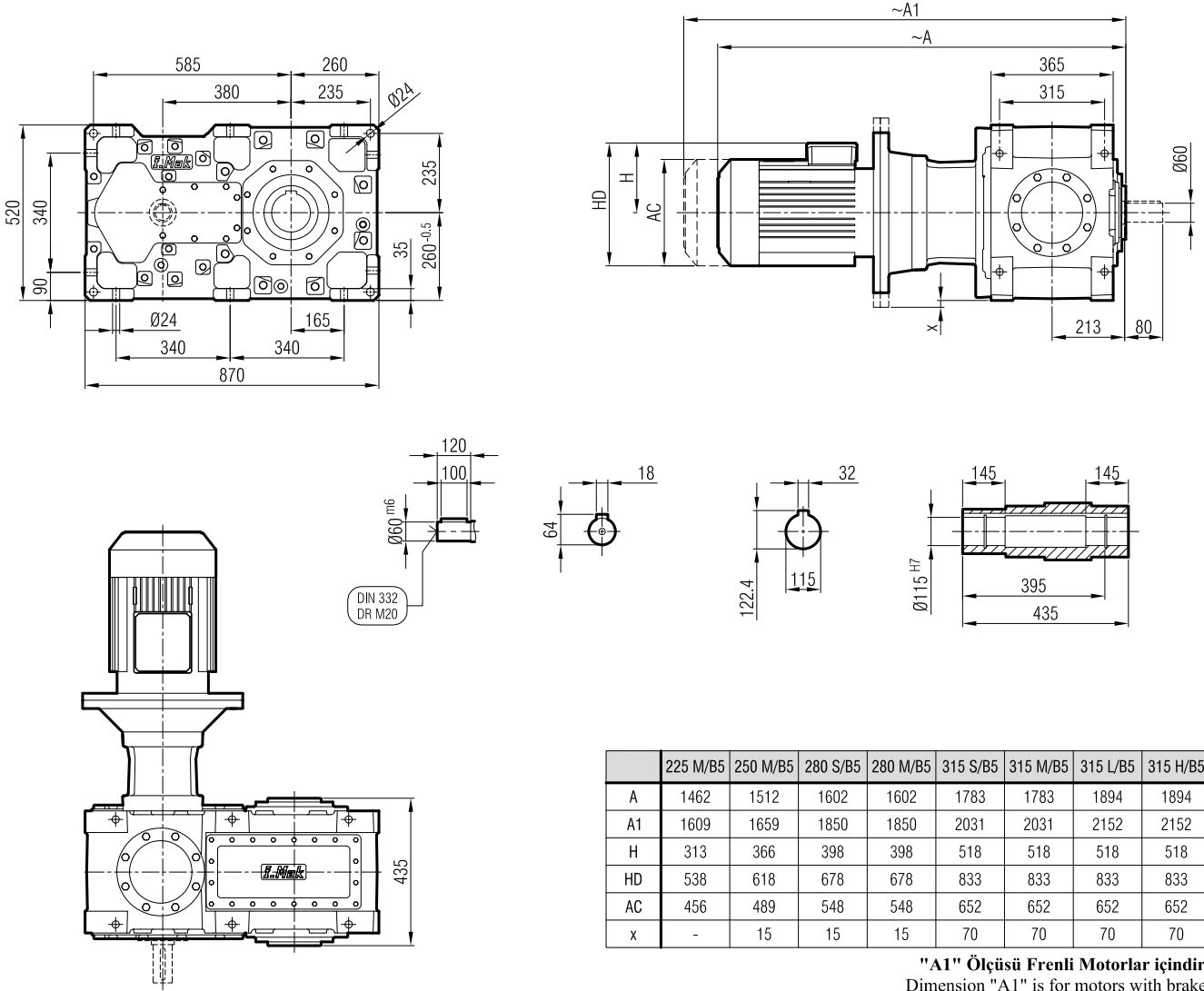


...-SDL / SDR



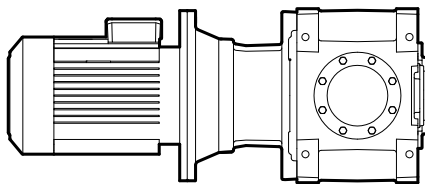


MAM 702

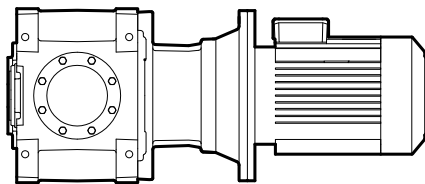


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

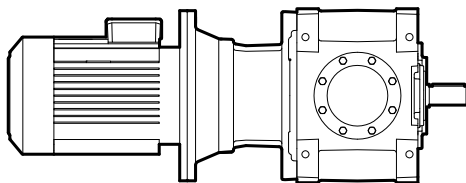
Giriş Seçenekleri / Input Options / Option d'entree



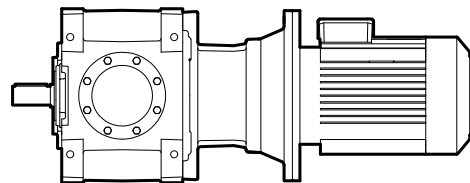
G03



G04



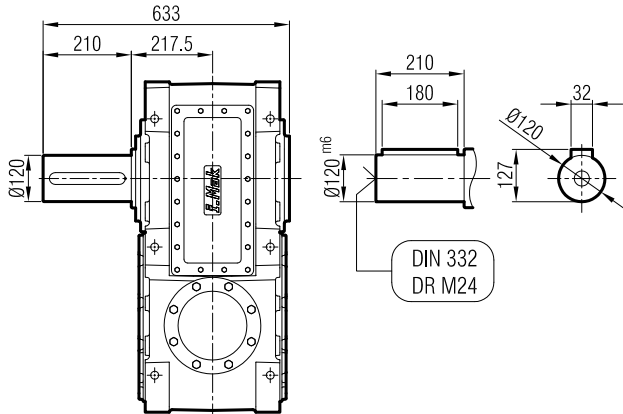
G05



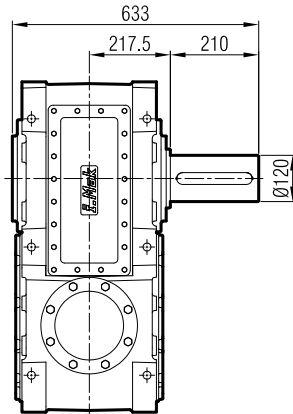
G06



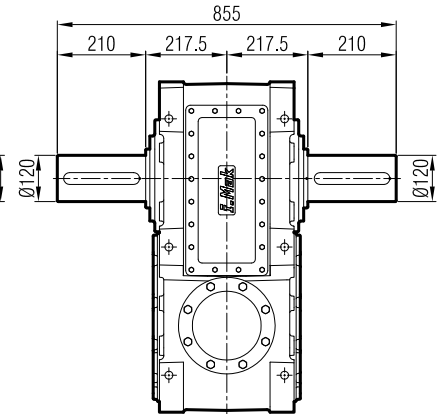
MA / MK 70_
...-SL



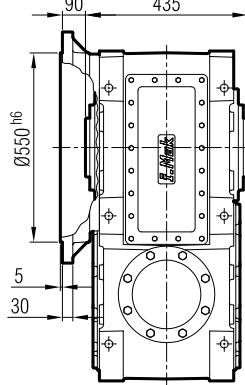
...-SR



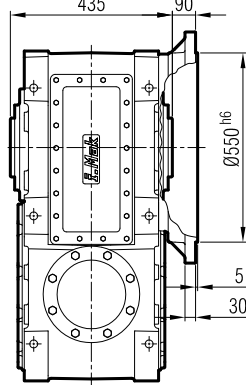
...-SD



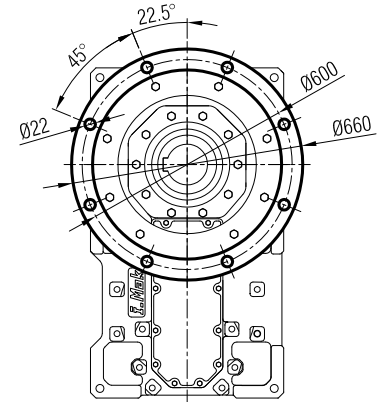
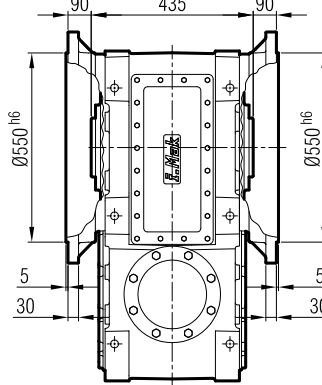
...-FL



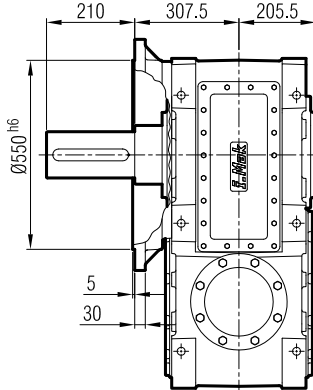
...-FR



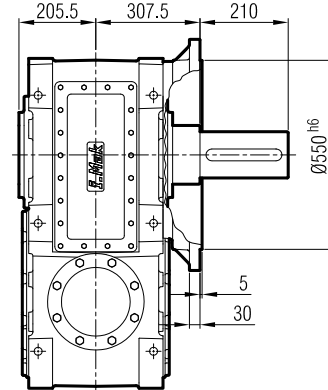
...-FD



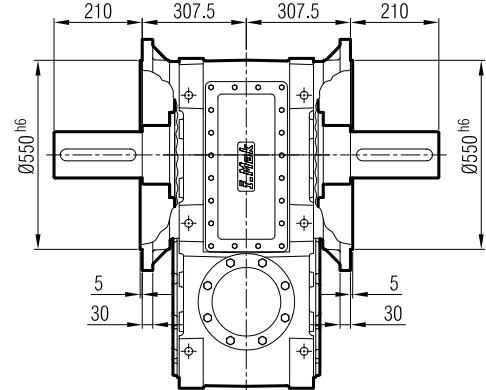
...-FL-SL



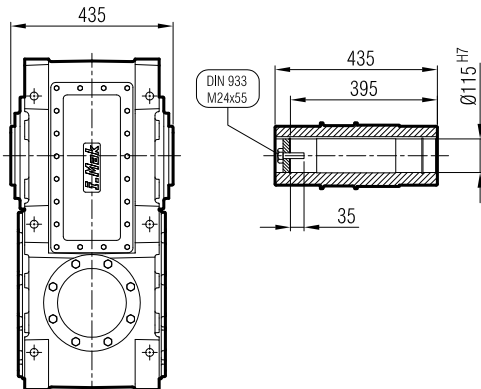
...-FR-SR



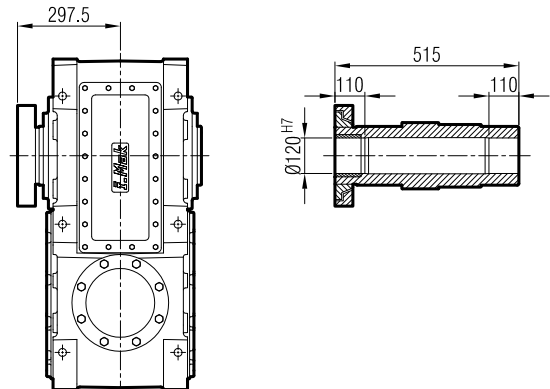
...-FD-SD



...-H

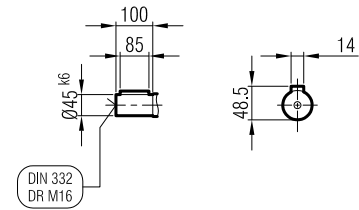
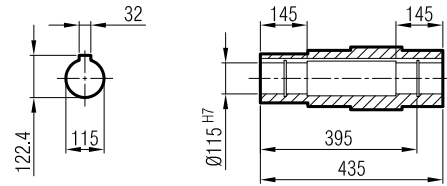
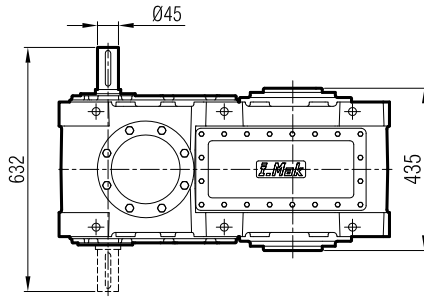
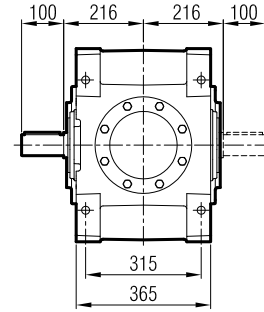
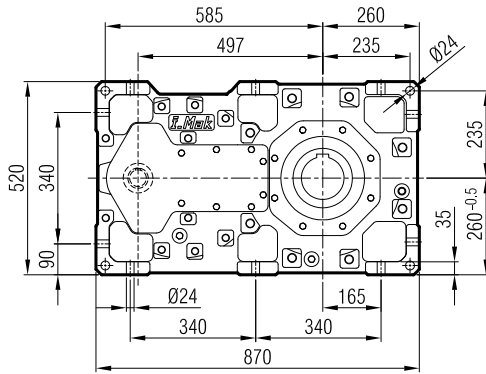


...-SDL / SDR

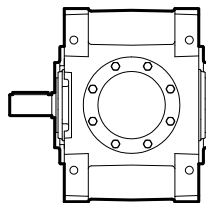




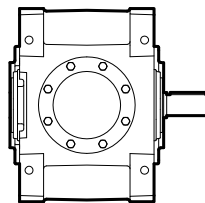
MA 703



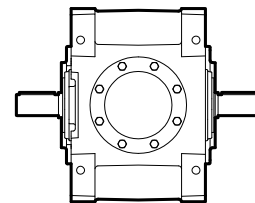
Giriş Seçenekleri / Input Options / Option d'entree



G00



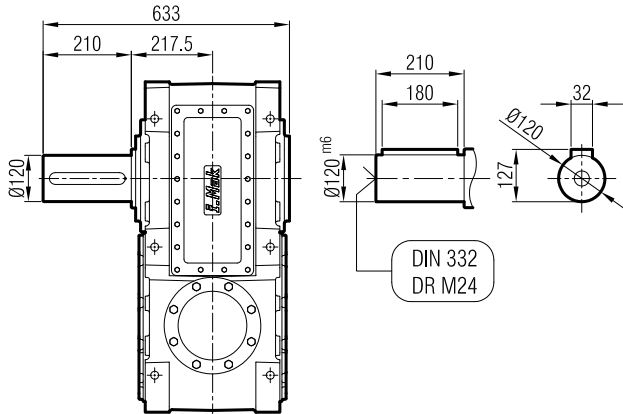
G01



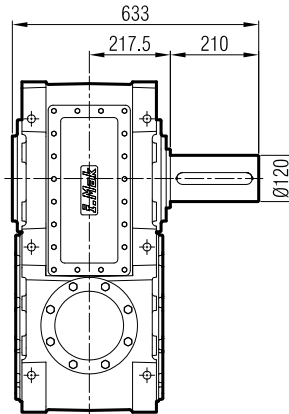
G02



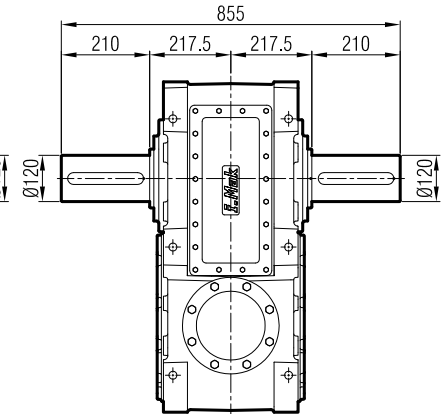
MA / MK 70_
...-SL



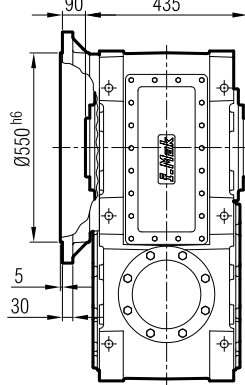
...-SR



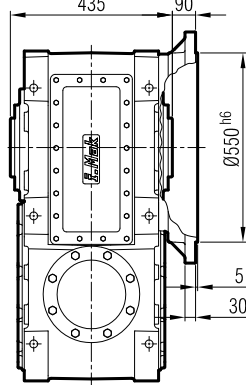
...-SD



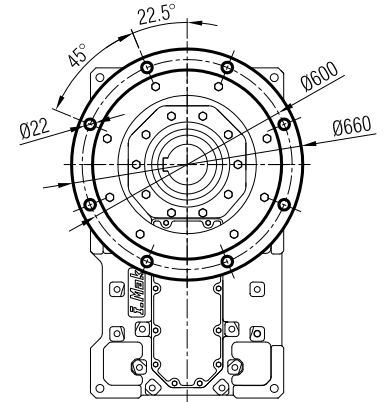
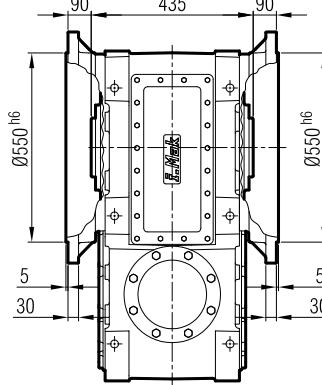
...-FL



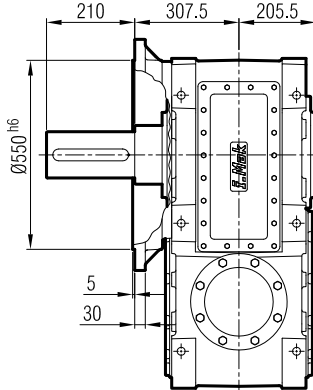
...-FR



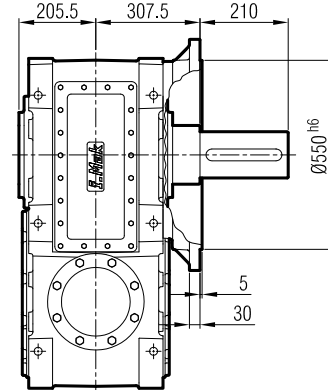
...-FD



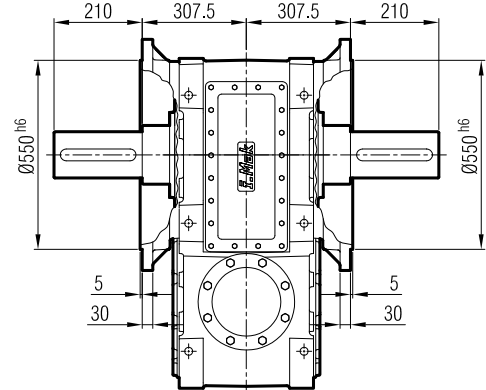
...-FL-SL



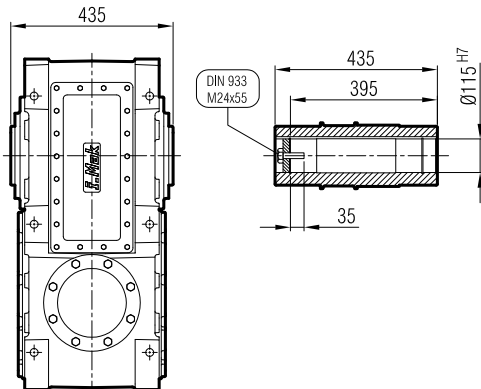
...-FR-SR



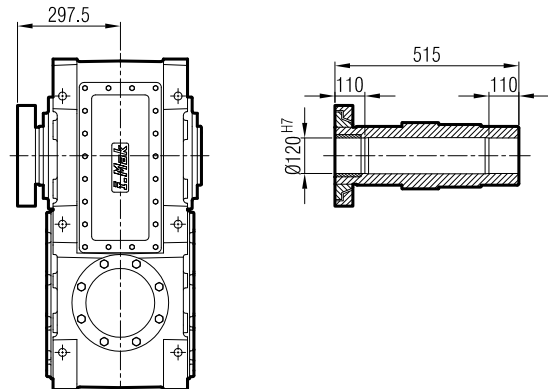
...-FD-SD



...-H

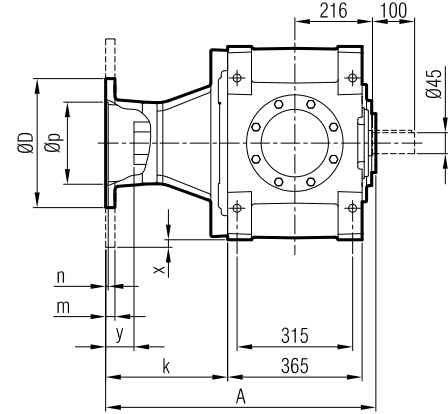
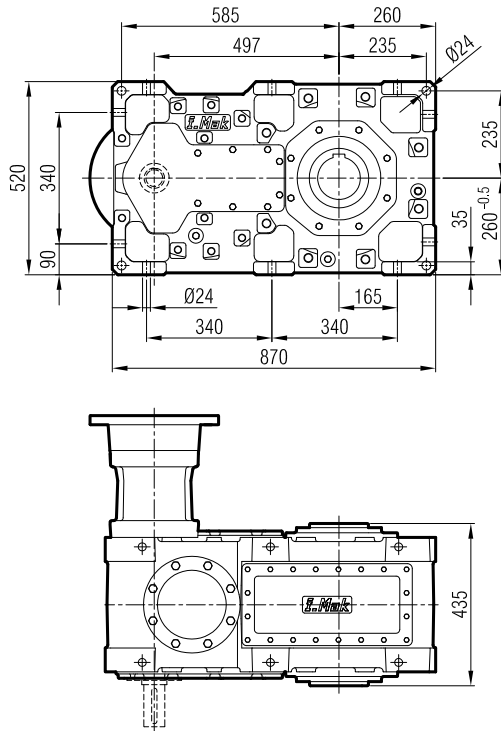


...-SDL / SDR



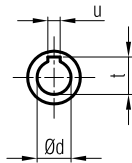
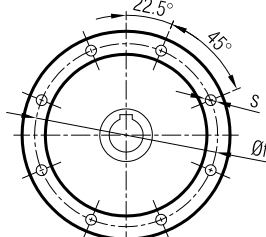
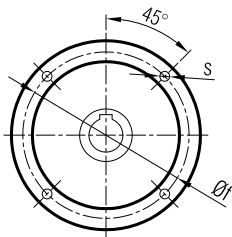


MAP 703



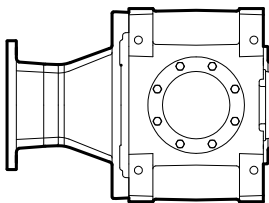
≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

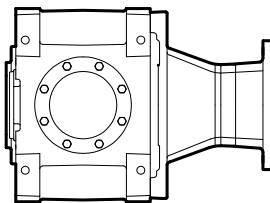


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	647	250	300	350	M14	247	20	6	42	45.3	12	-	50
180/B5	647	250	300	350	M14	247	20	6	48	51.8	14	-	50
200/B5	647	300	350	400	M16	247	22	6	55	59.3	16	-	50
225/B5	690	350	400	450	M16	290	22	6	60	64.4	18	-	79
250/B5	690	450	500	550	M16	290	25	6.5	65	69.4	18	15	75
280/B5	690	450	500	550	M16	290	25	6.5	75	79.9	20	15	65

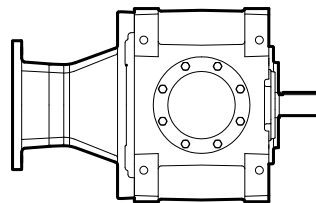
Giriş Seçenekleri / Input Options / Option d'entree



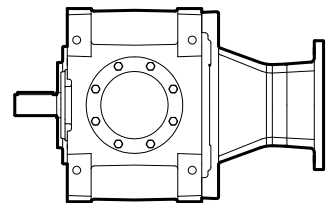
G03



G04



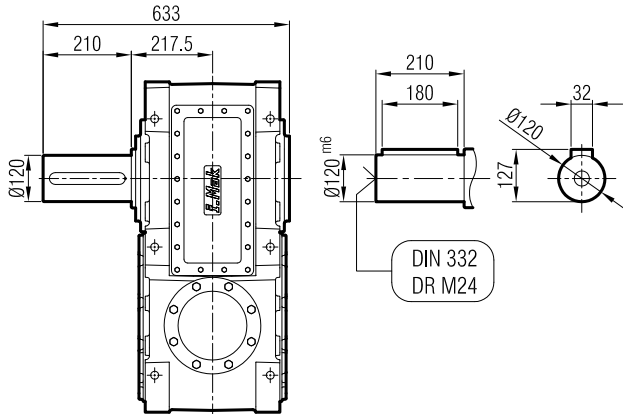
G05



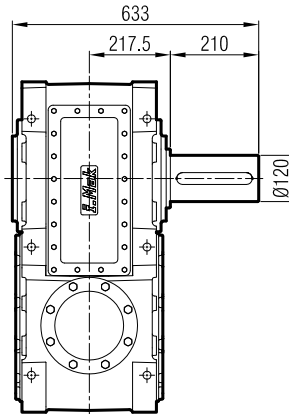
G06



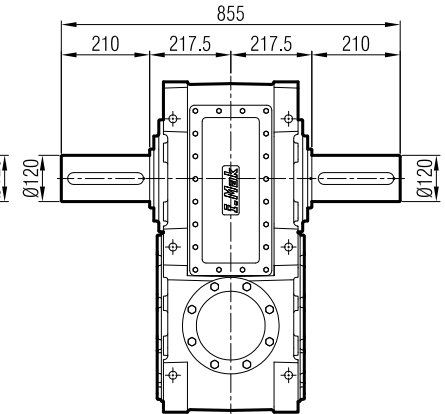
MA / MK 70_
...-SL



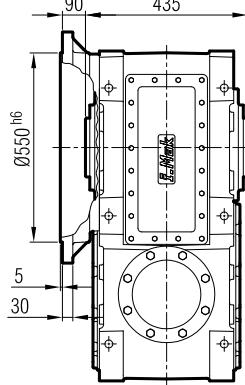
...-SR



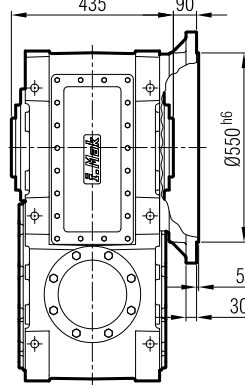
...-SD



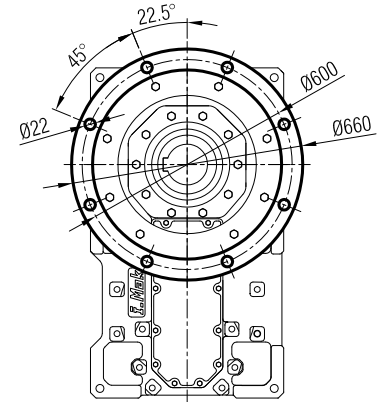
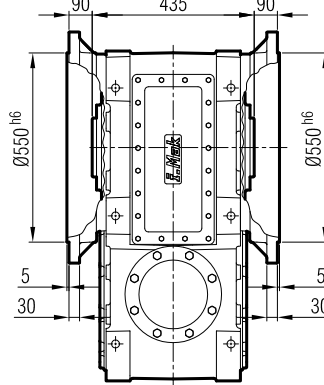
...-FL



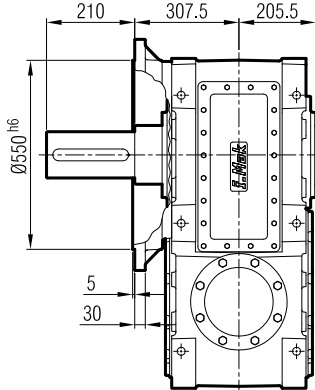
...-FR



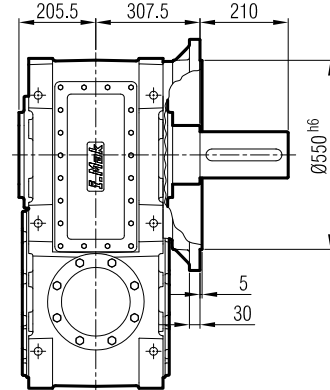
...-FD



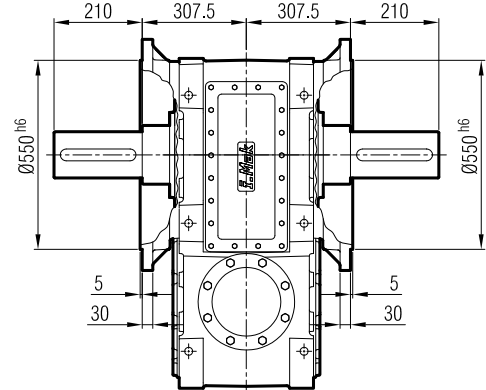
...-FL-SL



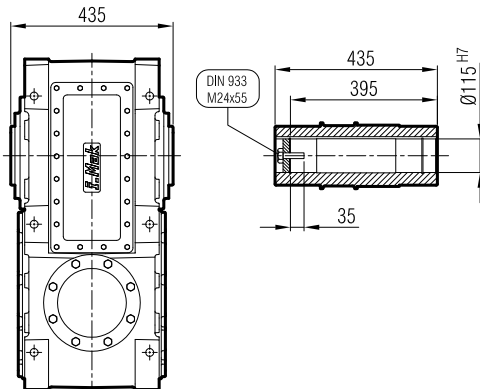
...-FR-SR



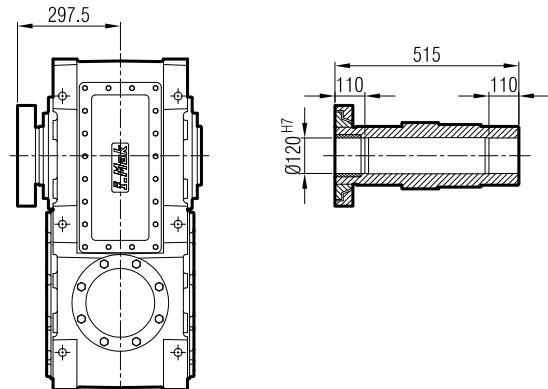
...-FD-SD



...-H

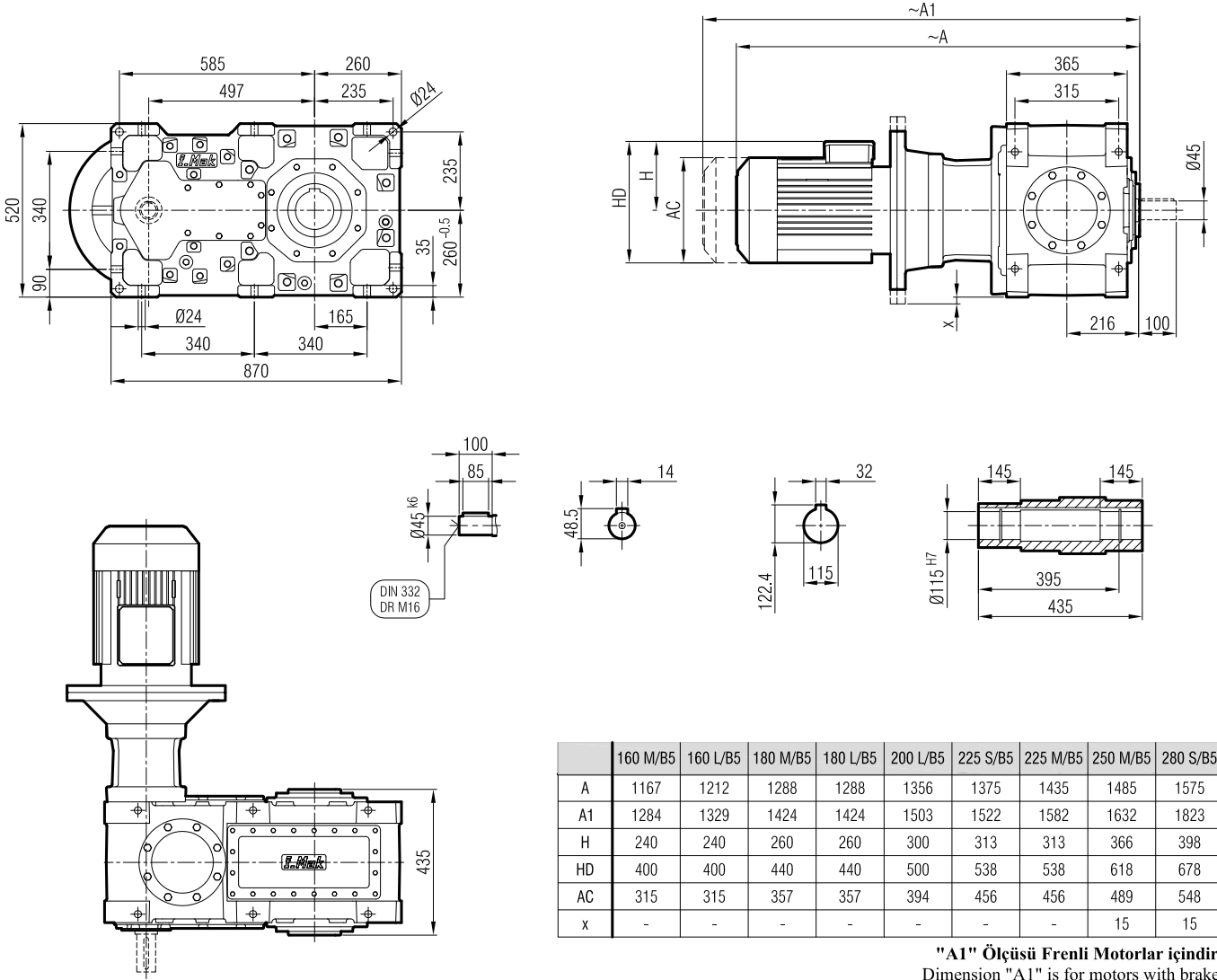


...-SDL / SDR





MAM 703

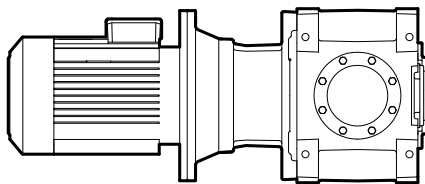


"A1" Ölçüsü Frenli Motorlar içindir.

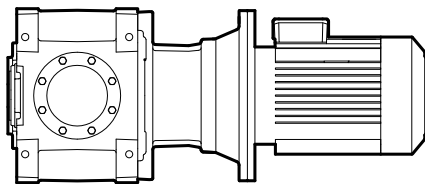
Dimension "A1" is for motors with brake.

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

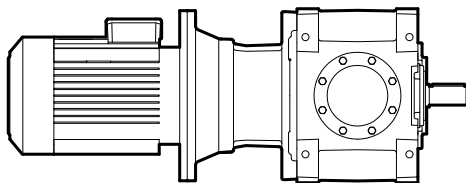
Giriş Seçenekleri / Input Options / Option d'entree



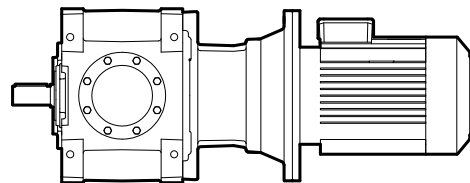
G03



G04



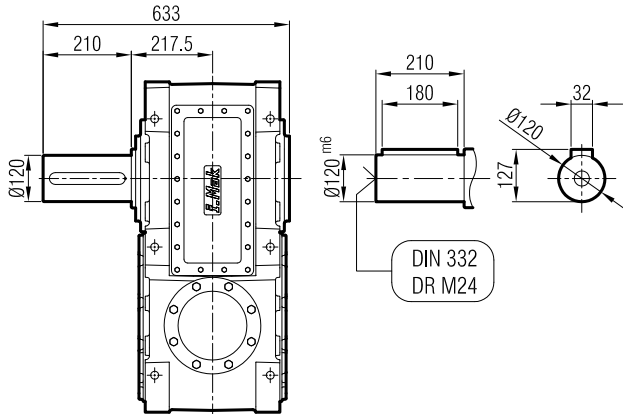
G05



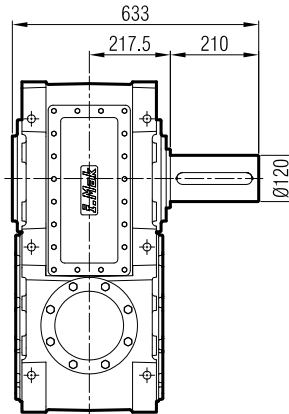
G06



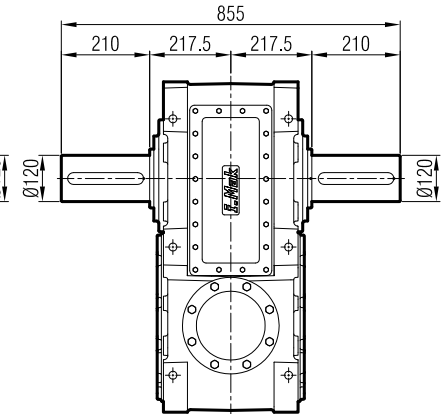
MA / MK 70_
...-SL



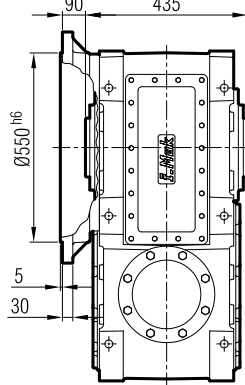
...-SR



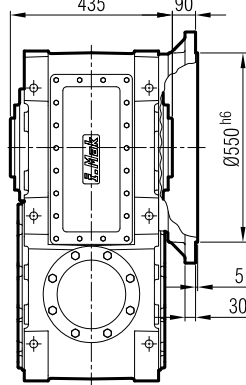
...-SD



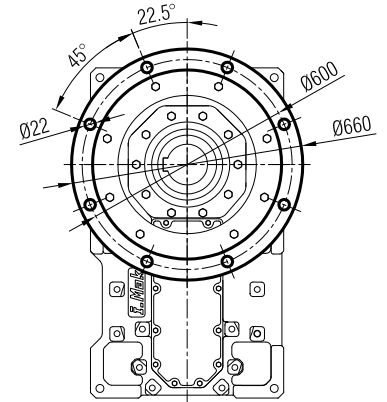
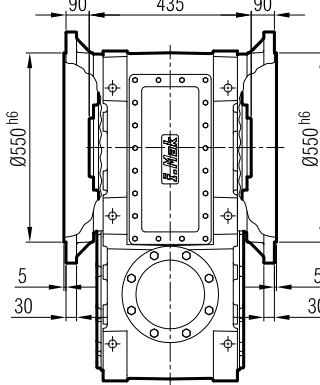
...-FL



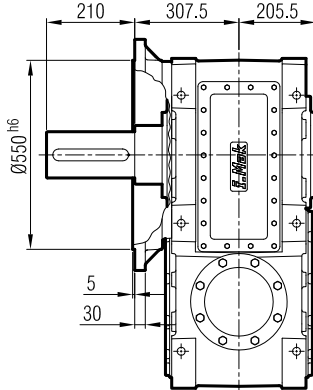
...-FR



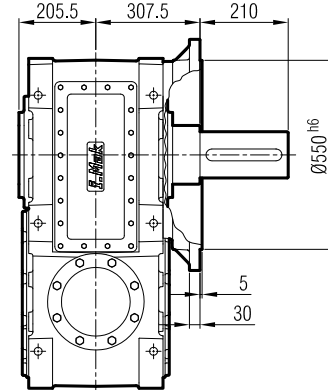
...-FD



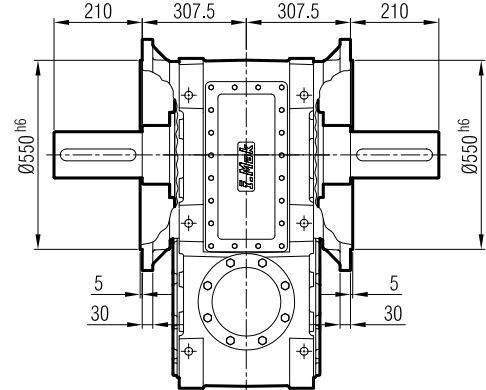
...-FL-SL



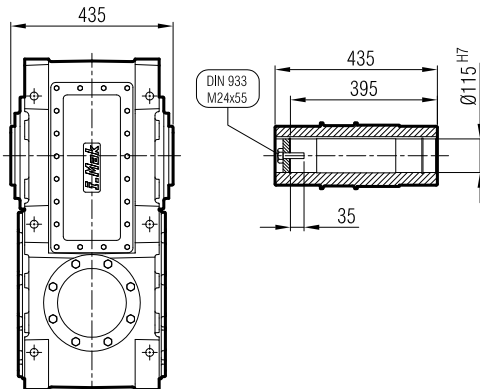
...-FR-SR



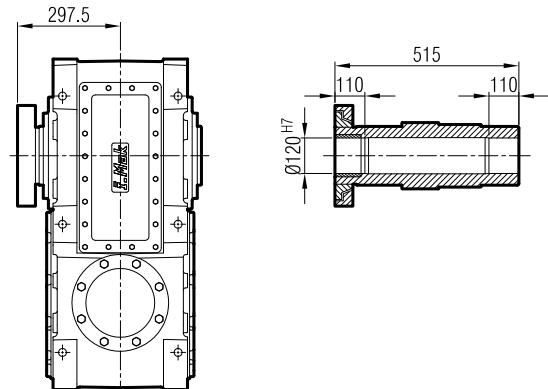
...-FD-SD



...-H

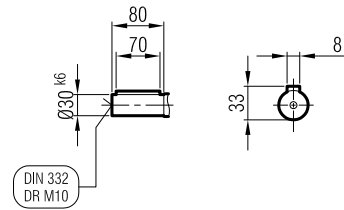
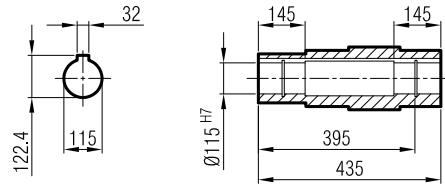
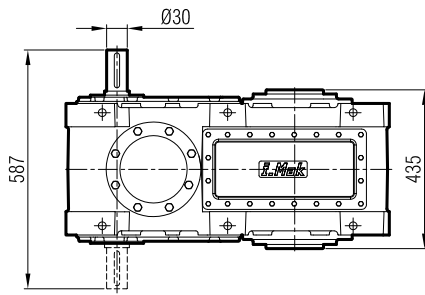
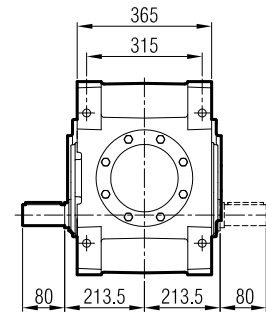
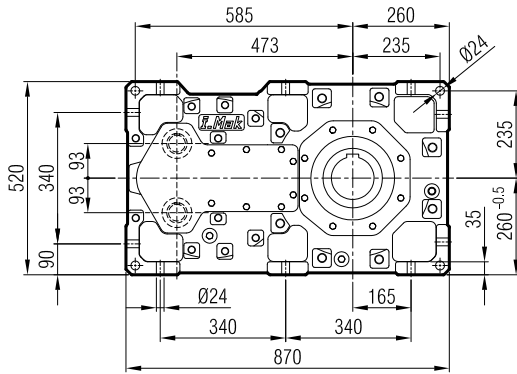


...-SDL / SDR

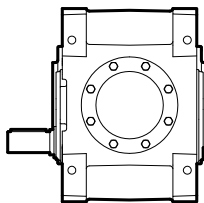




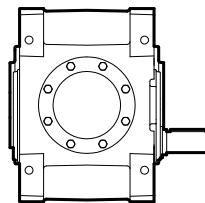
MA 704



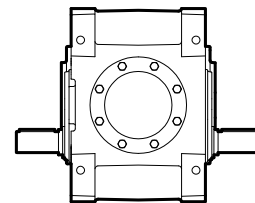
Giriş Seçenekleri / Input Options / Option d'entree



G00



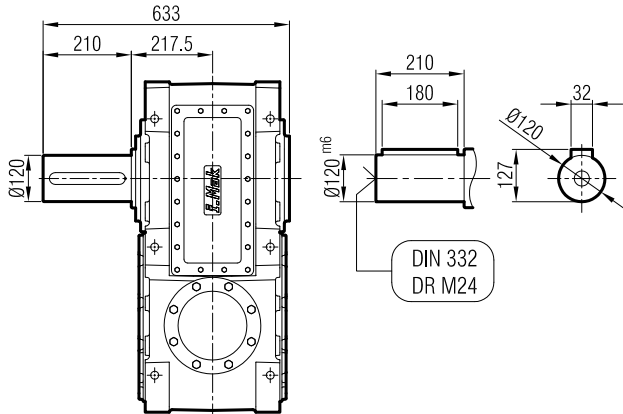
G01



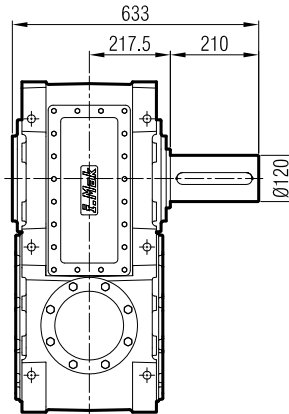
G02



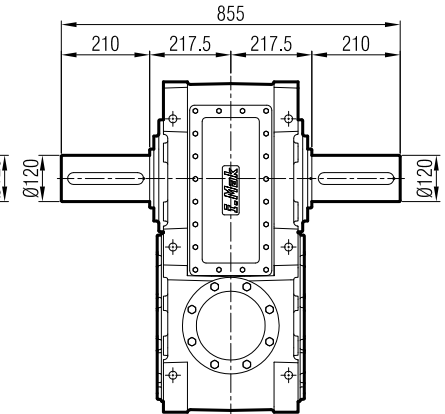
MA / MK 70_
...-SL



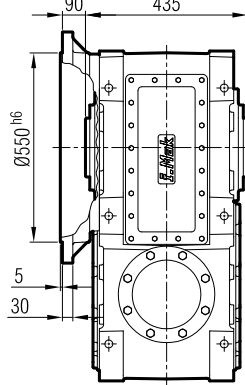
...-SR



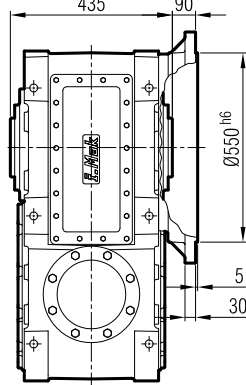
...-SD



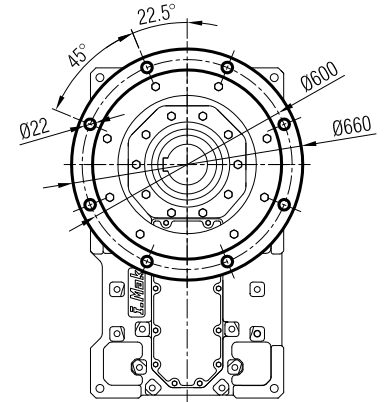
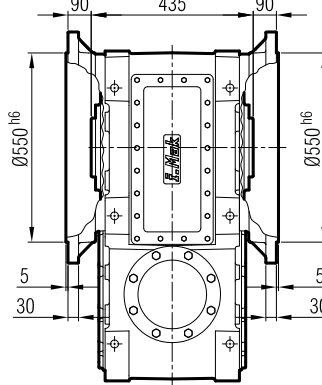
...-FL



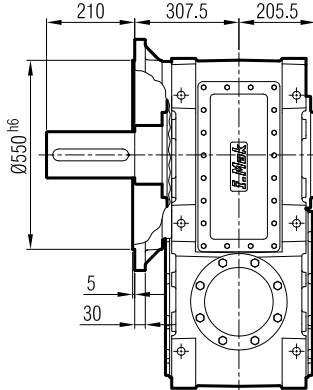
...-FR



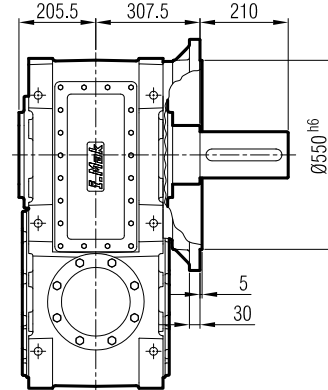
...-FD



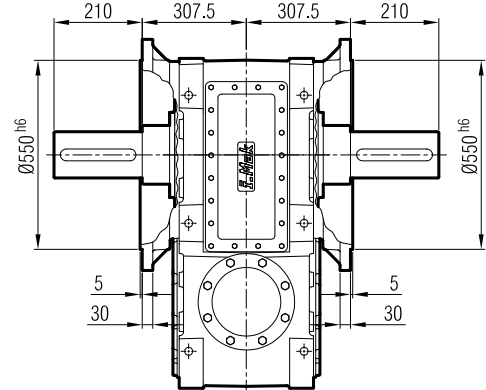
...-FL-SL



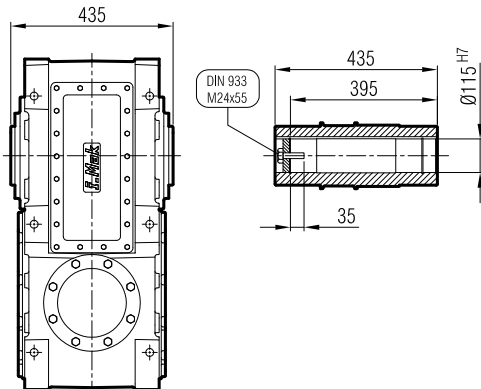
...-FR-SR



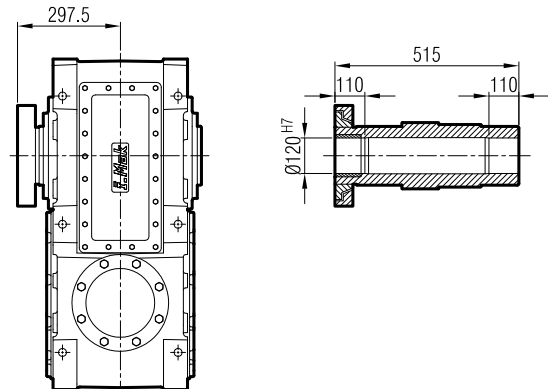
...-FD-SD



...-H

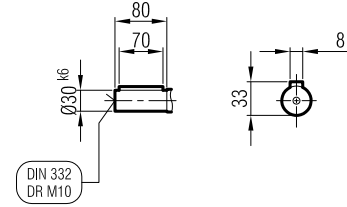
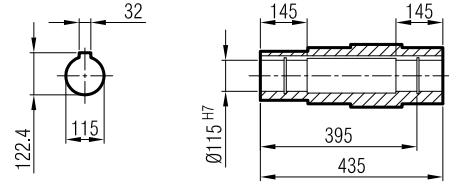
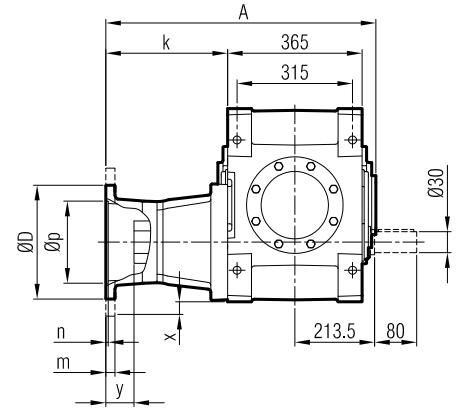
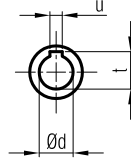
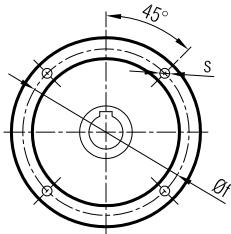
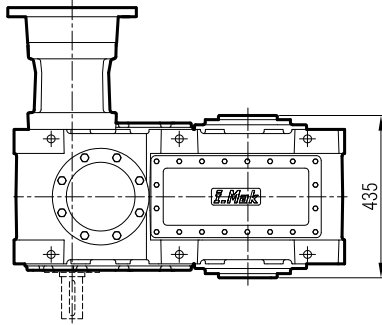
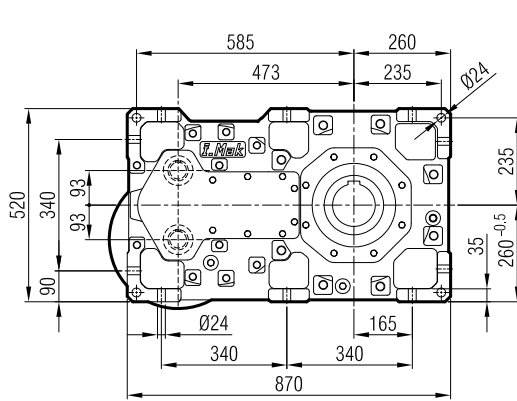


...-SDL / SDR



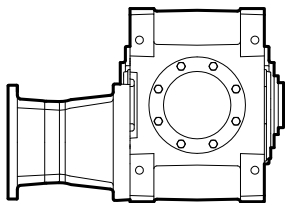


MAP 704

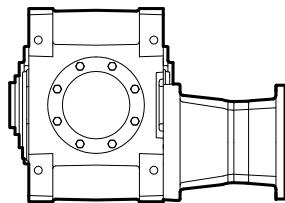


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
100/B5	588	180	215	250	M12	188	15	5	28	31.3	8	-	31
112/B5	588	180	215	250	M12	188	15	5	28	31.3	8	-	31
132/B5	608	230	265	300	M12	208	18	6	38	41.3	10	-	45
160/B5	625	250	300	350	M14	225	20	6	42	45.3	12	8	70
180/B5	625	250	300	350	M14	225	20	6	48	51.8	14	8	60

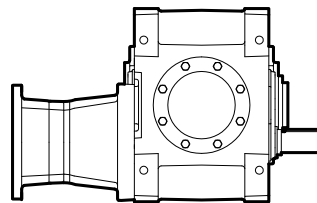
Giriş Seçenekleri / Input Options / Option d'entree



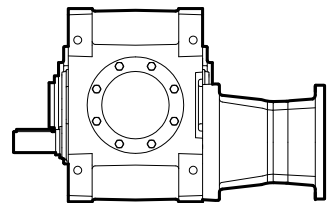
G03



G04



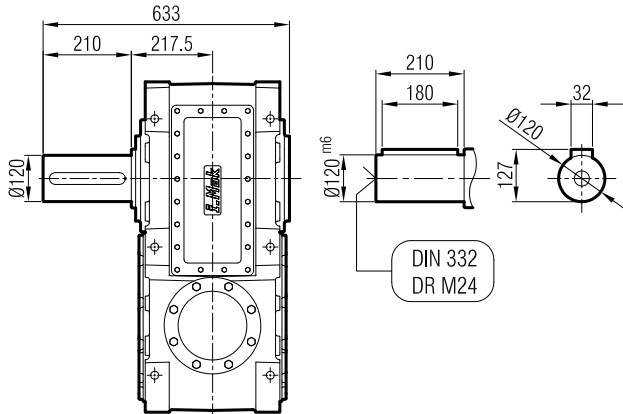
G05



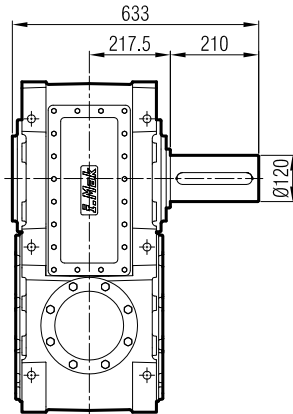
G06



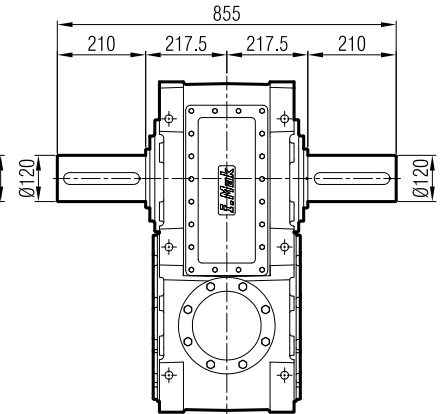
MA / MK 70_
...-SL



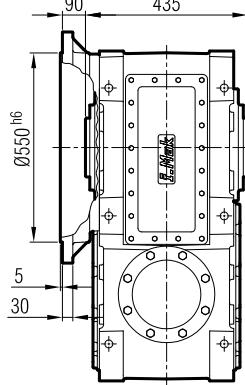
...-SR



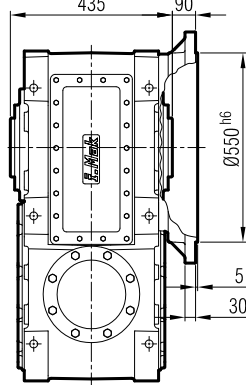
...-SD



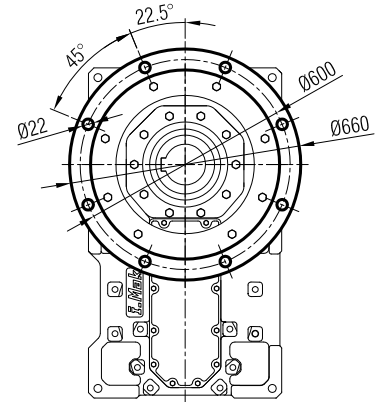
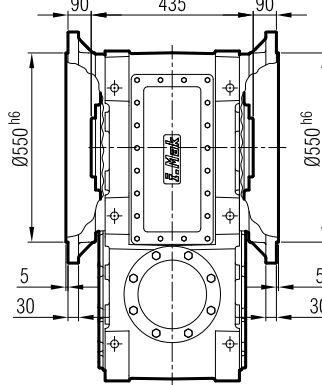
...-FL



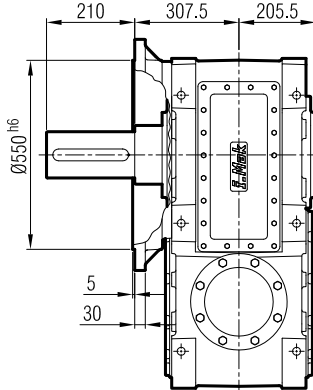
...-FR



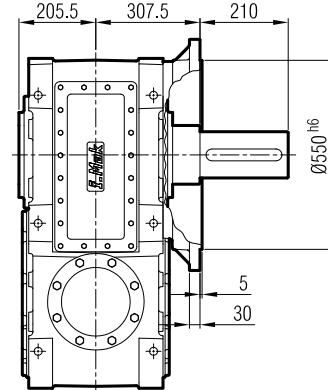
...-FD



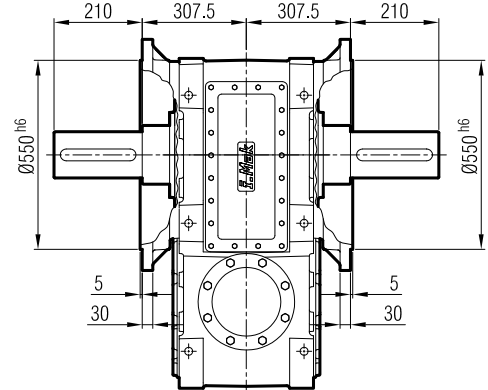
...-FL-SL



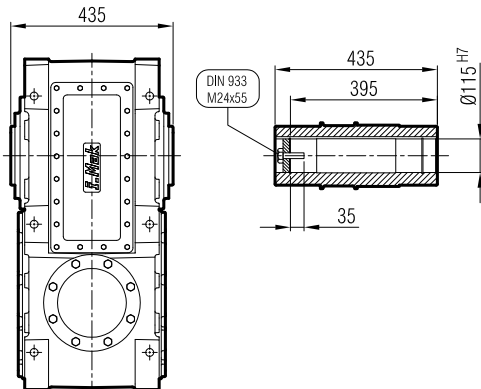
...-FR-SR



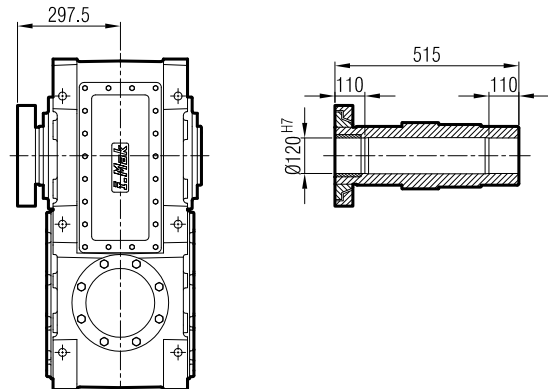
...-FD-SD



...-H

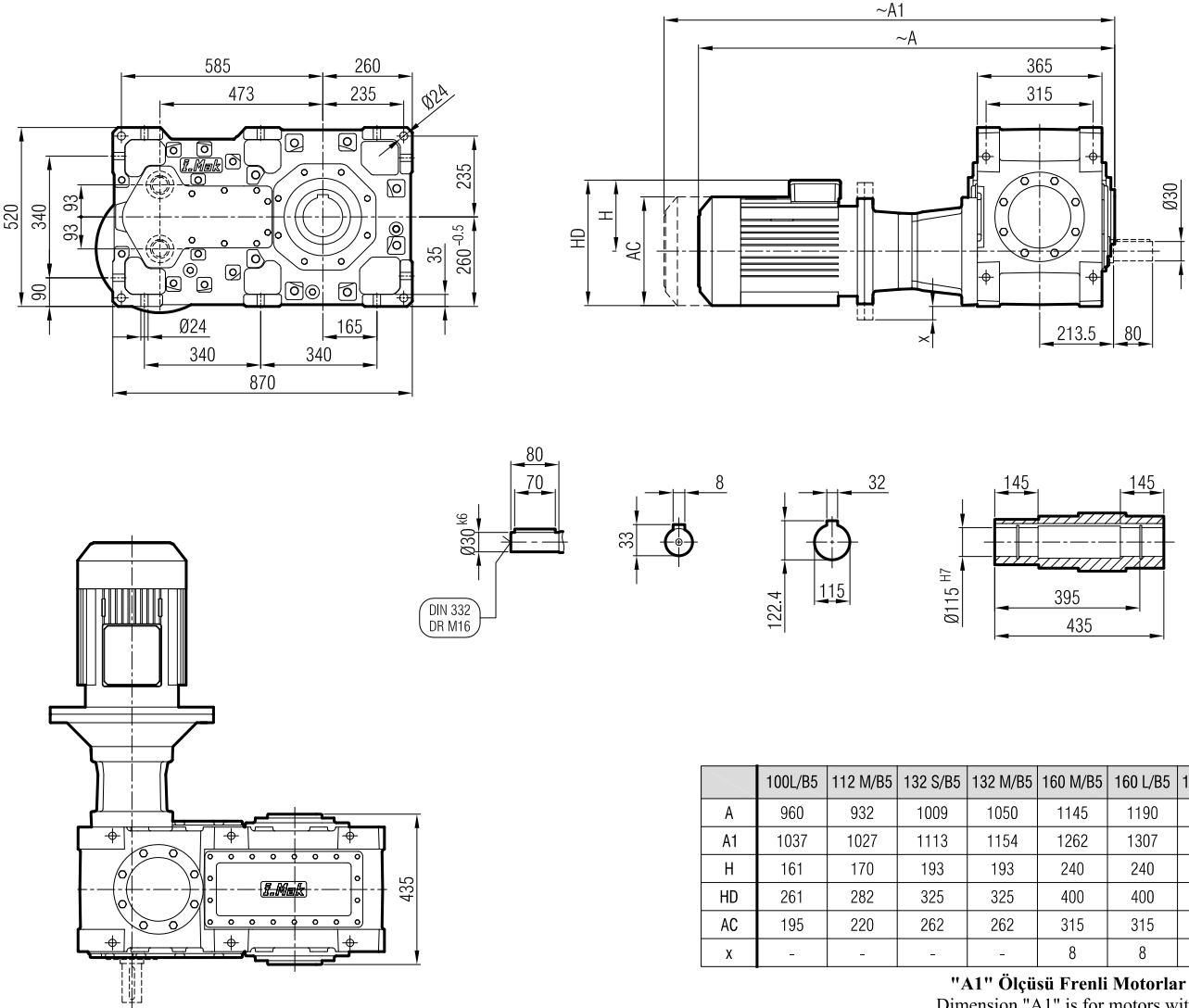


...-SDL / SDR





MAM 704

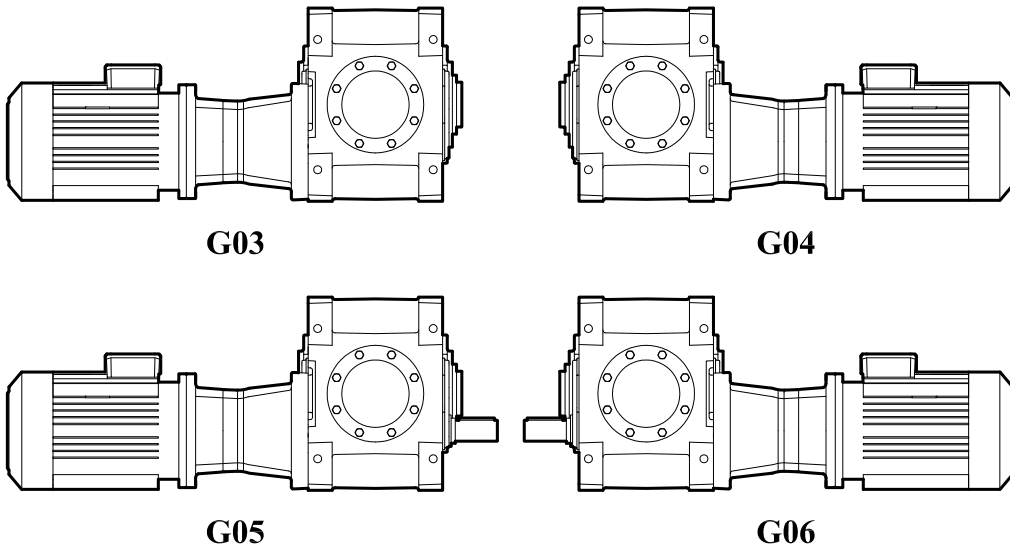


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

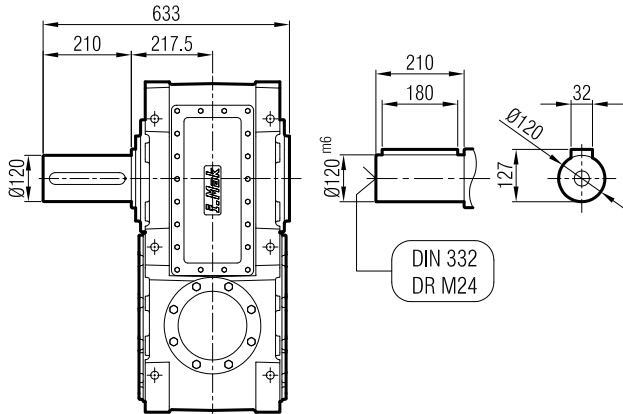
Le dimensions "A1" correspond aux moteurs équipés de freins.

Giriş Seçenekleri / Input Options / Option d'entree

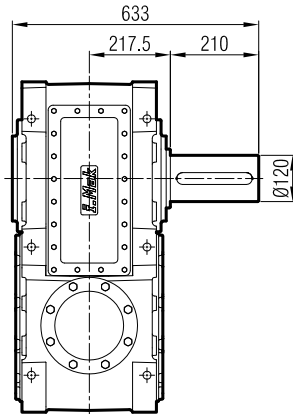




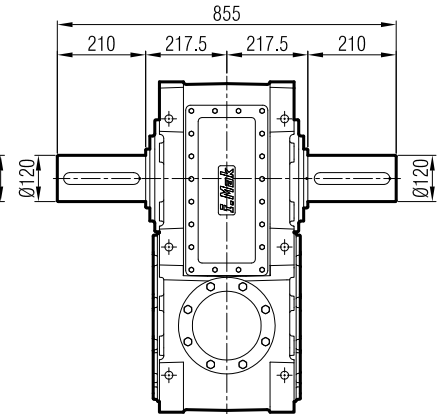
MA / MK 70_
...-SL



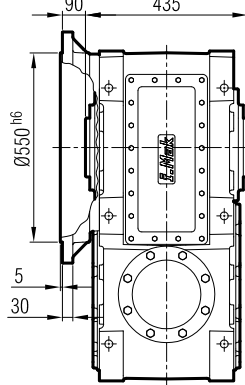
...-SR



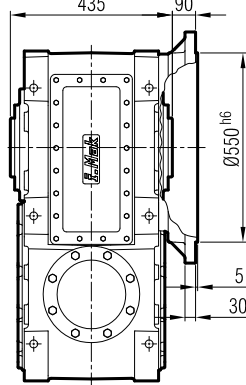
...-SD



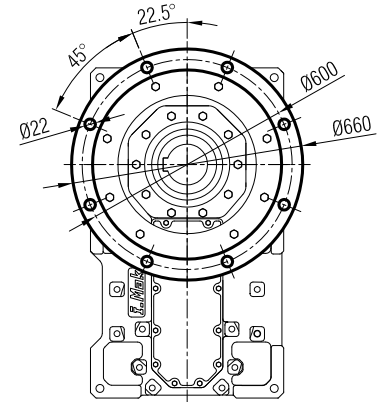
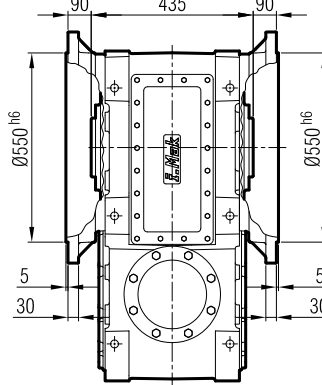
...-FL



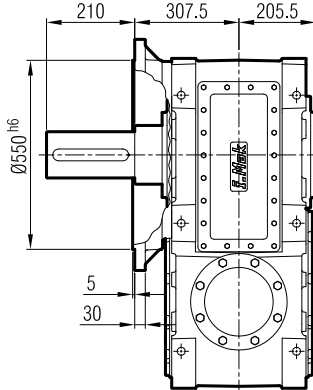
...-FR



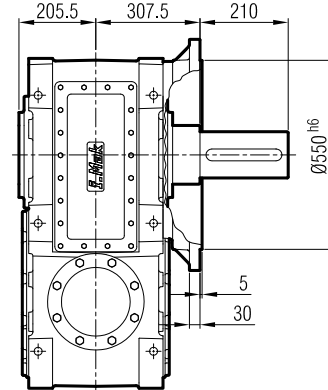
...-FD



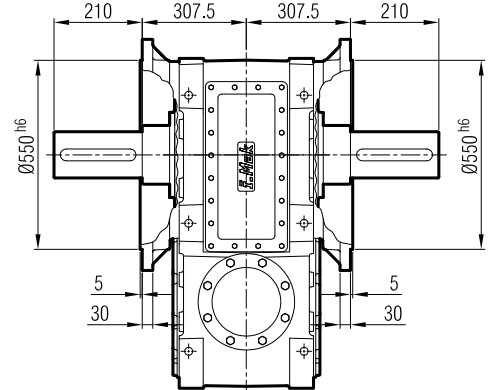
...-FL-SL



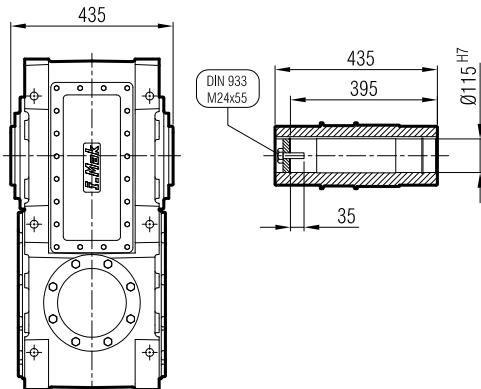
...-FR-SR



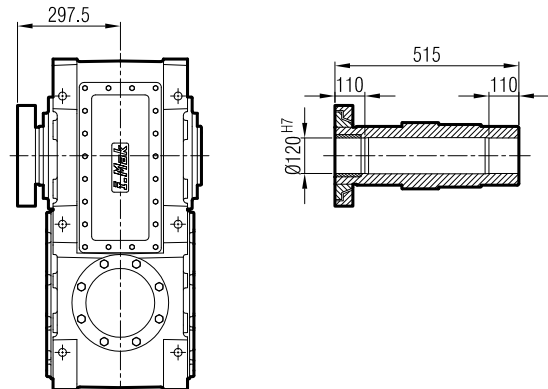
...-FD-SD



...-H

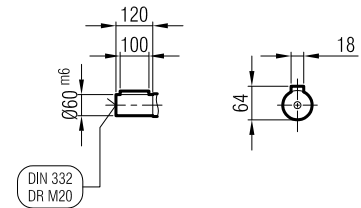
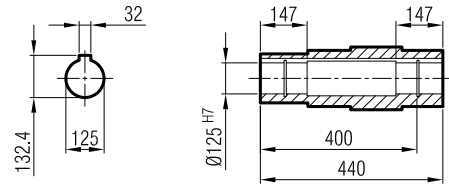
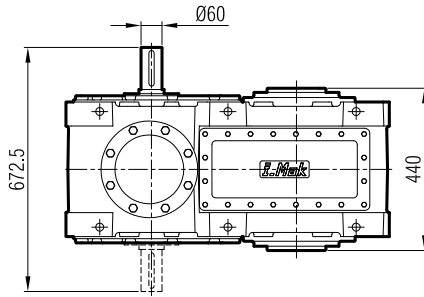
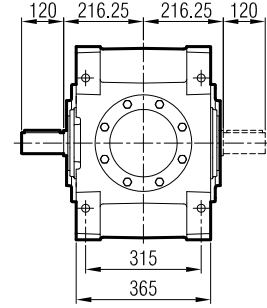
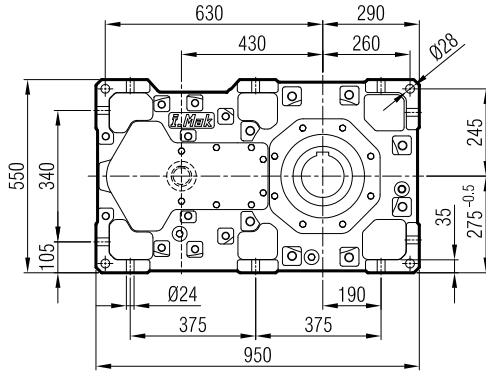


...-SDL / SDR

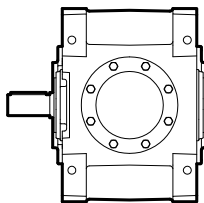




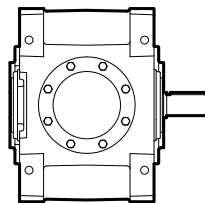
MA 802



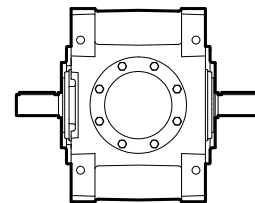
Giriş Seçenekleri / Input Options / Option d'entree



G00



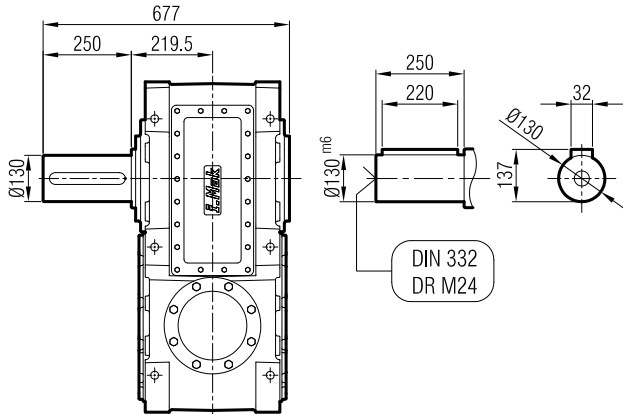
G01



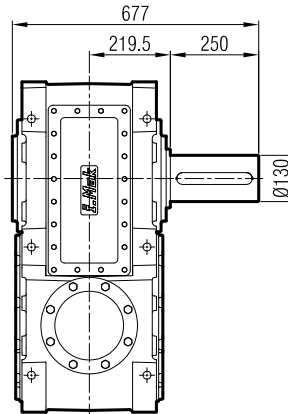
G02



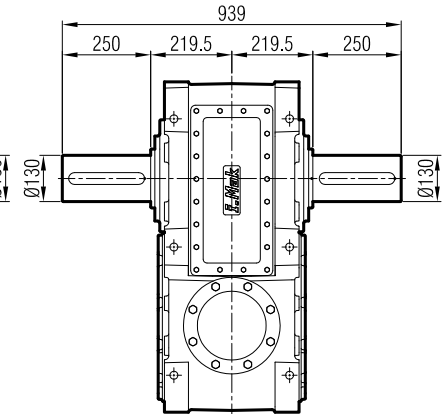
MA / MK 80_
...-SL



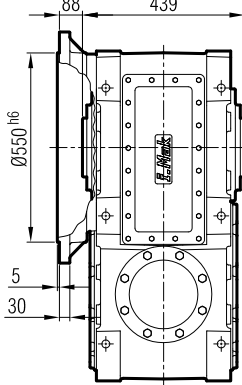
...-SR



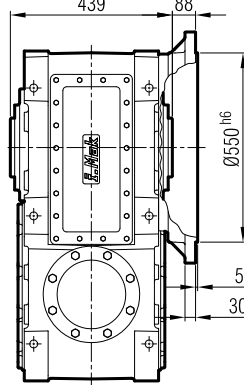
...-SD



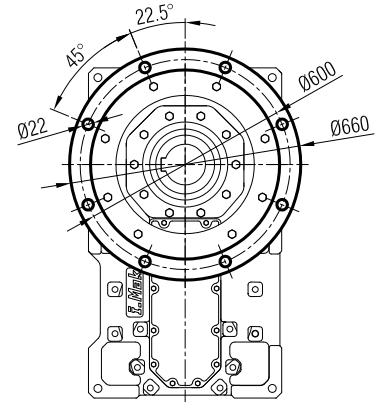
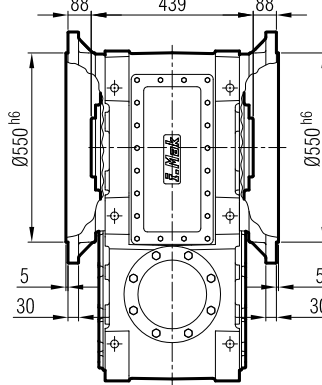
...-FL



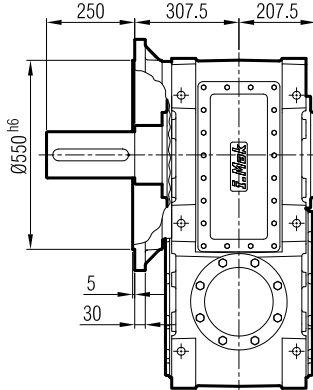
...-FR



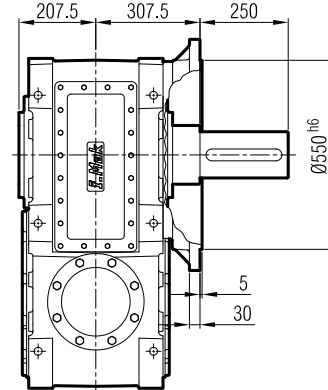
...-FD



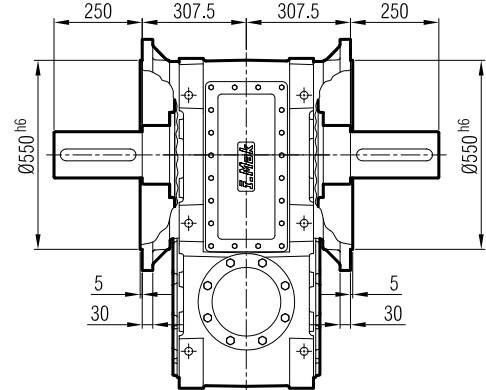
...-FL-SL



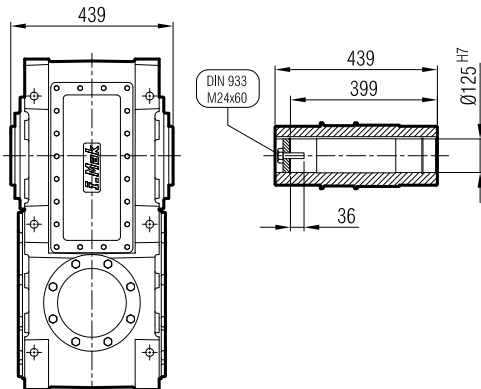
...-FR-SR



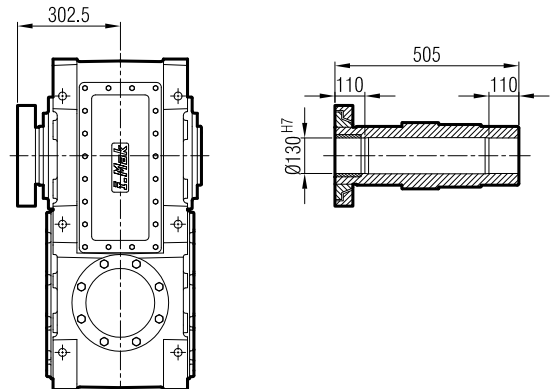
...-FD-SD



...-H

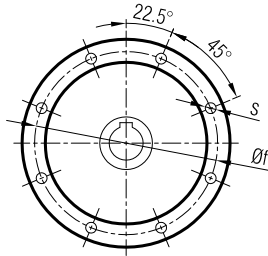
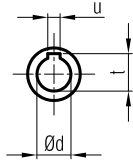
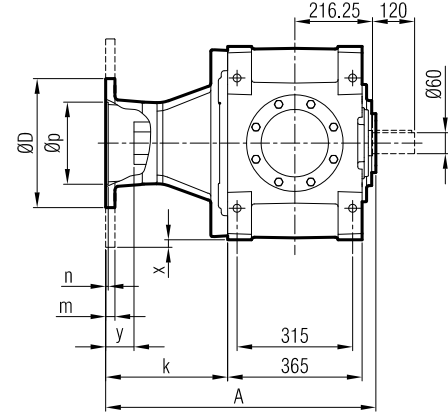
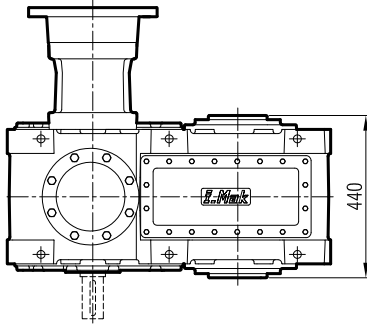
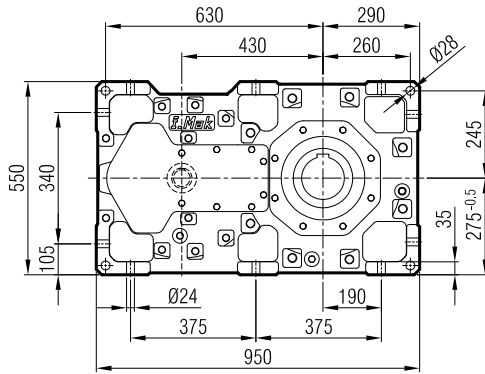


...-SDL / SDR



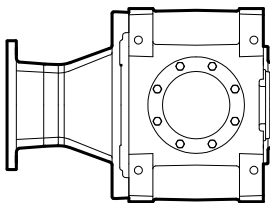


MAP 802

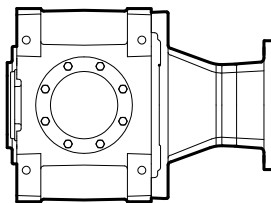


	A	$\emptyset p$	$\emptyset f$	$\emptyset D$	s	k	m	n	$\emptyset d$	t	u	x	y
225/B5	719	350	400	450	M16	317	22	6	60	64.4	18	-	65
250/B5	719	450	500	550	M16	317	25	6.5	65	69.4	18	0	65
280/B5	719	450	500	550	M16	317	25	6.5	75	75.9	20	0	65
315/B5	749	550	600	660	M24	347	30	7	85	90.4	22	55	90

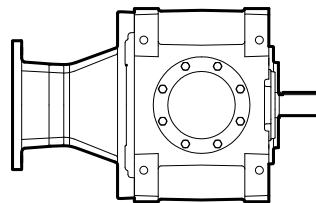
Giriş Seçenekleri / Input Options / Option d'entree



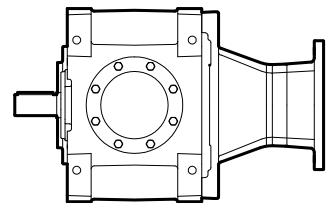
G03



G04



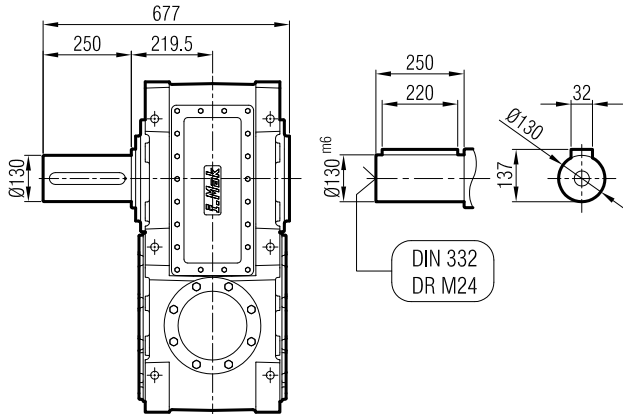
G05



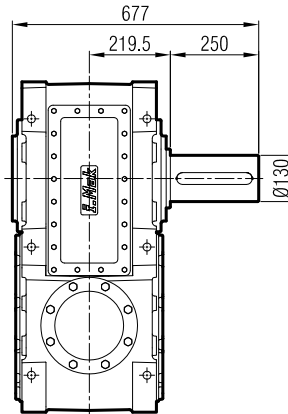
G06



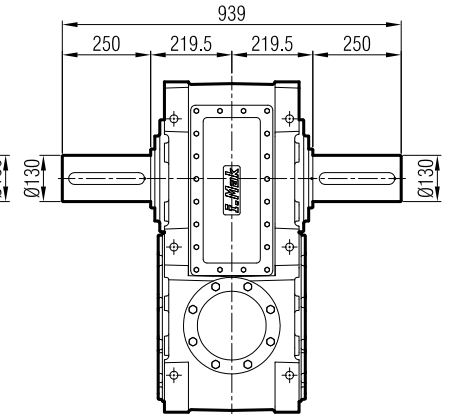
MA / MK 80_
...-SL



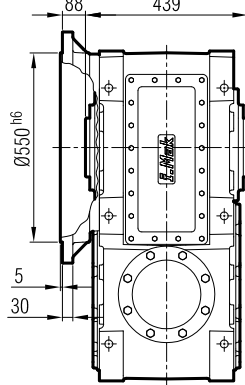
...-SR



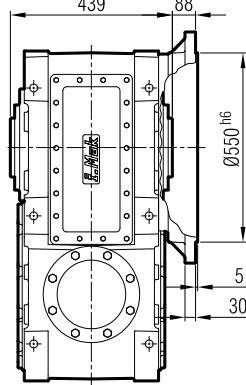
...-SD



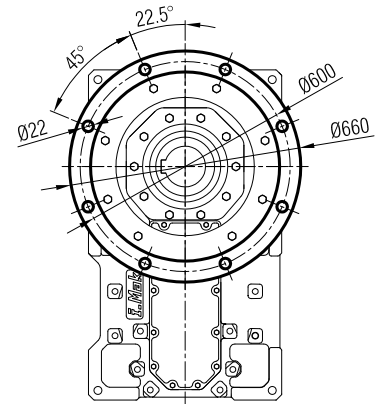
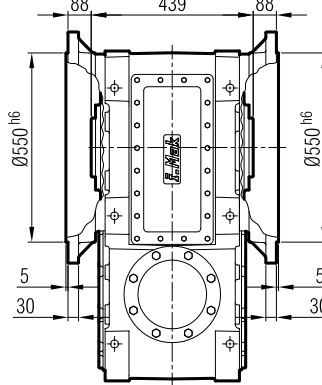
...-FL



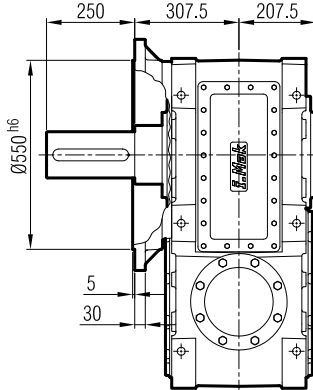
...-FR



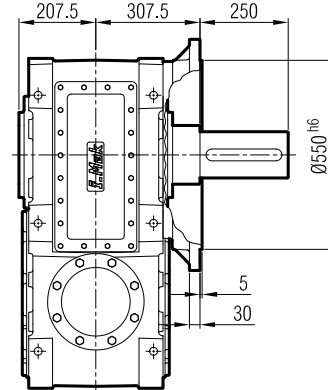
...-FD



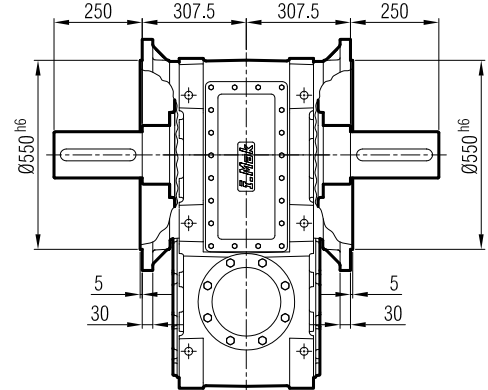
...-FL-SL



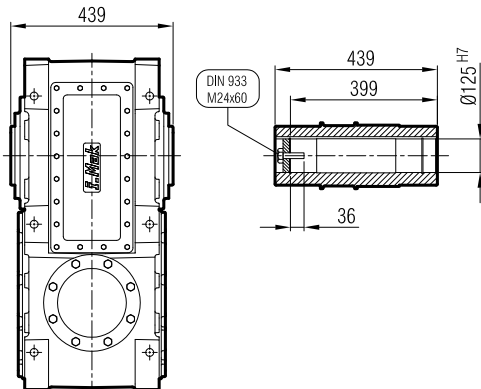
...-FR-SR



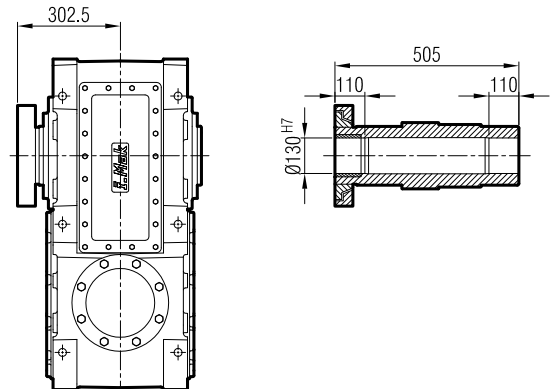
...-FD-SD



...-H

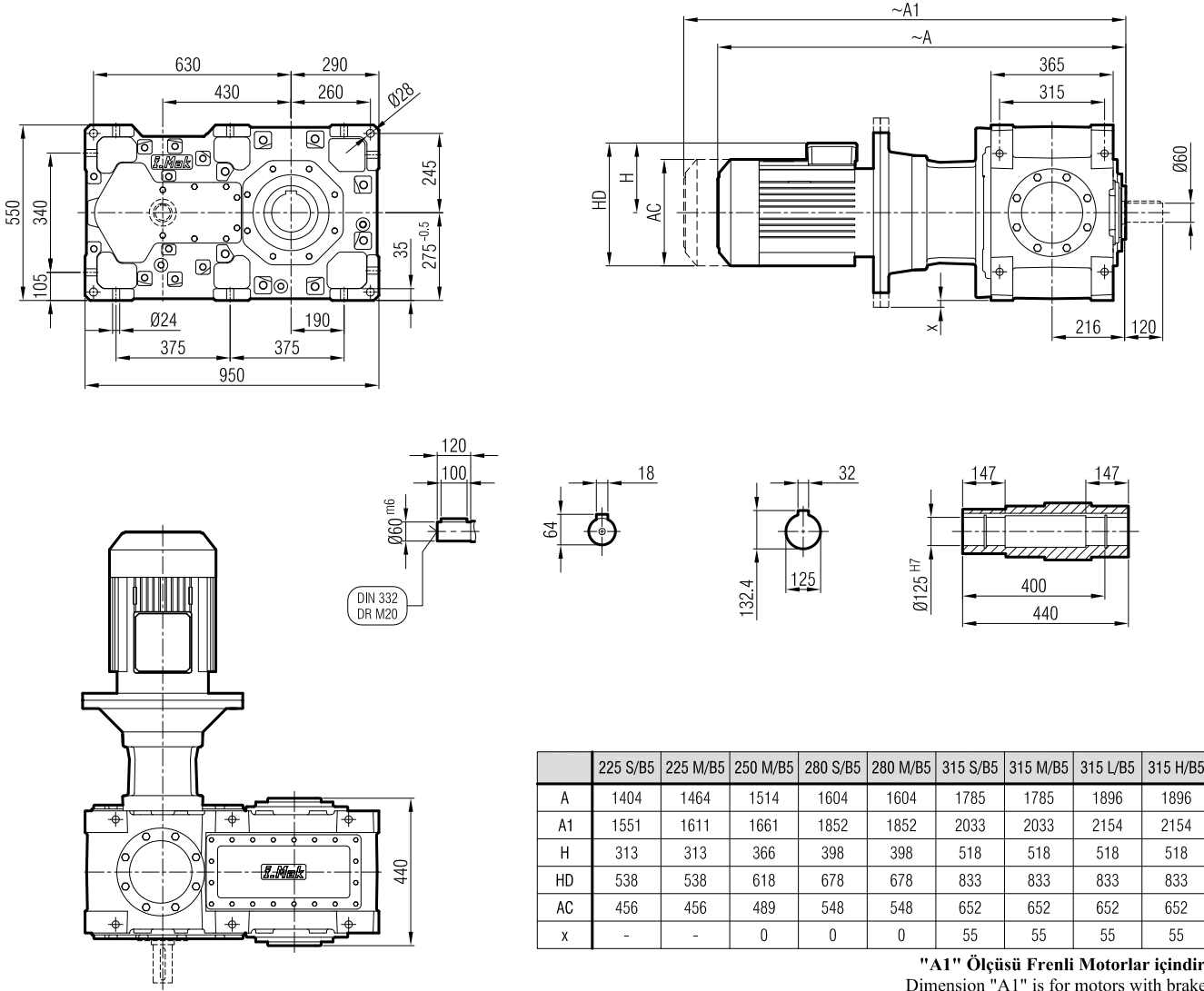


...-SDL / SDR



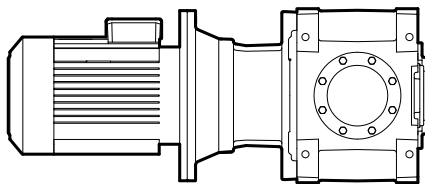


MAM 802

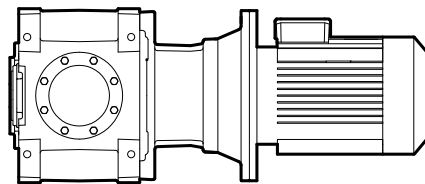


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

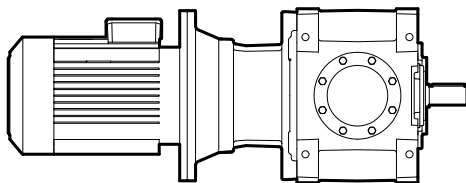
Giriş Seçenekleri / Input Options / Option d'entree



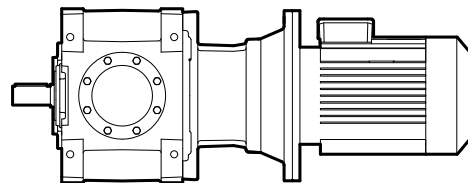
G03



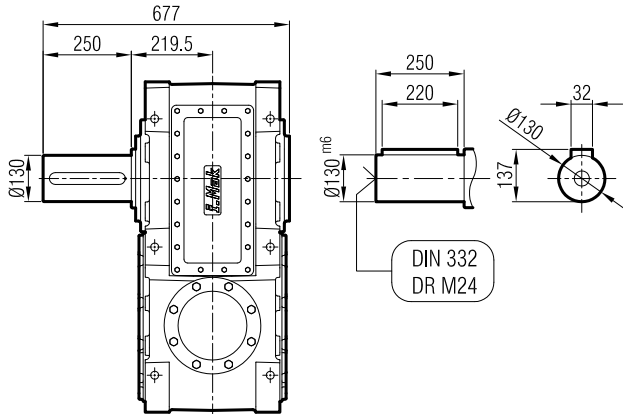
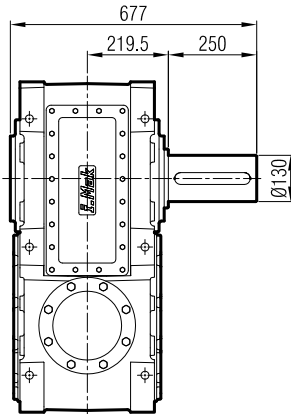
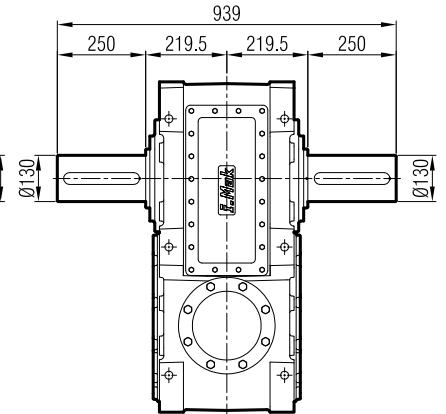
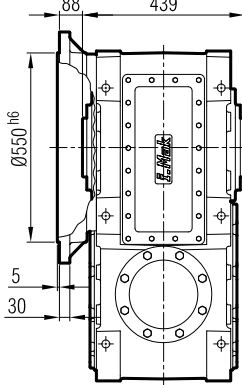
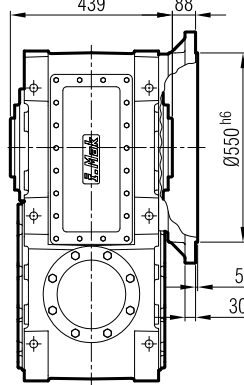
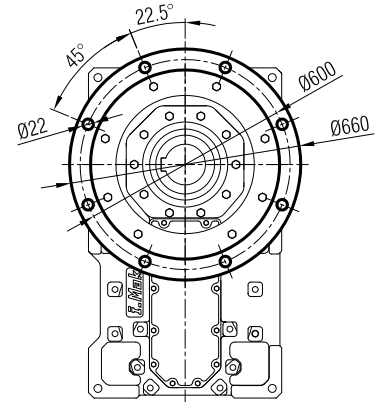
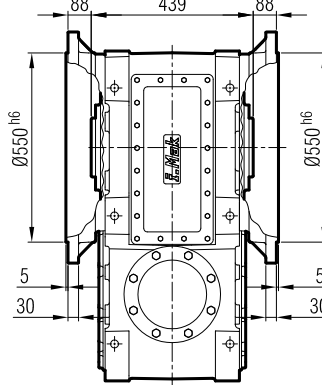
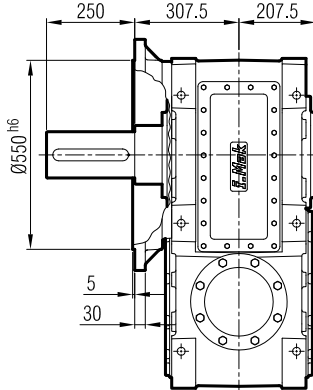
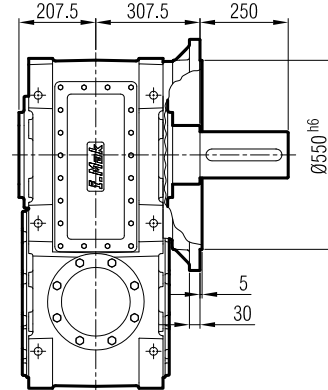
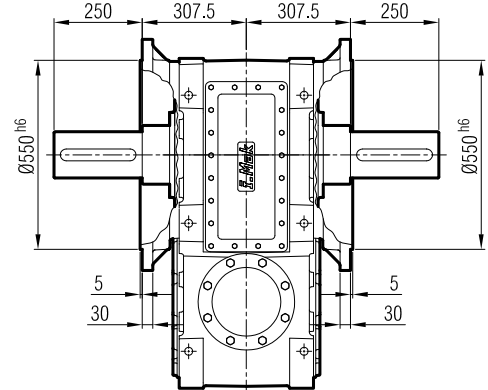
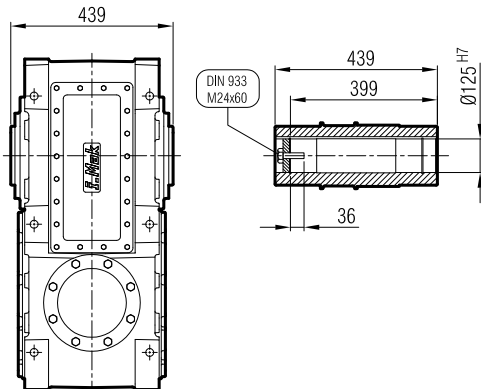
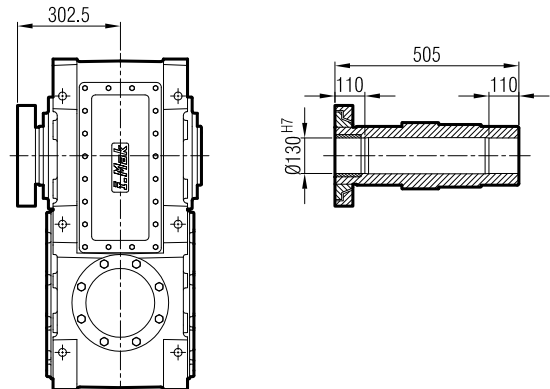
G04



G05

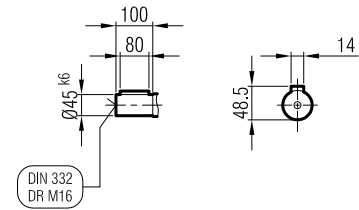
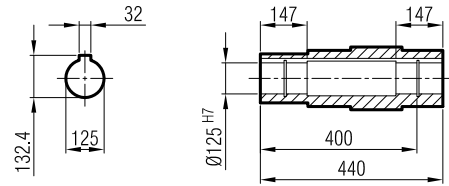
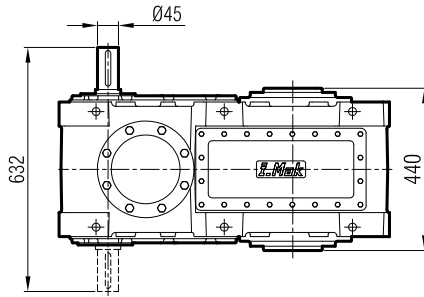
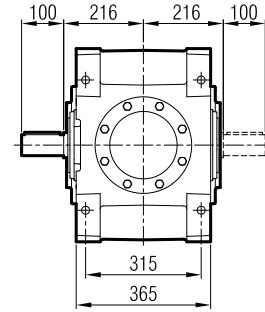
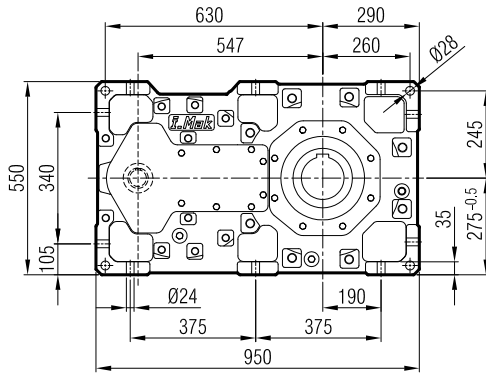


G06

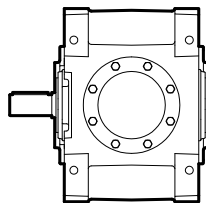

MA / MK 80_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




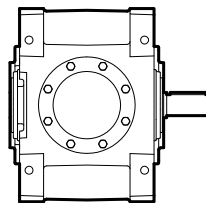
MA 803



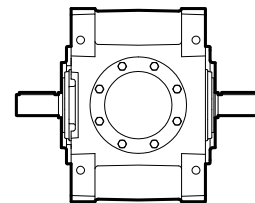
Giriş Seçenekleri / Input Options / Option d'entree



G00



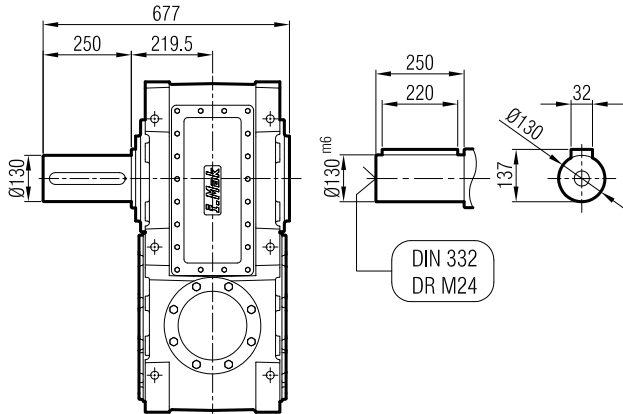
G01



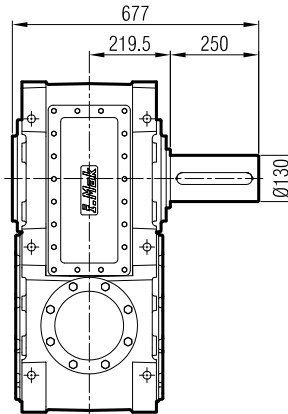
G02



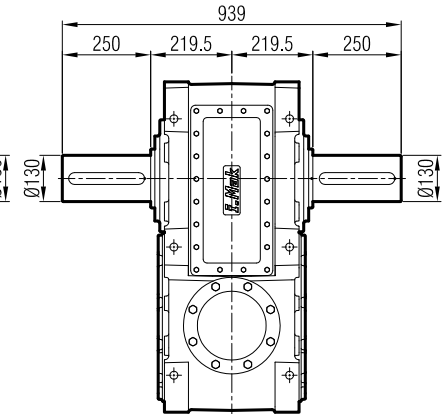
MA / MK 80_
...-SL



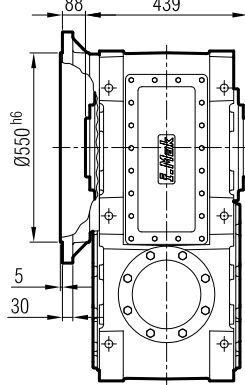
...-SR



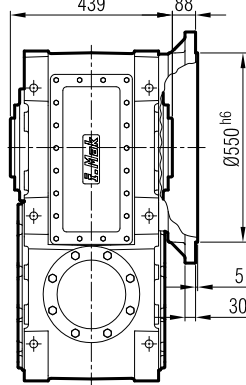
...-SD



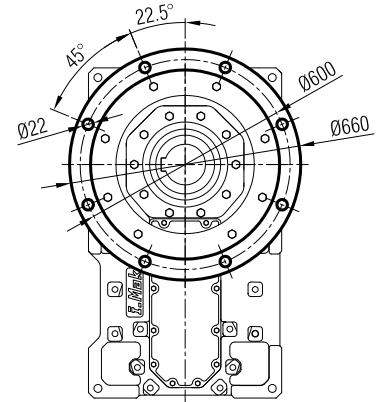
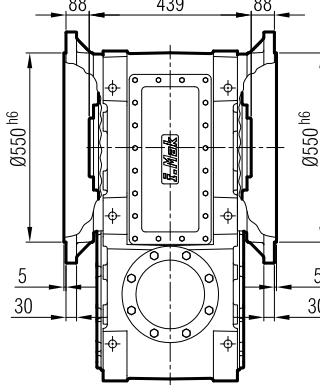
...-FL



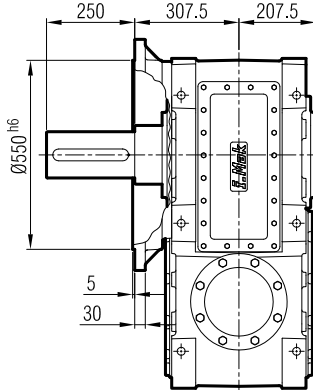
...-FR



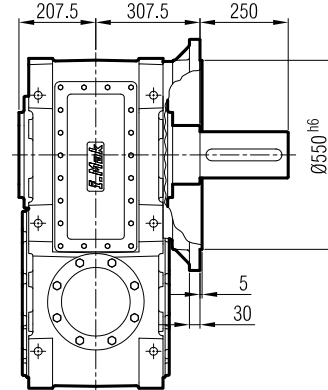
...-FD



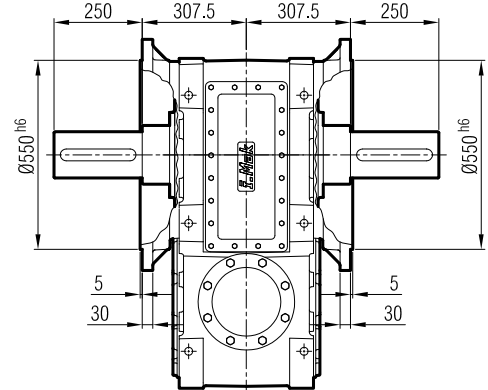
...-FL-SL



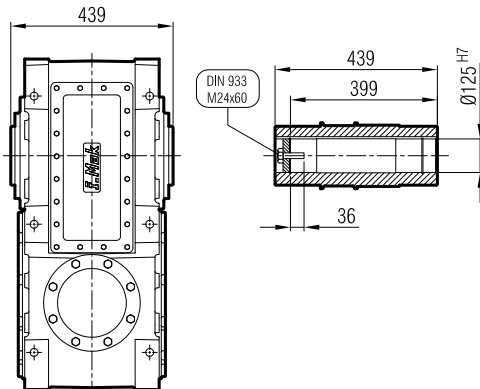
...-FR-SR



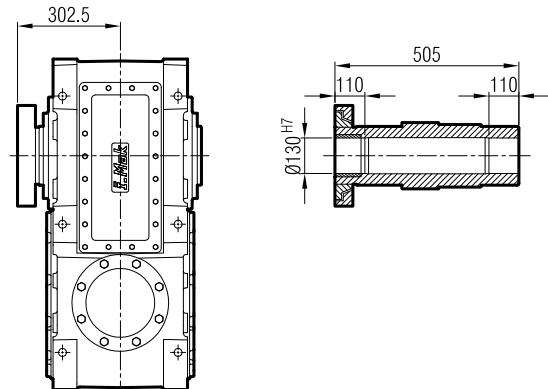
...-FD-SD

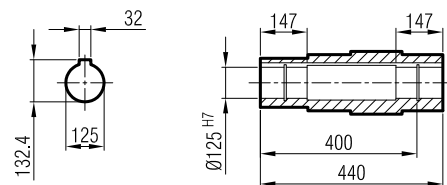
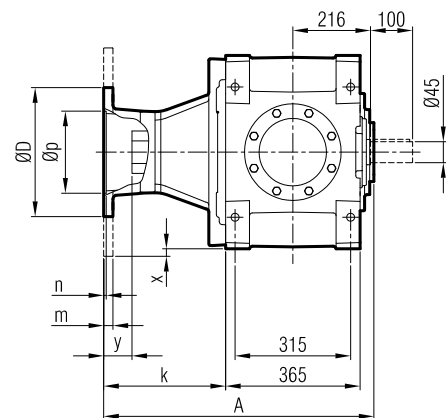
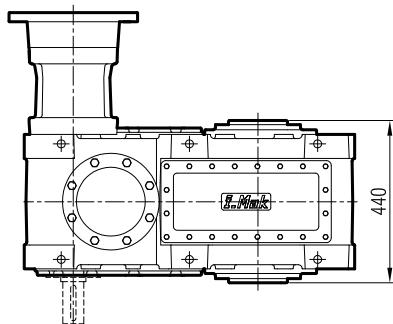
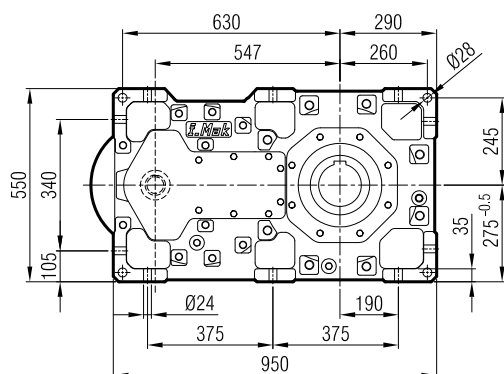


...-H

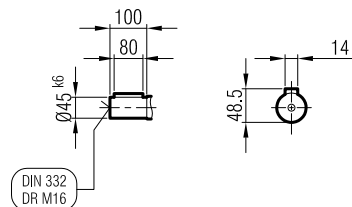
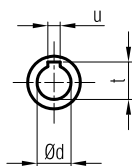
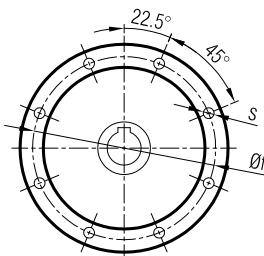
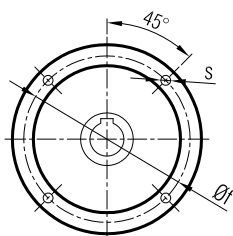


...-SDL / SDR



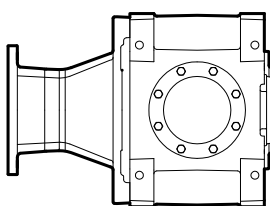
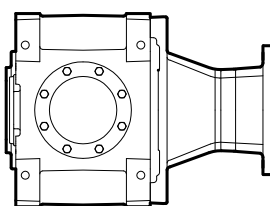
**MAP 803** ≤ 200 B5 **Tip**/Type/Typ

≥ 225 B5 **Tip**/Type/Typ

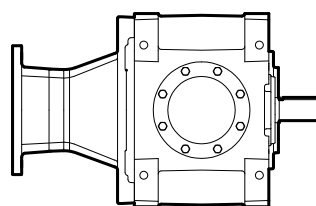
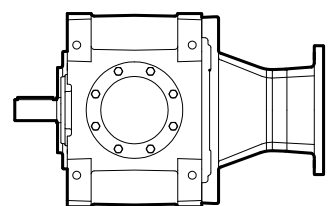


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	649	250	300	350	M14	247	20	6	42	45.3	12	-	50
180/B5	649	250	300	350	M14	247	20	6	48	51.8	14	-	50
200/B5	649	300	350	400	M16	247	22	6	55	59.3	16	-	50
225/B5	692	350	400	450	M16	290	22	6	60	64.4	18	-	79
250/B5	692	450	500	550	M16	290	25	6.5	65	69.4	18	0	75
280/B5	692	450	500	550	M16	290	25	6.5	75	75.9	20	0	65

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

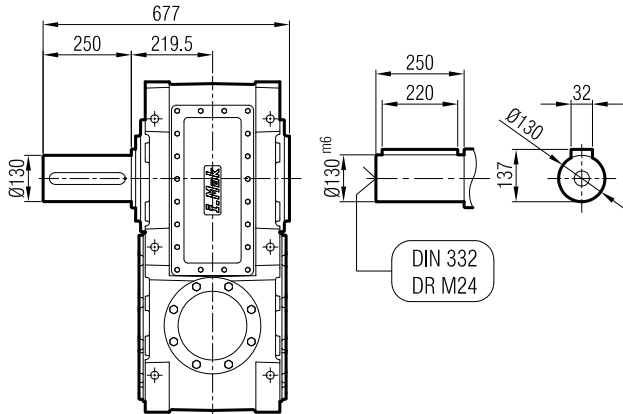
G04

**G05**

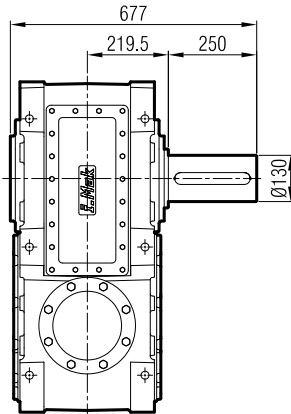
G06



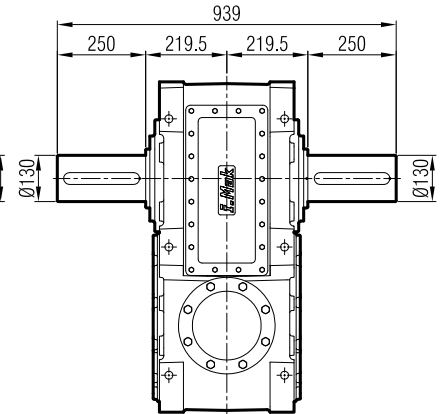
MA / MK 80_
...-SL



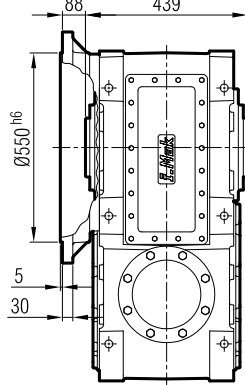
...-SR



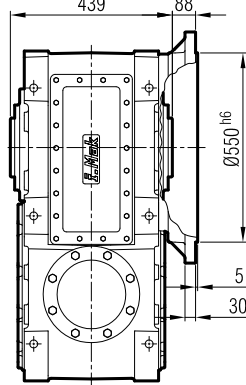
...-SD



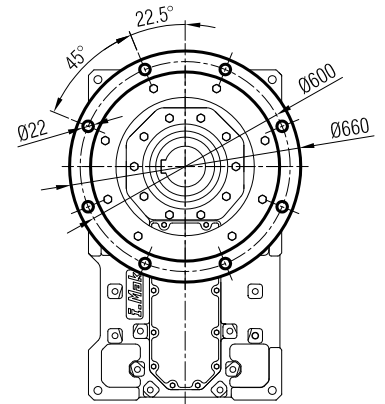
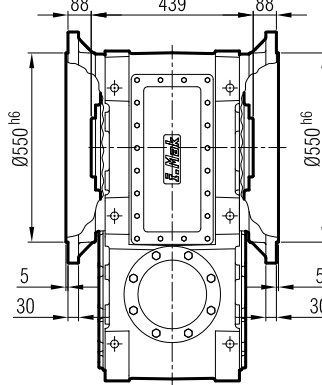
...-FL



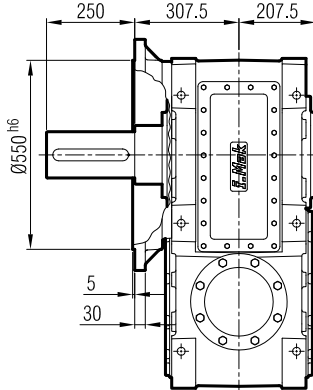
...-FR



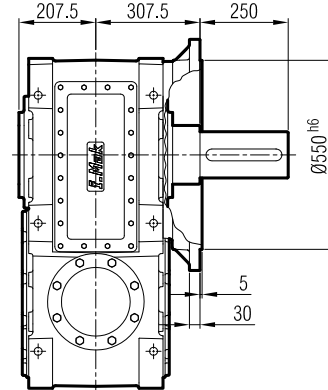
...-FD



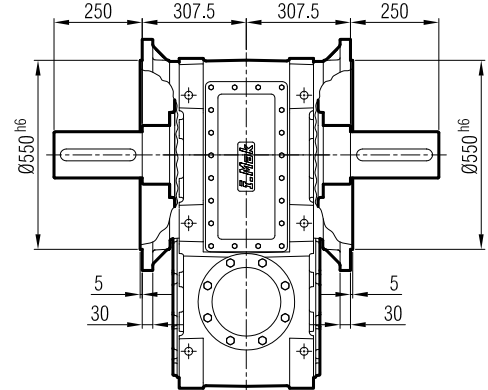
...-FL-SL



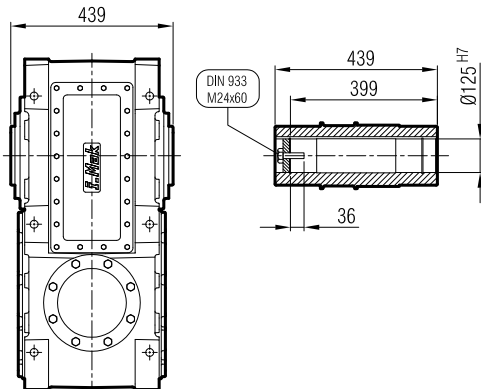
...-FR-SR



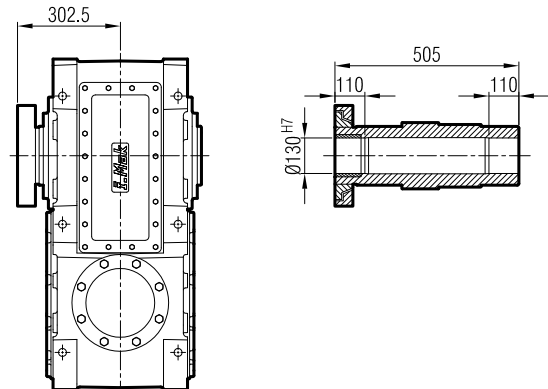
...-FD-SD



...-H

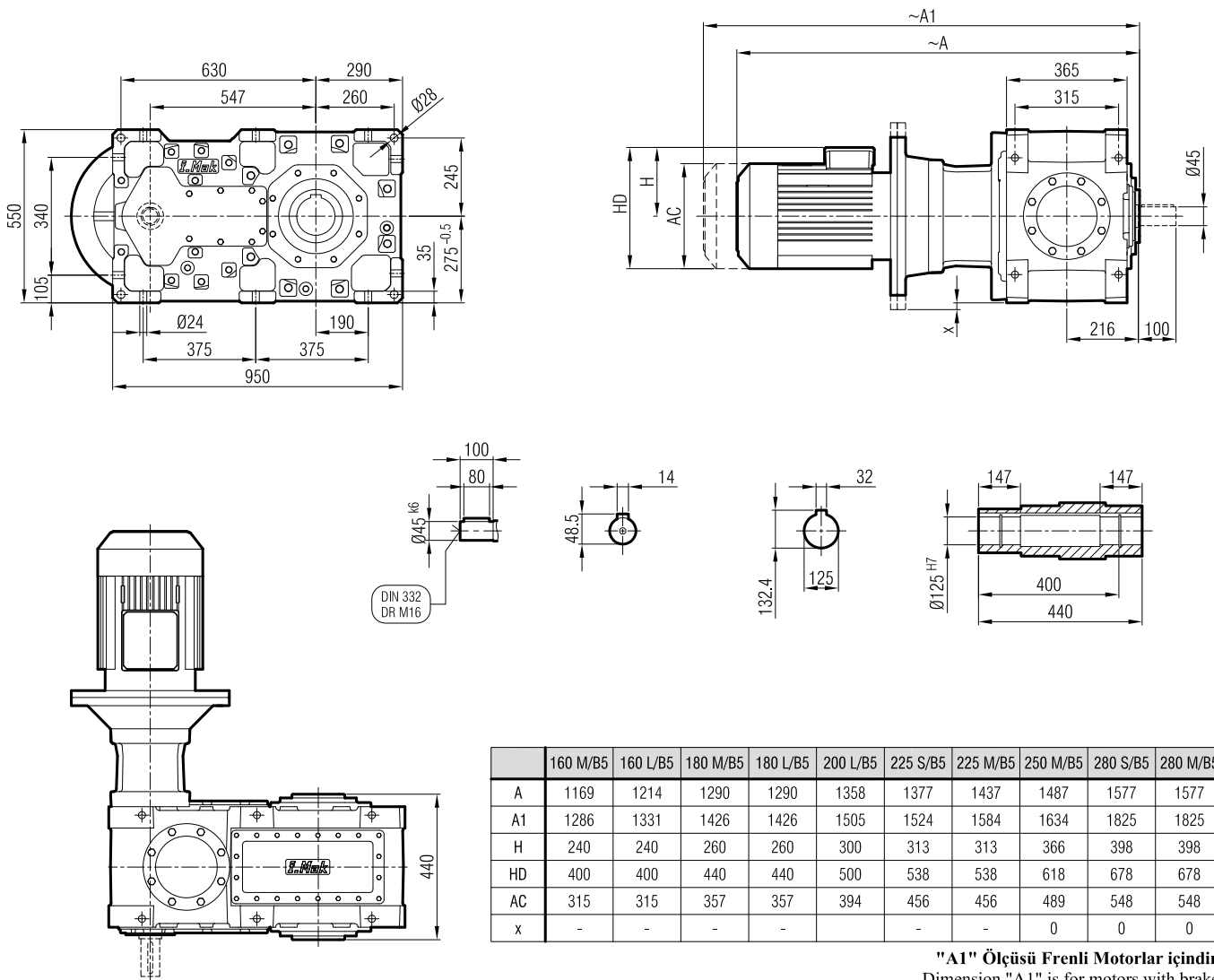


...-SDL / SDR





MAM 803

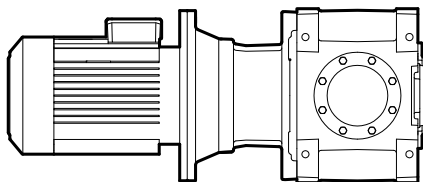
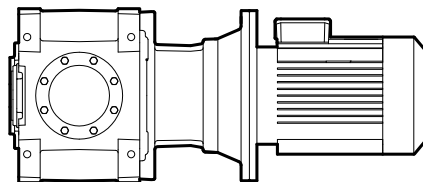


"A1" Ölçüsü Frenli Motorlar içindir.

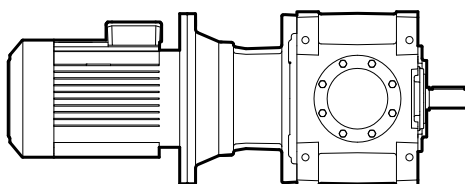
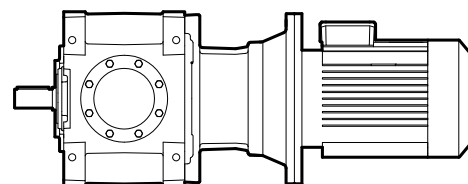
Dimension "A1" is for motors with brake.

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

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

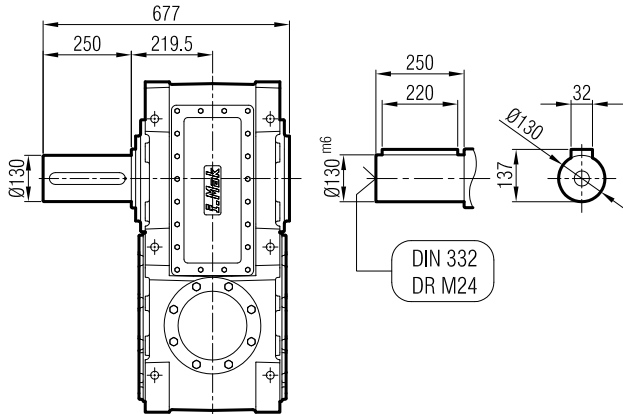
G04

**G05**

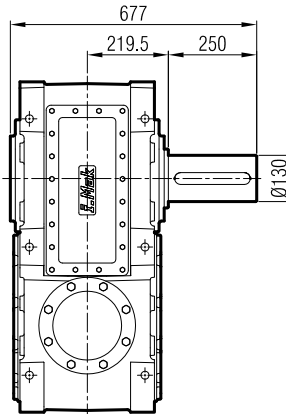
G06



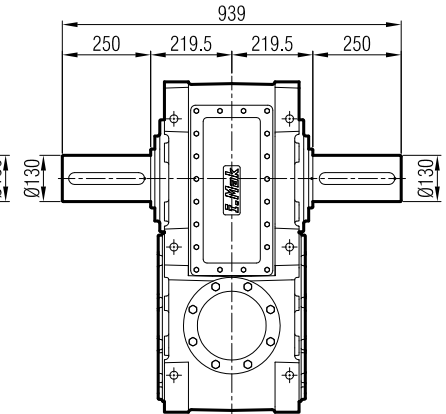
MA / MK 80_
...-SL



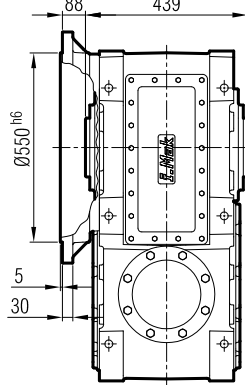
...-SR



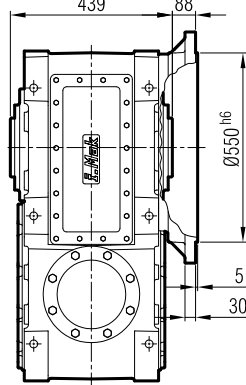
...-SD



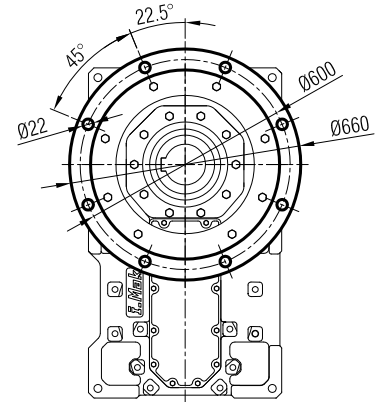
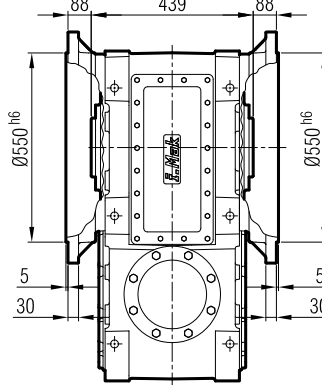
...-FL



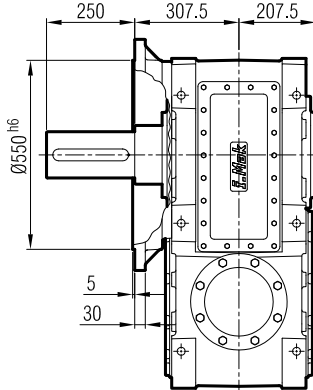
...-FR



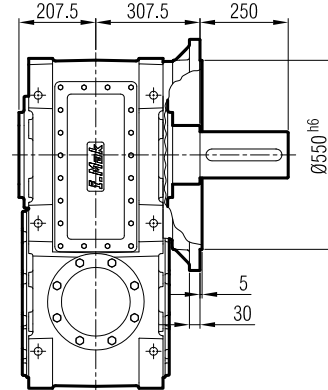
...-FD



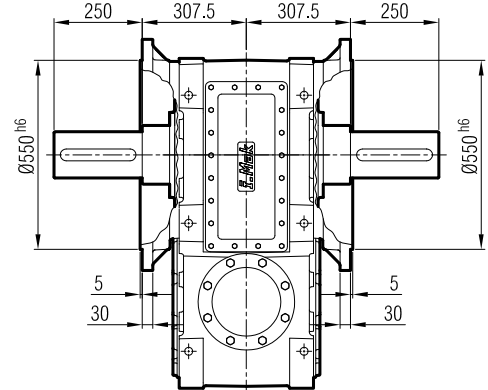
...-FL-SL



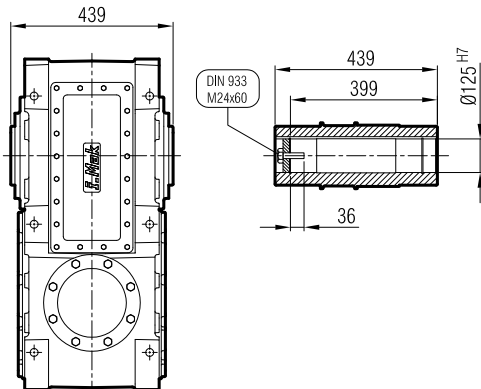
...-FR-SR



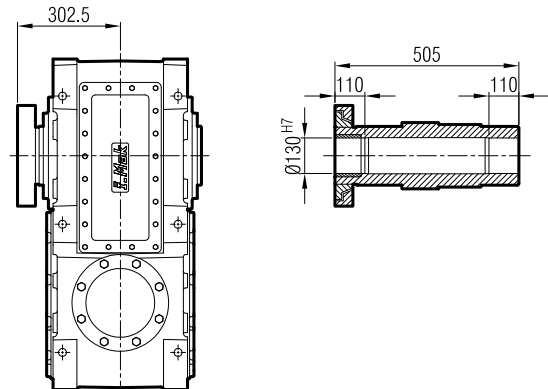
...-FD-SD



...-H

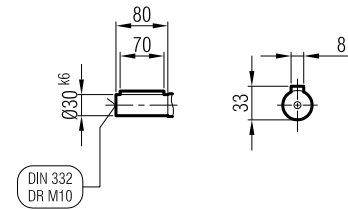
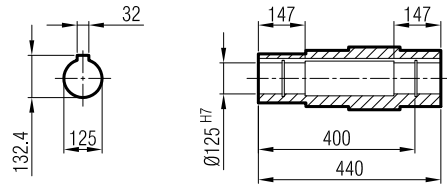
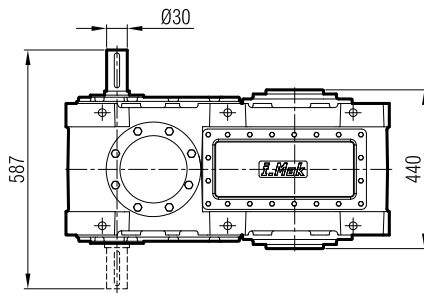
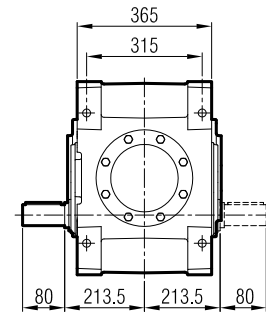
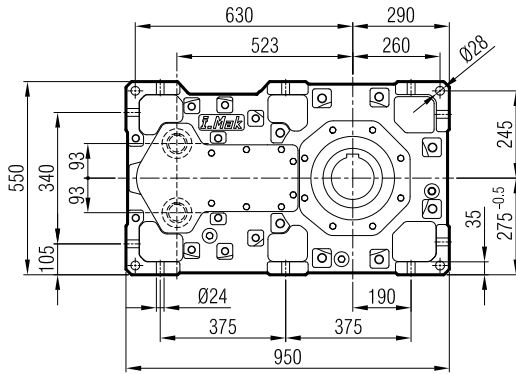


...-SDL / SDR

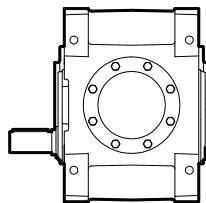




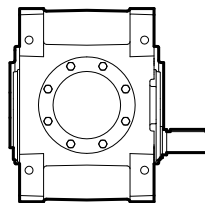
MA 804



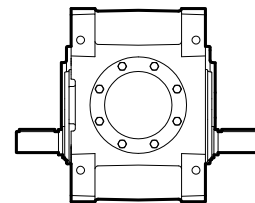
Giriş Seçenekleri / Input Options / Option d'entree



G00



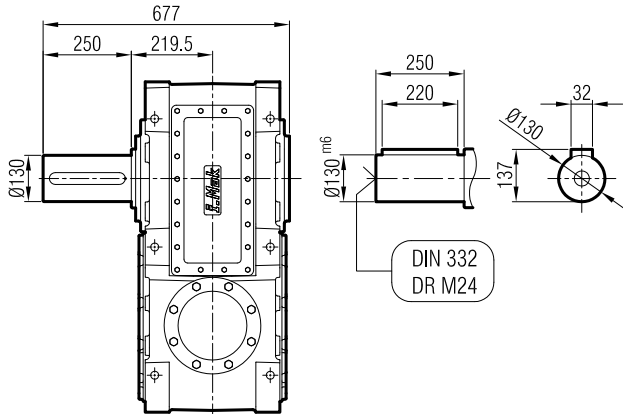
G01



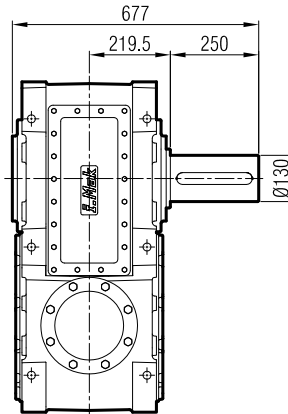
G02



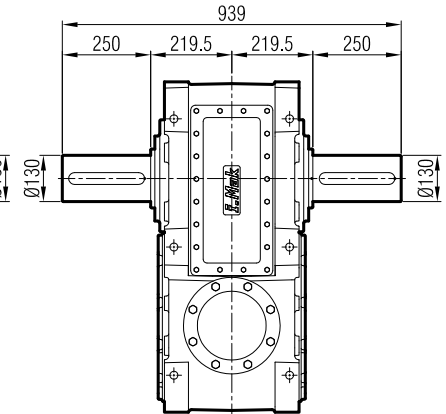
MA / MK 80_
...-SL



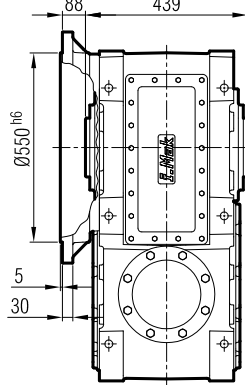
...-SR



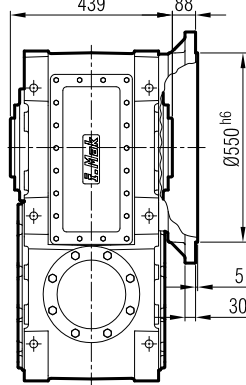
...-SD



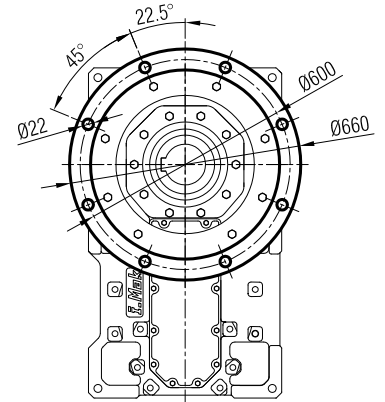
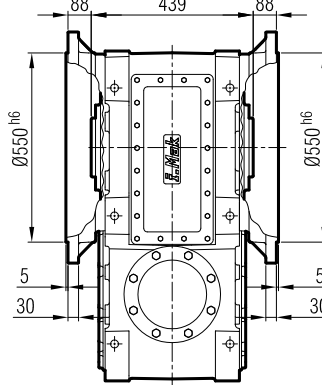
...-FL



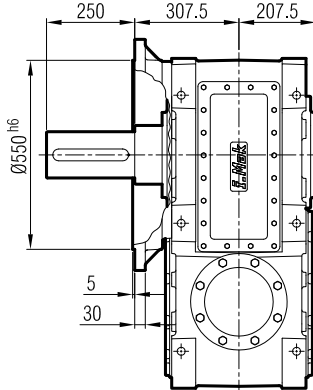
...-FR



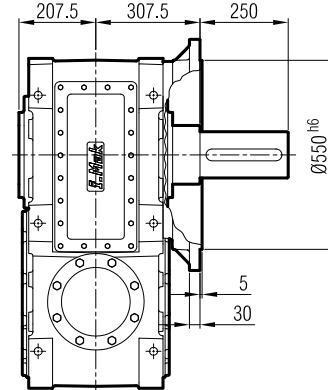
...-FD



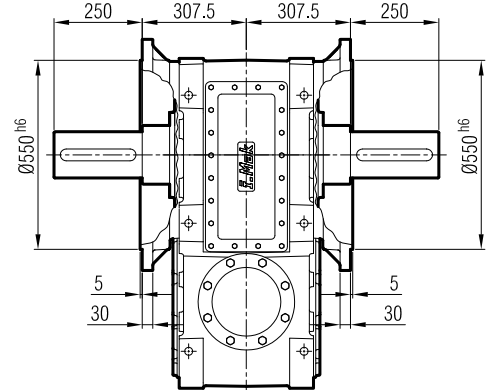
...-FL-SL



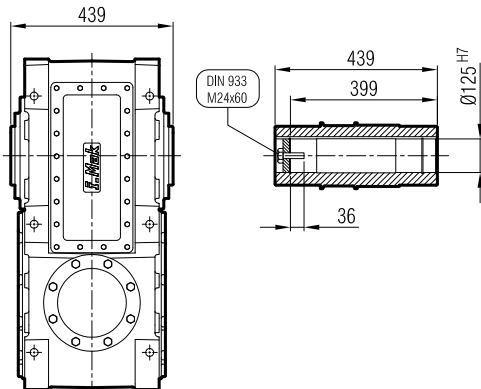
...-FR-SR



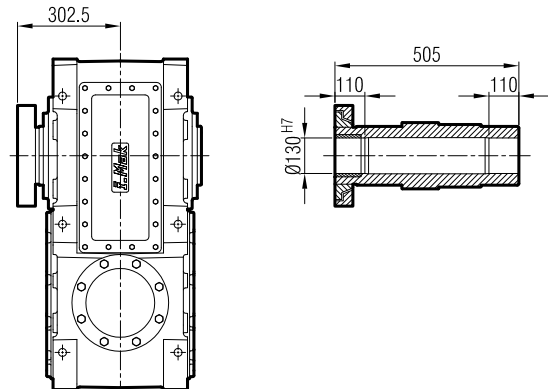
...-FD-SD



...-H

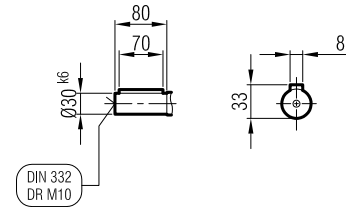
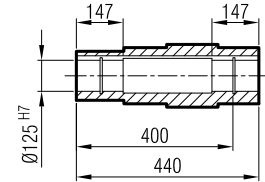
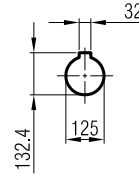
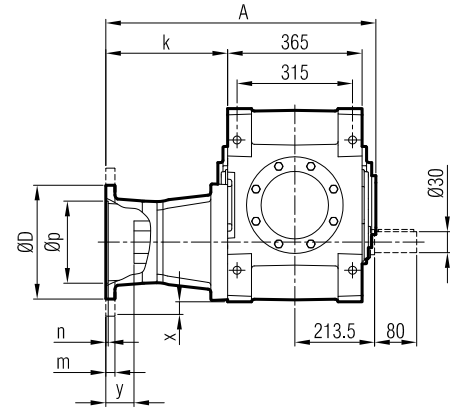
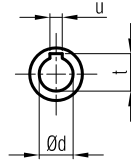
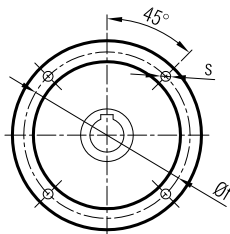
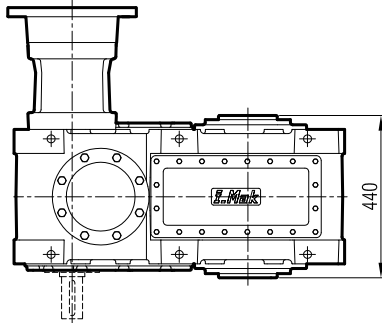
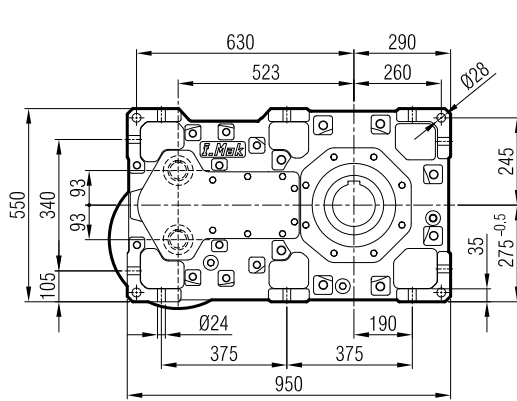


...-SDL / SDR



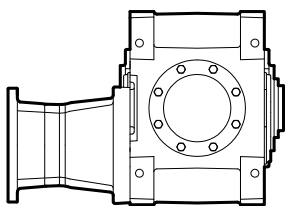


MAP 804

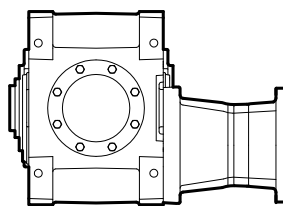


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
100/B5	590	180	215	250	M12	188	15	5	28	31.3	8	-	31
112/B5	590	180	215	250	M12	188	15	5	28	31.3	8	-	31
132/B5	610	230	265	300	M12	208	18	6	38	41.3	10	-	45
160/B5	627	250	300	350	M14	225	20	6	42	45.3	12	-	70
180/B5	627	250	300	350	M14	225	20	6	48	51.8	14	-	60

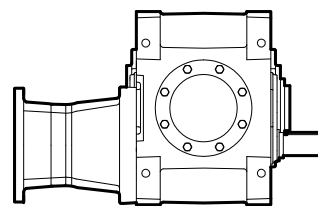
Giriş Seçenekleri / Input Options / Option d'entree



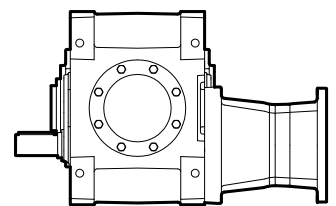
G03



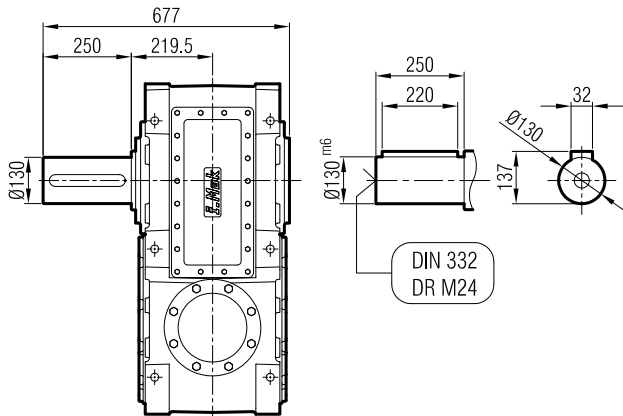
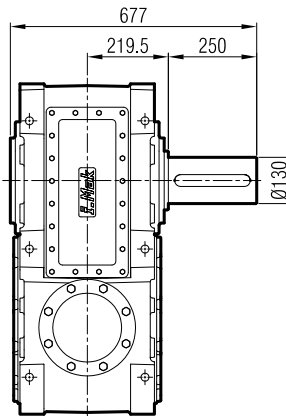
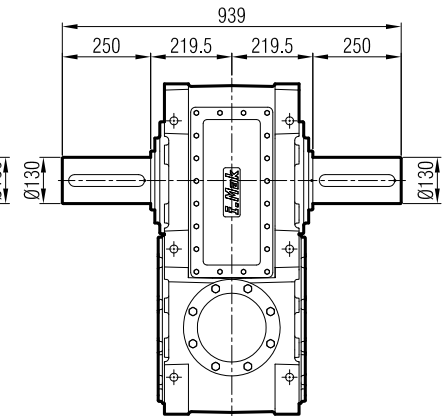
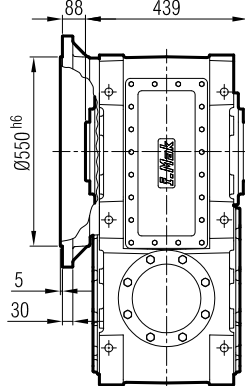
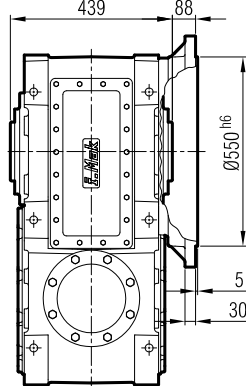
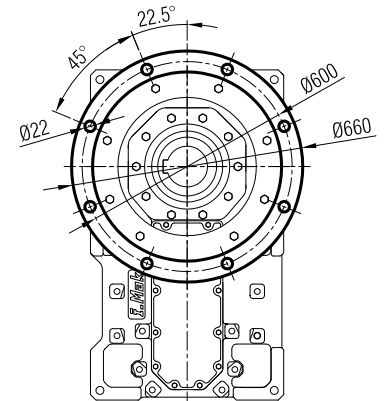
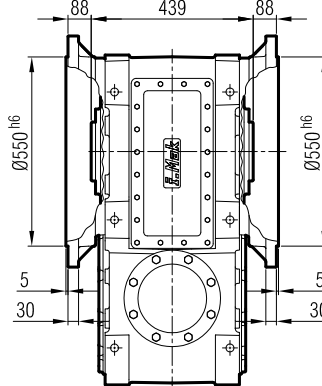
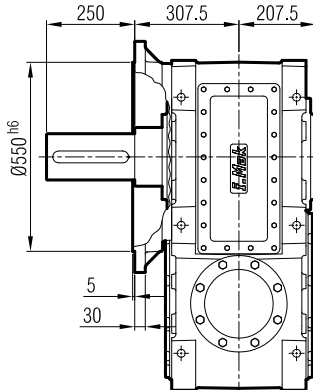
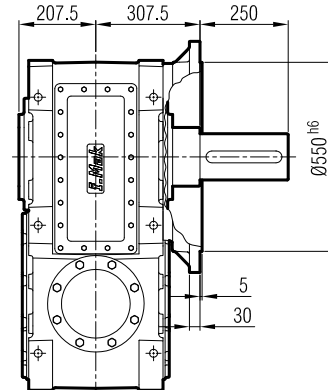
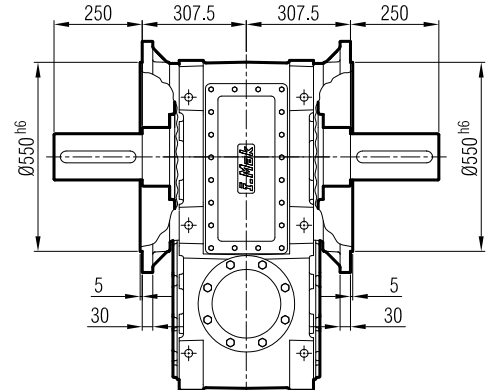
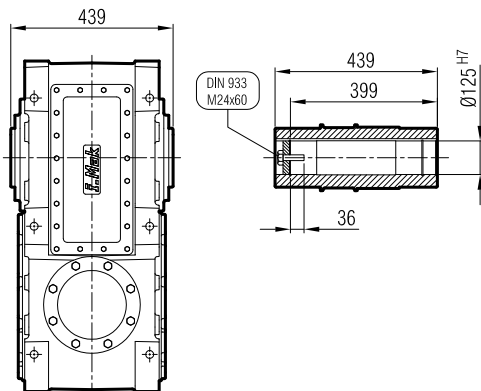
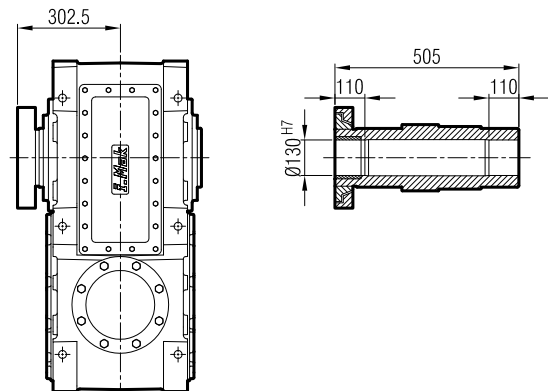
G04



G05

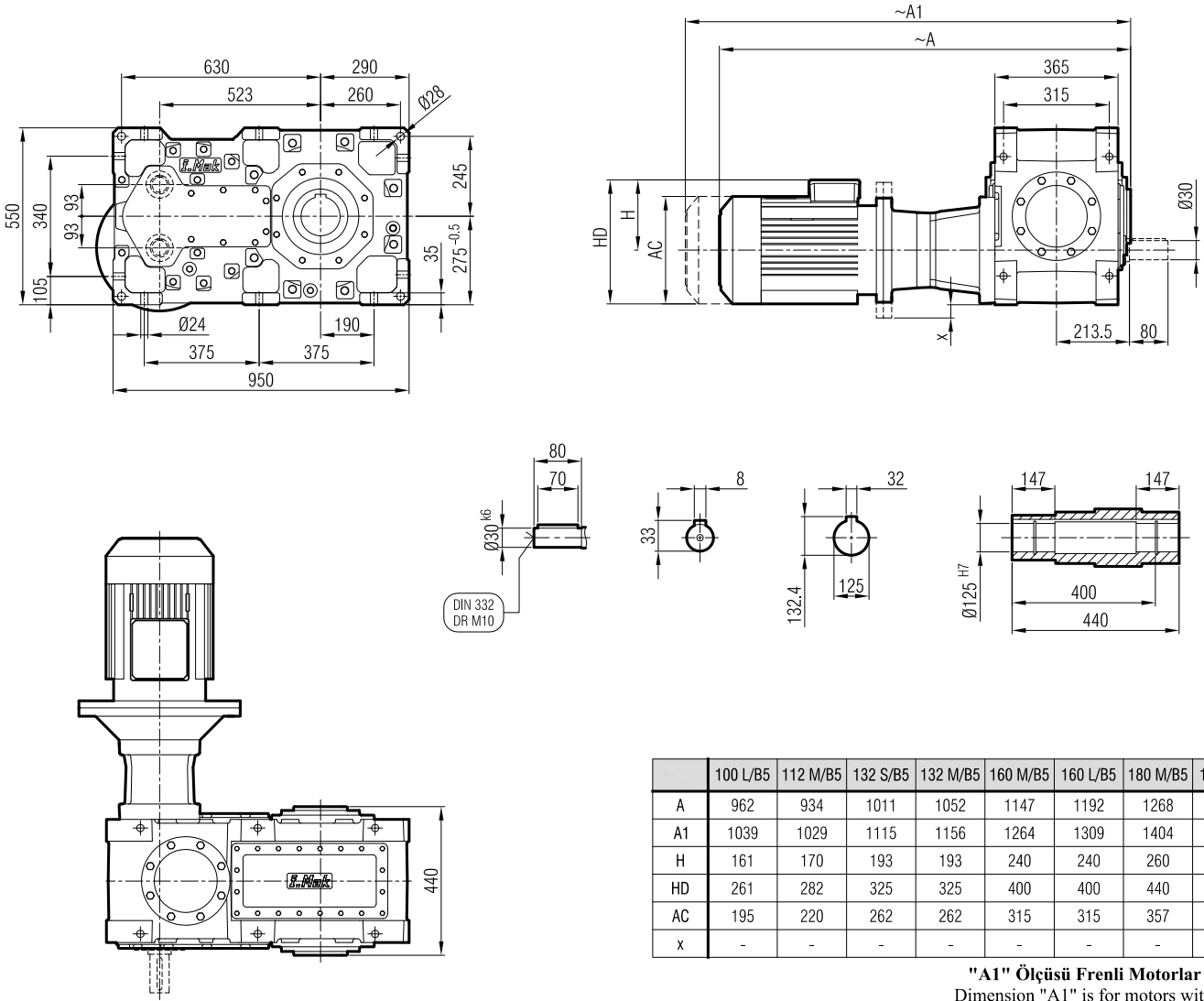


G06


MA / MK 80_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




MAM 804

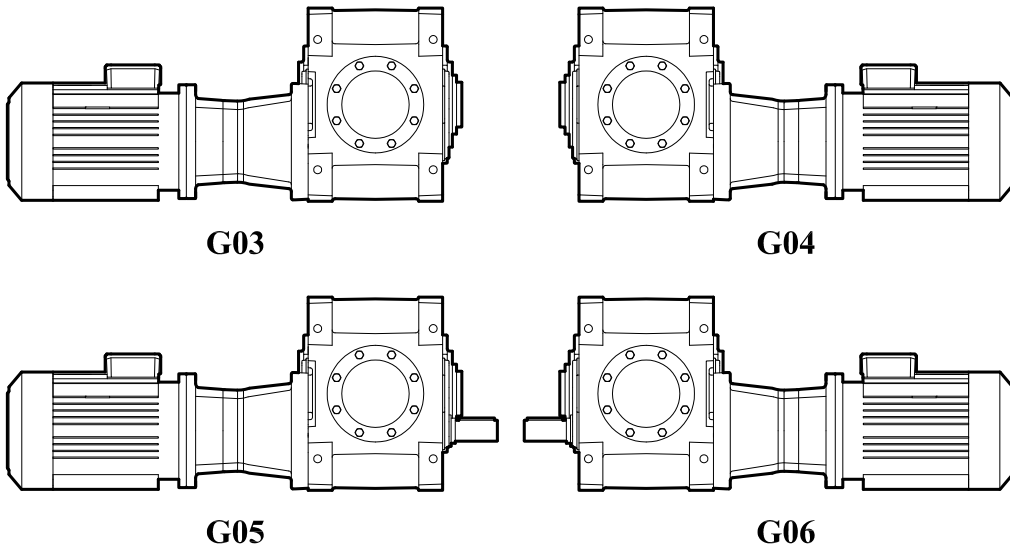


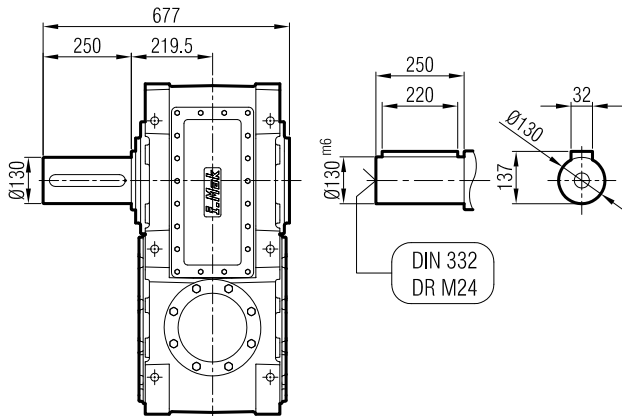
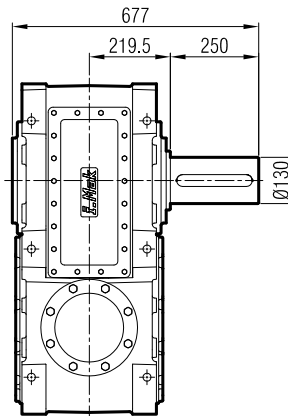
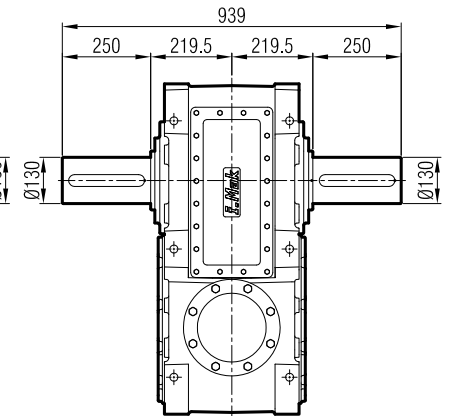
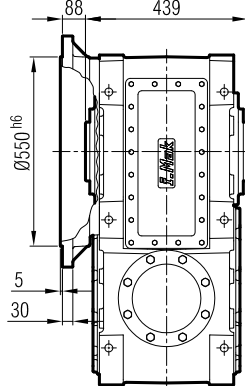
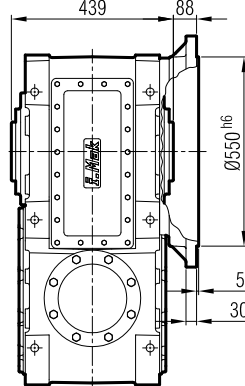
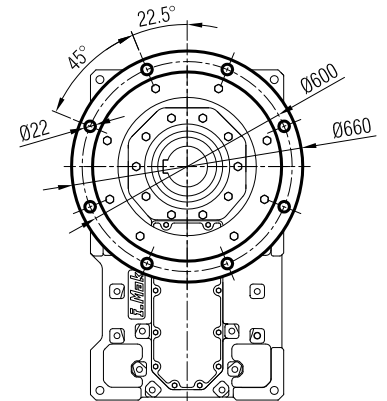
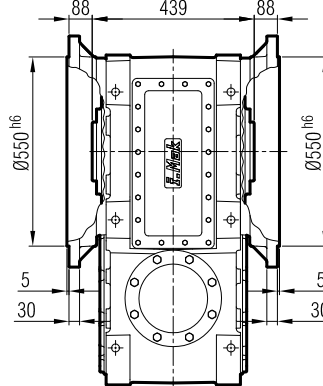
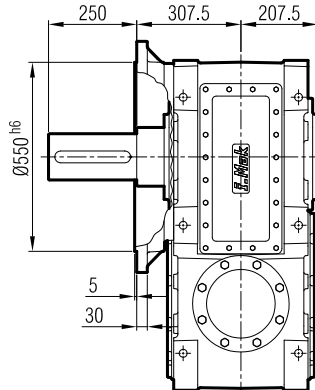
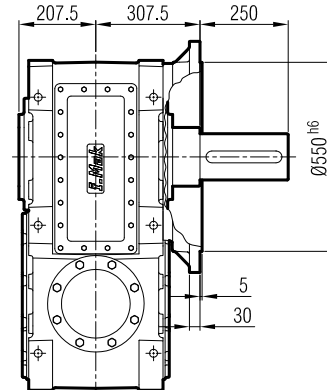
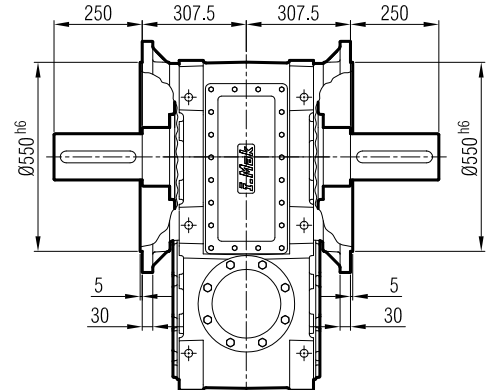
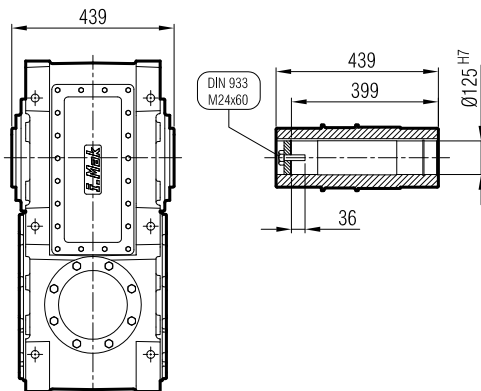
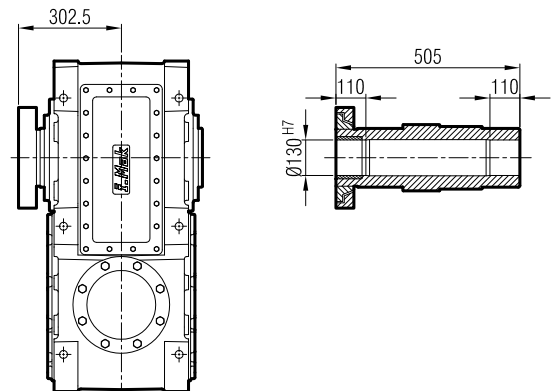
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

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

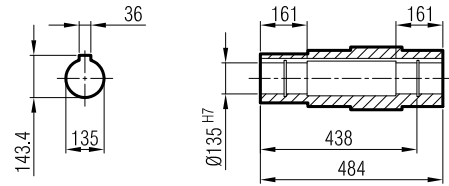
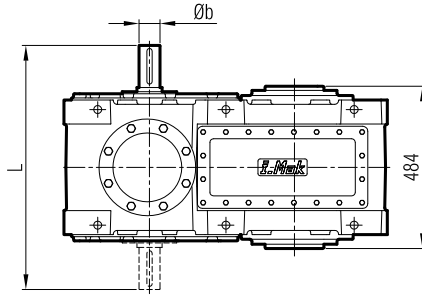
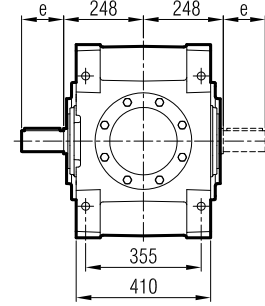
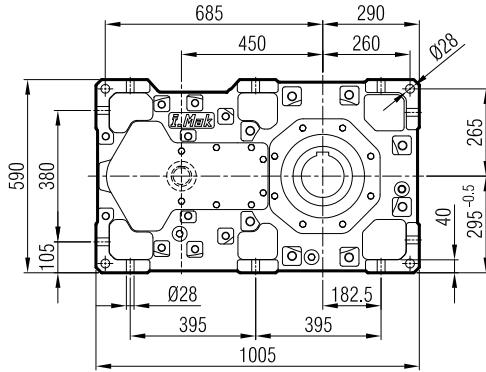
Giriş Seçenekleri / Input Options / Option d'entree



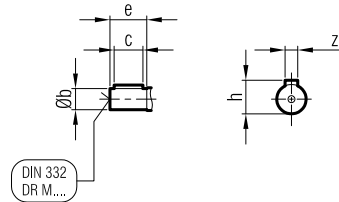

MA / MK 80_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




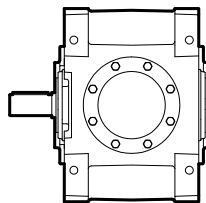
MA 902



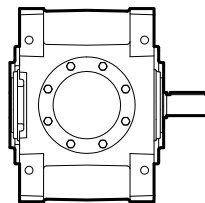
Tahvil / Ratio	Øb	e	z	c	h	M	L
i: 19,29 ... 12,20	60 ^{m6}	140	18	100	64	M16	776
i: 11,55 ... 5,88	75 ^{m6}	140	20	125	79.5	M20	776



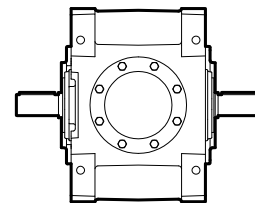
Giriş Seçenekleri / Input Options / Option d'entree



G00



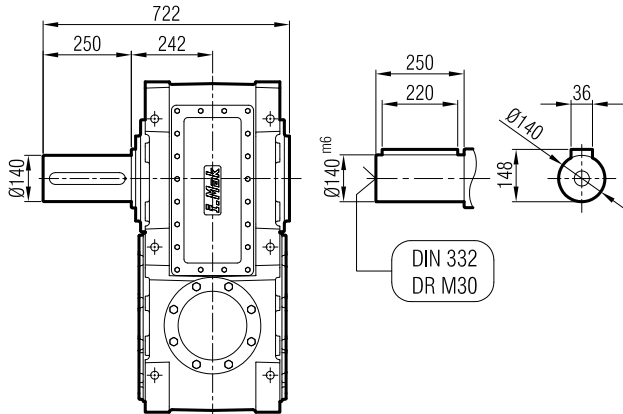
G01



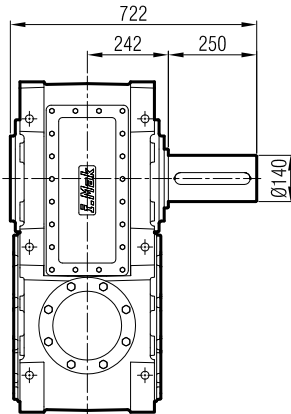
G02



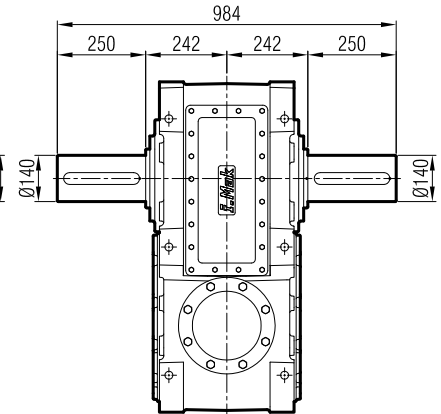
MA / MK 90_
...-SL



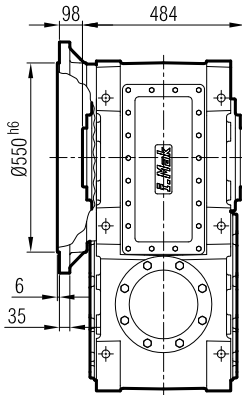
...-SR



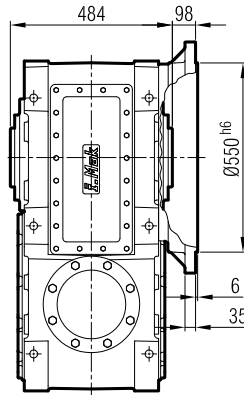
...-SD



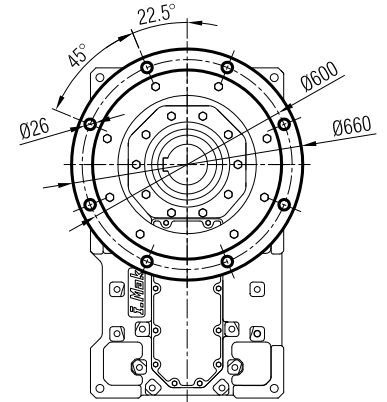
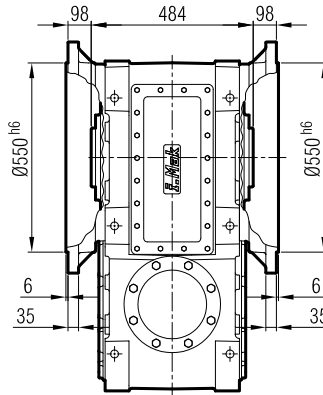
...-FL



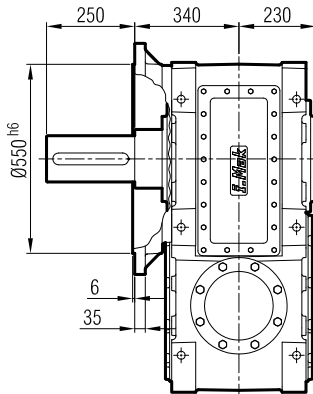
...-FR



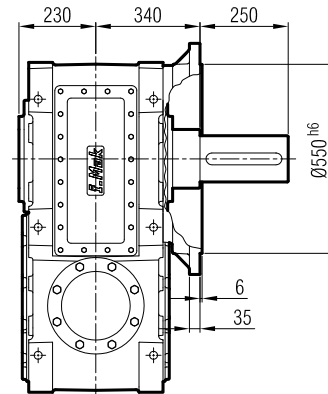
...-FD



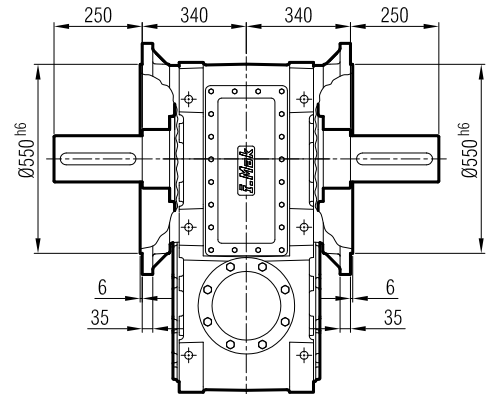
...-FL-SL



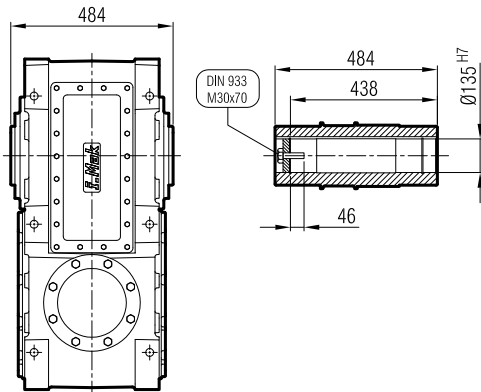
...-FR-SR



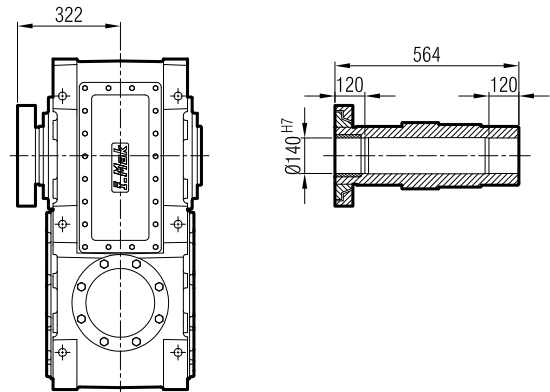
...-FD-SD

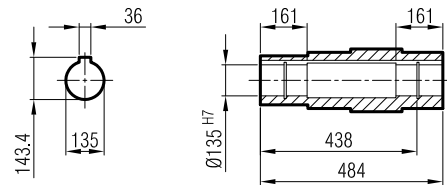
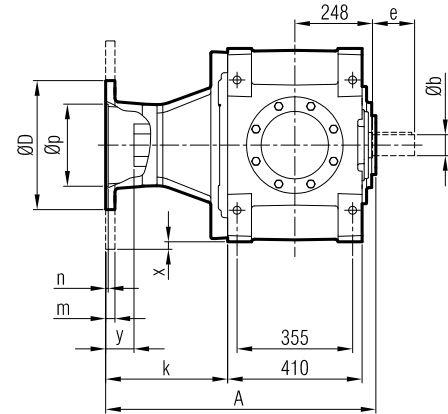
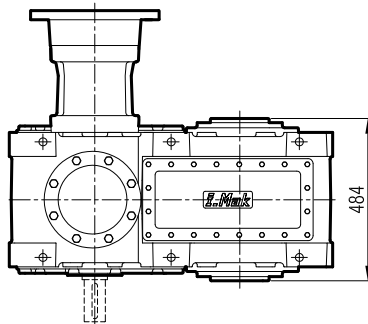
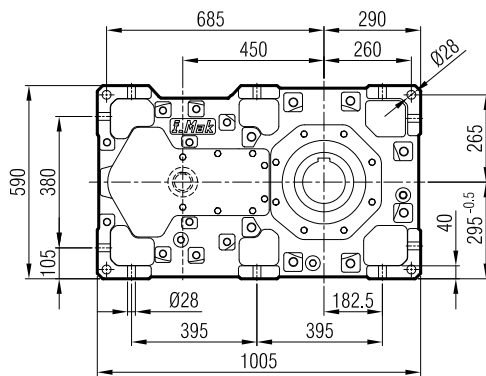


...-H

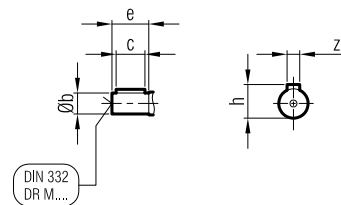
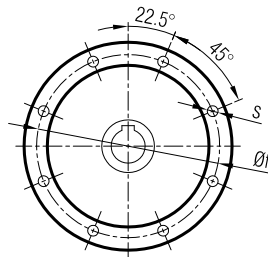
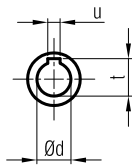


...-SDL / SDR



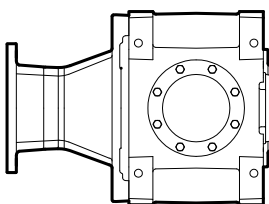
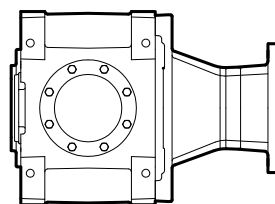
**MAP 902**

TahvII / Ratlo	Øb	e	z	c	h	M
i: 19,29 ... 12,20	60 ^{m6}	140	18	100	64	M16
i: 11,55 ... 5,88	75 ^{m6}	140	20	125	79.5	M20

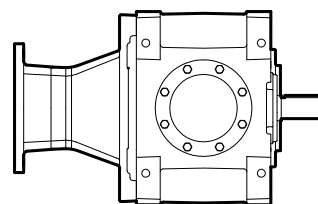
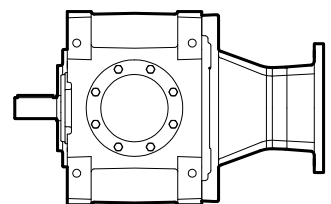


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y (i:≥12,20)	y (i:≤11,55)
280/B5	783	450	500	550	M16	336	25	6.5	75	79.9	20	-	65	44
315/B5	813	550	600	660	M24	366	30	7	85	90.4	22	35	90	74

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

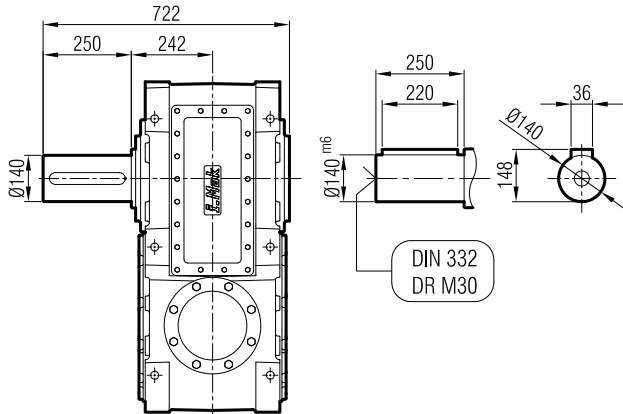
G04

**G05**

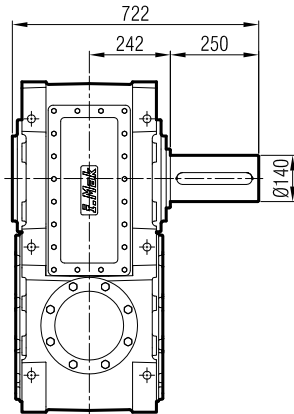
G06



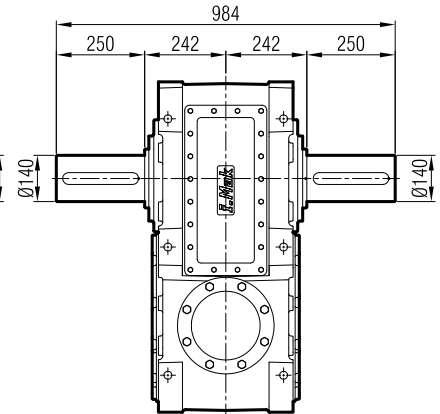
MA / MK 90_
...-SL



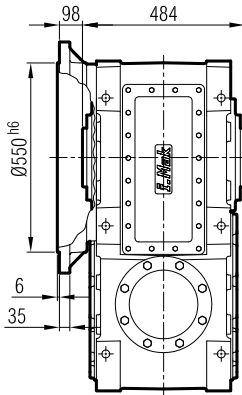
...-SR



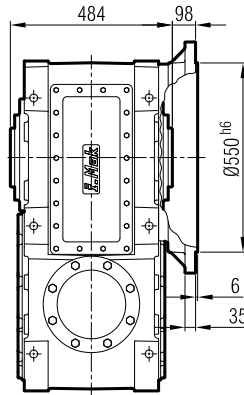
...-SD



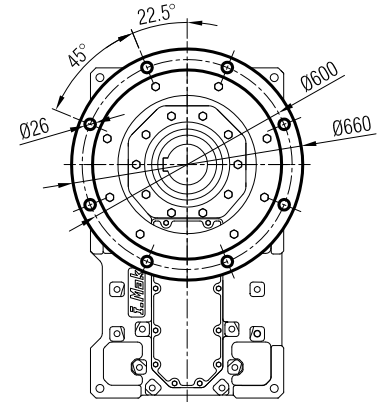
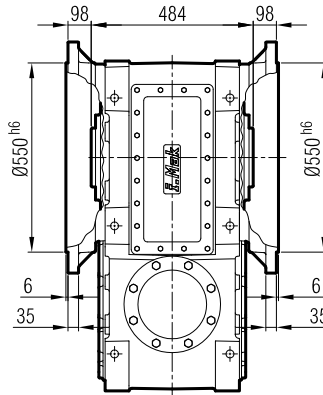
...-FL



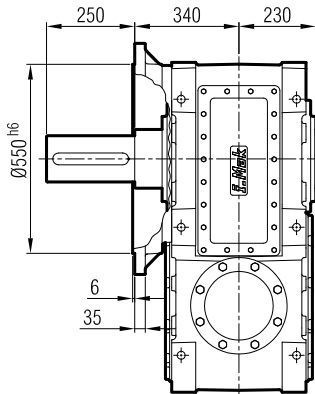
...-FR



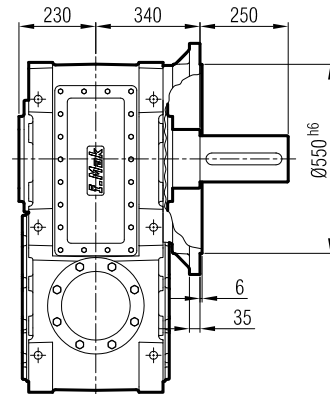
...-FD



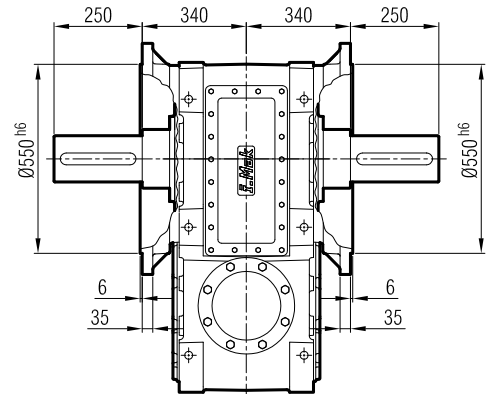
...-FL-SL



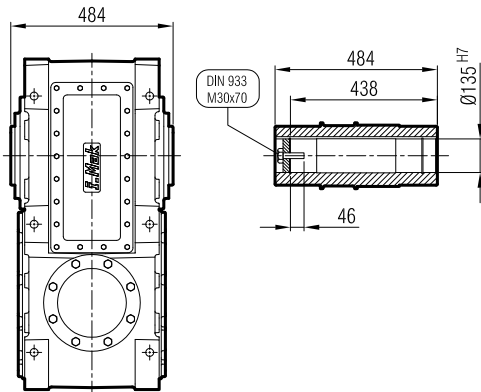
...-FR-SR



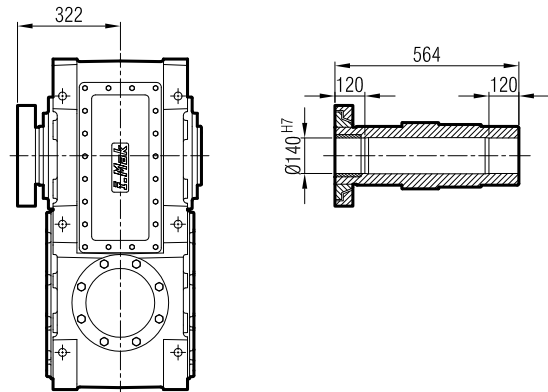
...-FD-SD



...-H

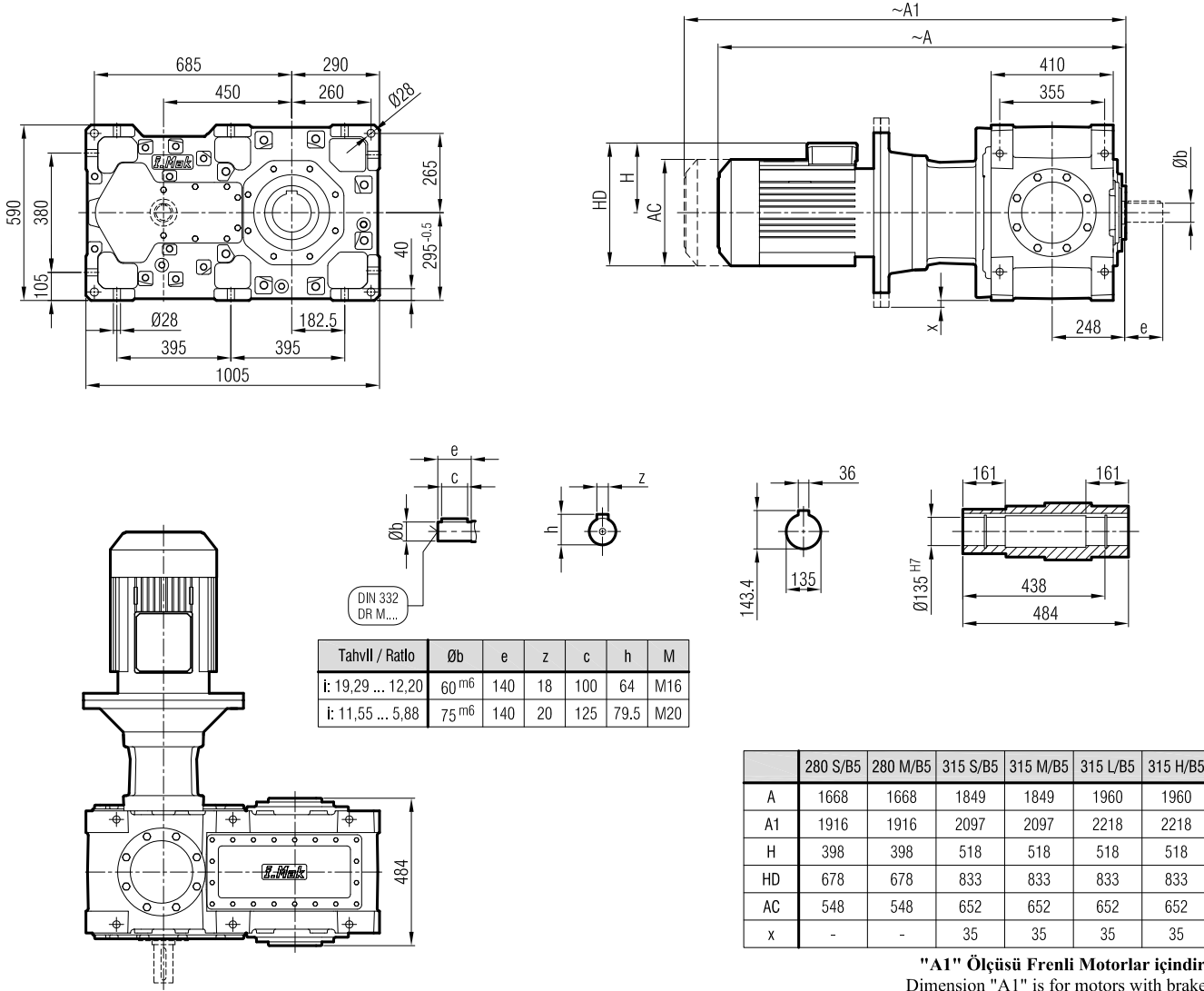


...-SDL / SDR





MAM 902

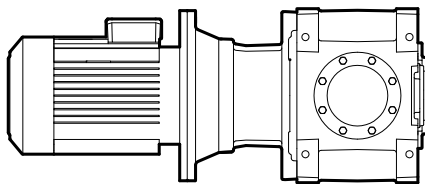


"A1" Ölçüsü Frenli Motorlar içindir.

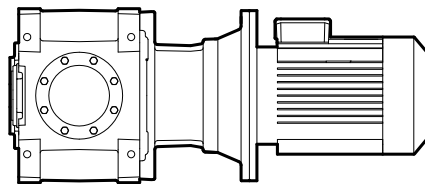
Dimension "A1" is for motors with brake.

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

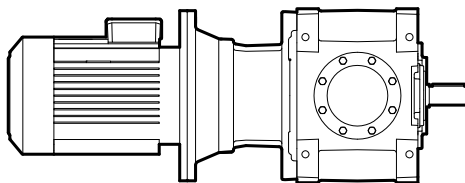
Giriş Seçenekleri / Input Options / Option d'entree



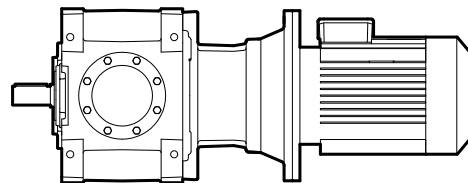
G03



G04



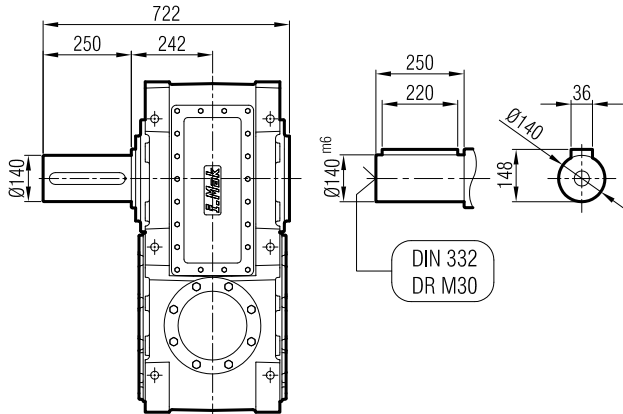
G05



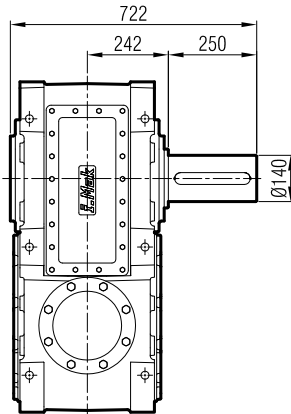
G06



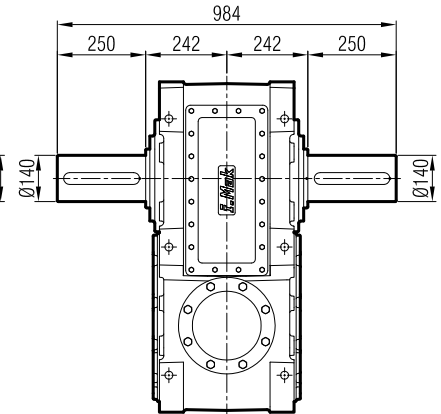
MA / MK 90_
...-SL



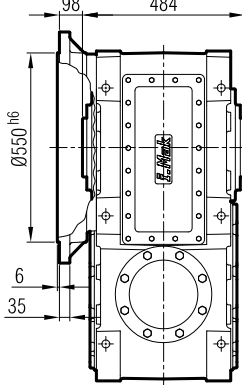
...-SR



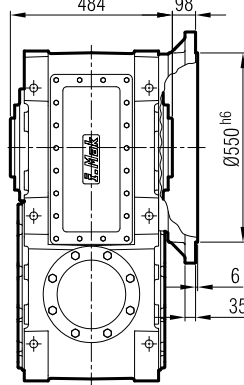
...-SD



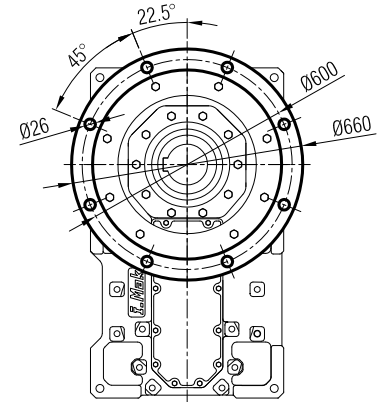
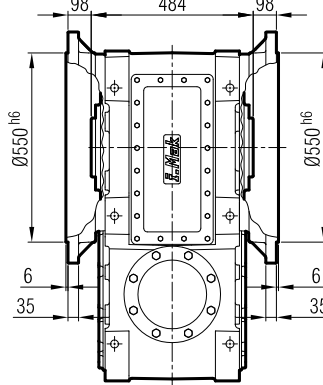
...-FL



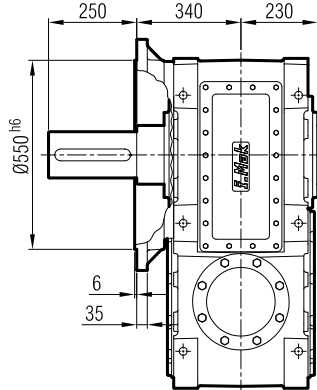
...-FR



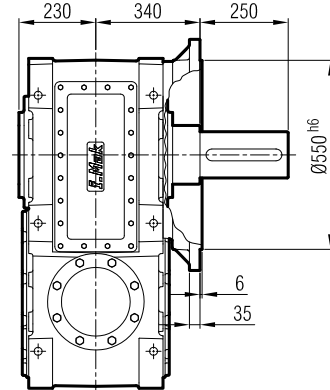
...-FD



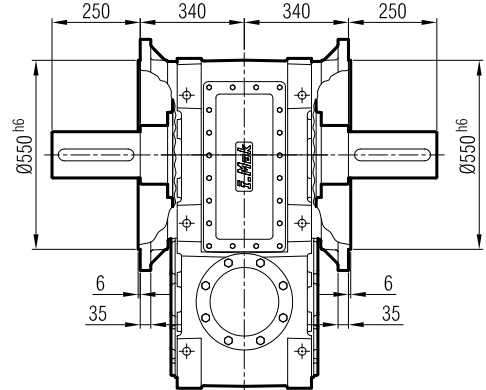
...-FL-SL



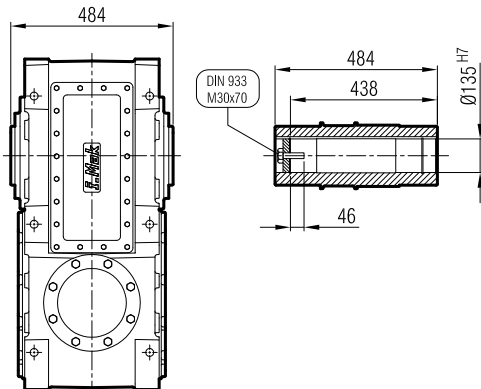
...-FR-SR



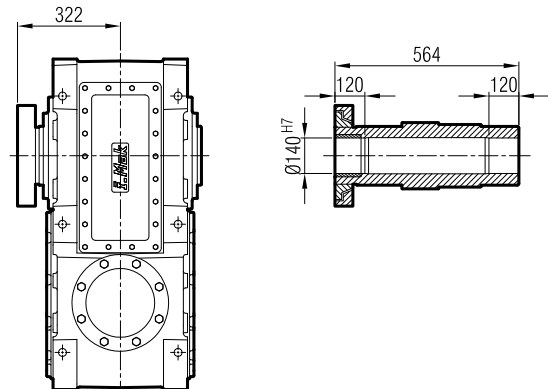
...-FD-SD



...-H

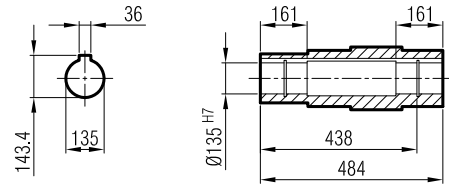
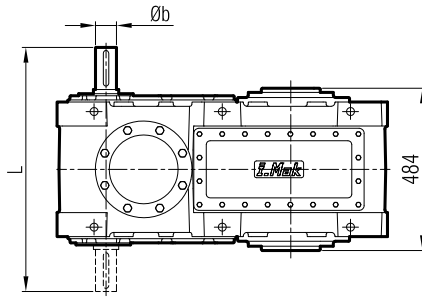
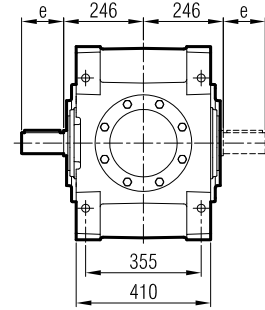
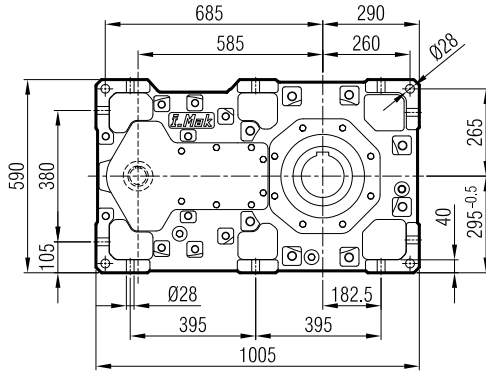


...-SDL / SDR

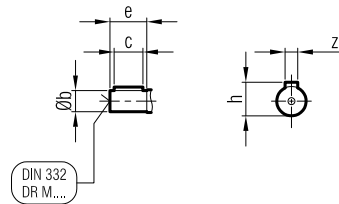




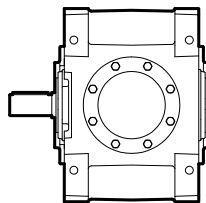
MA 903



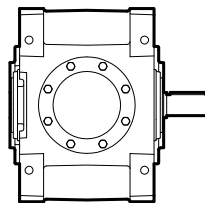
Tahvil / Ratio	Øb	e	z	c	h	M	L
i: 89,63 ... 52,05	45 ^{k6}	120	14	100	48.5	M16	733
i: 49,17 ... 21,16	55 ^{m6}	120	16	110	59	M20	733



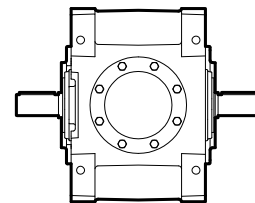
Giriş Seçenekleri / Input Options / Option d'entree



G00



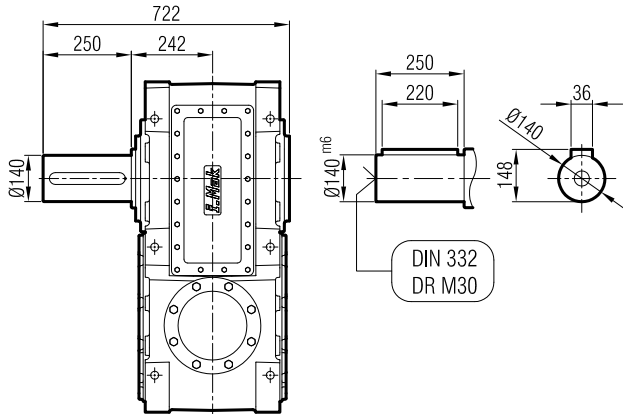
G01



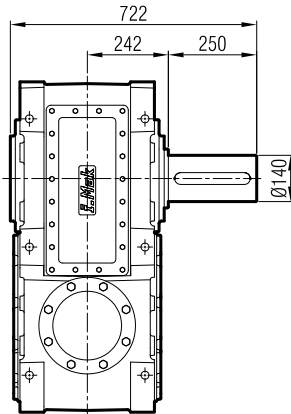
G02



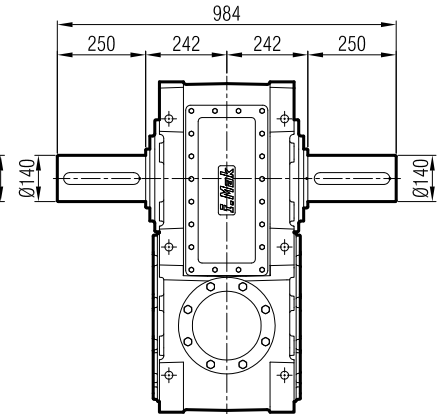
MA / MK 90_
...-SL



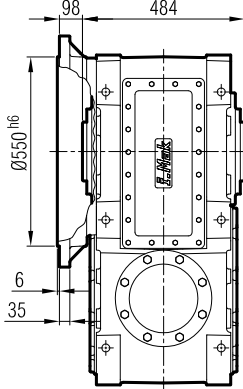
...-SR



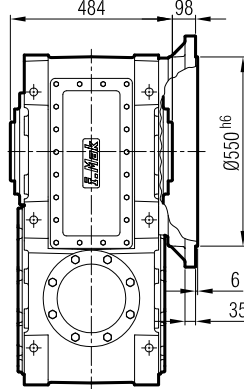
...-SD



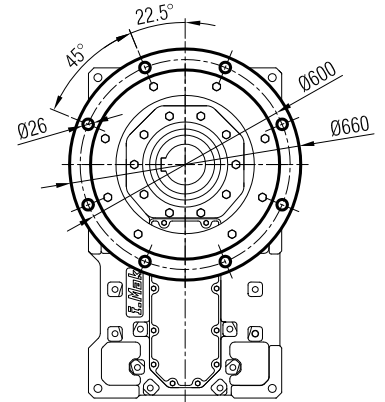
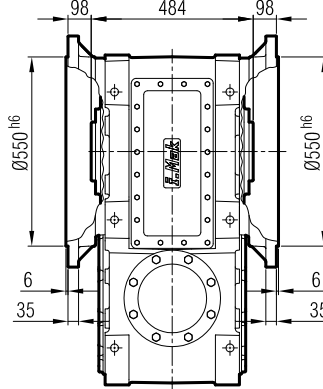
...-FL



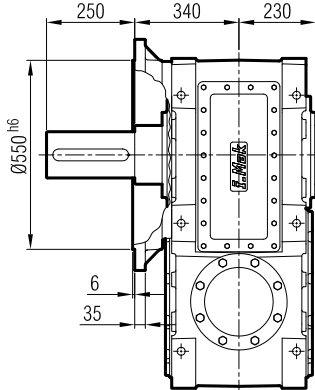
...-FR



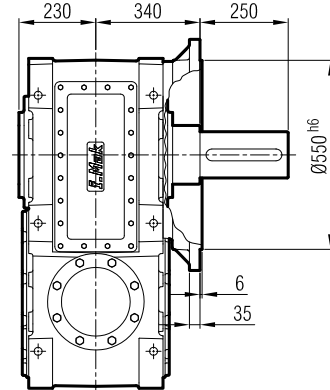
...-FD



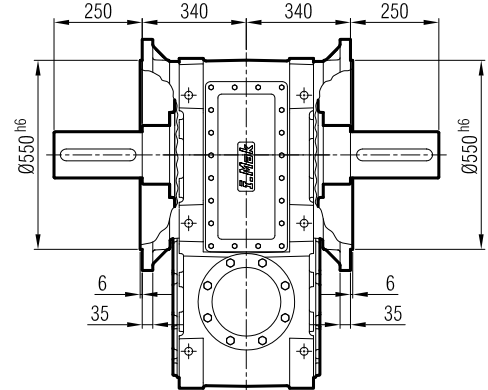
...-FL-SL



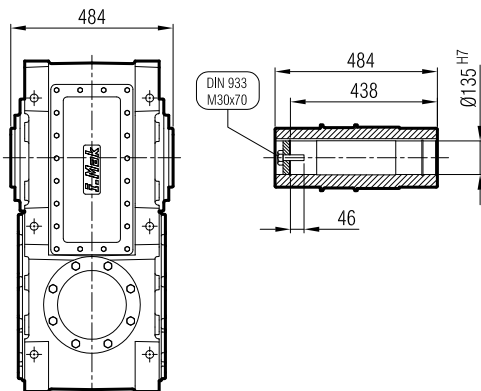
...-FR-SR



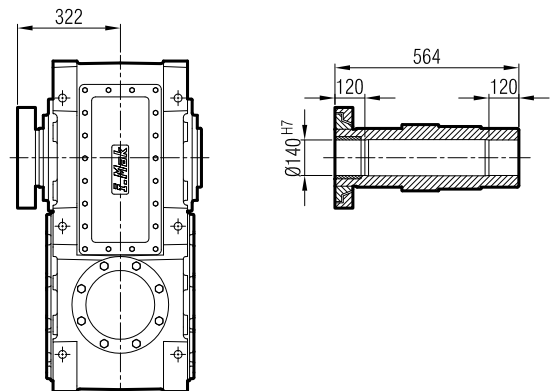
...-FD-SD

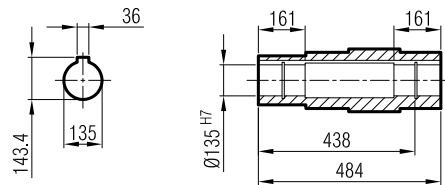
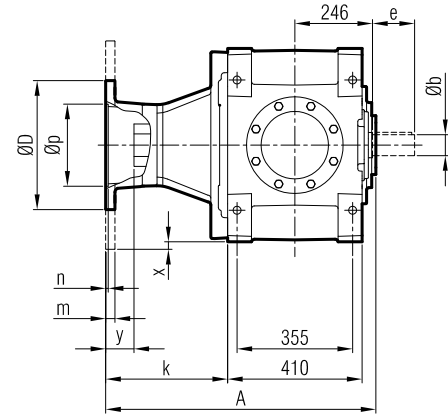
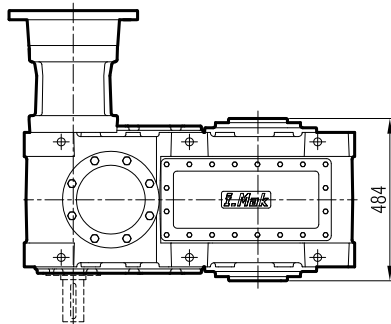
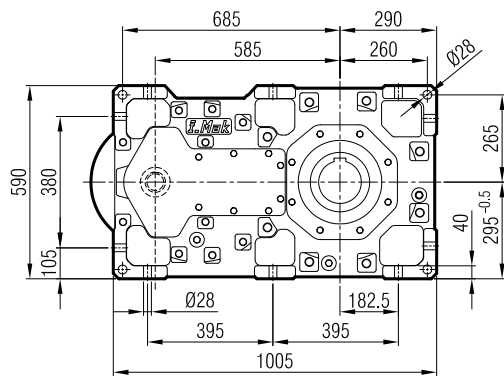


...-H



...-SDL / SDR

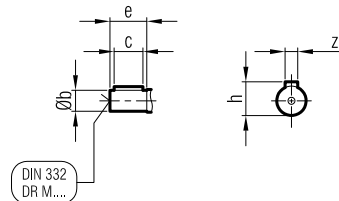
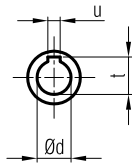
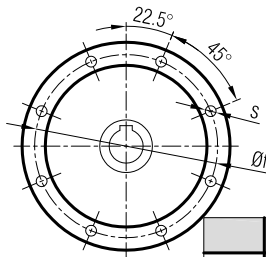
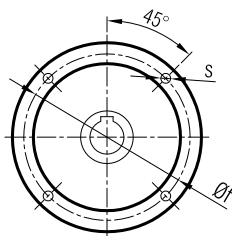


**MAP 903**

≤ 200 B5 **Tip**/Type/*Typ*

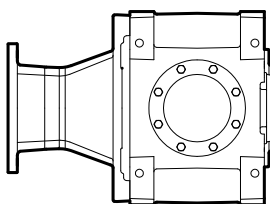
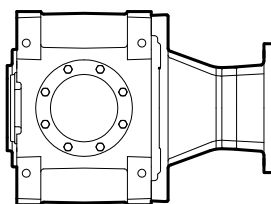
≥ 225 B5 **Tip**/Type/Typ

TahvII / Ratlo	Øb	e	z	c	h	M
i: 89,63 ... 52,05	45 ^{k6}	120	14	100	48,5	M16
i: 49,17 ... 21,16	55 ^{m6}	120	16	110	59	M20

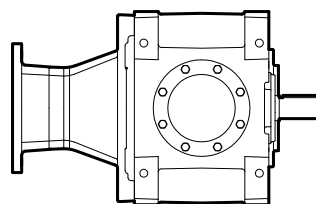
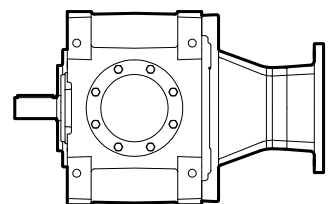


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y (i:≥52,05)	y (i:≤49,17)
160/B5	727	250	300	350	M14	280	20	6	42	45.3	12	-	49.5	-
180/B5	727	250	300	350	M14	280	20	6	48	51.8	14	-	49.5	-
200/B5	727	300	350	400	M16	280	22	6	55	59.3	16	-	49.5	39.5
225/B5	770	350	400	450	M16	323	22	6	60	64.4	18	-	78.5	72.5
250/B5	770	450	500	550	M16	323	25	6.5	65	69.4	18	-	74.5	72.5
280/B5	770	450	500	550	M16	323	25	6.5	75	75.9	20	-	64.5	64.5
315/B5	800	550	600	660	M24	353	30	7	85	90.4	22	35	-	89.5

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

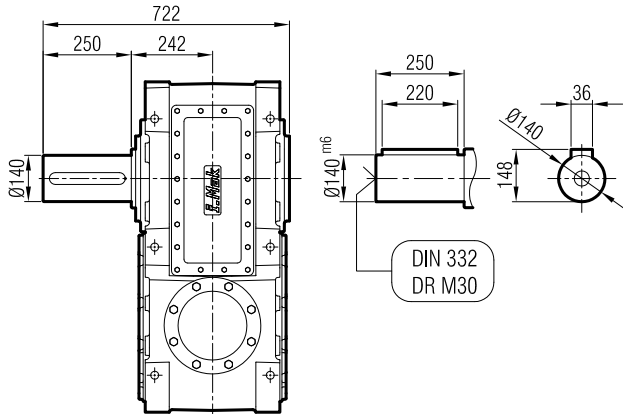
G04

**G05**

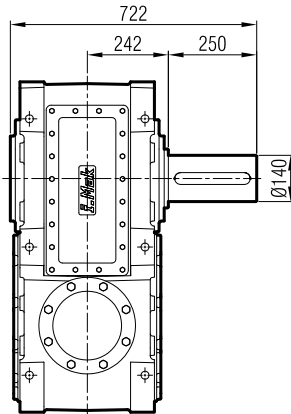
G06



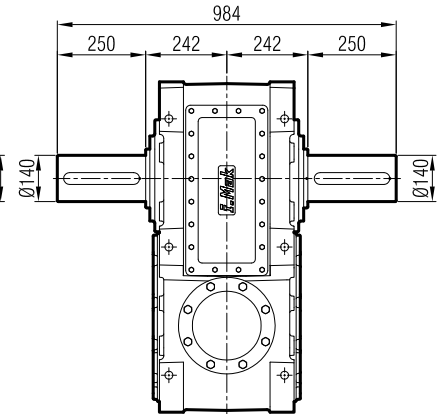
MA / MK 90_
...-SL



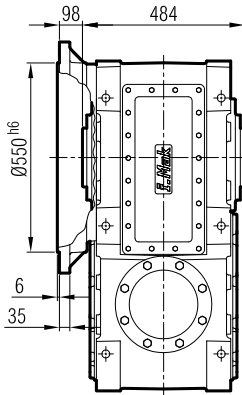
...-SR



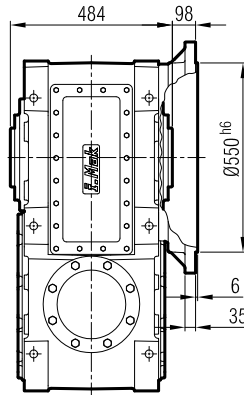
...-SD



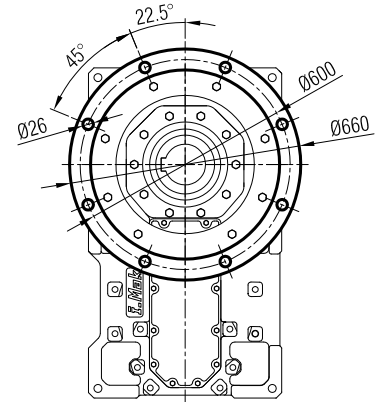
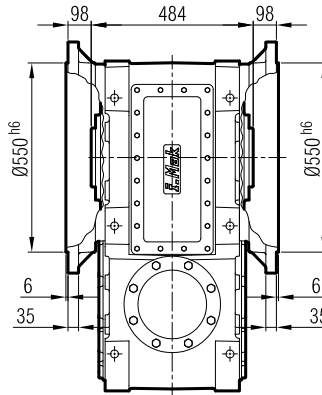
...-FL



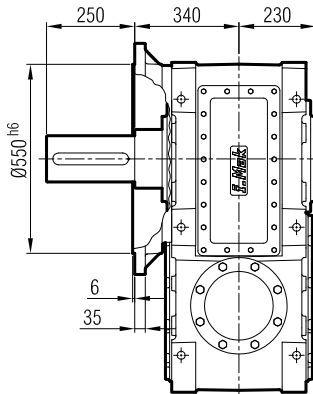
...-FR



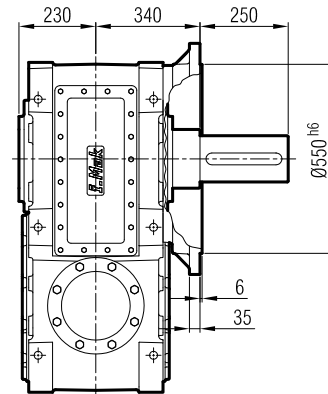
...-FD



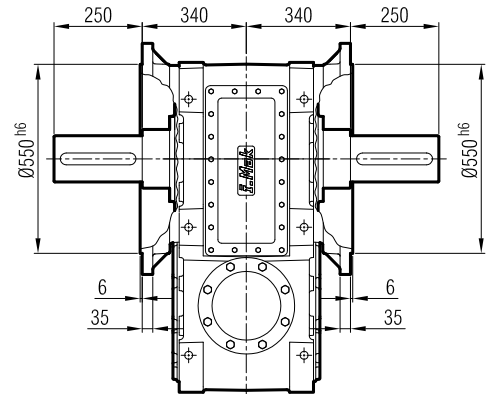
...-FL-SL



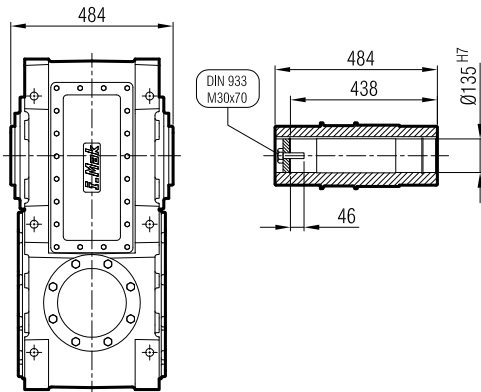
...-FR-SR



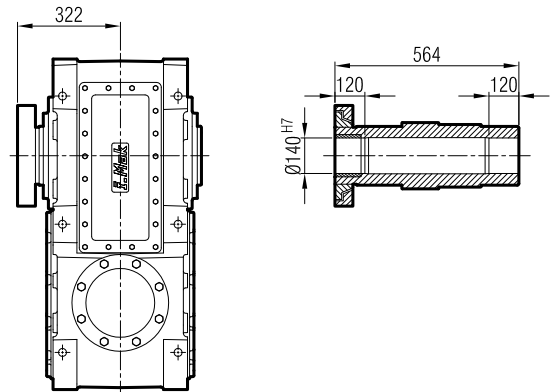
...-FD-SD



...-H

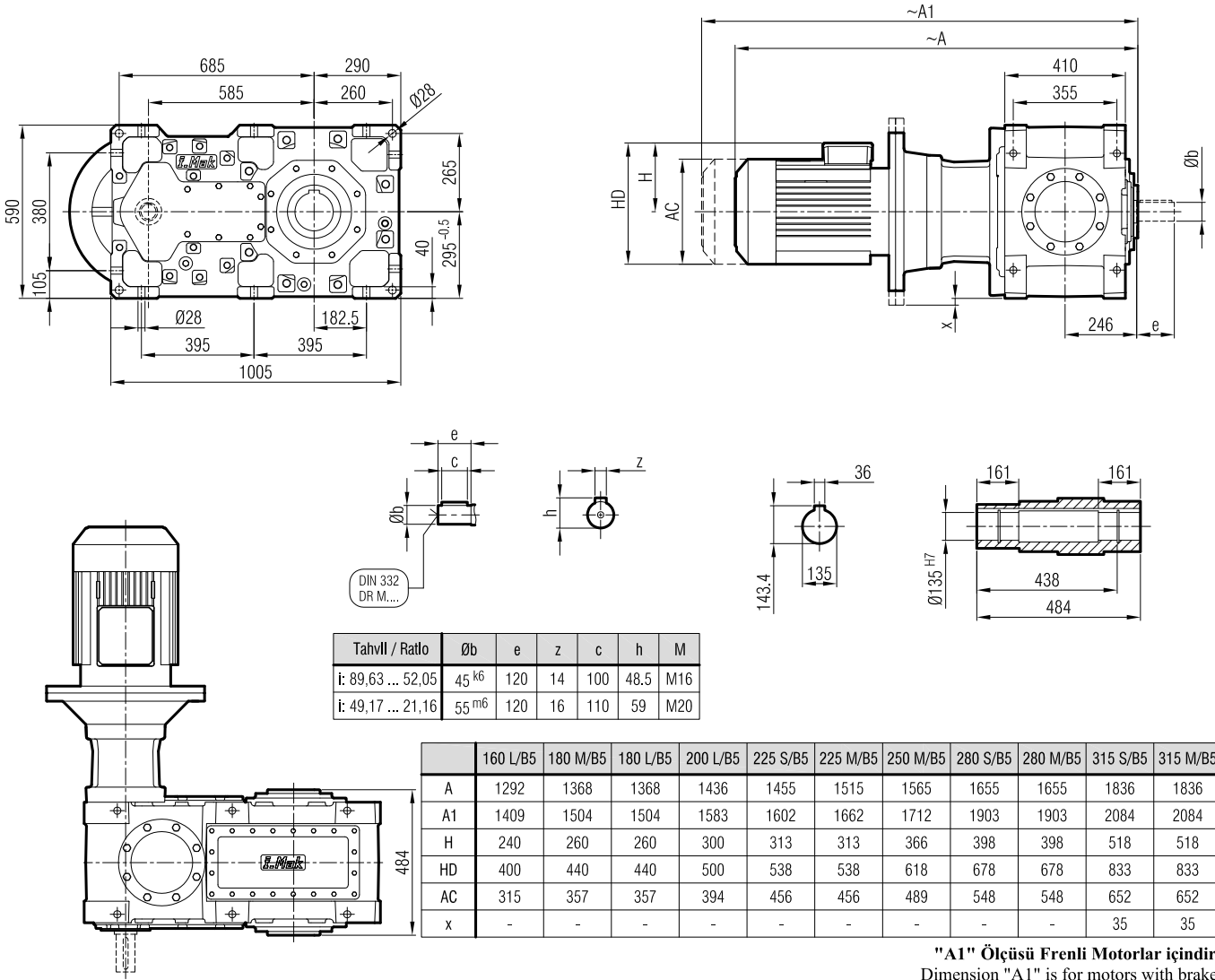


...-SDL / SDR





MAM 903

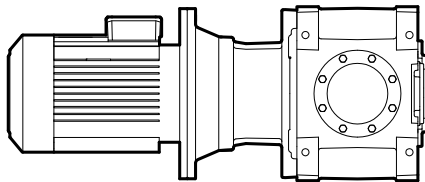


"A1" Ölçüsü Frenli Motorlar içindir.

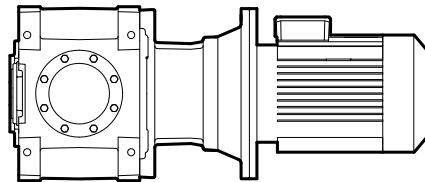
Dimension "A1" is for motors with brake.

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

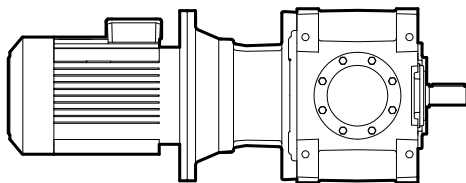
Giriş Seçenekleri / Input Options / Option d'entree



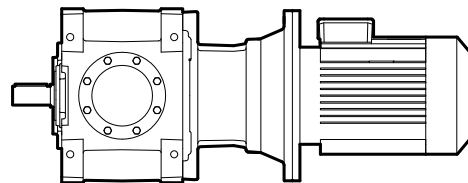
G03



G04



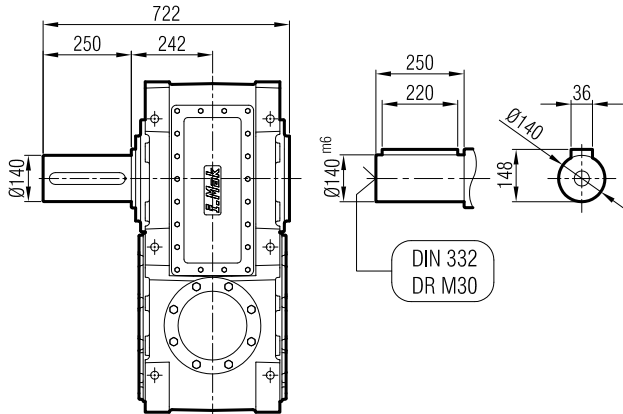
G05



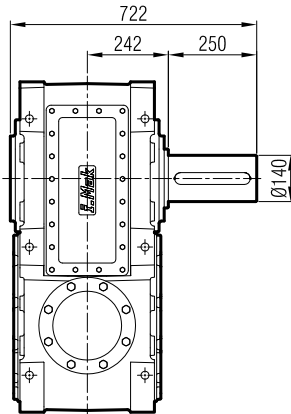
G06



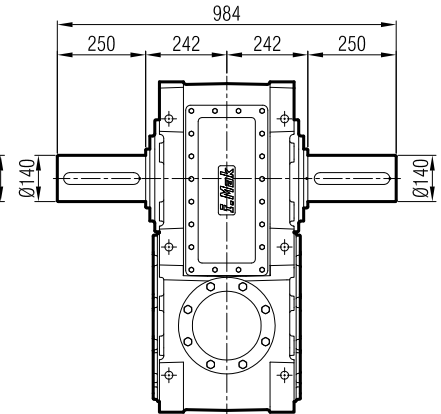
MA / MK 90_
...-SL



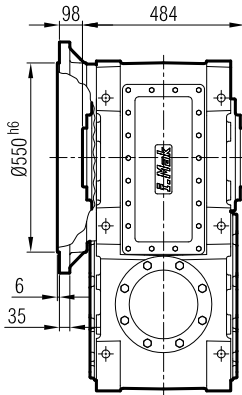
...-SR



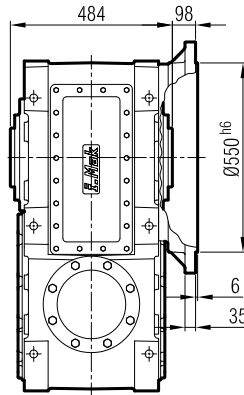
...-SD



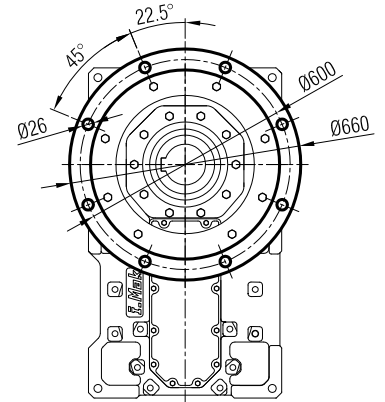
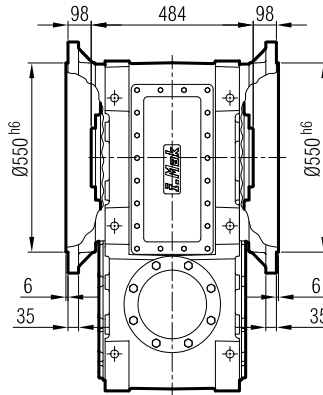
...-FL



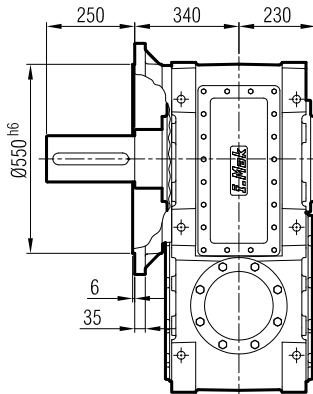
...-FR



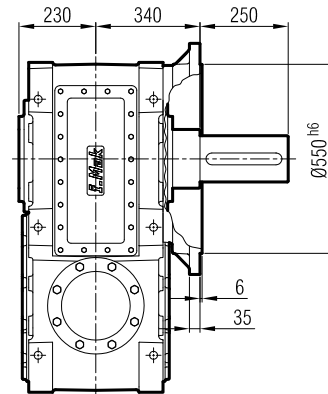
...-FD



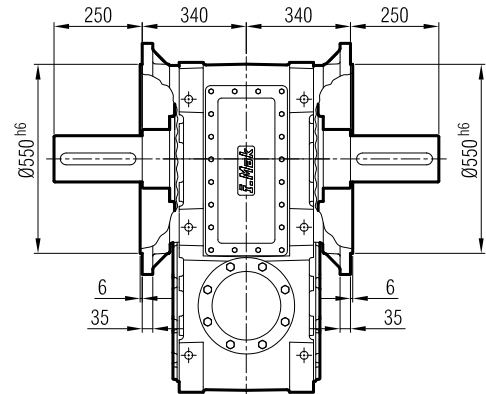
...-FL-SL



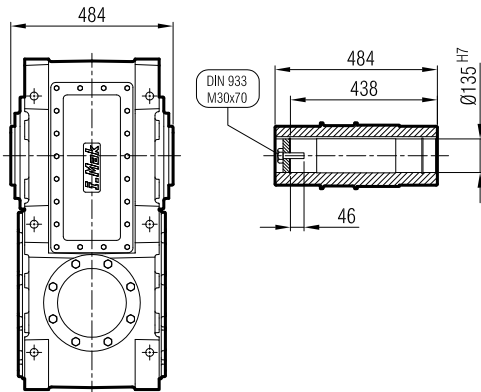
...-FR-SR



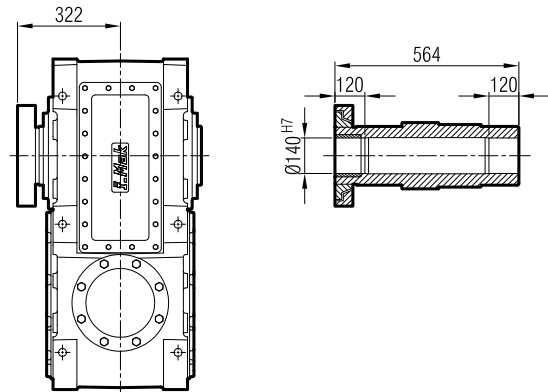
...-FD-SD



...-H

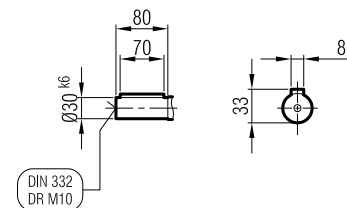
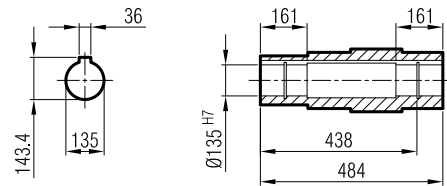
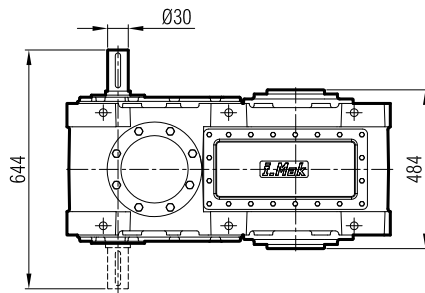
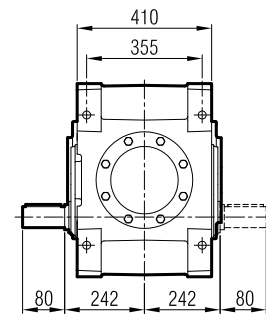
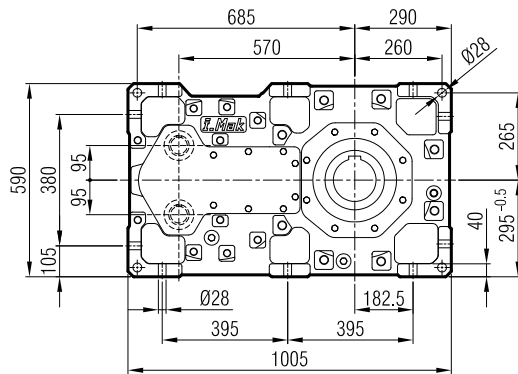


...-SDL / SDR

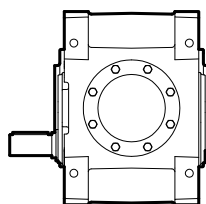




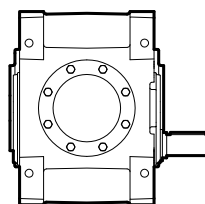
MA 904



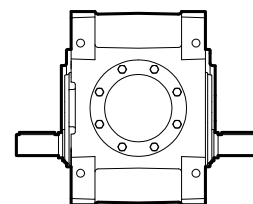
Giriş Seçenekleri / Input Options / Option d'entree



G00



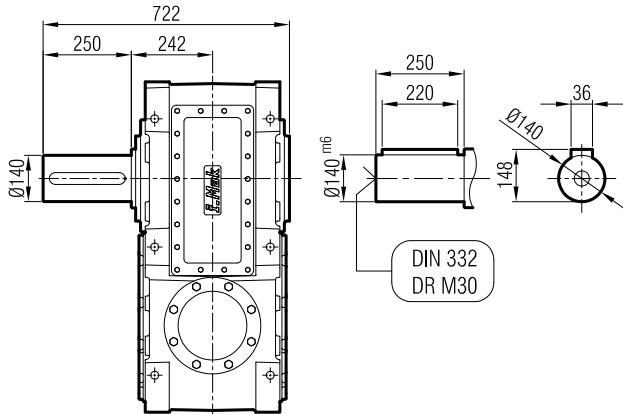
G01



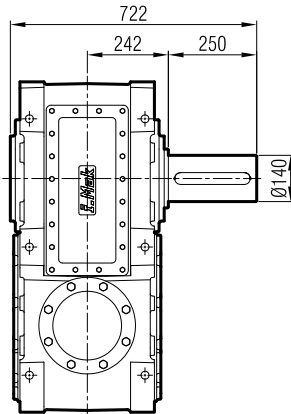
G02



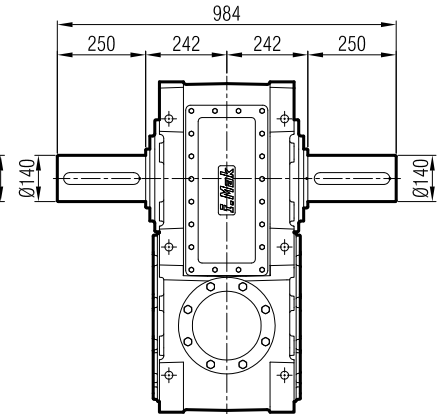
MA / MK 90_
...-SL



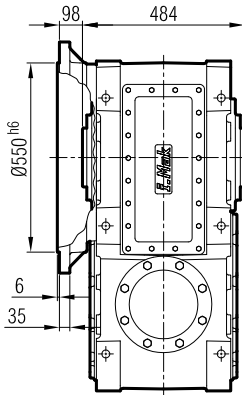
...-SR



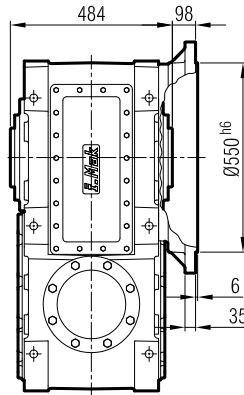
...-SD



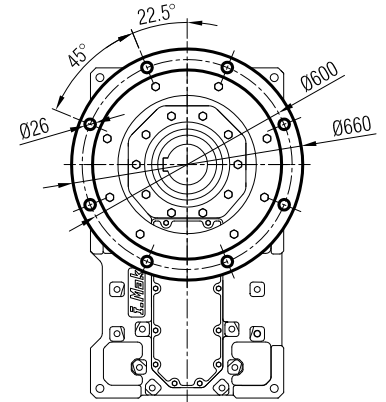
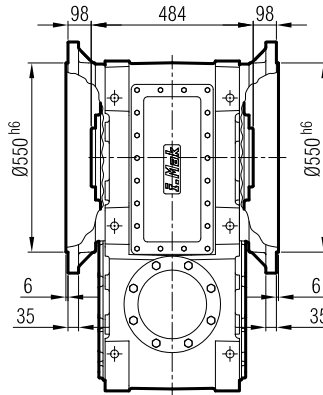
...-FL



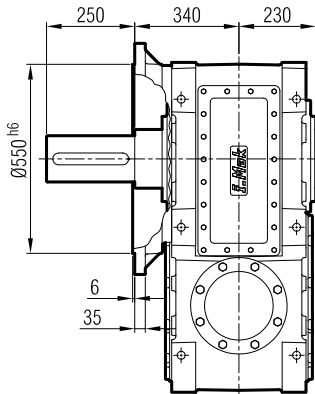
...-FR



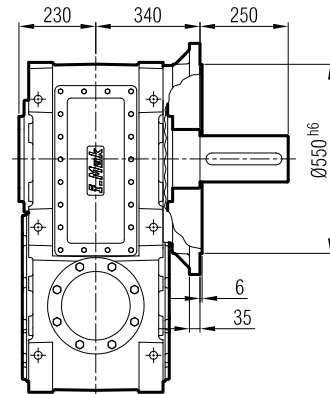
...-FD



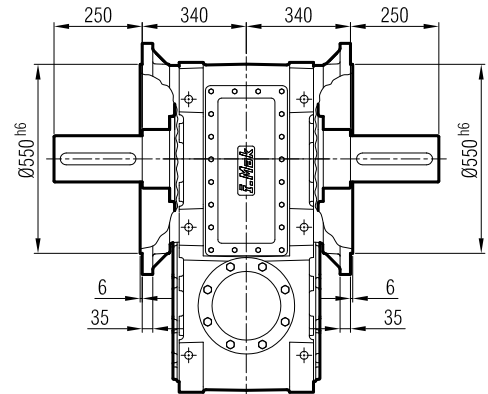
...-FL-SL



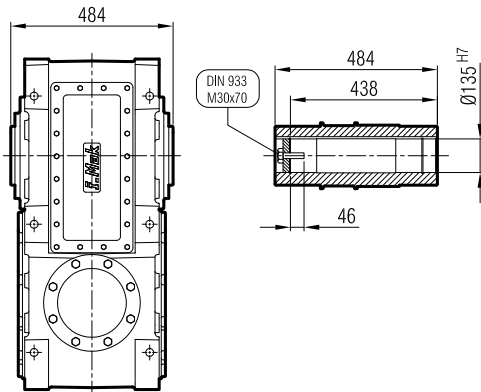
...-FR-SR



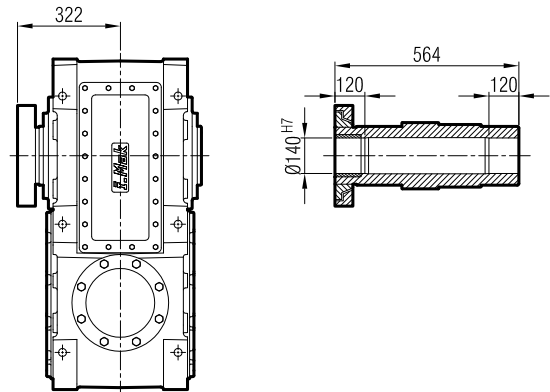
...-FD-SD

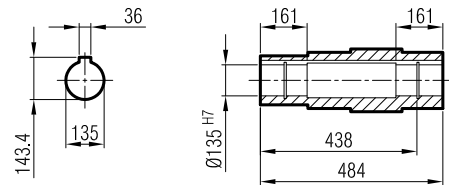
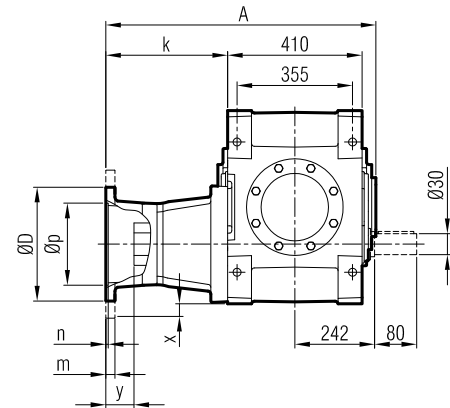
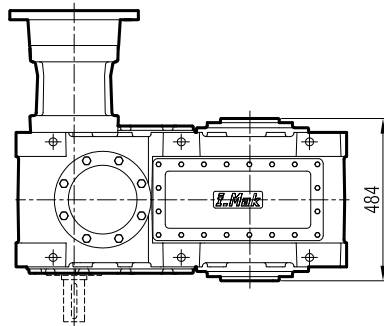
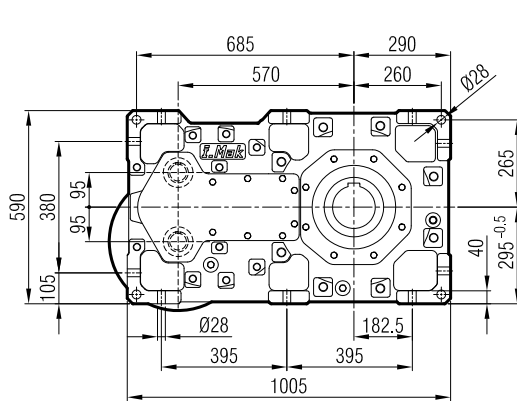


...-H

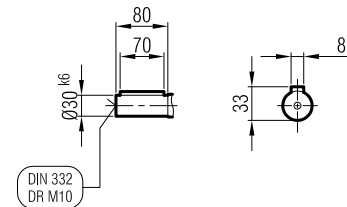
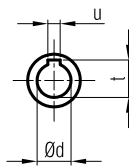
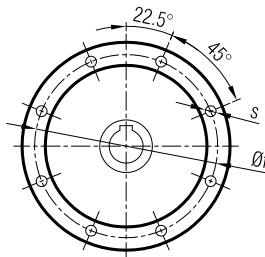
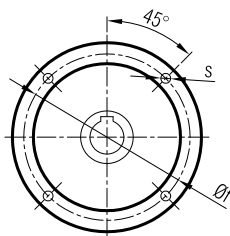


...-SDL / SDR



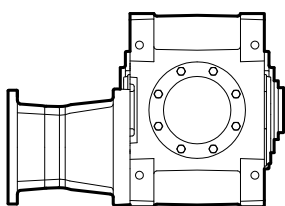
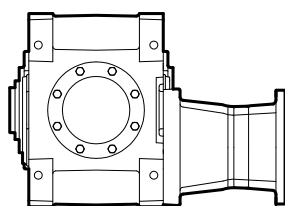
**MAP 904** ≤ 200 B5 **Tip**/Type/*Typ*

≥ 225 B5 **Tip**/Type/*Typ*

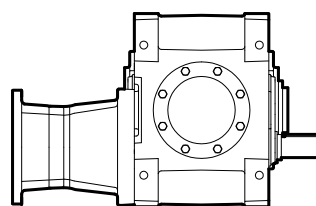
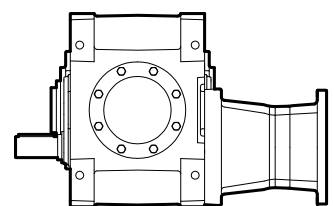


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	641	180	215	250	M12	194	15	5	28	31.3	8	-	31
132/B5	661	230	265	300	M12	214	18	6	38	41.3	10	-	45
160/B5	678	250	300	350	M14	231	20	6	42	45.3	12	-	70
180/B5	678	250	300	350	M14	231	20	6	48	51.8	14	-	60
200/B5	678	300	350	400	M16	231	22	6	55	59.3	16	0	60
225/B5	721	350	400	450	M16	274	22	6	60	64.4	18	25	80

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

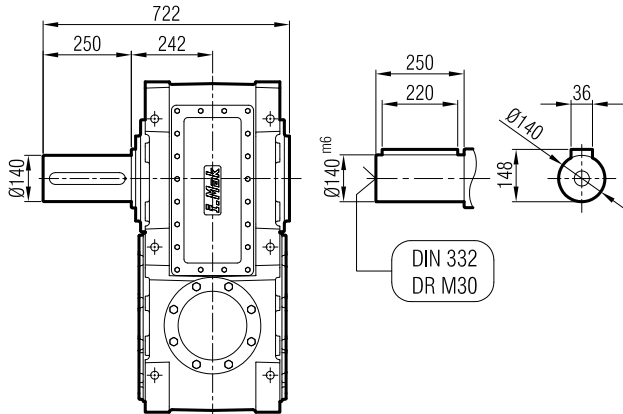
G04

**G05**

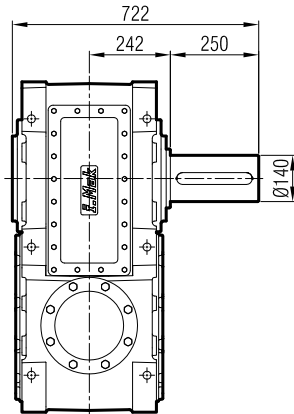
G06



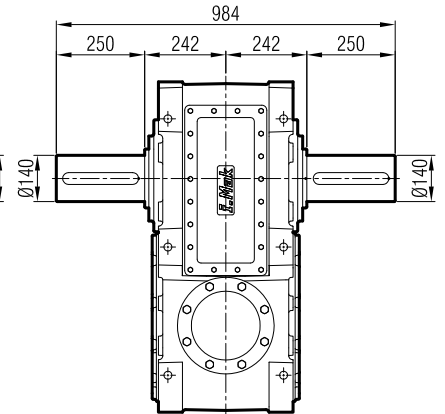
MA / MK 90_
...-SL



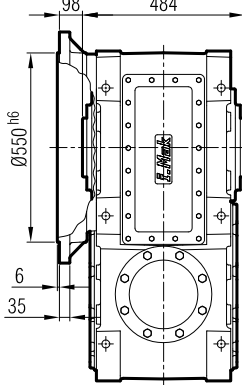
...-SR



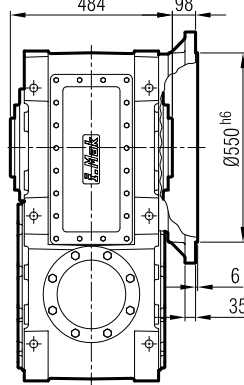
...-SD



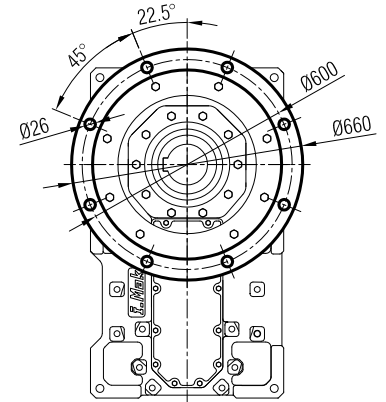
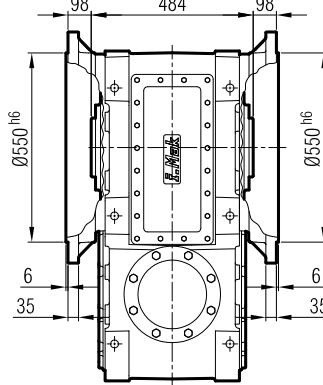
...-FL



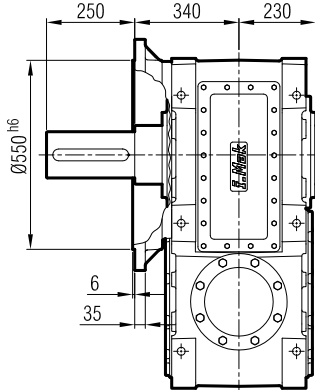
...-FR



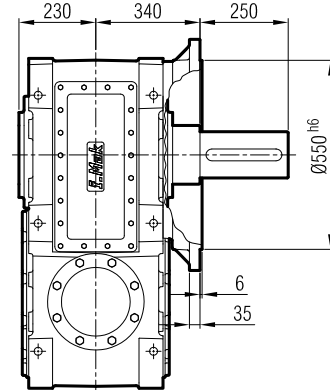
...-FD



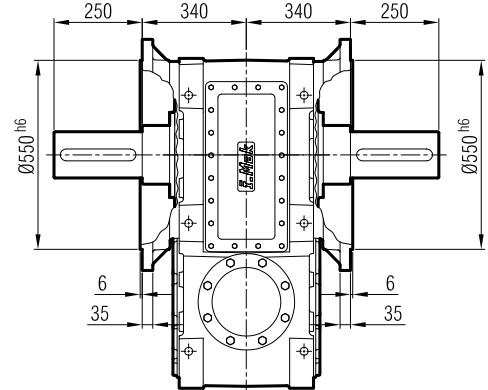
...-FL-SL



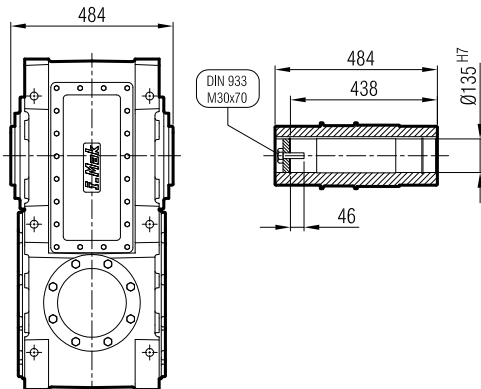
...-FR-SR



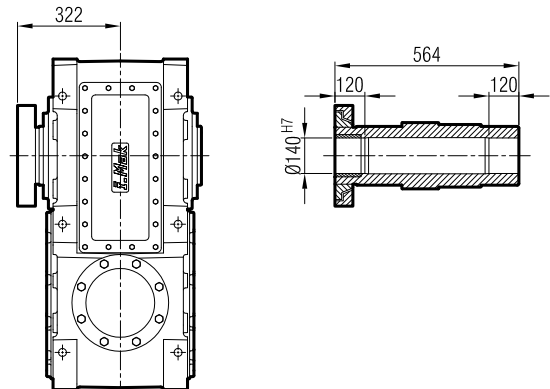
...-FD-SD

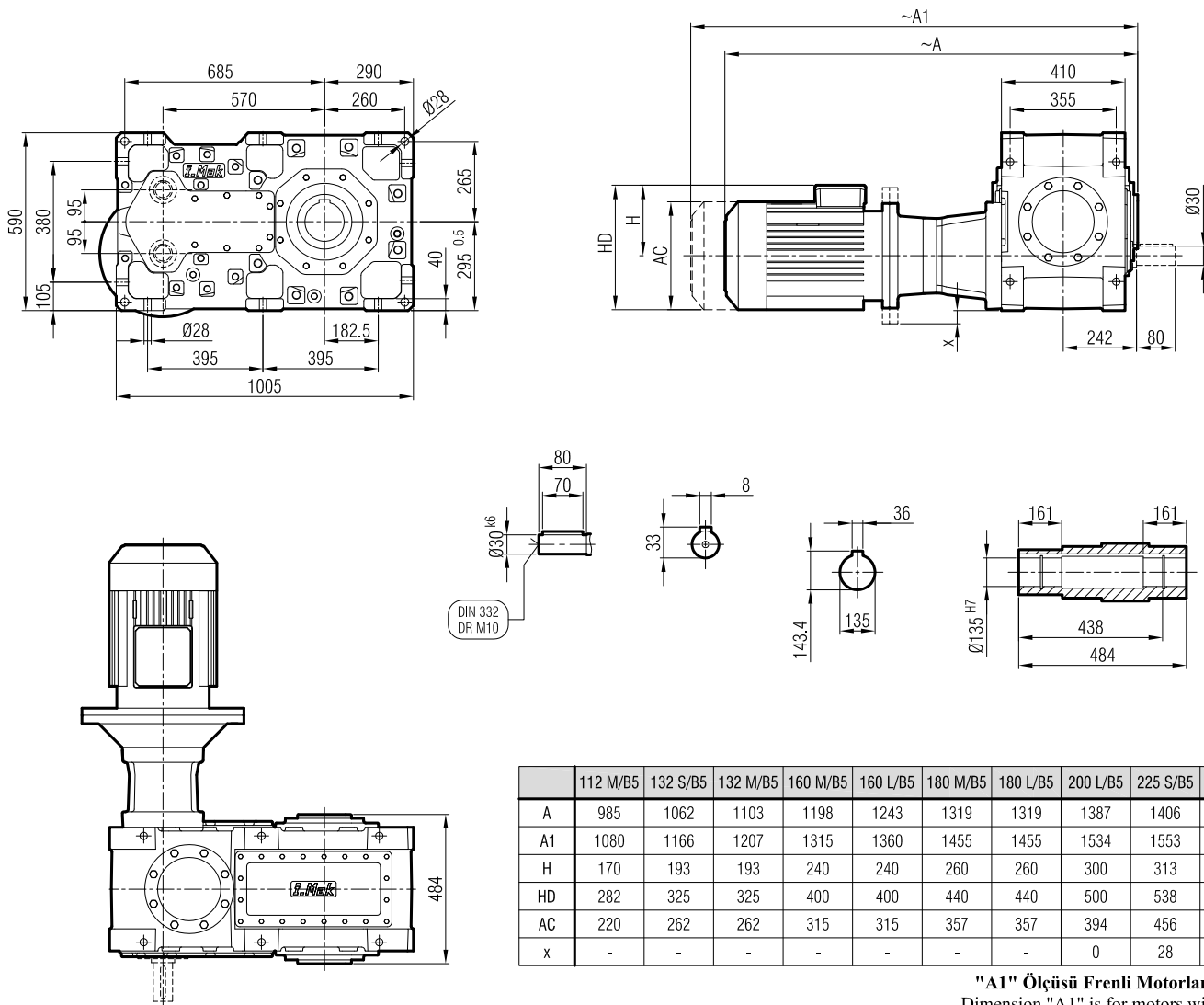


...-H



...-SDL / SDR



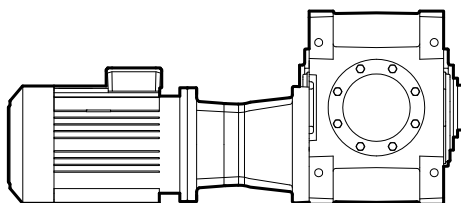
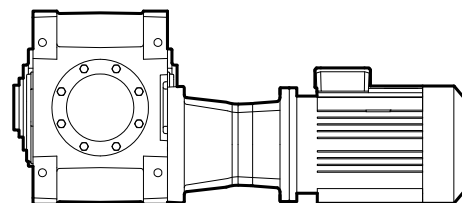
**MAM 904**

"A1" Ölçüsü Frenli Motorlar içindir.

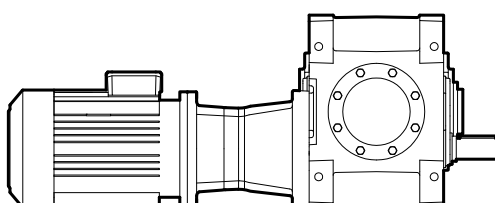
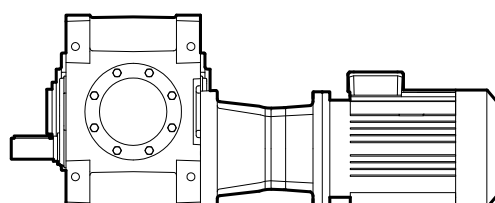
Dimension "A1" is for motors with brake.

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

Giriş Seçenekleri / Input Options / Option d'entree

**G03**

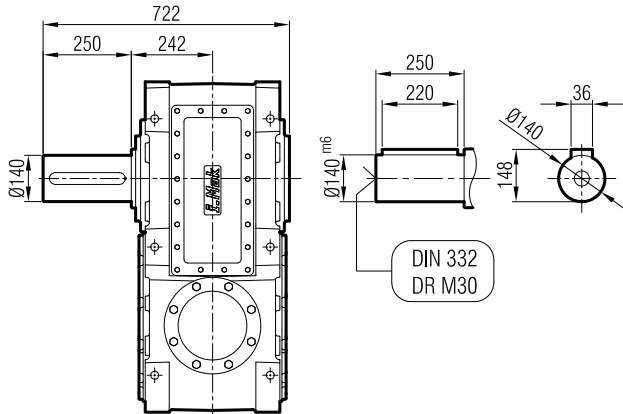
G04

**G05**

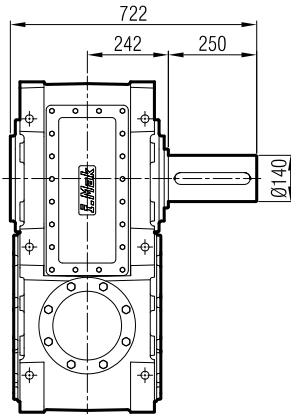
G06



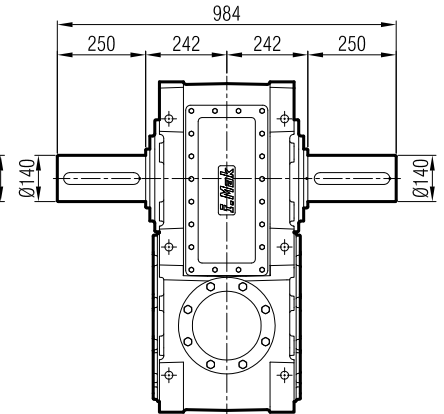
MA / MK 90_
...-SL



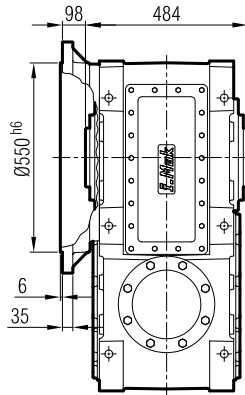
...-SR



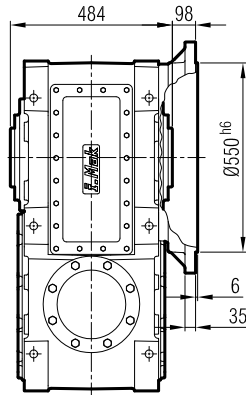
...-SD



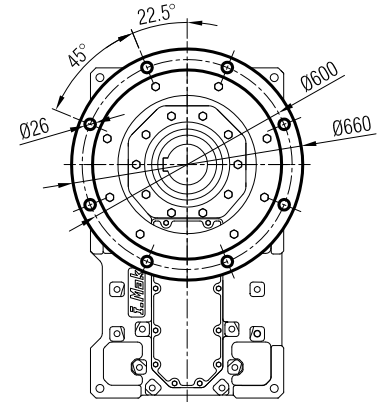
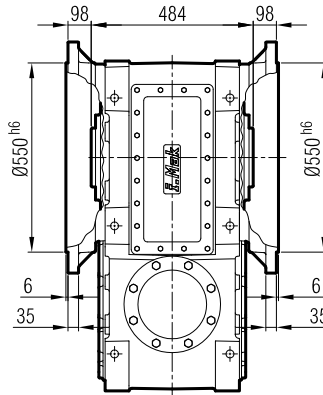
...-FL



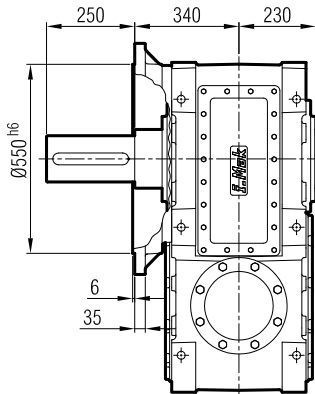
...-FR



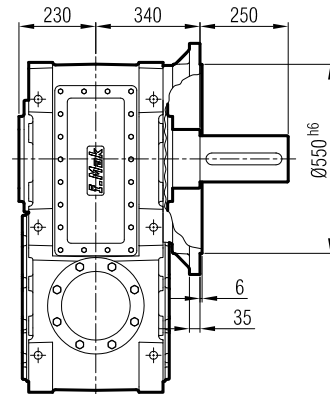
...-FD



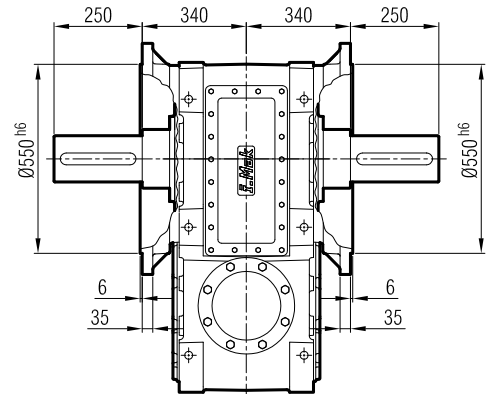
...-FL-SL



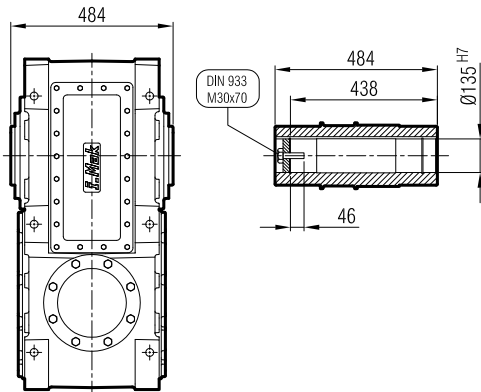
...-FR-SR



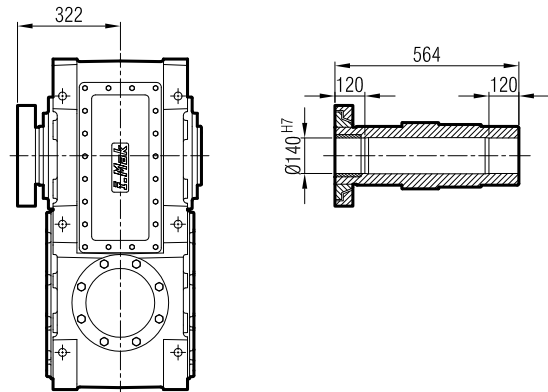
...-FD-SD



...-H

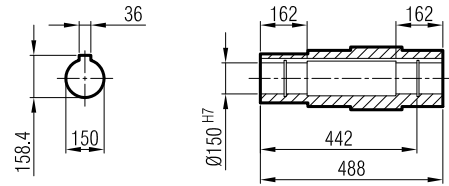
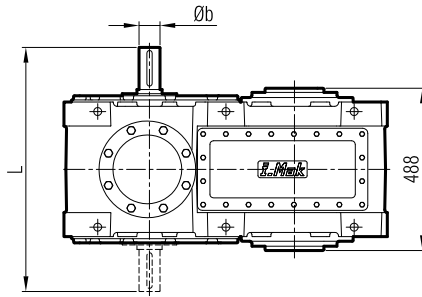
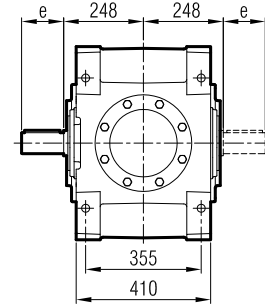
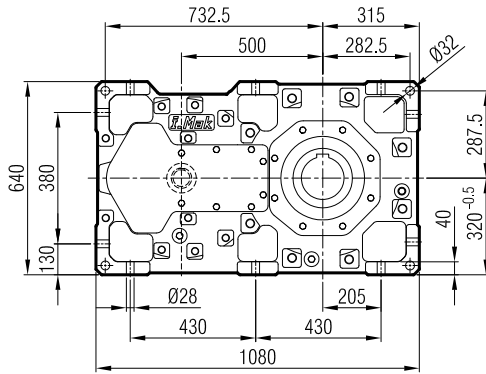


...-SDL / SDR

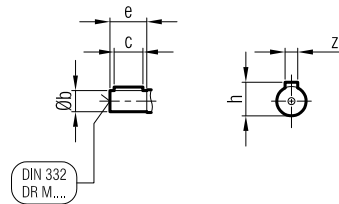




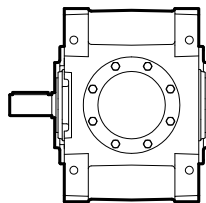
MA 1002



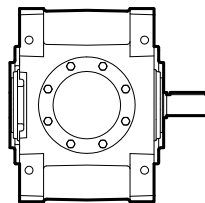
Tahvil / Ratio	Øb	e	z	c	h	M	L
i: 28,47 ... 23,34	60 ^{m6}	140	18	100	64	M16	776
i: 19,59 ... 8,55	75 ^{m6}	140	20	125	79.5	M20	776



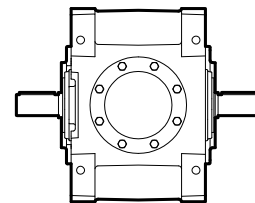
Giriş Seçenekleri / Input Options / Option d'entree



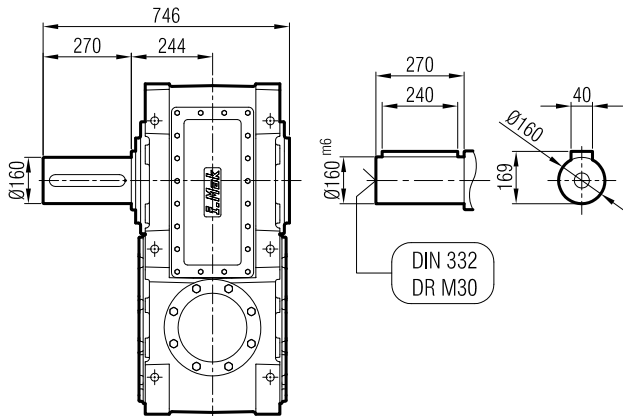
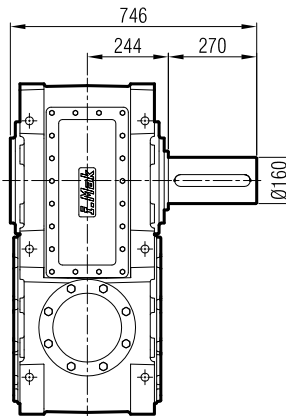
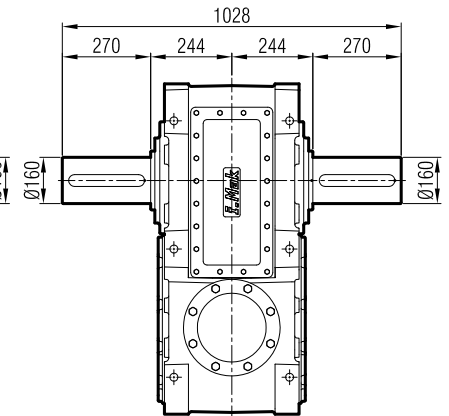
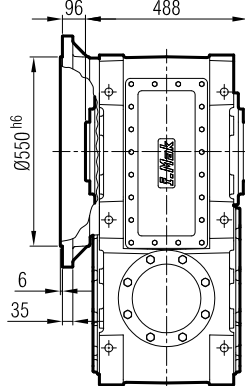
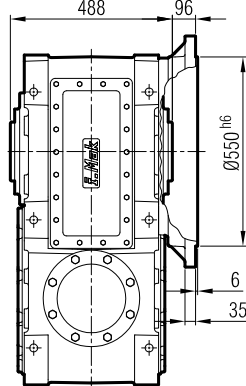
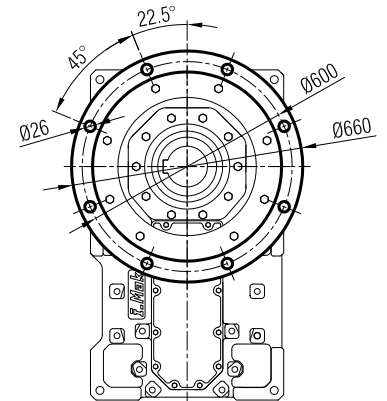
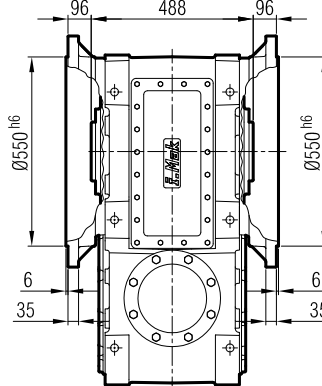
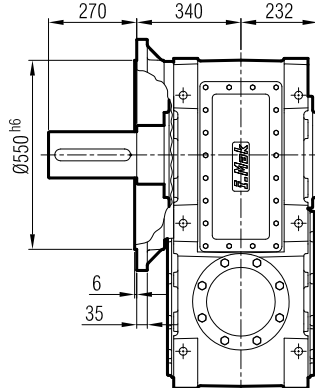
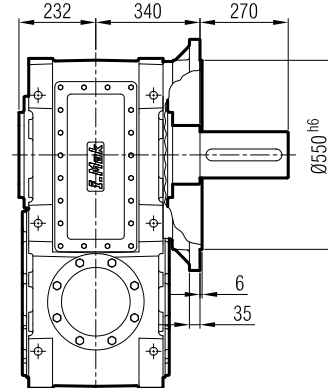
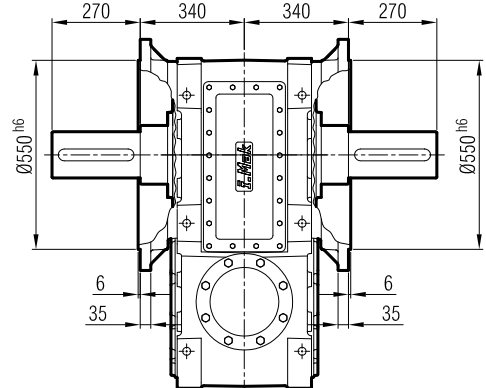
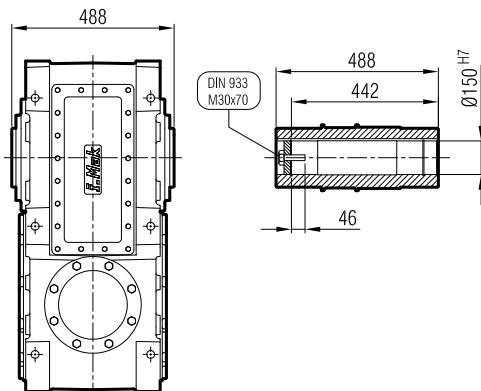
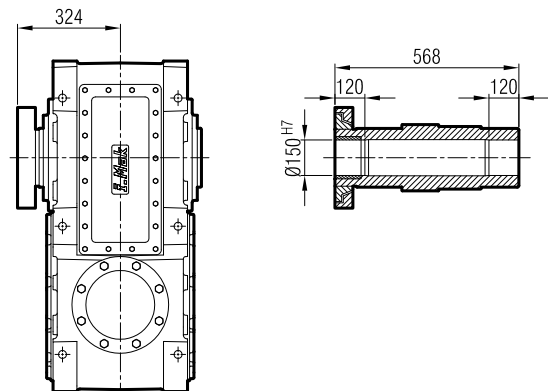
G00



G01

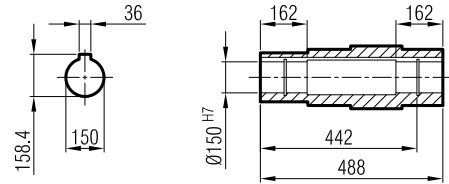
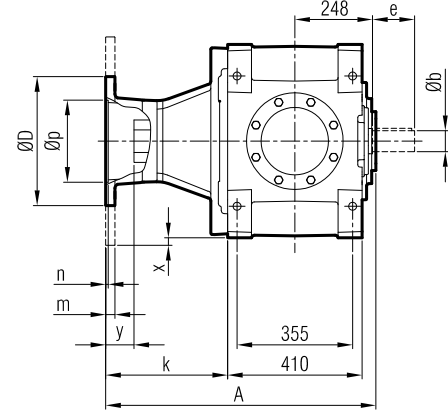
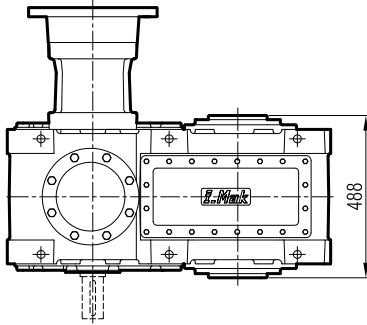
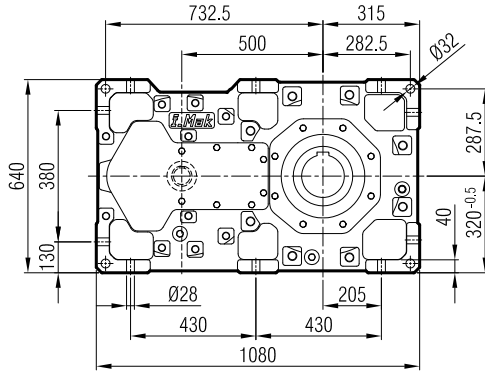


G02

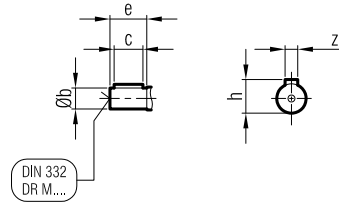
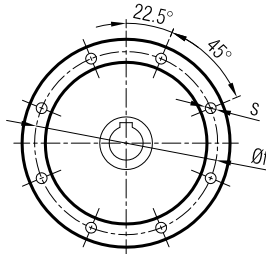
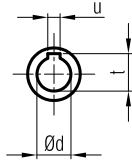

MA / MK 100_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




MAP 1002

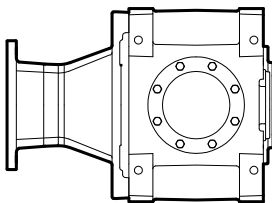


Tahvil / Ratlo	Øb	e	z	c	h	M
i: 28,47 ... 23,34	60 m6	140	18	100	64	M16
i: 19,59 ... 8,55	75 m6	140	20	125	79.5	M20

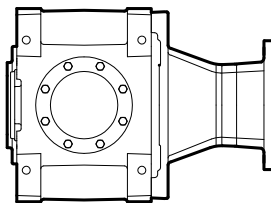


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y (i: ≥ 23.34)	y (i: ≤ 19.59)
280/B5	785	450	500	550	M16	336	25	6.5	75	79.9	20	-	65	44
315/B5	815	550	600	660	M24	366	30	7	85	90.4	22	10	90	74

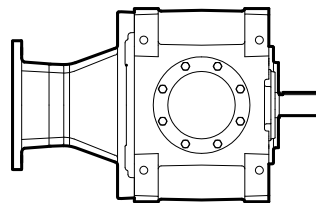
Giriş Seçenekleri / Input Options / Option d'entree



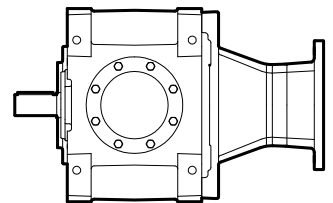
G03



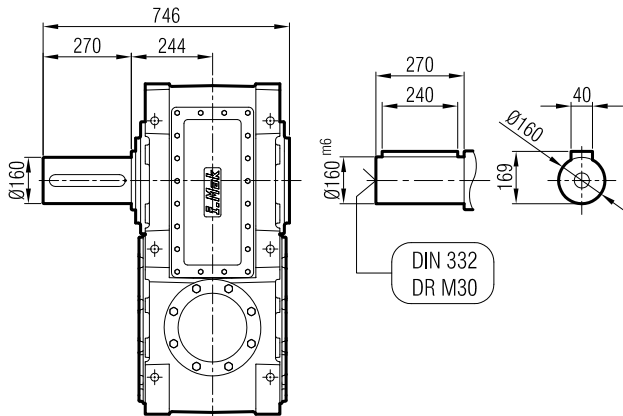
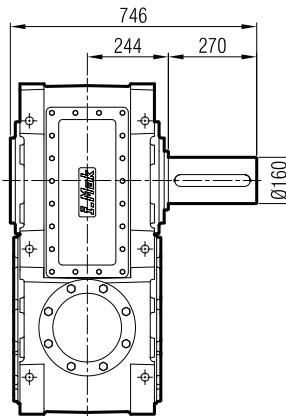
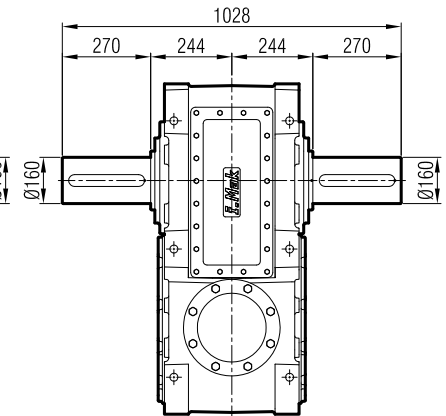
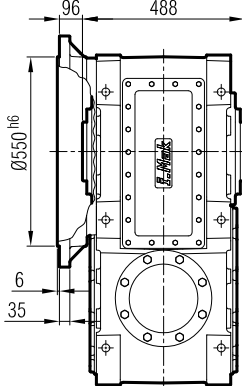
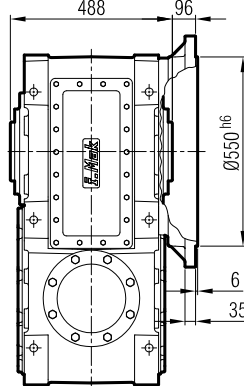
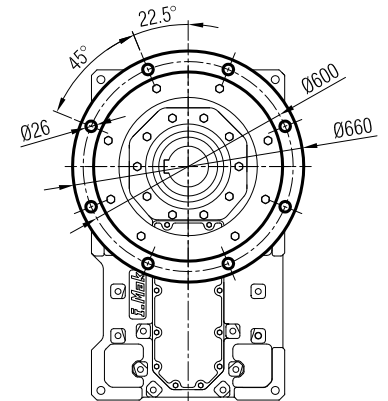
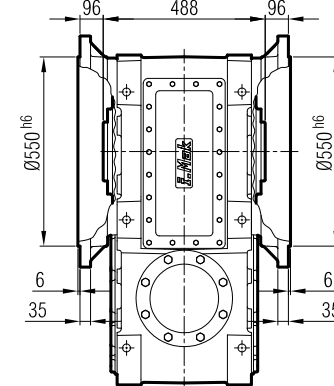
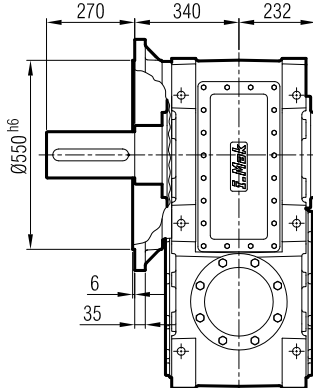
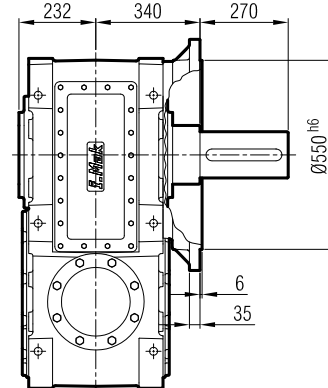
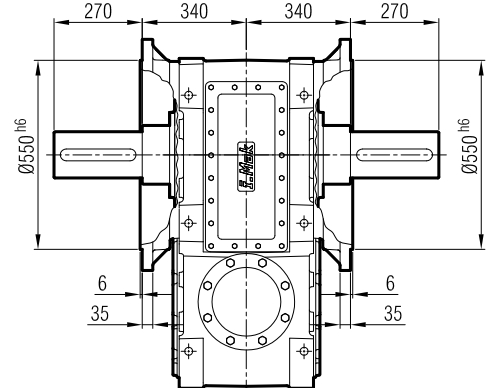
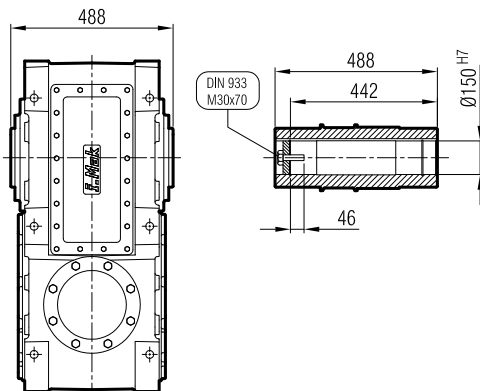
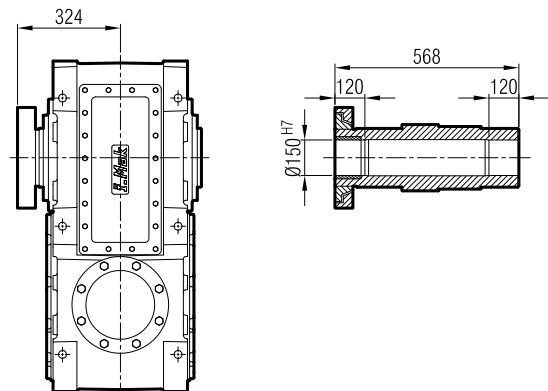
G04



G05

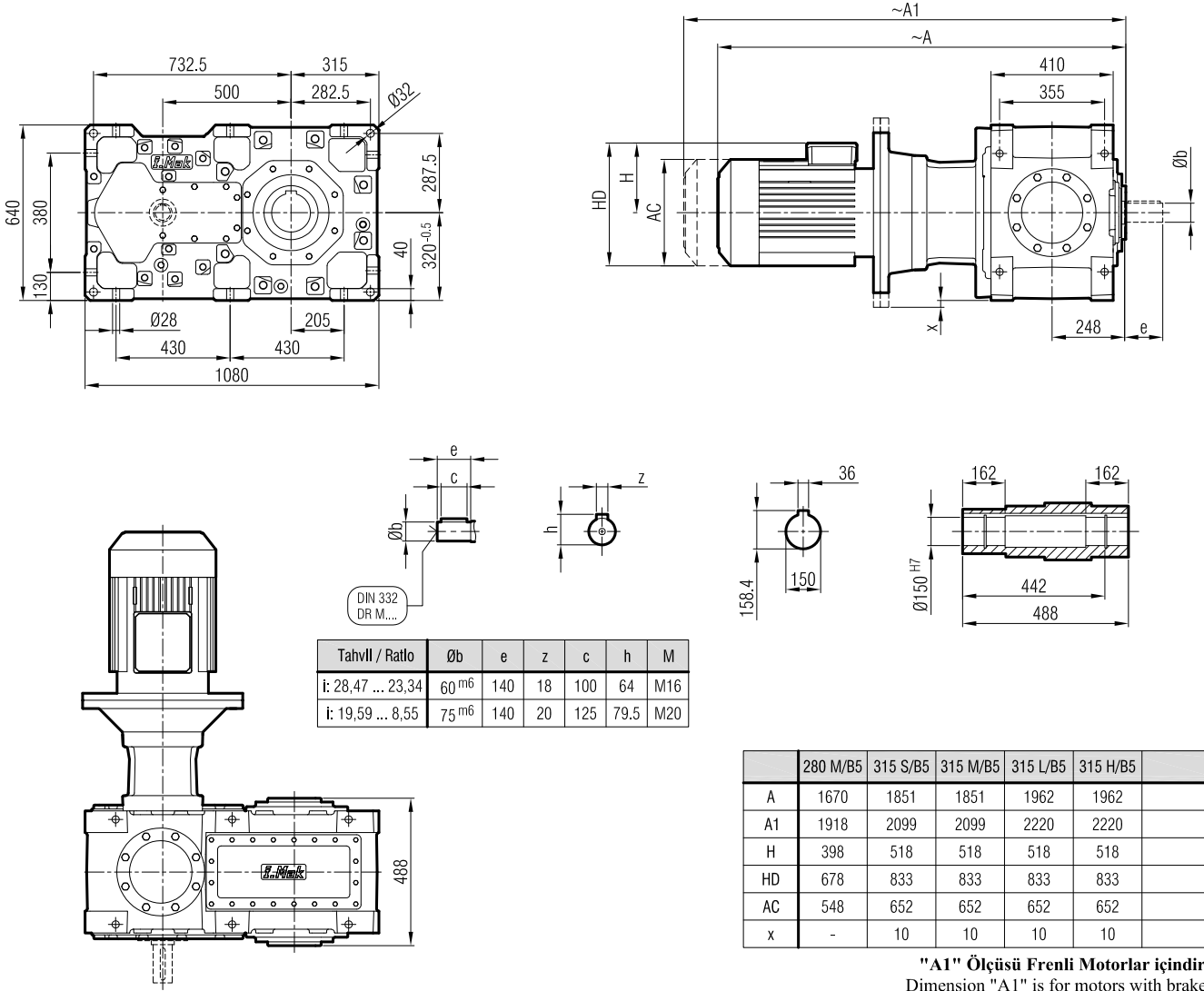


G06


MA / MK 100_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




MAM 1002

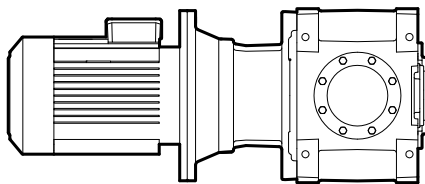


"A1" Ölçüsü Frenli Motorlar içindir.

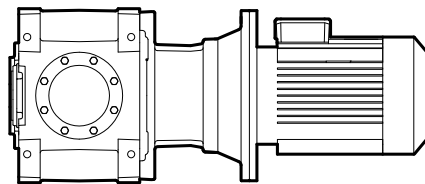
Dimension "A1" is for motors with brake.

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

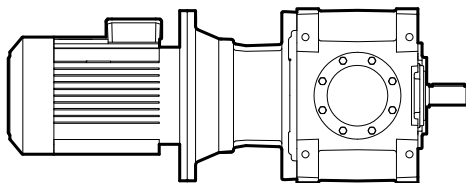
Giriş Seçenekleri / Input Options / Option d'entree



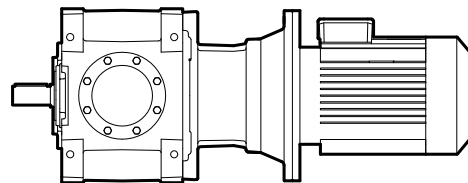
G03



G04



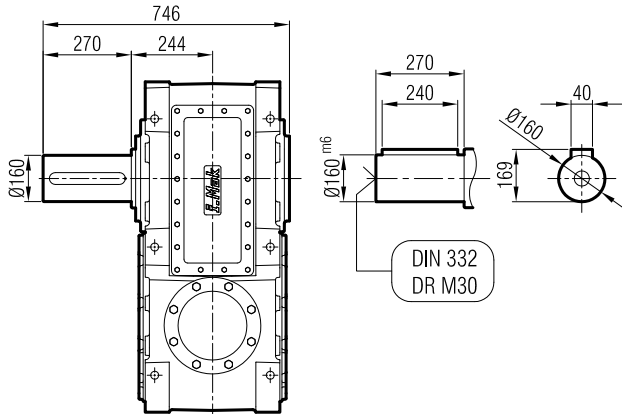
G05



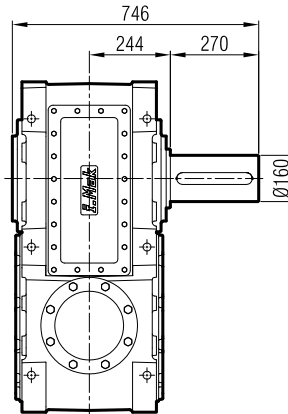
G06



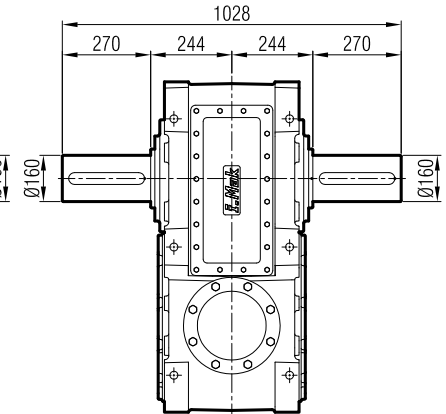
MA / MK 100_
...-SL



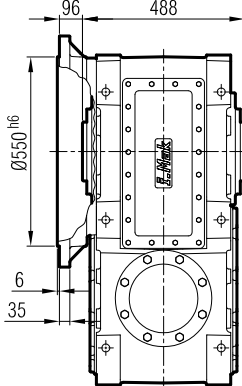
...-SR



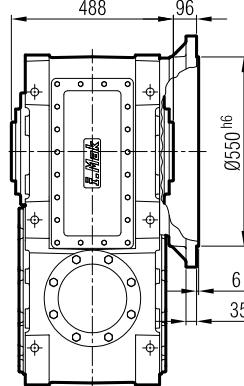
...-SD



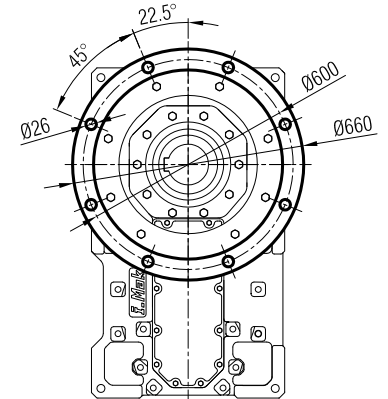
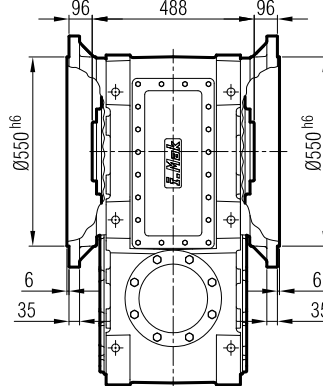
...-FL



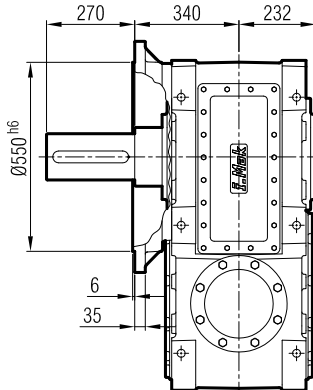
...-FR



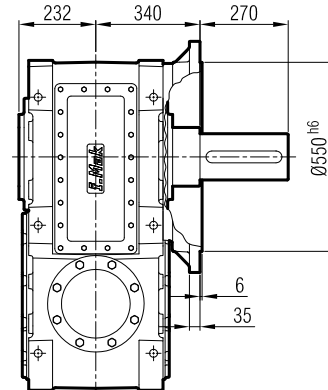
...-FD



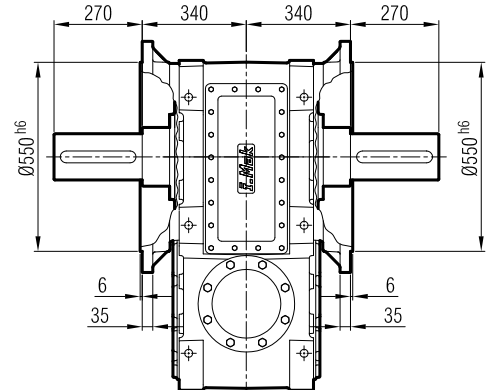
...-FL-SL



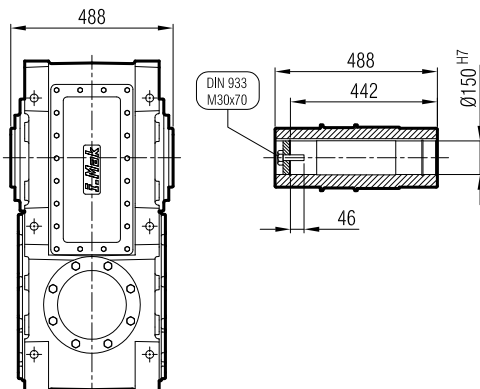
...-FR-SR



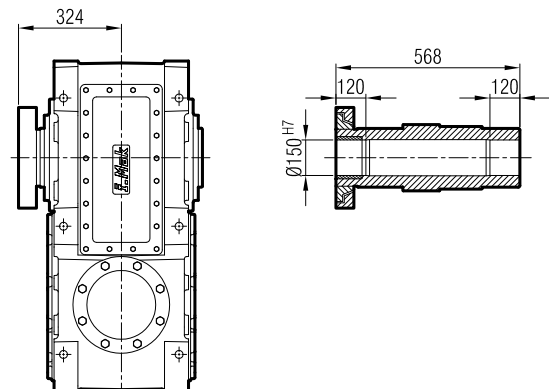
...-FD-SD



...-H

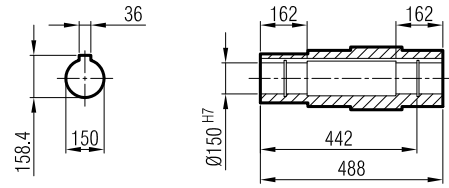
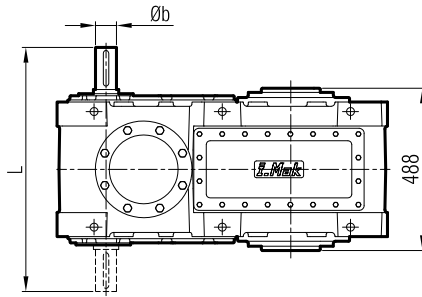
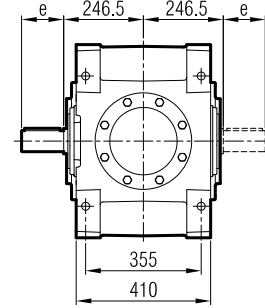
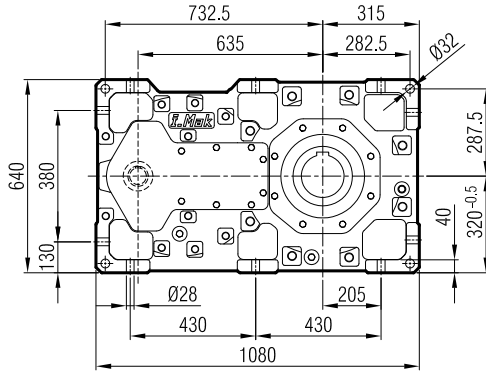


...-SDL / SDR

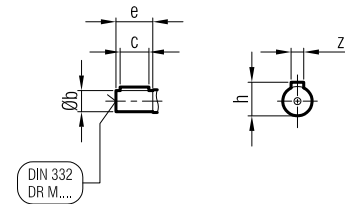




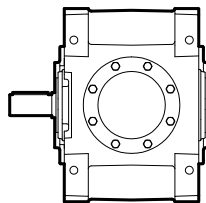
MA 1003



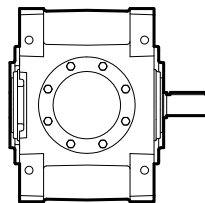
Tahvil / Ratio	Øb	e	z	c	h	M	L
i: 115,38...69,97	45 ^{k6}	120	14	100	48.5	M16	733
i: 57,86 ... 26,07	55 ^{m6}	120	16	110	59	M20	733



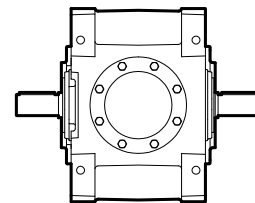
Giriş Seçenekleri / Input Options / Option d'entree



G00



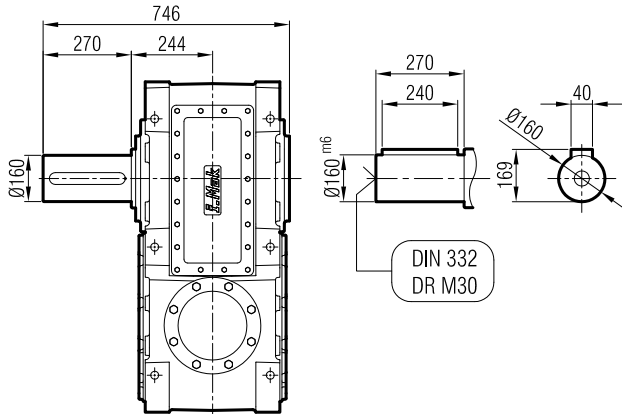
G01



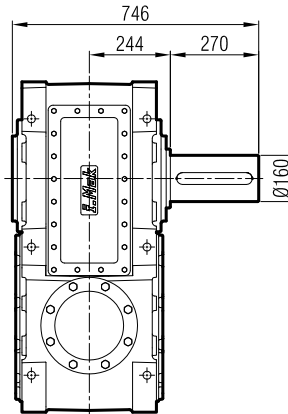
G02



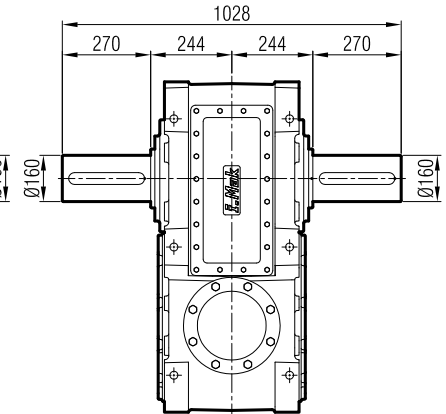
MA / MK 100_
...-SL



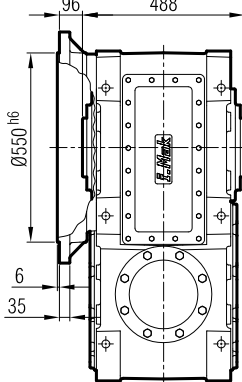
...-SR



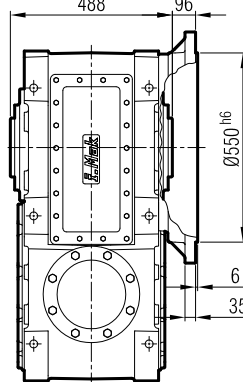
...-SD



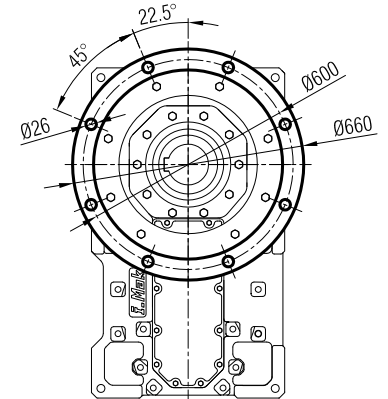
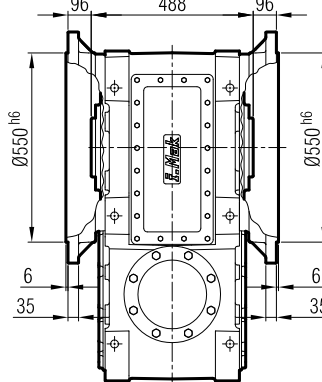
...-FL



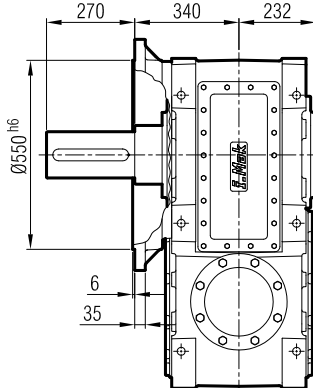
...-FR



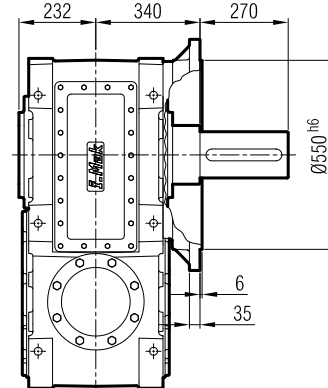
...-FD



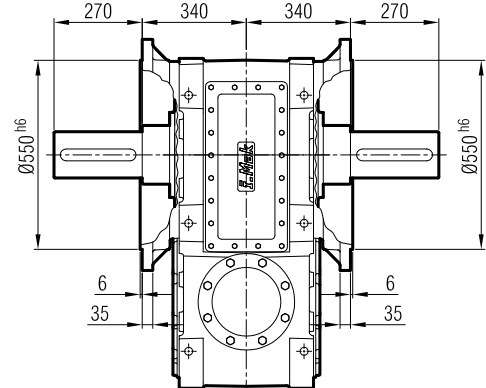
...-FL-SL



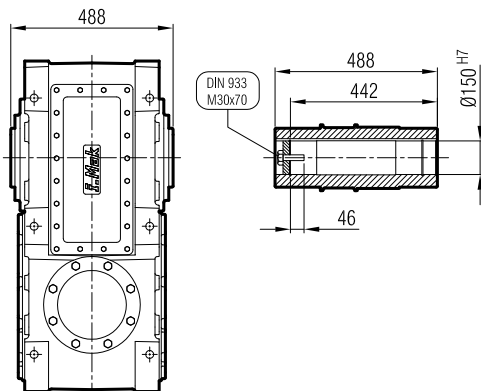
...-FR-SR



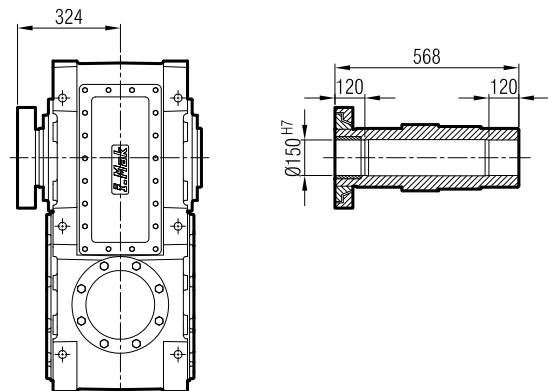
...-FD-SD



...-H

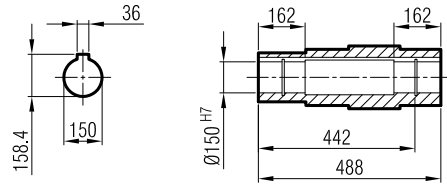
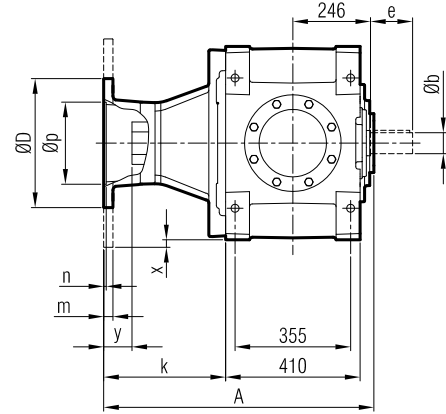
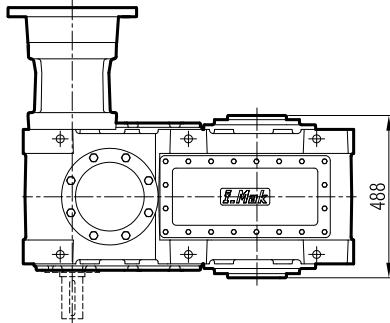
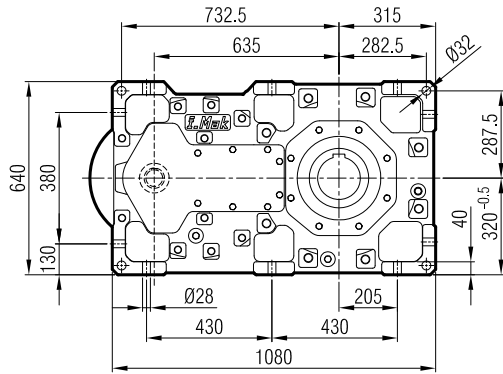


...-SDL / SDR



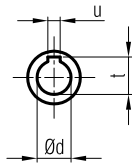
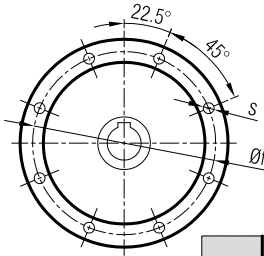
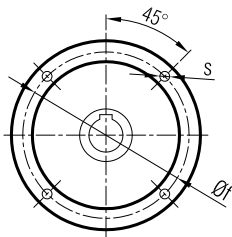


MAP 1003

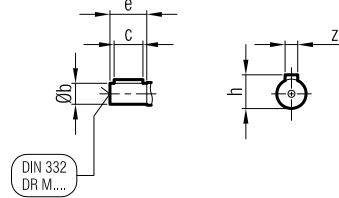


≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

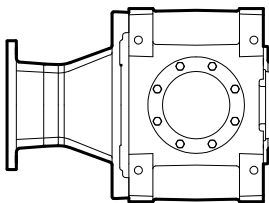


Tahvil / Ratlo	Øb	e	z	c	h	M
i: 115,38...69,97	45 ^{k6}	120	14	100	48,5	M16
i: 57,86 ... 26,07	55 ^{m6}	120	16	110	59	M20

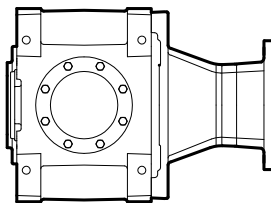


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y (i: ≥ 69,97)	y (i: ≤ 57,86)
180/B5	729	250	300	350	M14	280	20	6	48	51.8	14	-	49.5	-
200/B5	729	300	350	400	M16	280	22	6	55	59.3	16	-	49.5	39.5
225/B5	772	350	400	450	M16	323	22	6	60	64.4	18	-	78.5	72.5
250/B5	772	450	500	550	M16	323	25	6.5	65	69.4	18	-	74.5	72.5
280/B5	772	450	500	550	M16	323	25	6.5	75	75.9	20	-	64.5	64.5
315/B5	802	550	600	660	M24	353	30	7	85	90.4	22	10	-	89.5

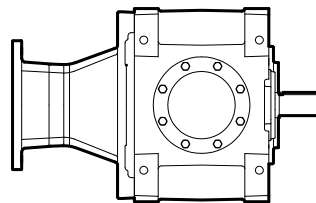
Giriş Seçenekleri / Input Options / Option d'entree



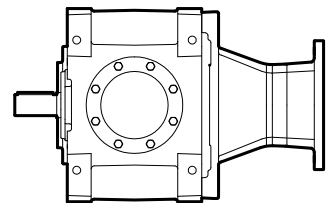
G03



G04



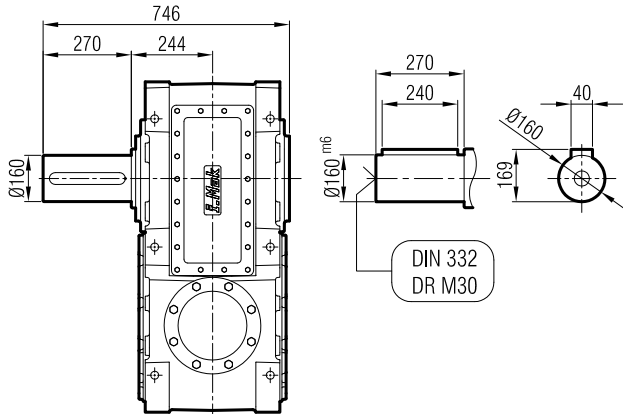
G05



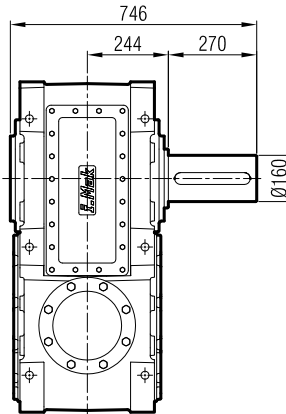
G06



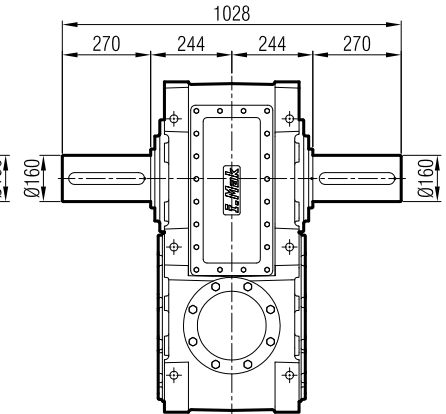
MA / MK 100_
...-SL



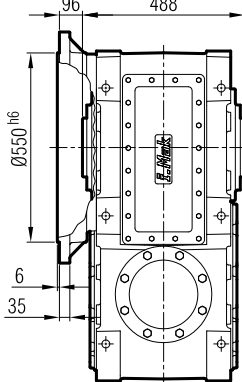
...-SR



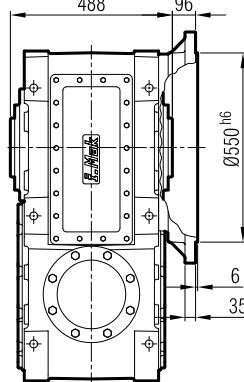
...-SD



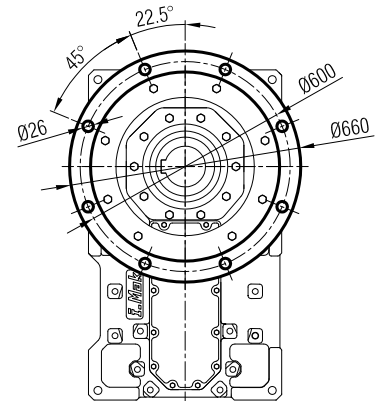
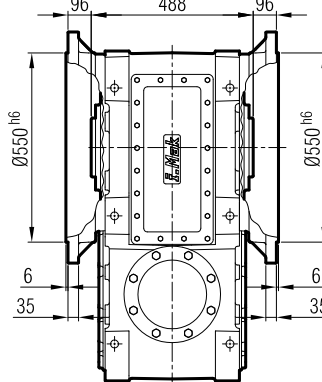
...-FL



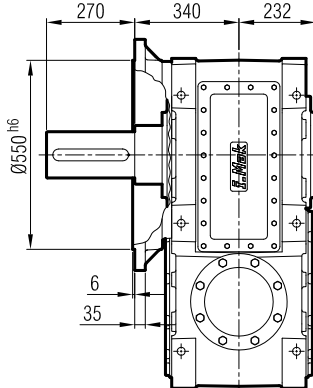
...-FR



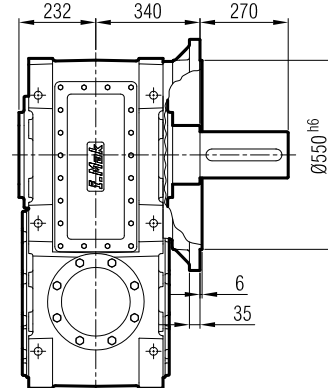
...-FD



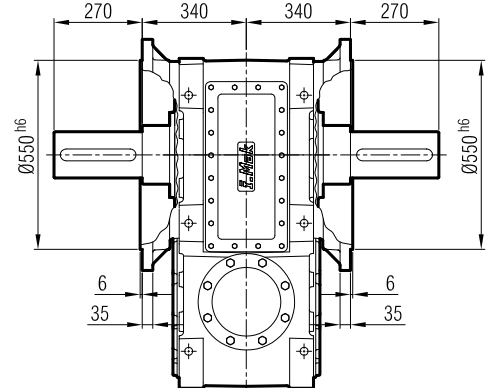
...-FL-SL



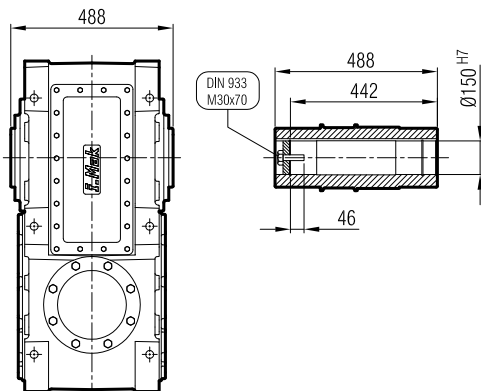
...-FR-SR



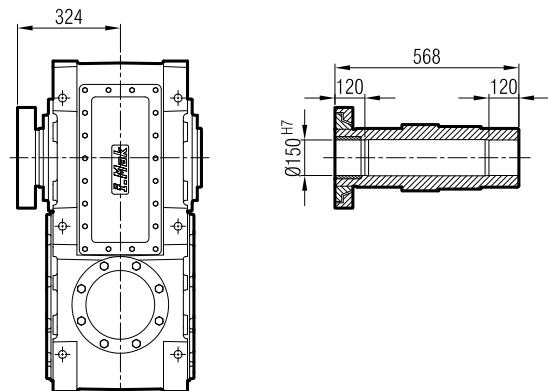
...-FD-SD



...-H

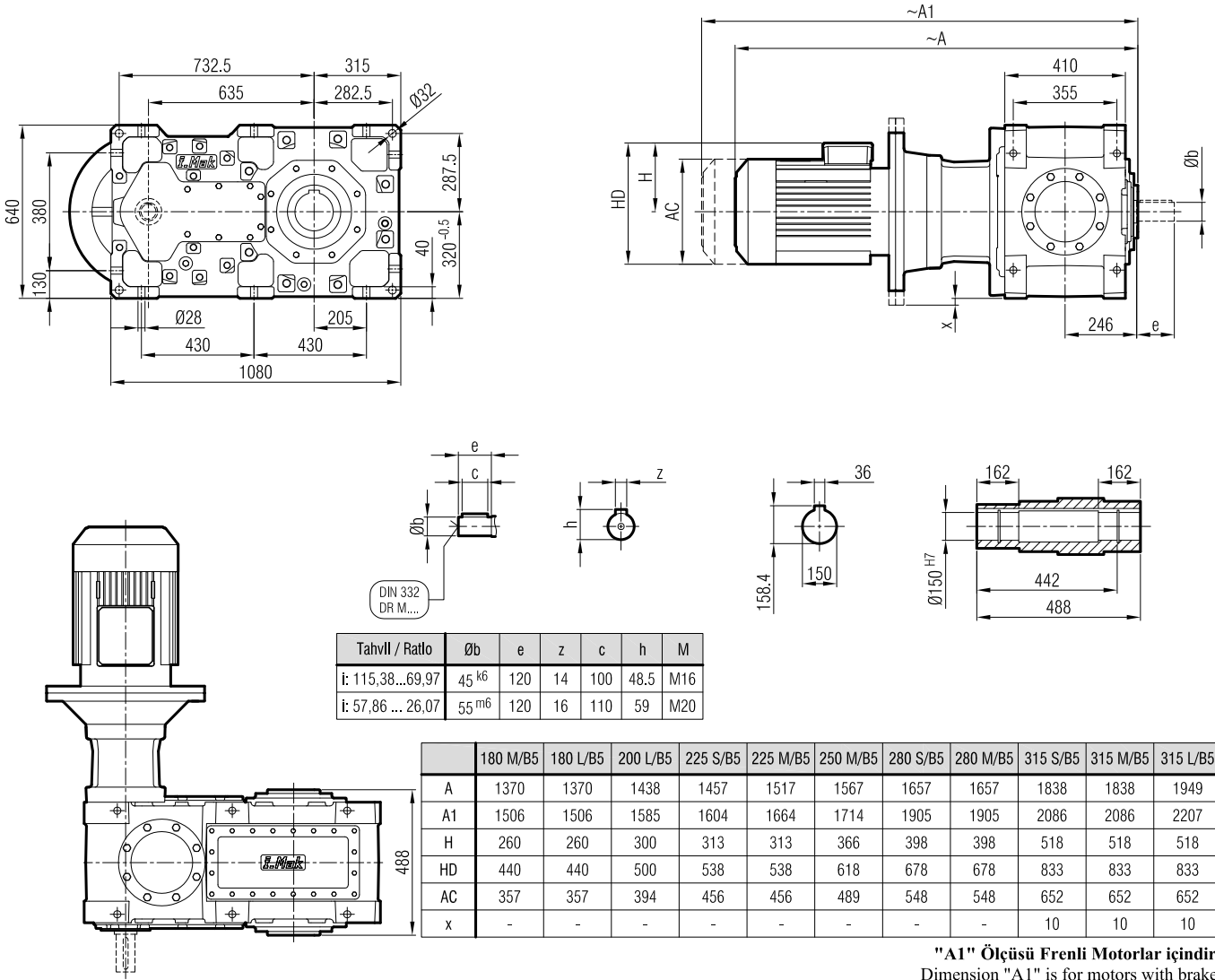


...-SDL / SDR

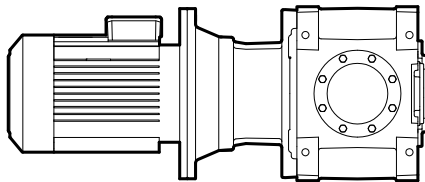




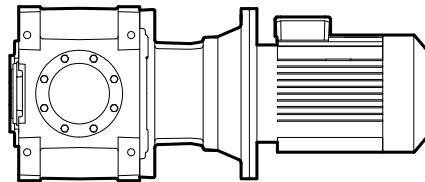
MAM 1003



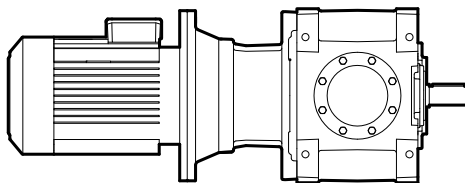
Giriş Seçenekleri / Input Options / Option d'entree



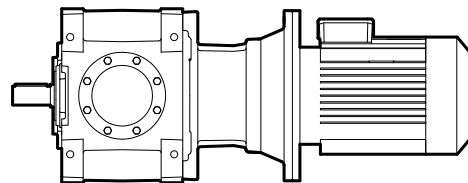
G03



G04



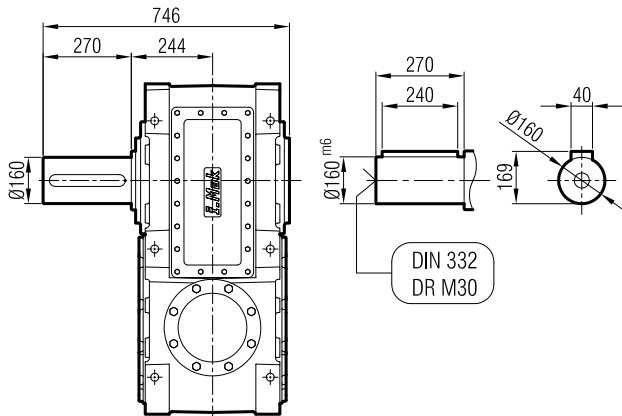
G05



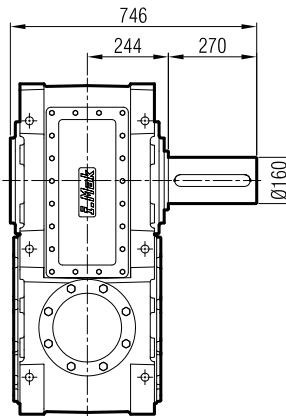
G06



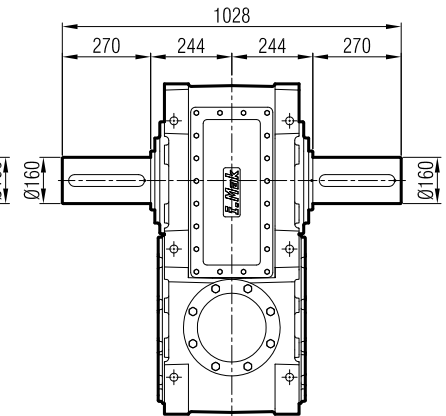
MA / MK 100_
...-SL



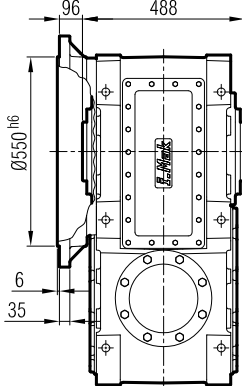
...-SR



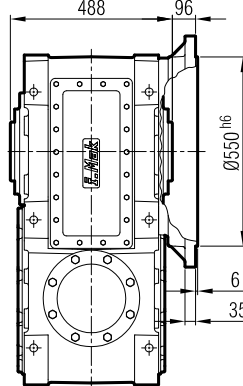
...-SD



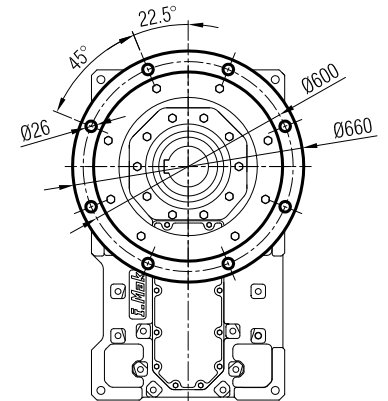
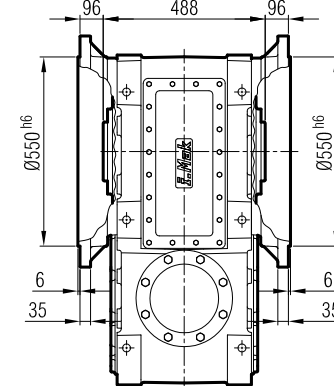
...-FL



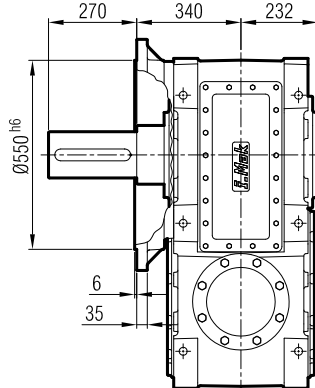
...-FR



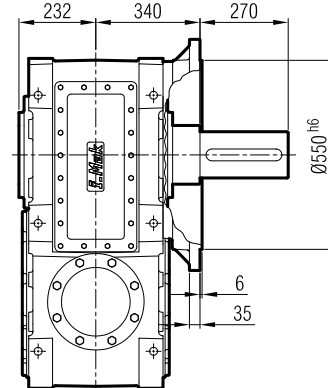
...-FD



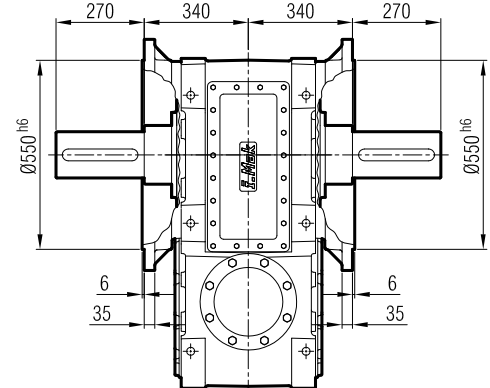
...-FL-SL



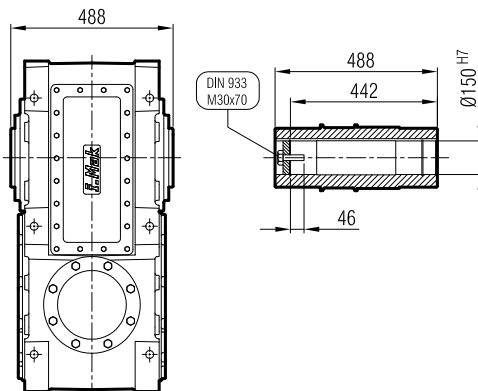
...-FR-SR



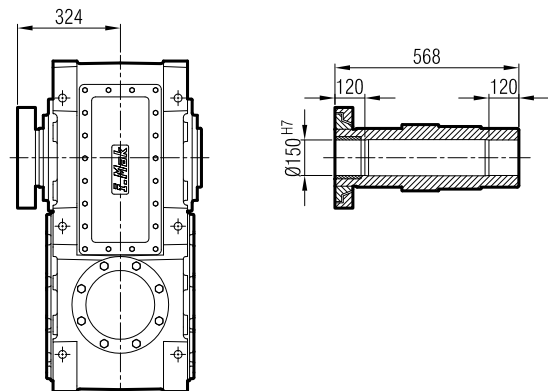
...-FD-SD



...-H

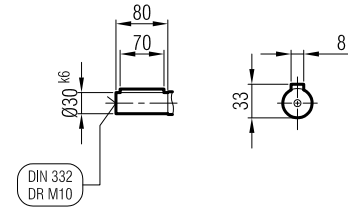
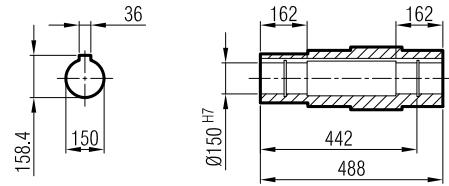
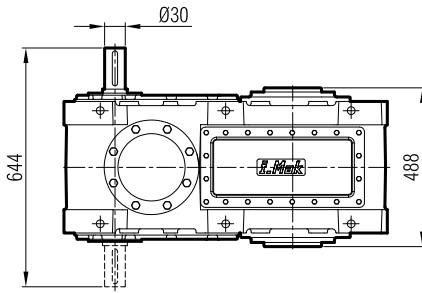
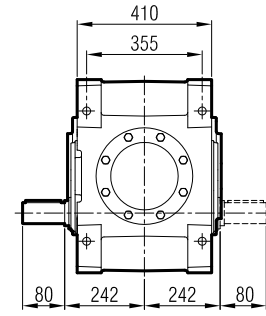
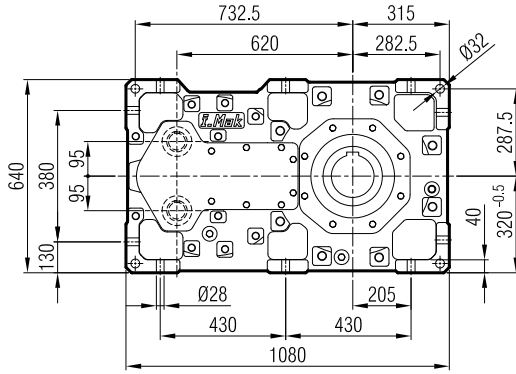


...-SDL / SDR

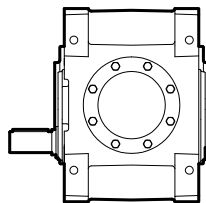




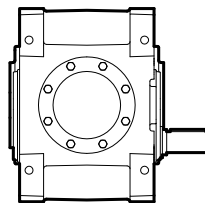
MA 1004



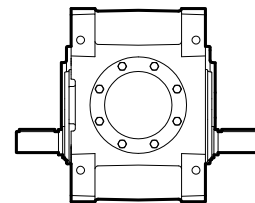
Giriş Seçenekleri / Input Options / Option d'entree



G00



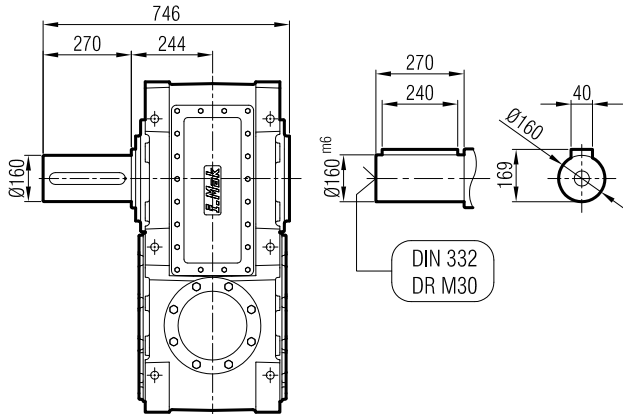
G01



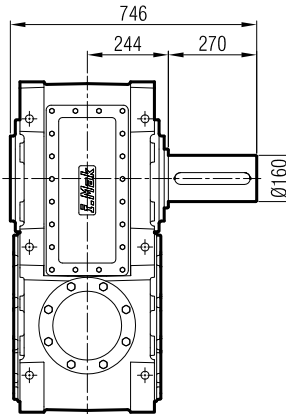
G02



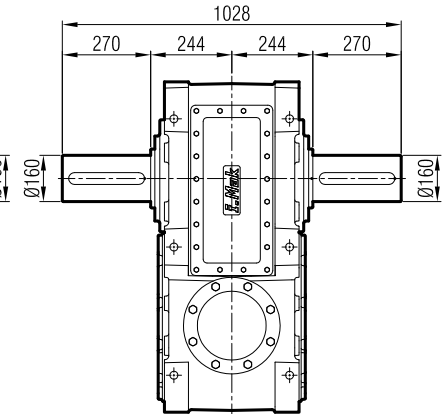
MA / MK 100_
...-SL



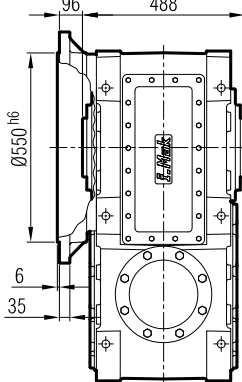
...-SR



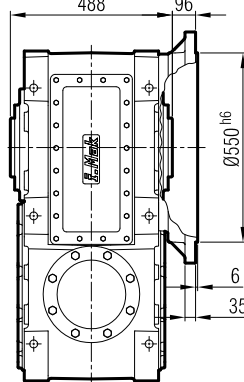
...-SD



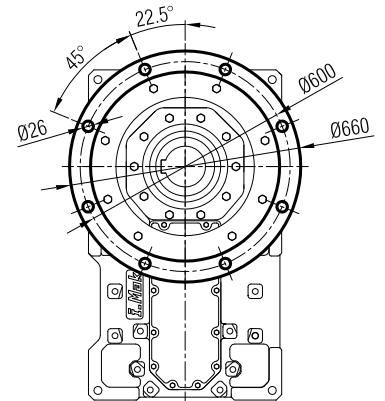
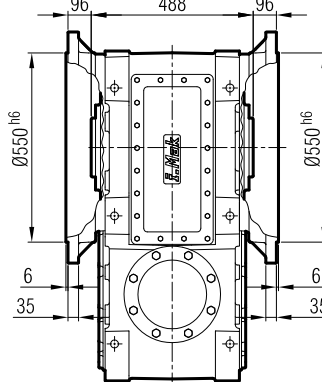
...-FL



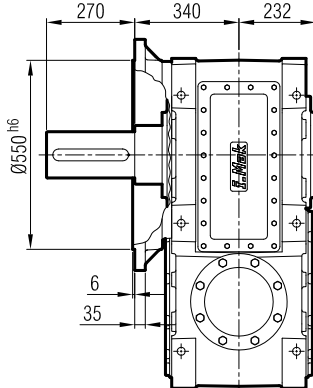
...-FR



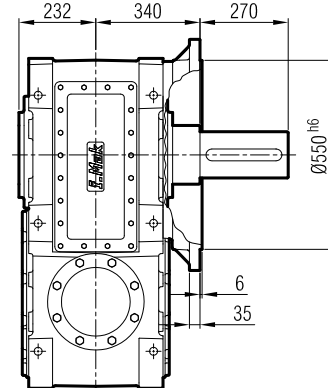
...-FD



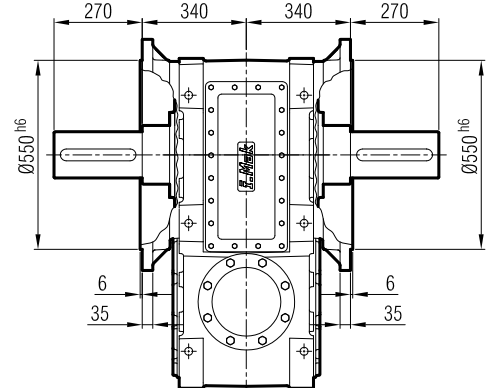
...-FL-SL



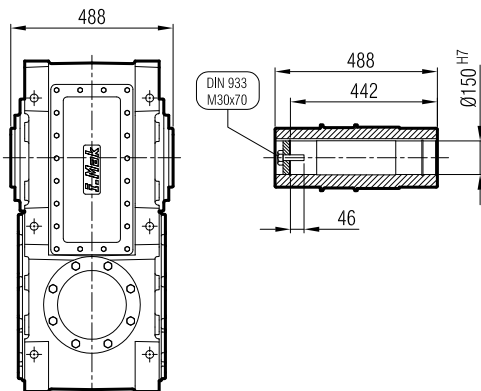
...-FR-SR



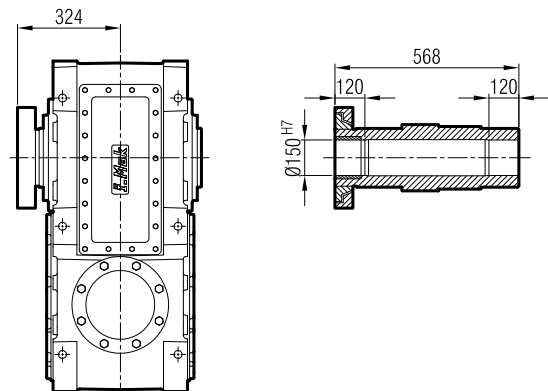
...-FD-SD



...-H

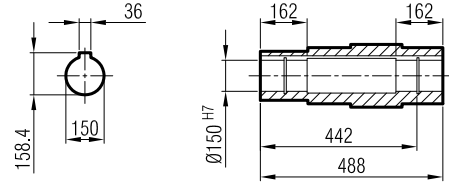
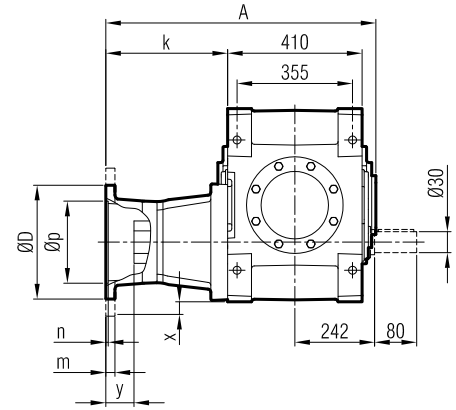
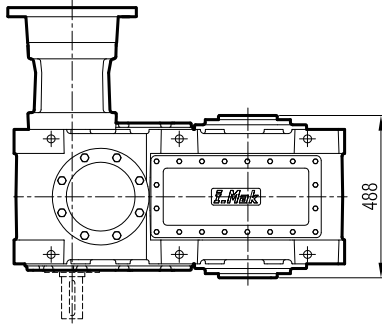
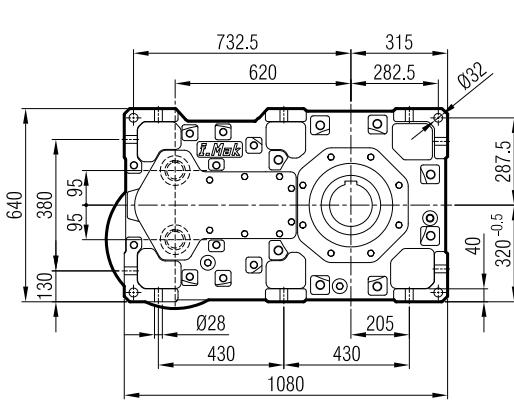


...-SDL / SDR



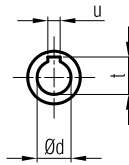
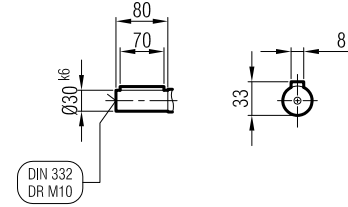
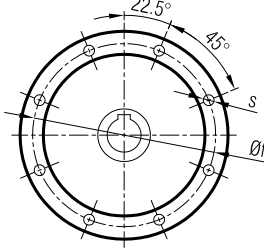
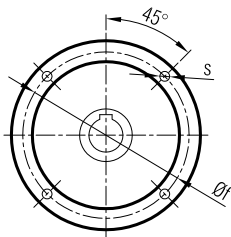


MAP 1004



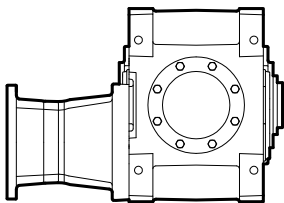
≤ 200 B5 **Tip/Type/Typ**

≥ 225 B5 **Tip/Type/Typ**

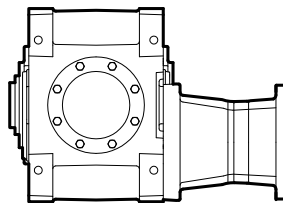


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	643	180	215	250	M12	194	15	5	28	31.3	8	-	31
132/B5	663	230	265	300	M12	214	18	6	38	41.3	10	-	45
160/B5	680	250	300	350	M14	231	20	6	42	45.3	12	-	70
180/B5	680	250	300	350	M14	231	20	6	48	51.8	14	-	60
200/B5	680	300	350	400	M16	231	22	6	55	59.3	16	-	60
225/B5	723	350	400	450	M16	274	22	6	60	64.4	18	0	80

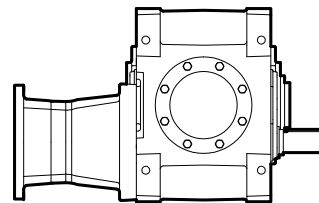
Giriş Seçenekleri / Input Options / Option d'entree



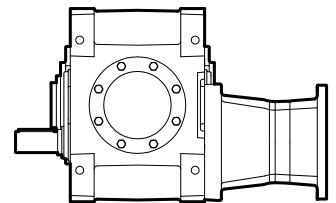
G03



G04



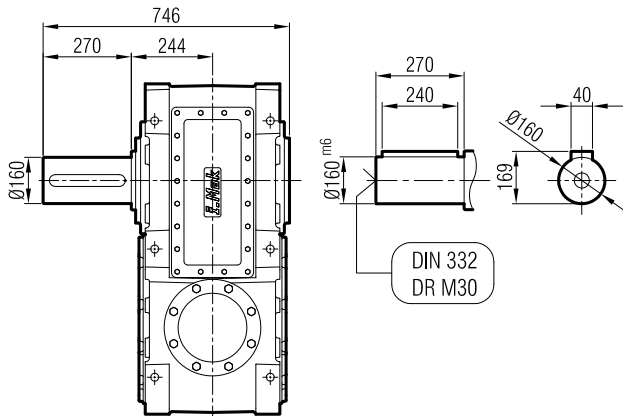
G05



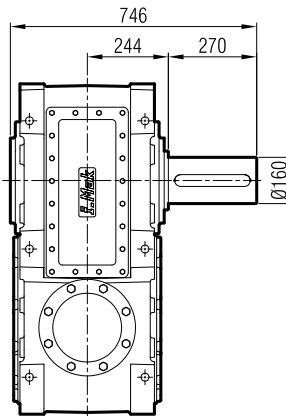
G06



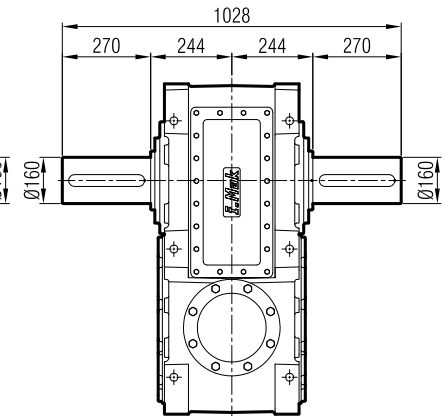
MA / MK 100_
...-SL



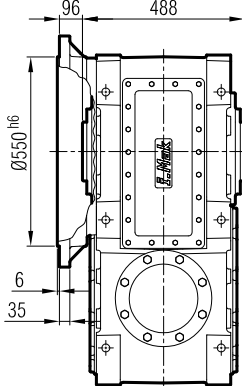
...-SR



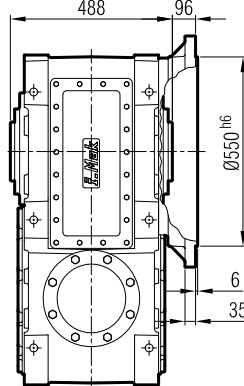
...-SD



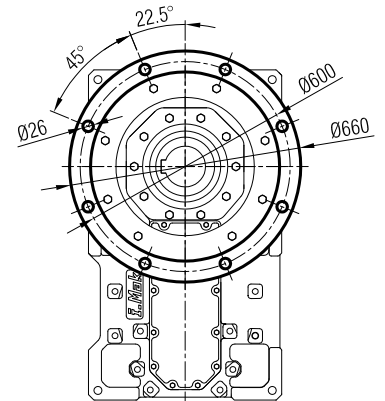
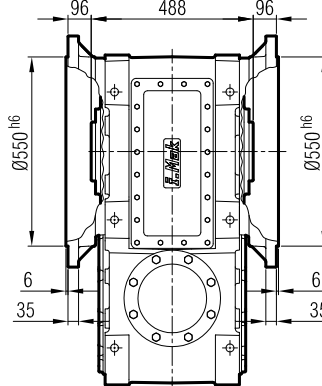
...-FL



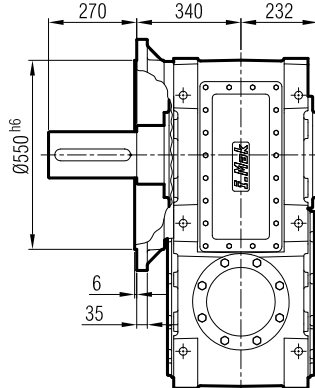
...-FR



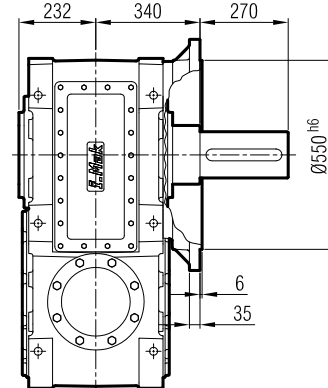
...-FD



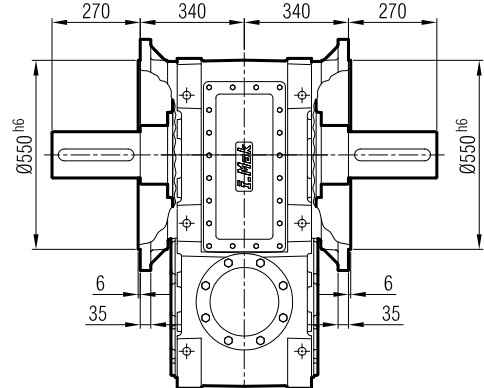
...-FL-SL



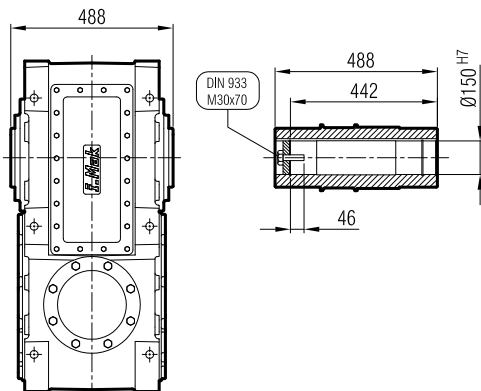
...-FR-SR



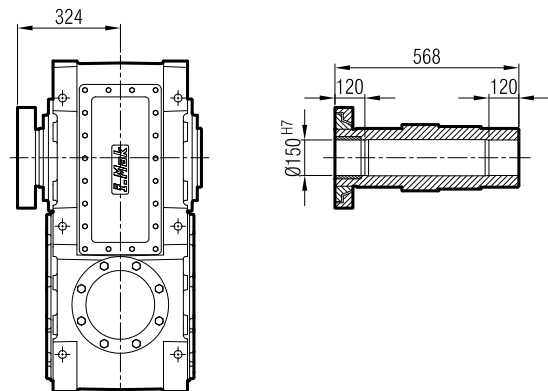
...-FD-SD



...-H

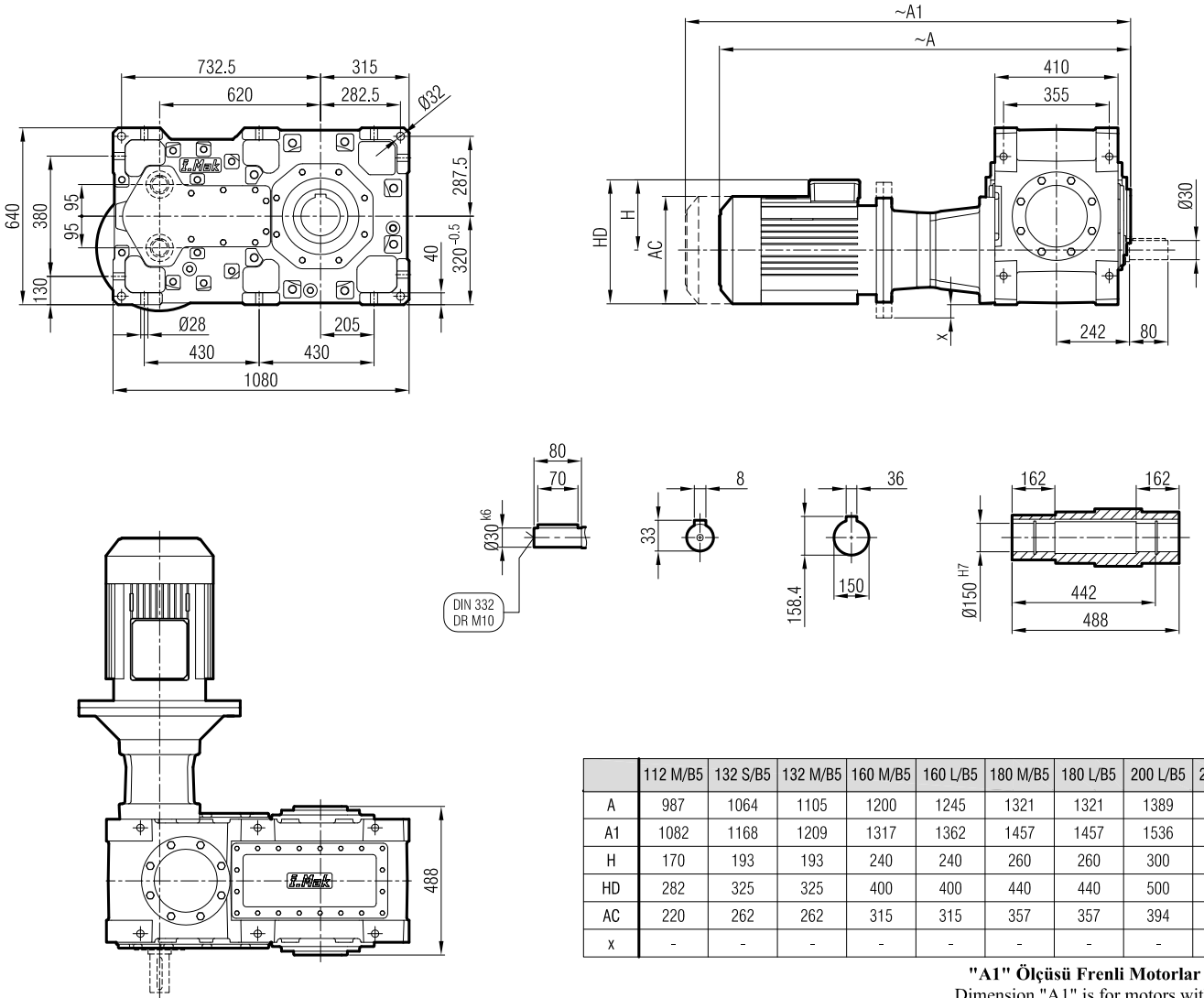


...-SDL / SDR





MAM 1004

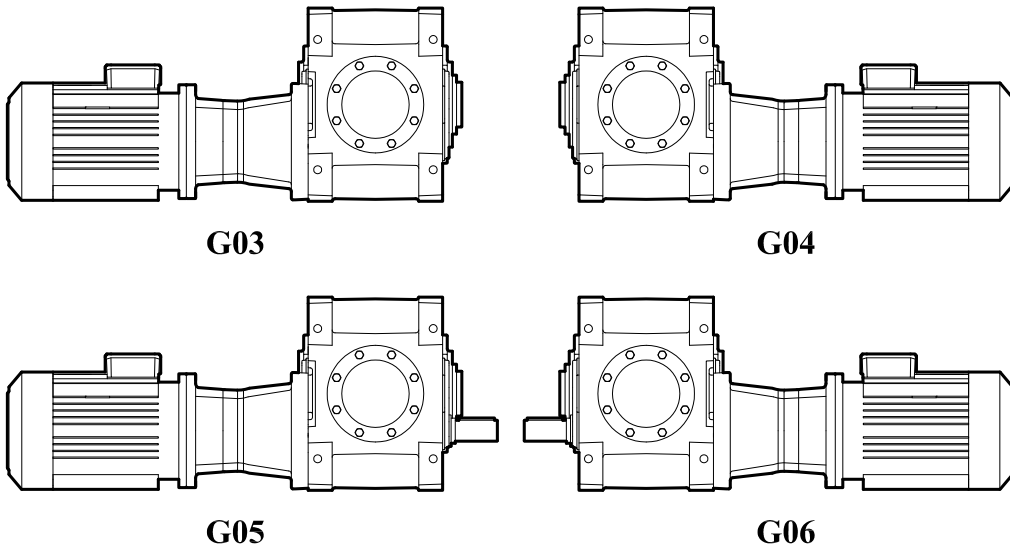


"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

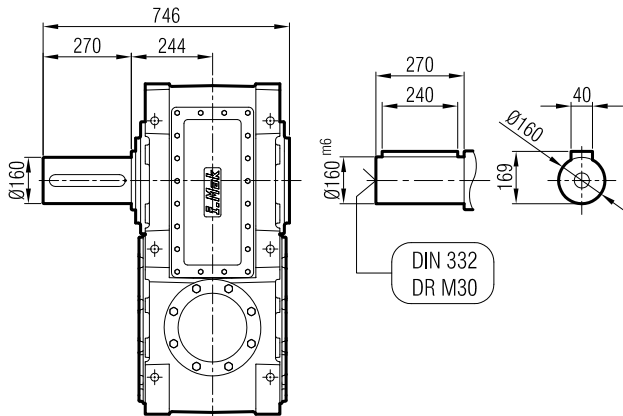
Le dimensions "A1" correspond aux moteurs équipés de freins.

Giriş Seçenekleri / Input Options / Option d'entree

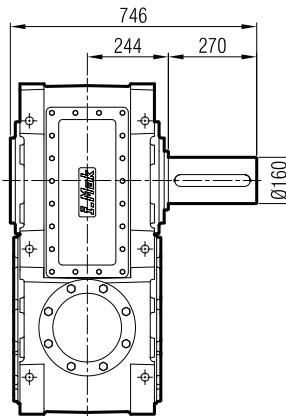




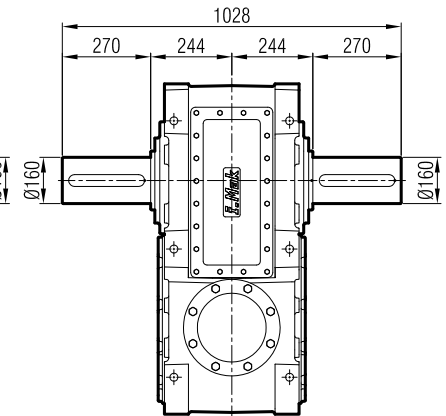
MA / MK 100_
...-SL



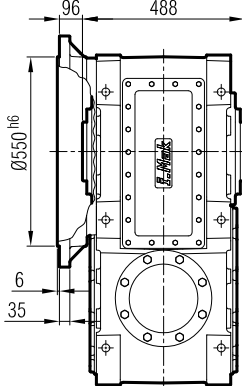
...-SR



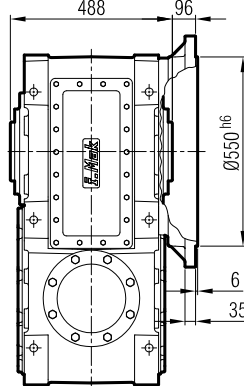
...-SD



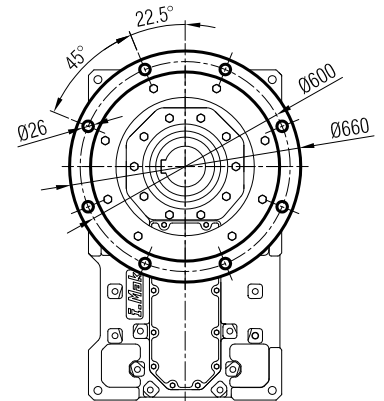
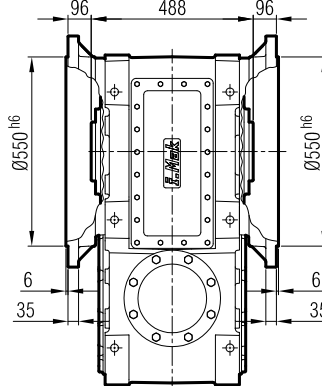
...-FL



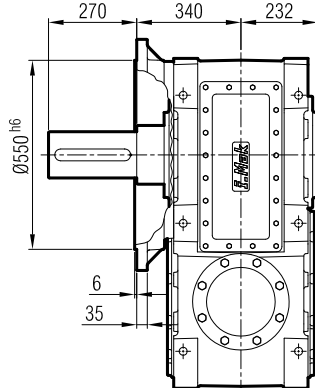
...-FR



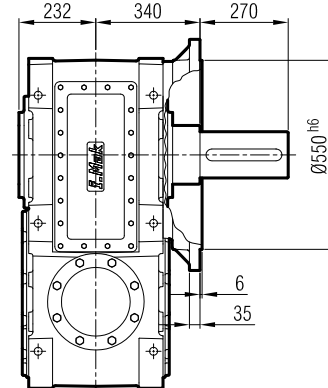
...-FD



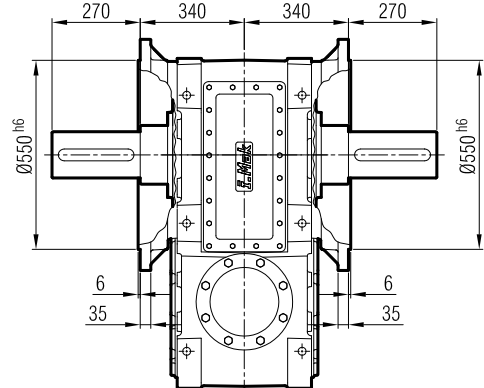
...-FL-SL



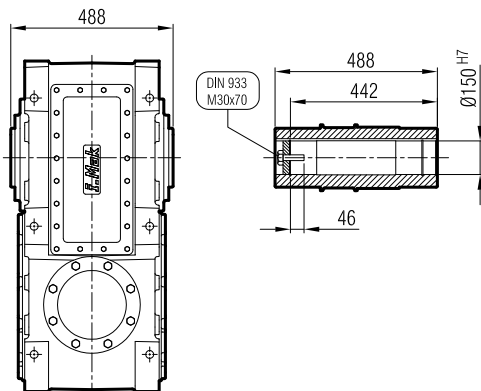
...-FR-SR



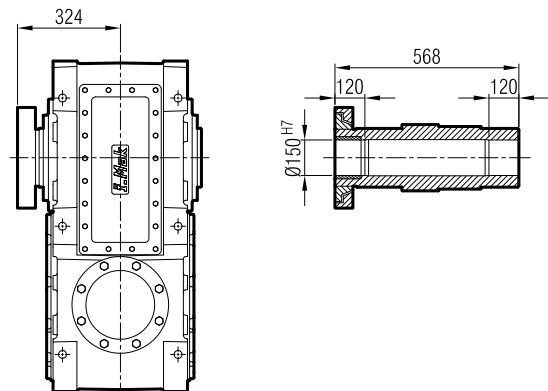
...-FD-SD



...-H

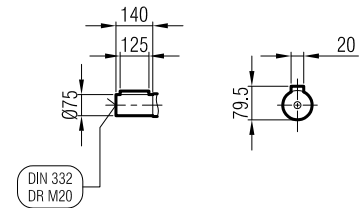
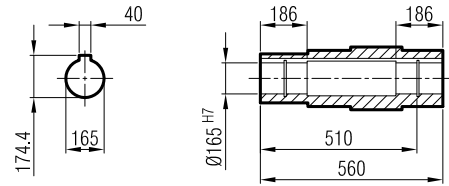
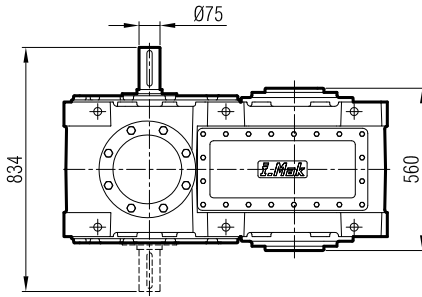
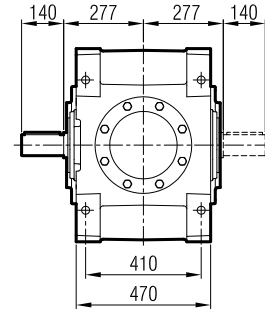
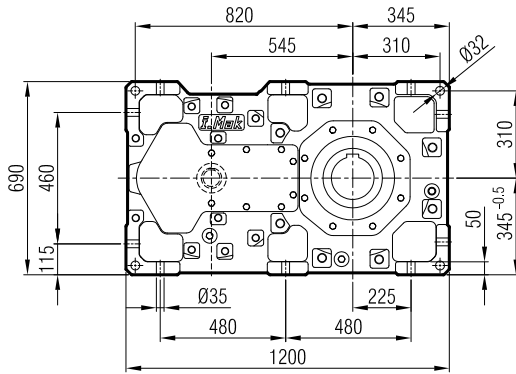


...-SDL / SDR

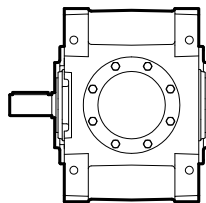




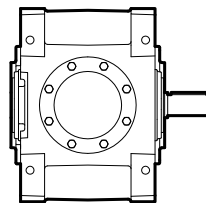
MA 1102



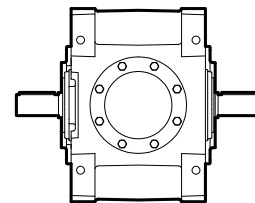
Giriş Seçenekleri / Input Options / Option d'entree



G00



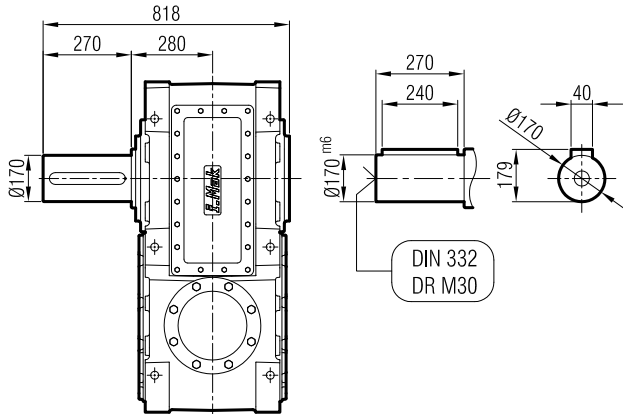
G01



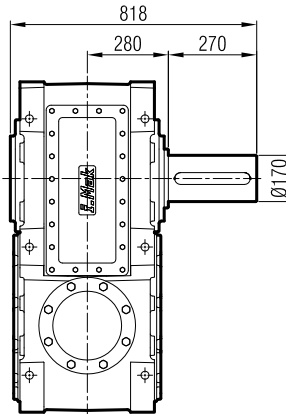
G02



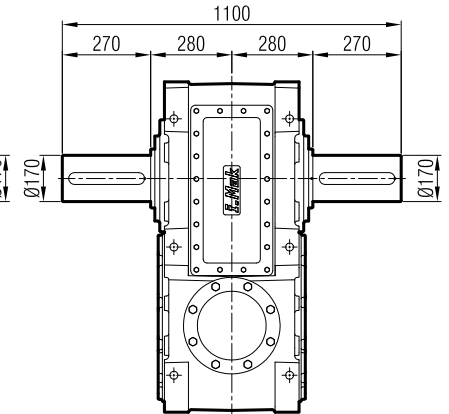
**MA / MK 110_
...-SL**



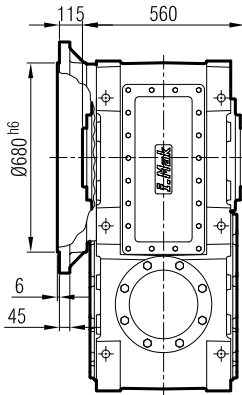
...-SR



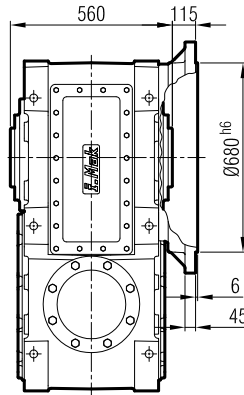
...-SD



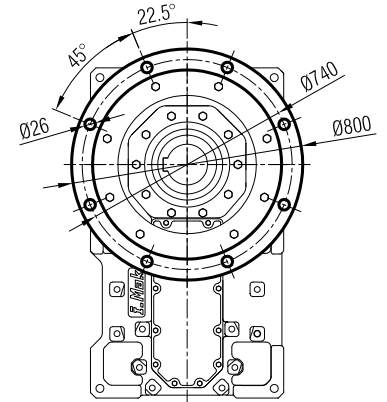
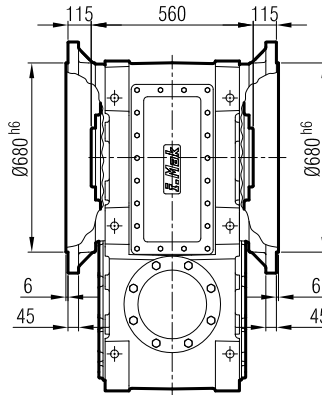
...-FL



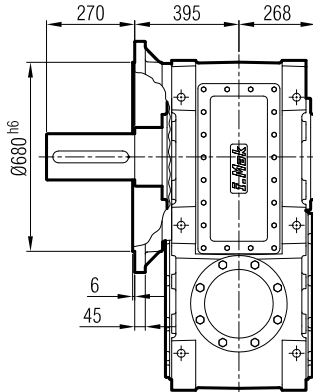
...-FR



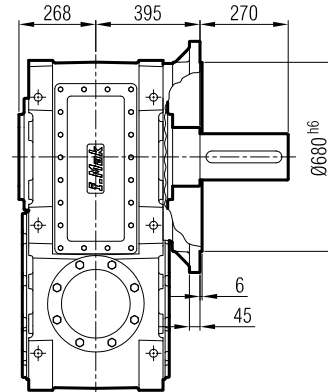
...-FD



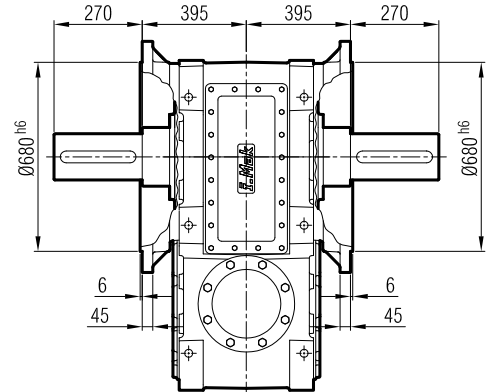
...-FL-SL



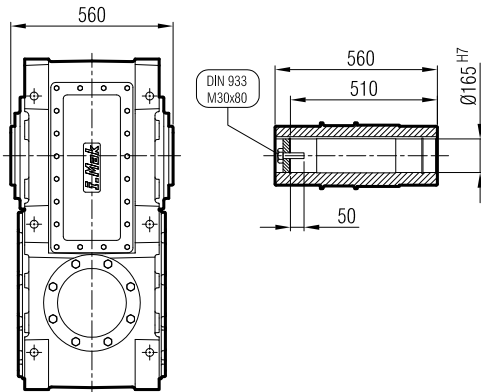
...-FR-SR



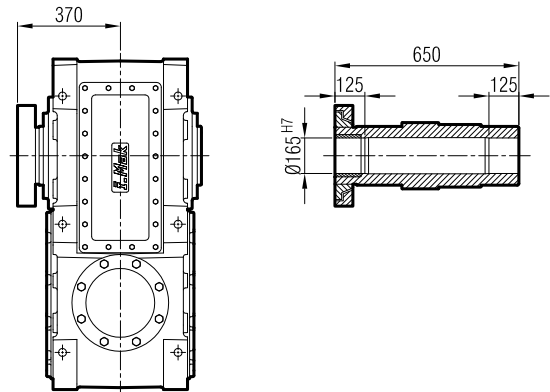
...-FD-SD



...-H

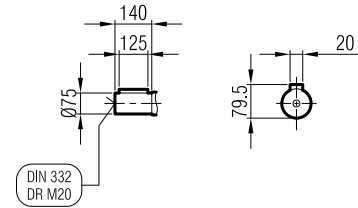
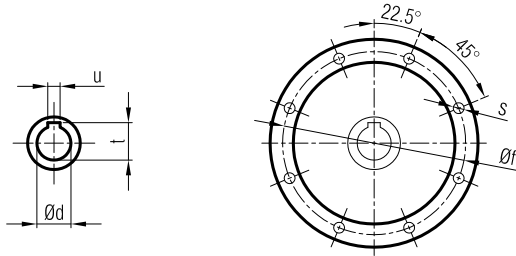
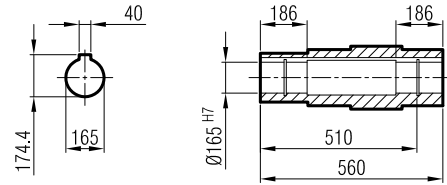
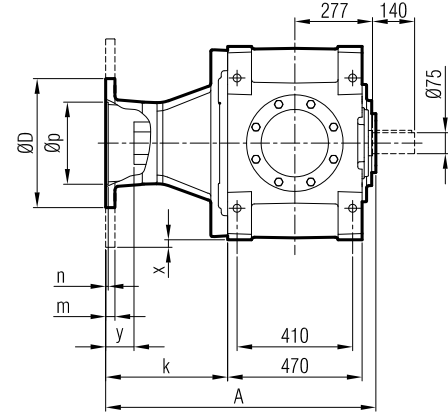
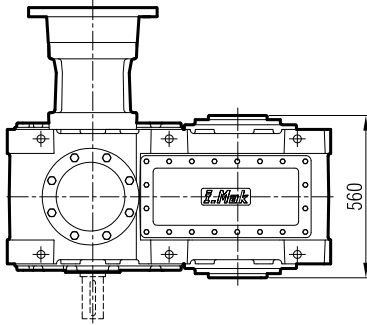
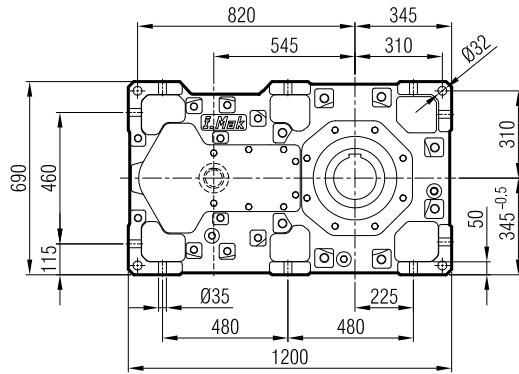


...-SDL / SDR



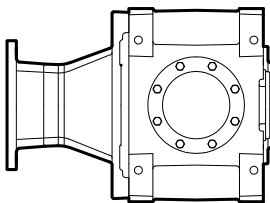


MAP 1102

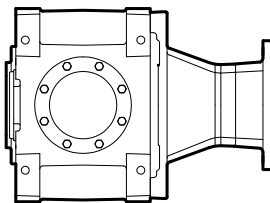


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
280/B5	851	450	500	550	M16	336	25	6.5	75	75.9	20	-	45
315/B5	881	550	600	660	M24	366	30	7	85	90.4	22	-	75

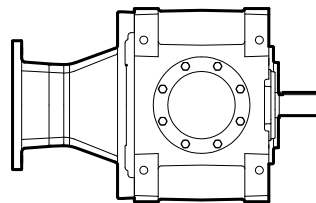
Giriş Seçenekleri / Input Options / Option d'entree



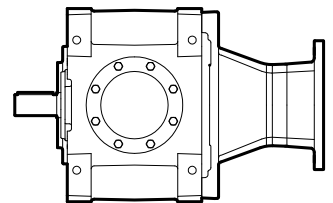
G03



G04



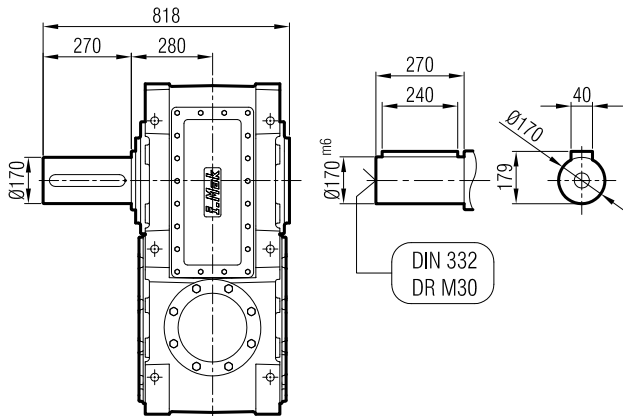
G05



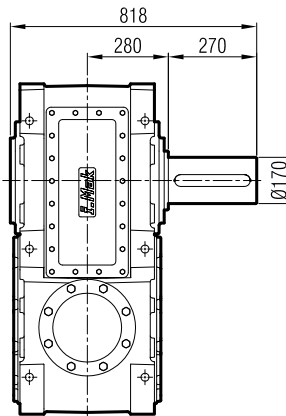
G06



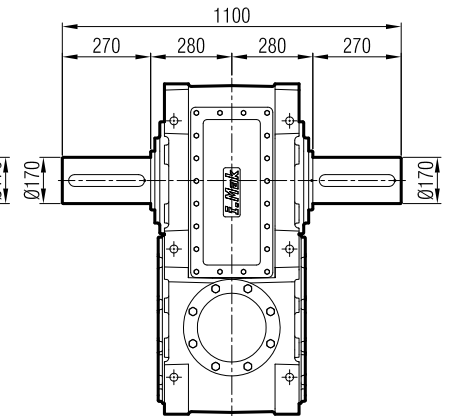
MA / MK 110_
...-SL



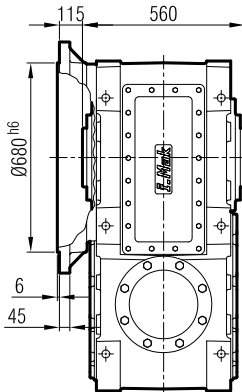
...-SR



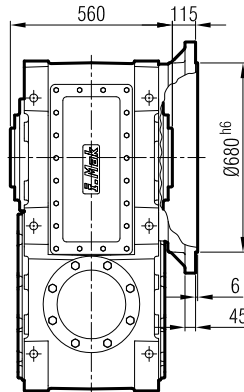
...-SD



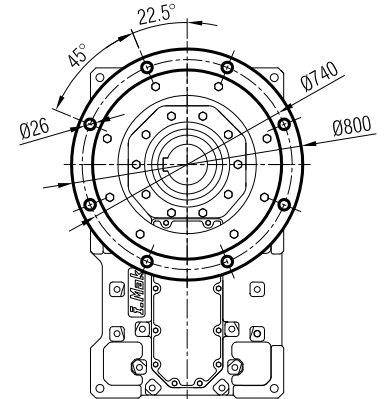
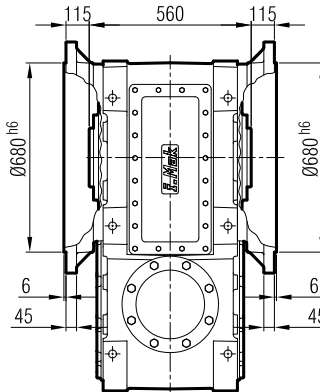
...-FL



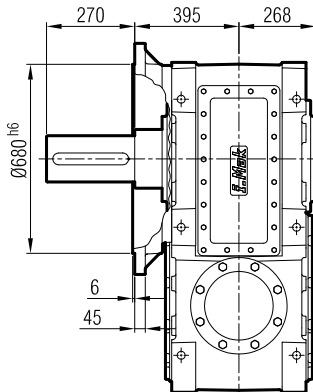
...-FR



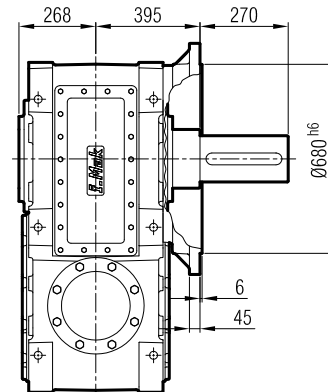
...-FD



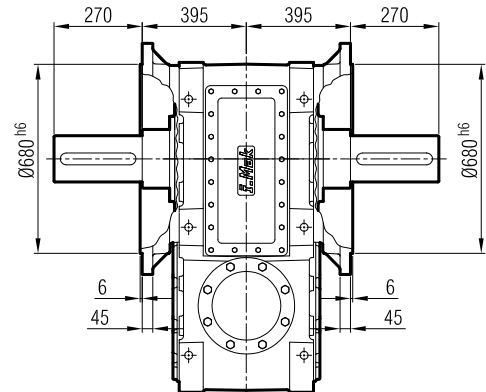
...-FL-SL



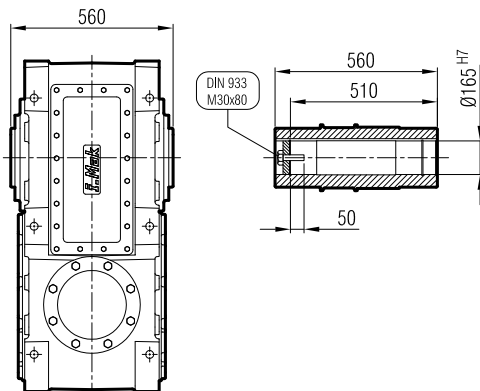
...-FR-SR



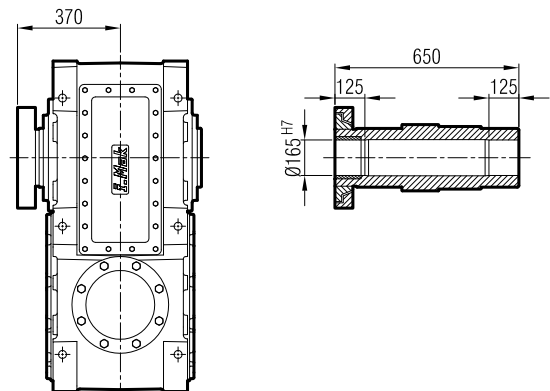
...-FD-SD



...-H

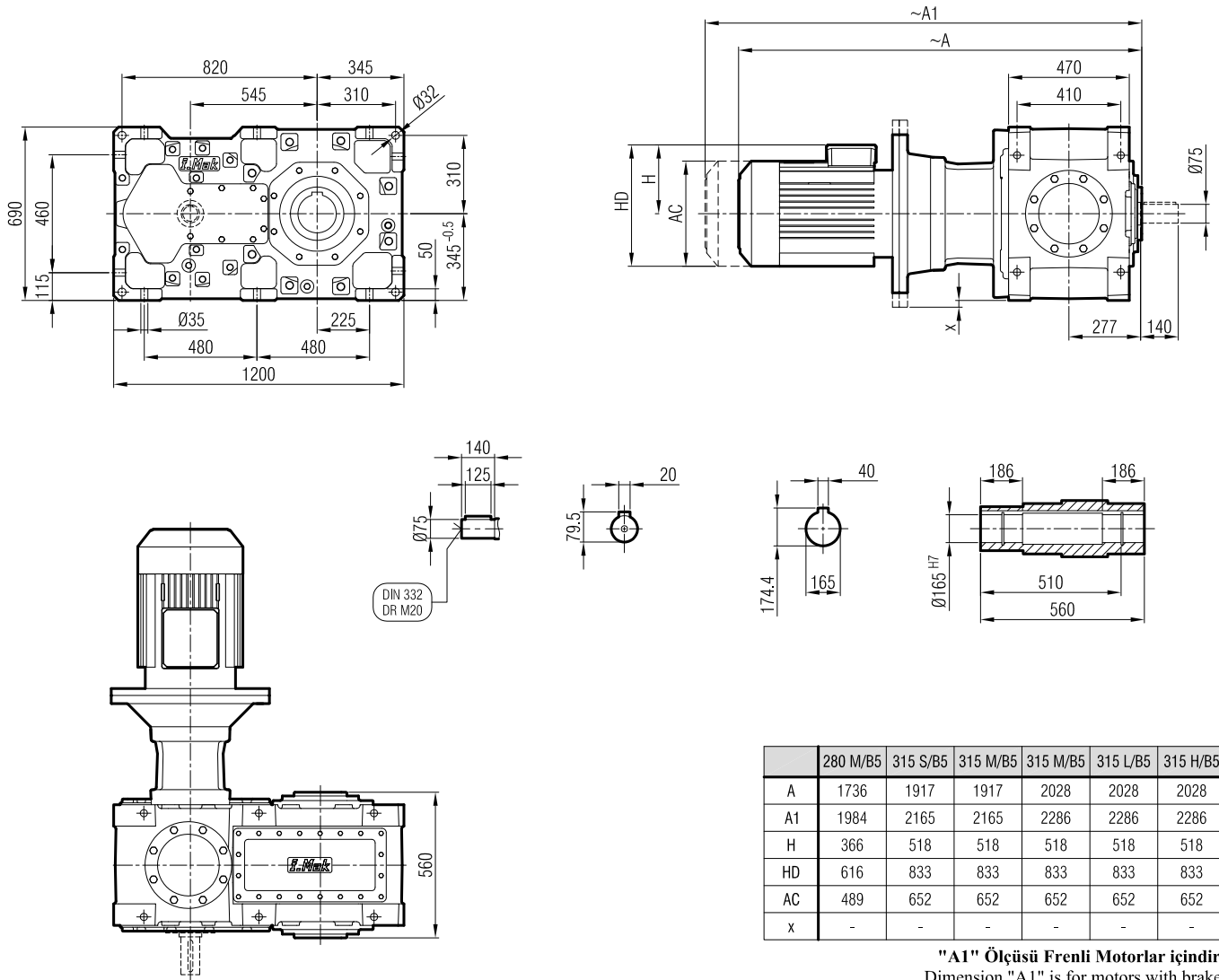


...-SDL / SDR





MAM 1102

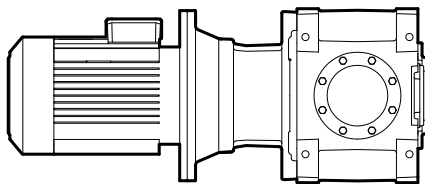


"A1" Ölçüsü Frenli Motorlar içindir.

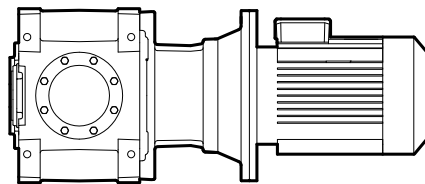
Dimension "A1" is for motors with brake.

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

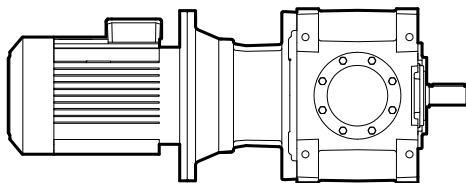
Giriş Seçenekleri / Input Options / Option d'entree



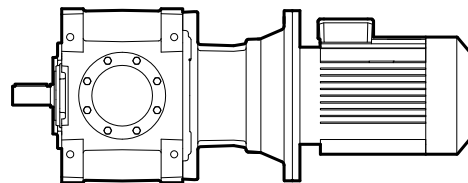
G03



G04



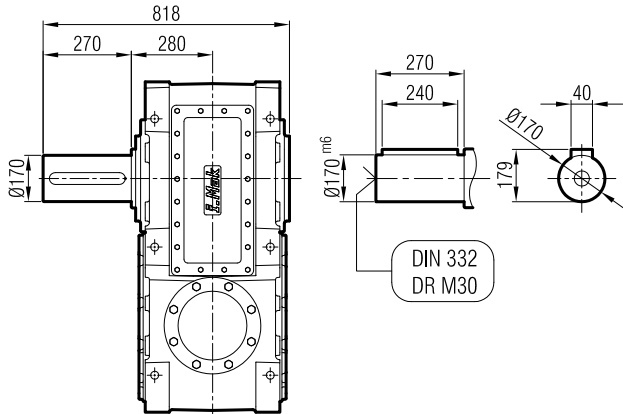
G05



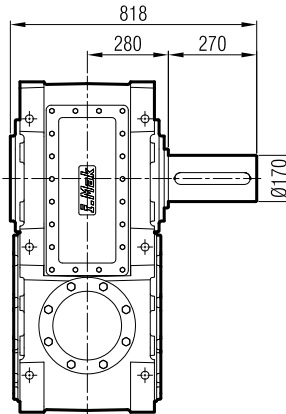
G06



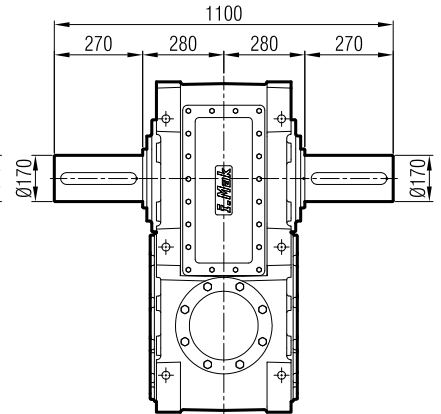
**MA / MK 110_
...-SL**



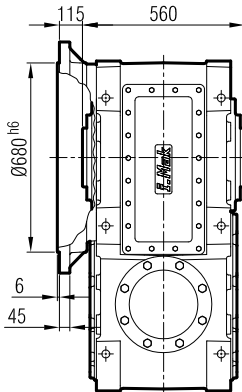
...-SR



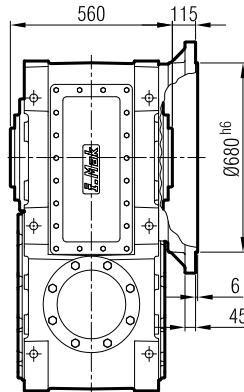
...-SD



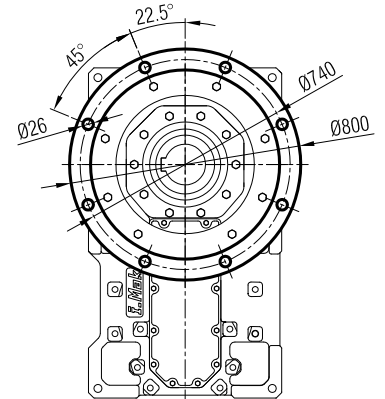
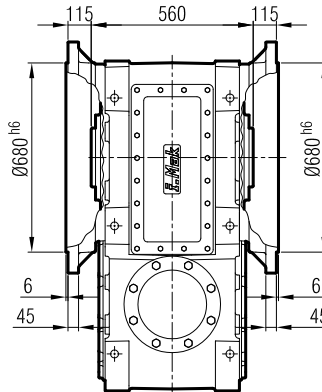
...-FL



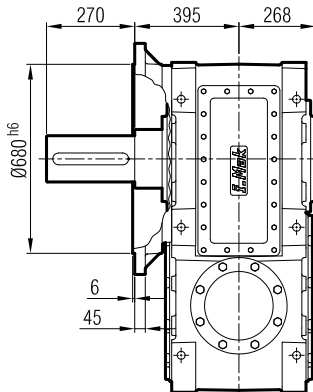
...-FR



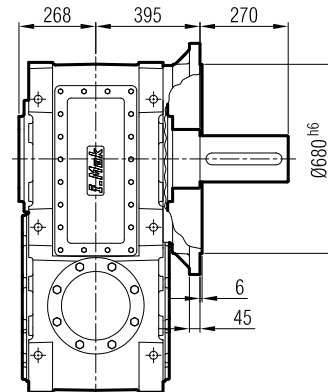
...-FD



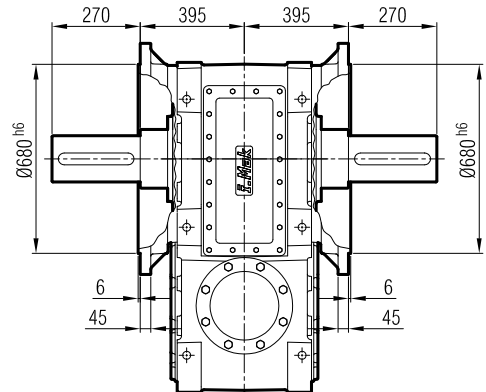
...-FL-SL



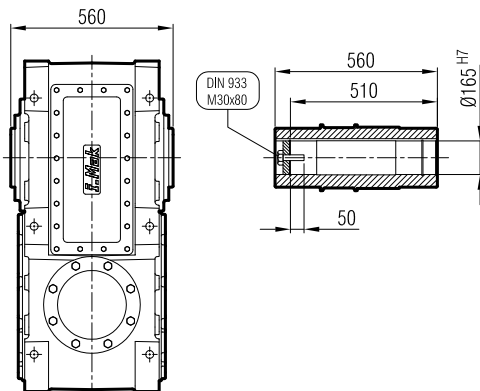
...-FR-SR



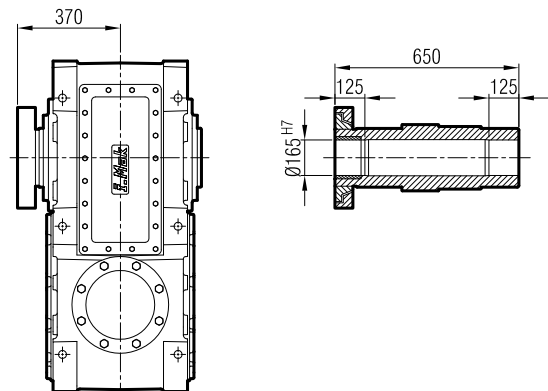
...-FD-SD



...-H

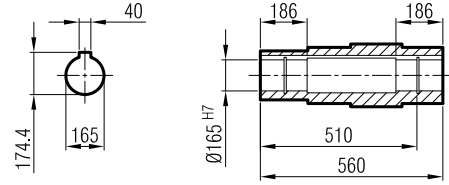
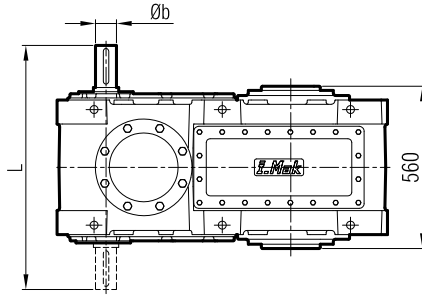
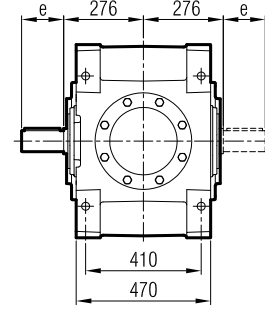
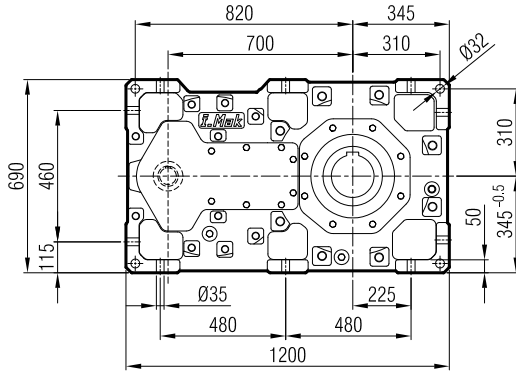


...-SDL / SDR

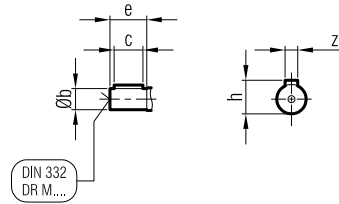




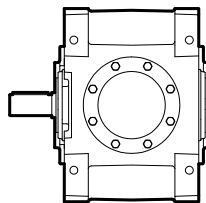
MA 1103



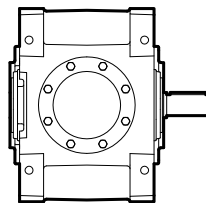
Tahvil / Ratio	Øb	e	z	c	h	M	L
I: 92,98...82,57	55	140	16	125	59	20	832
I: 73,82...20,27	70	140	20	125	74.5	20	832



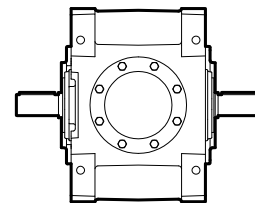
Giriş Seçenekleri / Input Options / Option d'entree



G00



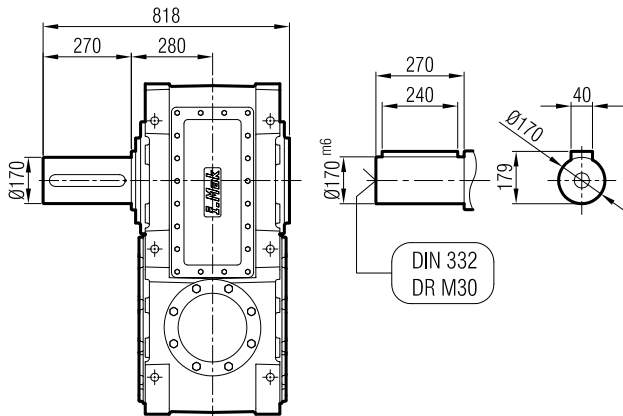
G01



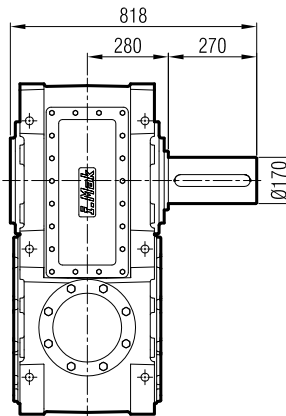
G02



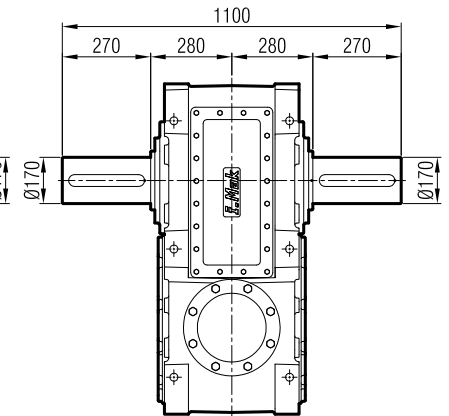
MA / MK 110_
...-SL



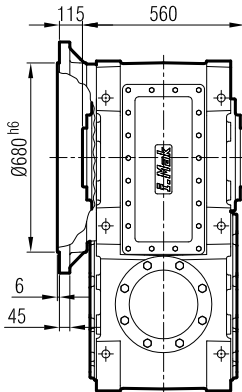
...-SR



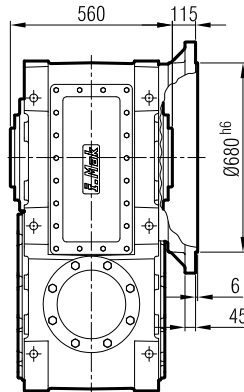
...-SD



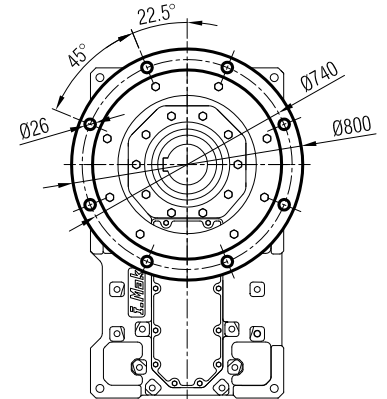
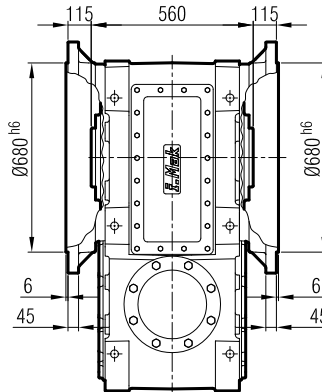
...-FL



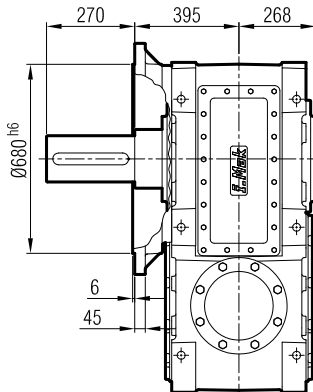
...-FR



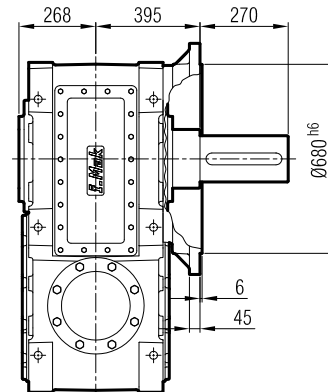
...-FD



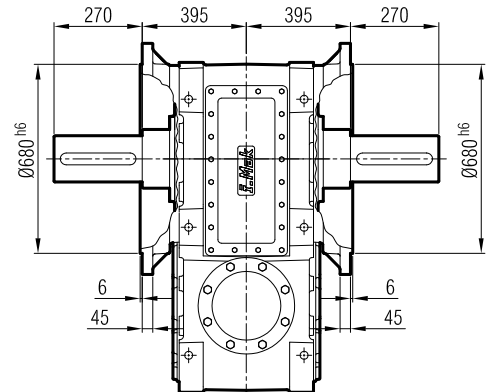
...-FL-SL



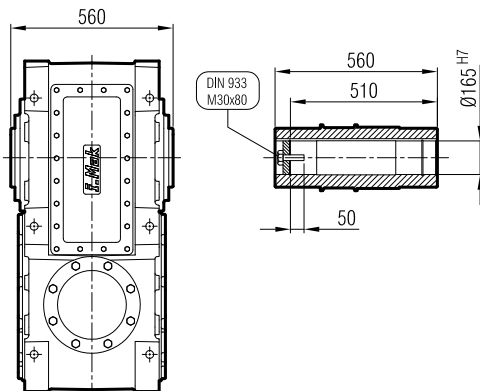
...-FR-SR



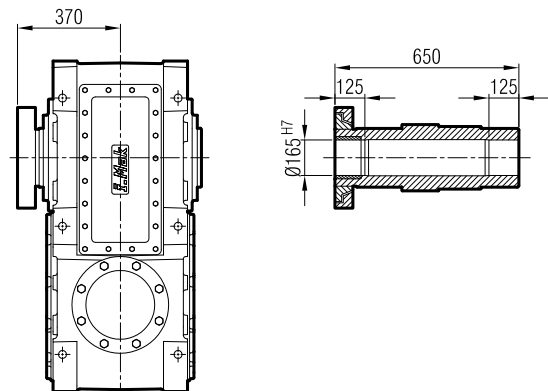
...-FD-SD



...-H

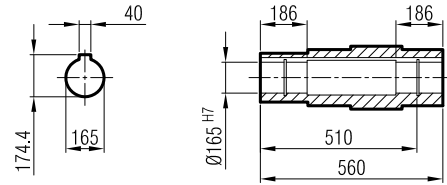
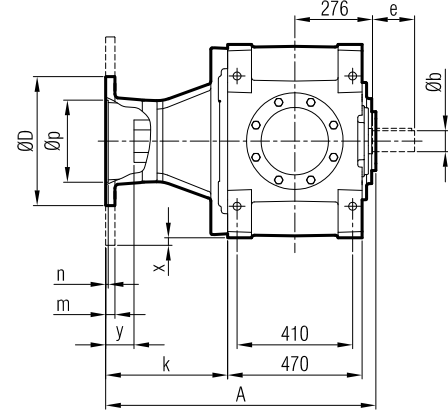
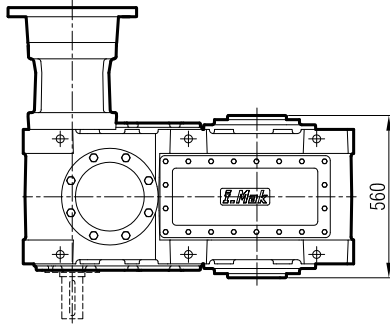
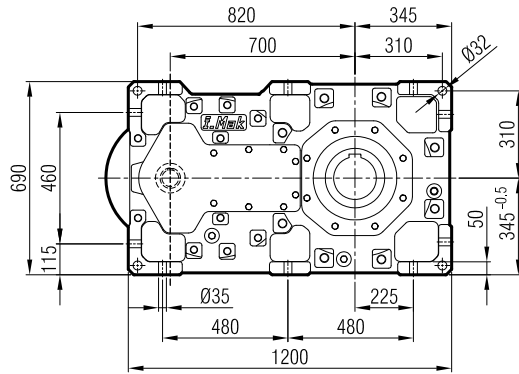


...-SDL / SDR



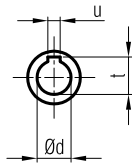
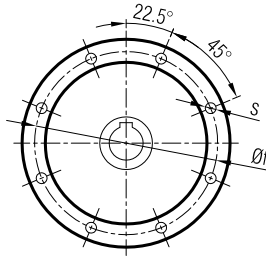
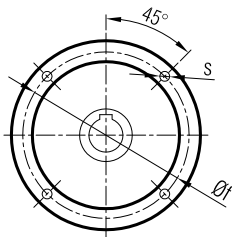


MAP 1103

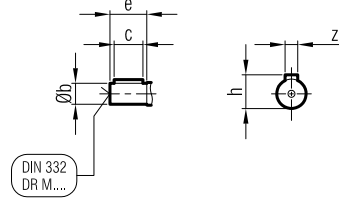


≤ 200 B5 Tip/Type/Typ

≥ 225 B5 Tip/Type/Typ

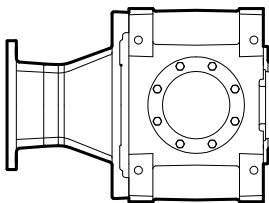


Tahvil / Ratio	Øb	e	z	c	h	M
i: 92,98...82,57	55	140	16	125	59	20
i: 73,82...20,27	70	140	20	125	74.5	20

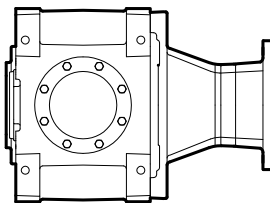


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y (l: ≥ 82,57)	y (l: ≤ 73,82)
200/B5	816	300	350	400	M16	301	22	6	55	59.3	16	-	43	14
225/B5	859	350	400	450	M16	344	22	6	60	64.4	18	-	74	57
250/B5	859	450	500	550	M16	344	25	6.5	65	69.4	18	-	74	54
280/B5	859	450	500	550	M16	344	25	6.5	75	75.9	20	-	64	45
315/B5	889	550	600	660	M24	374	30	7	85	90.4	22	-	75	75

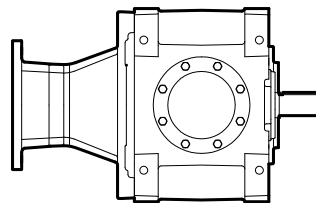
Giriş Seçenekleri / Input Options / Option d'entree



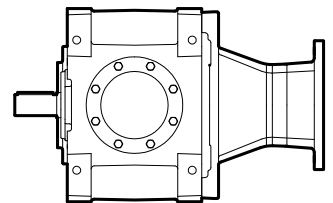
G03



G04



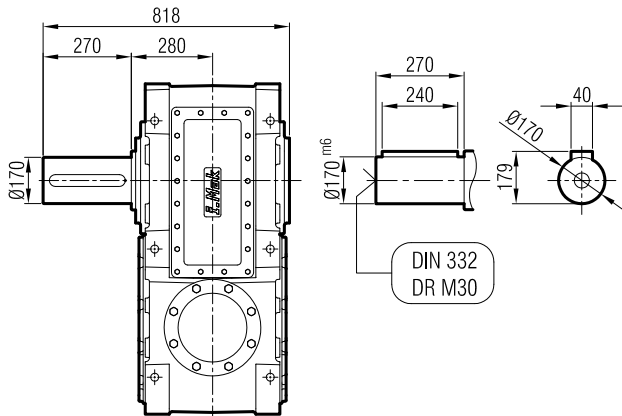
G05



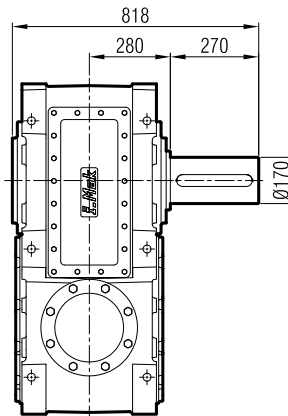
G06



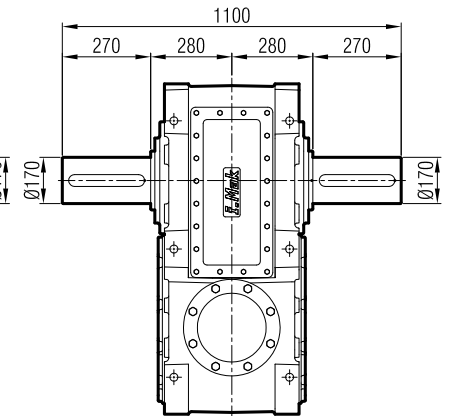
MA / MK 110_
...-SL



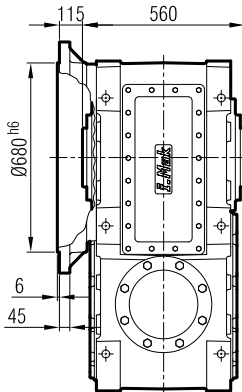
...-SR



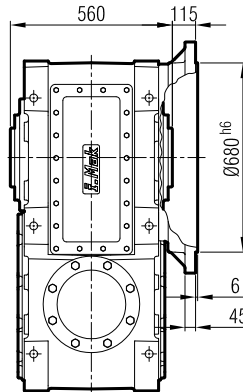
...-SD



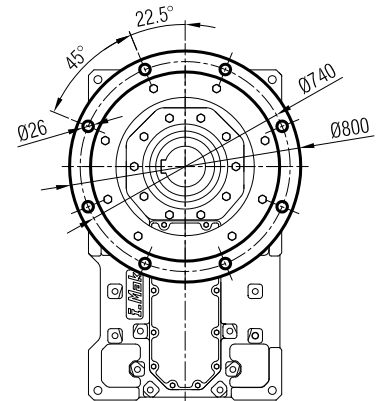
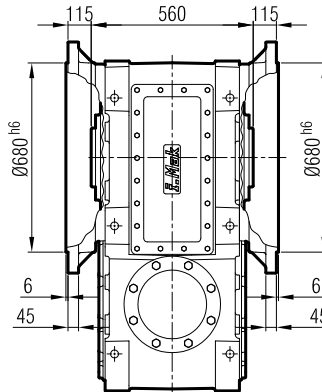
...-FL



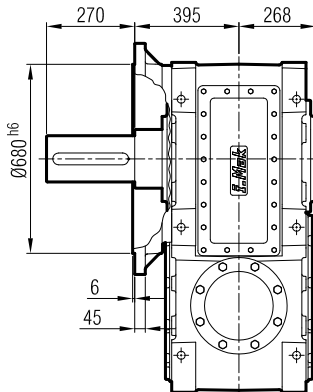
...-FR



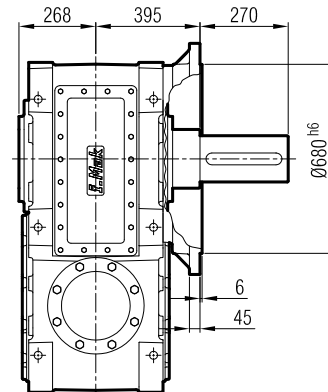
...-FD



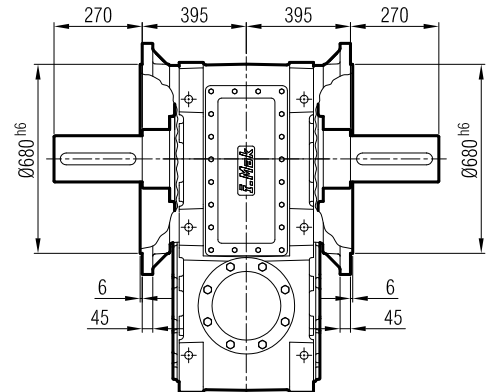
...-FL-SL



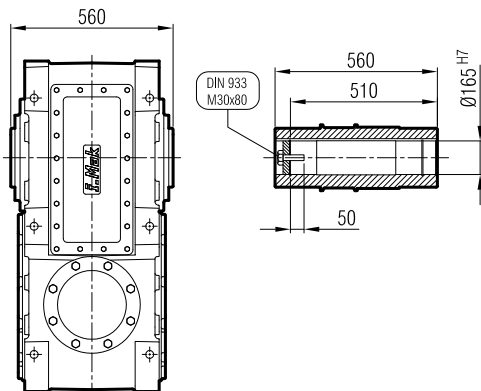
...-FR-SR



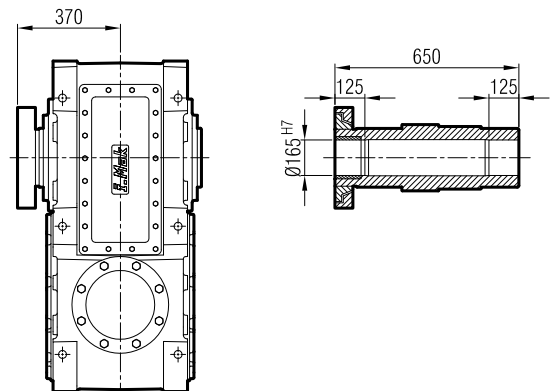
...-FD-SD



...-H

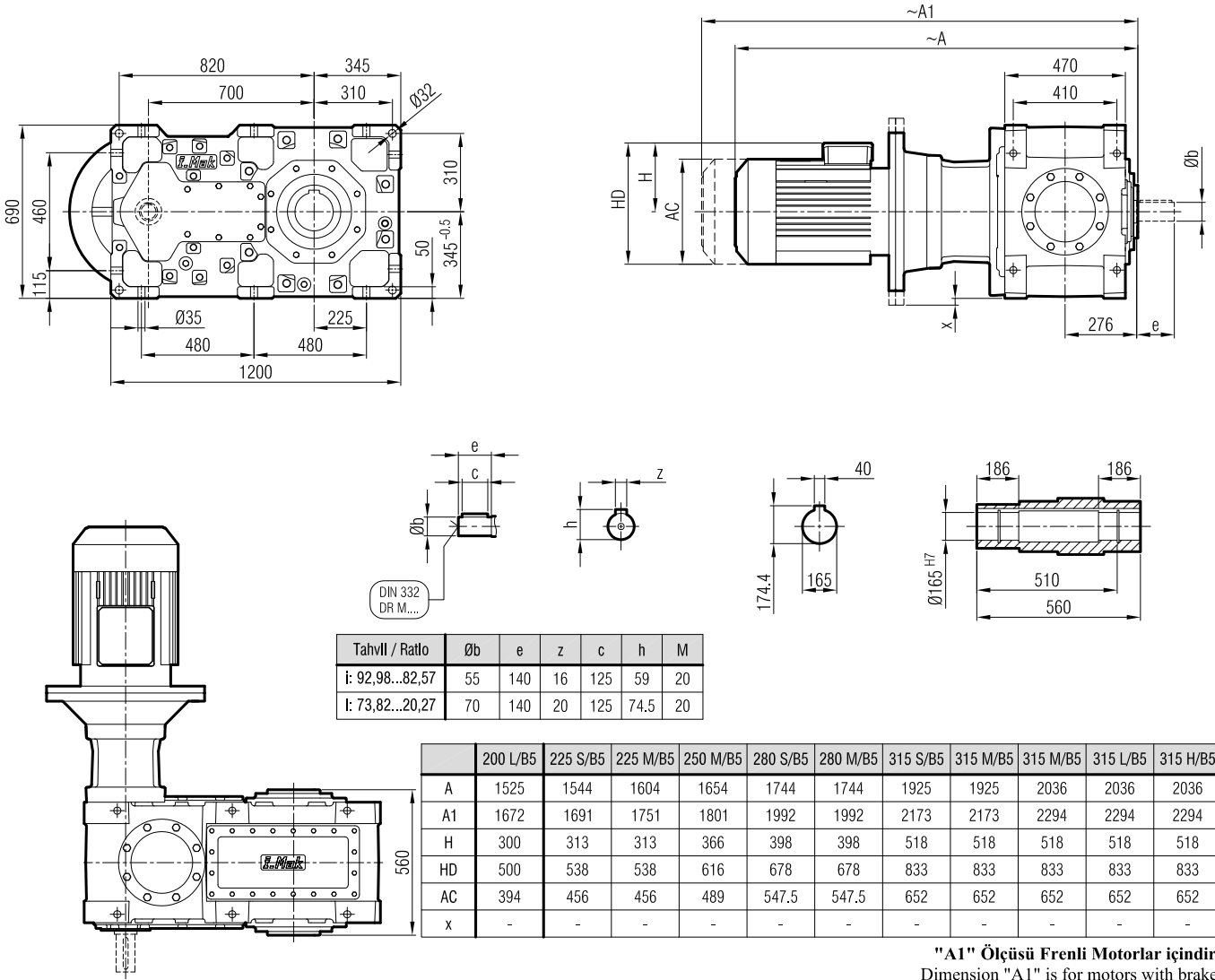


...-SDL / SDR



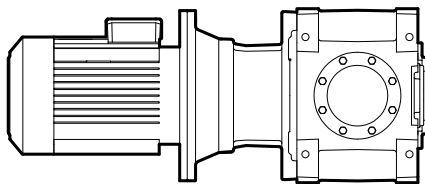


MAM 1103

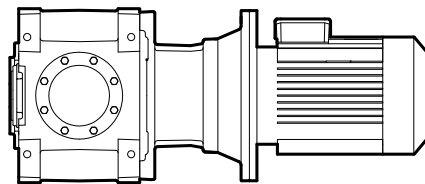


"A1" Ölçüsü Frenli Motorlar içindir.
Dimension "A1" is for motors with brake.
Le dimensions "A1" correspond aux moteurs équipés de freins.

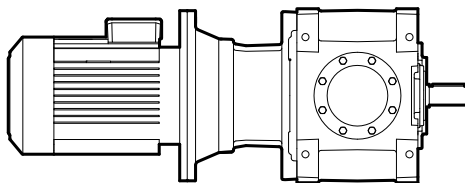
Giriş Seçenekleri / Input Options / Option d'entree



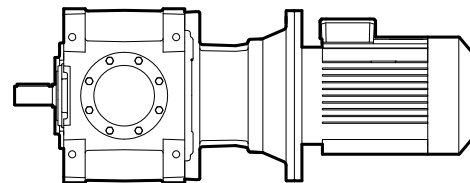
G03



G04



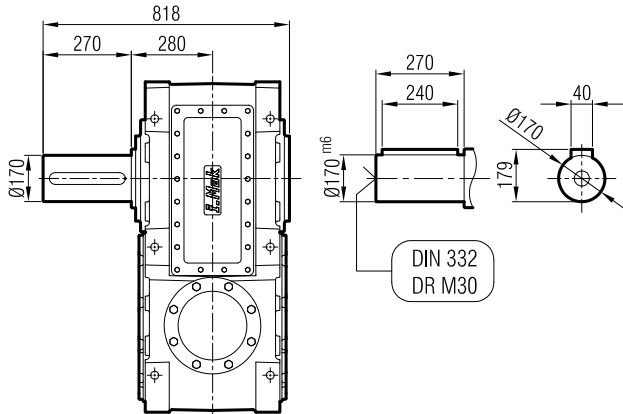
G05



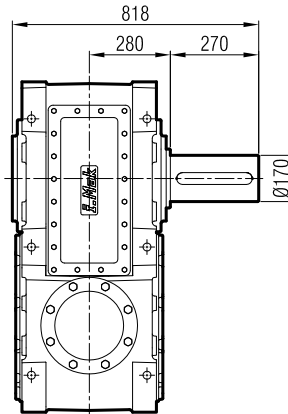
G06



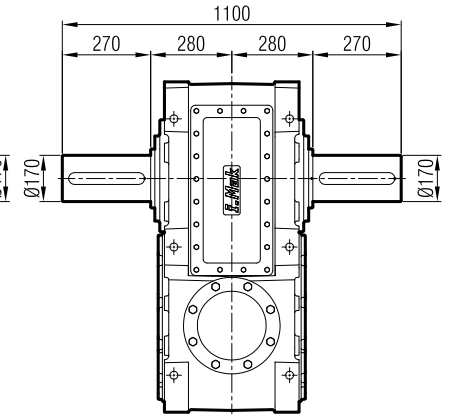
MA / MK 110_
...-SL



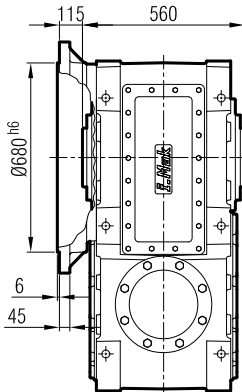
...-SR



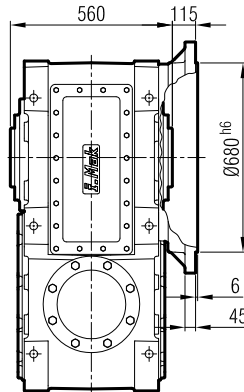
...-SD



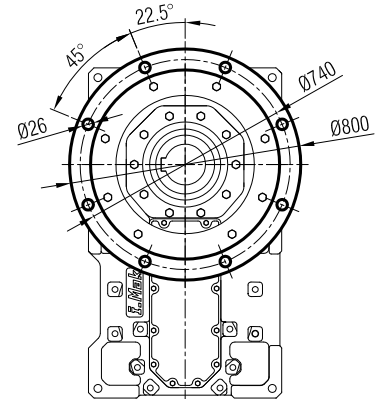
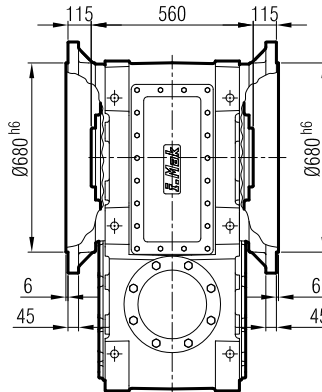
...-FL



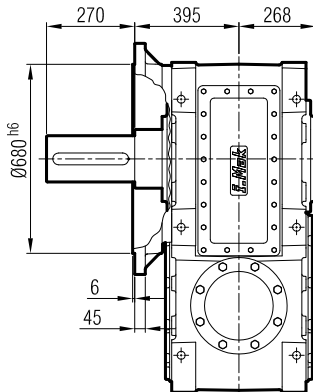
...-FR



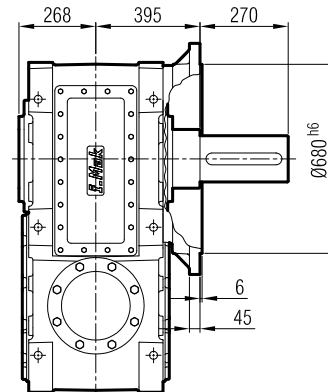
...-FD



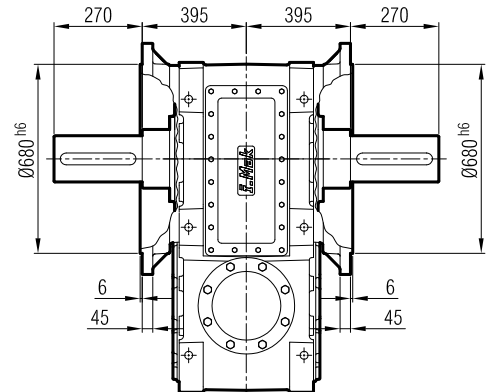
...-FL-SL



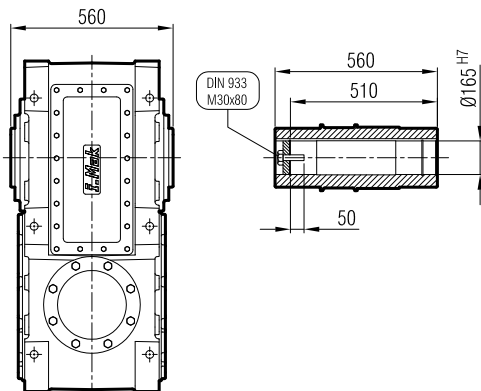
...-FR-SR



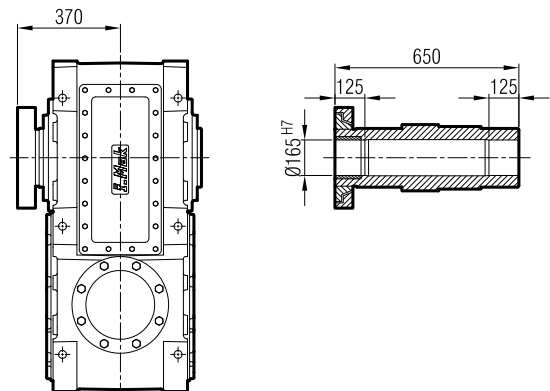
...-FD-SD



...-H

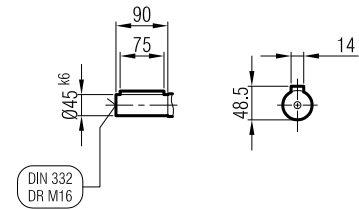
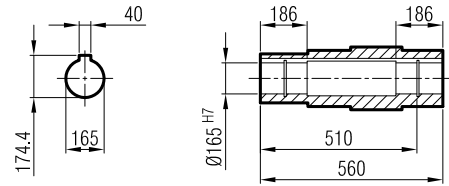
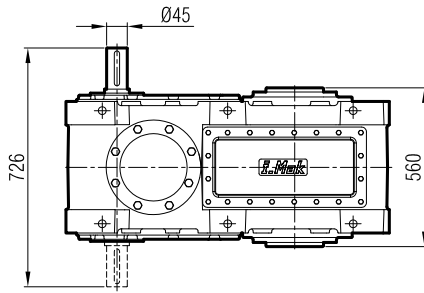
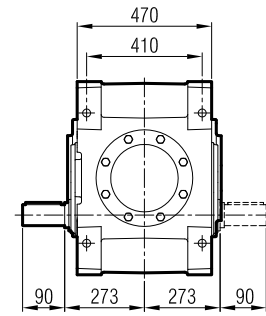
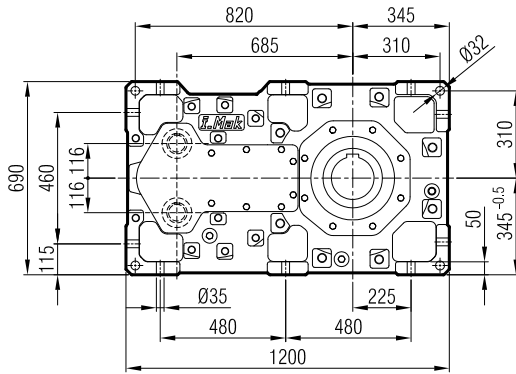


...-SDL / SDR

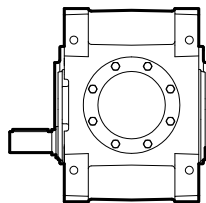




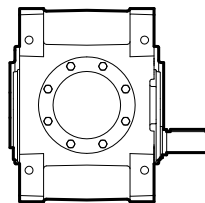
MA 1104



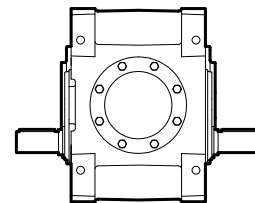
Giriş Seçenekleri / Input Options / Option d'entree



G00



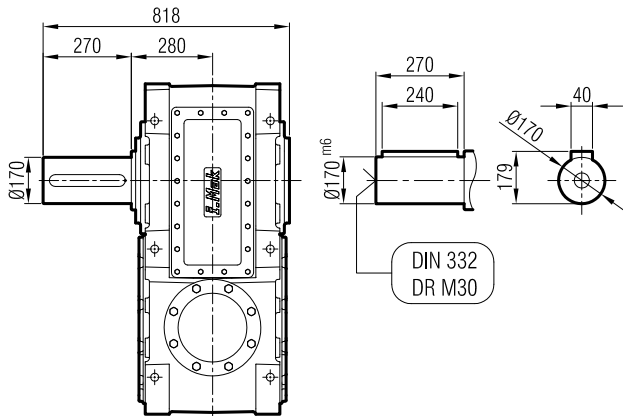
G01



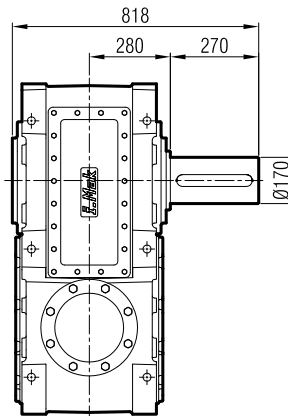
G02



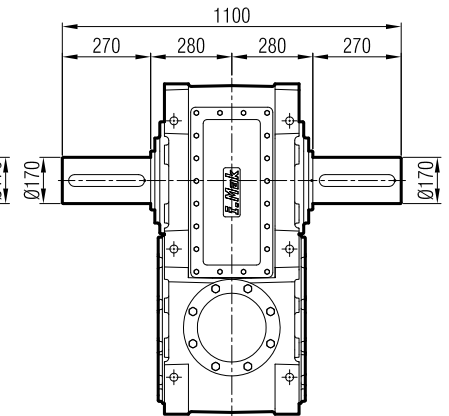
**MA / MK 110_
...-SL**



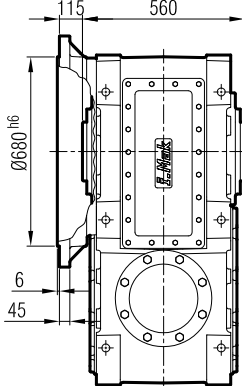
...-SR



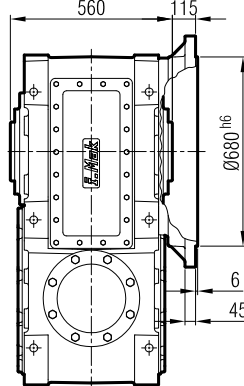
...-SD



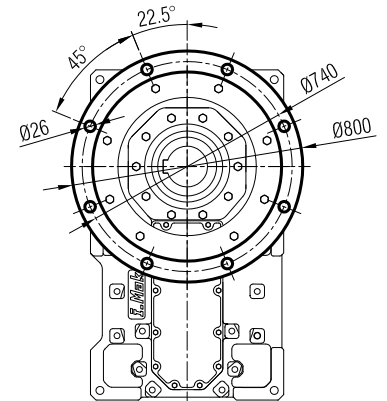
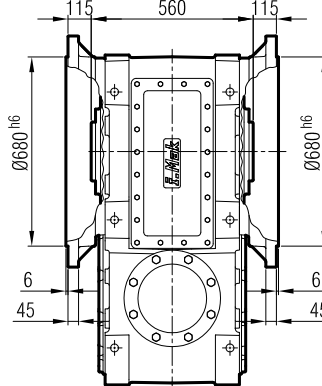
...-FL



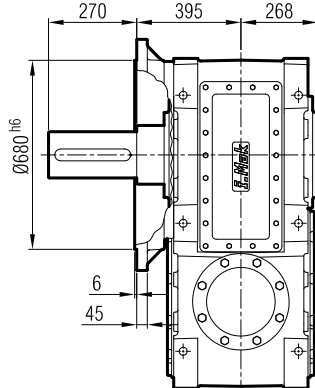
...-FR



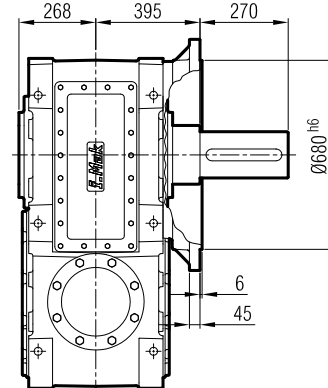
...-FD



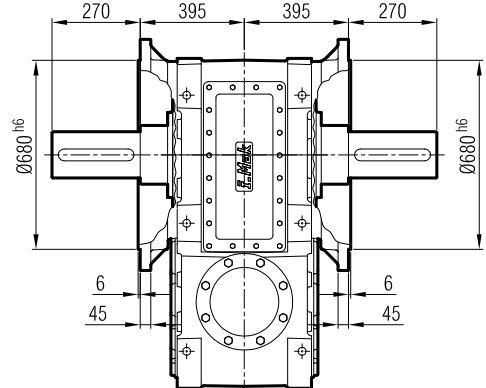
...-FL-SL



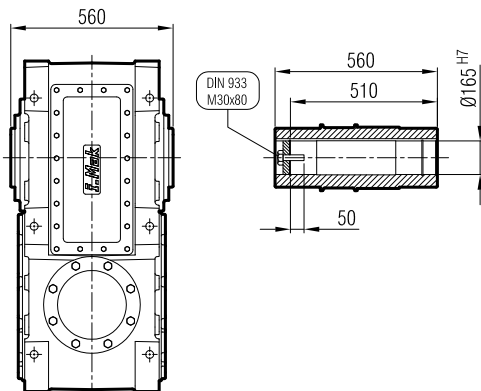
...-FR-SR



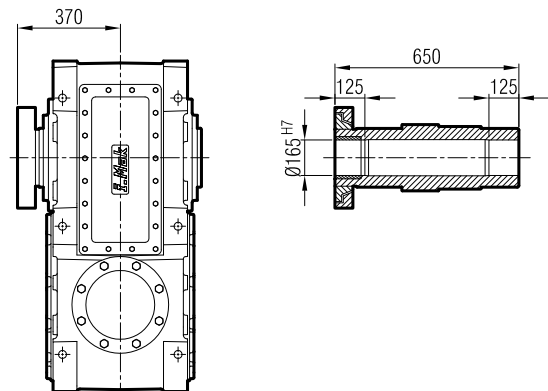
...-FD-SD



...-H

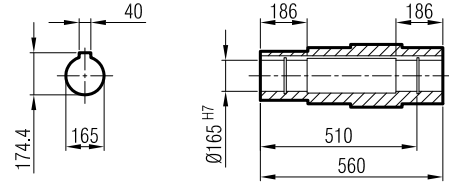
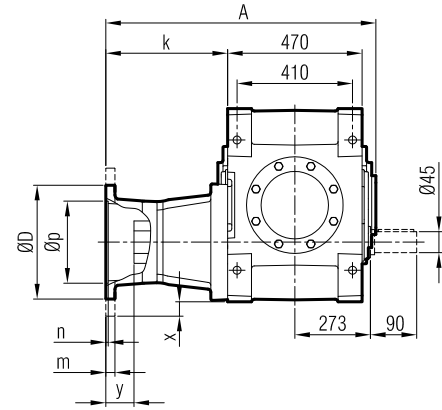
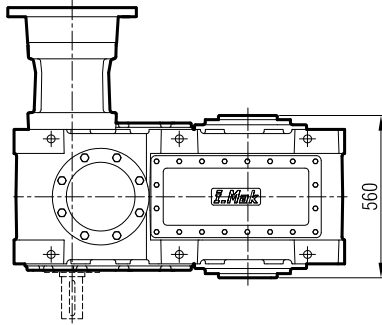
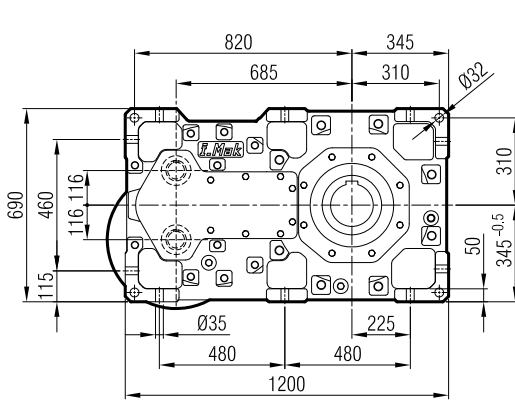


...-SDL / SDR



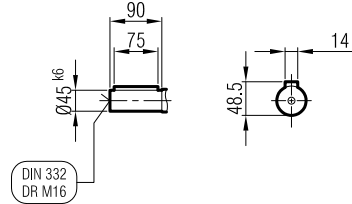
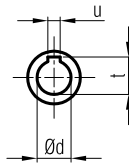
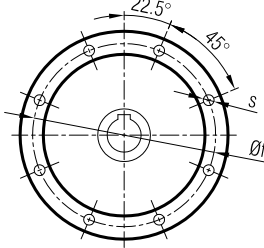
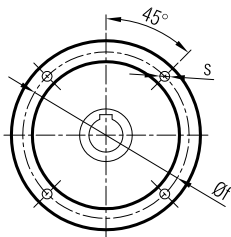


MAP 1104



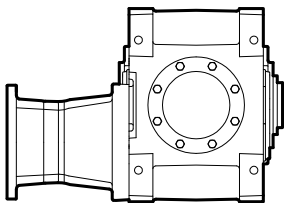
≤ 200 B5 **Tip/Type/Typ**

≥ 225 B5 **Tip/Type/Typ**

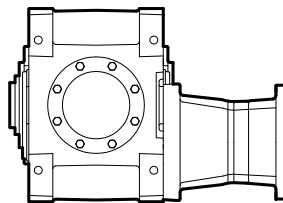


	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
132/B5	739	230	265	300	M12	224	15	5	38	41.3	10	-	35
160/B5	739	250	300	350	M14	243	20	6	42	45.3	12	-	48
180/B5	758	250	300	350	M14	243	20	6	48	51.8	14	-	48
200/B5	758	300	350	400	M16	243	22	6	55	59.3	16	-	48
225/B5	801	350	400	450	M16	286	22	6	60	64.4	18	-	80
250/B5	801	450	500	550	M16	286	25	6.5	65	69.4	18	46	75

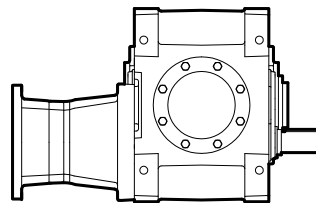
Giriş Seçenekleri / Input Options / Option d'entree



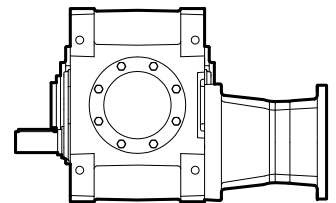
G03



G04



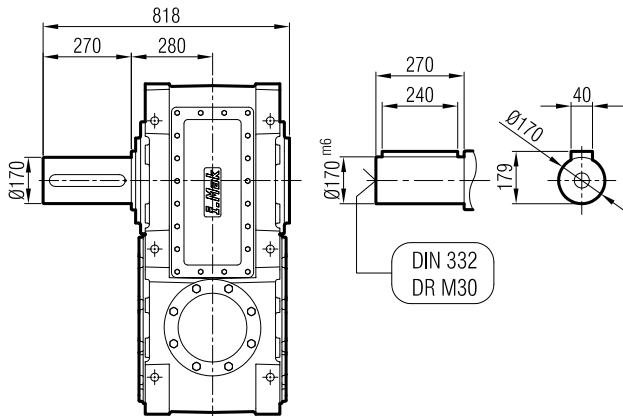
G05



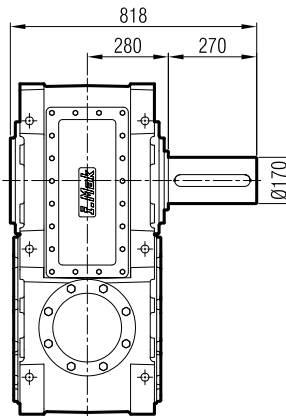
G06



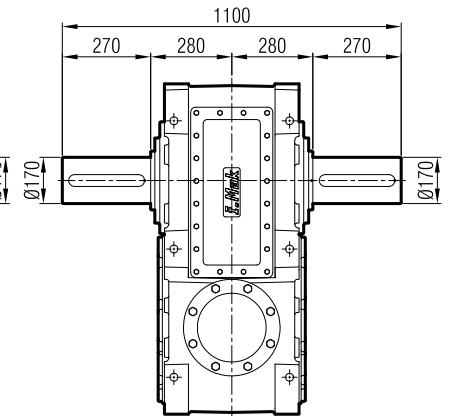
MA / MK 110_
...-SL



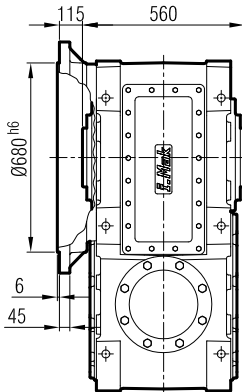
...-SR



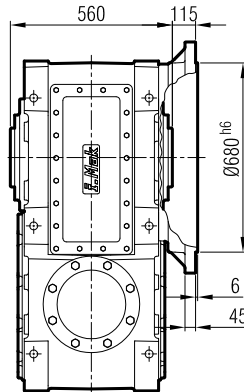
...-SD



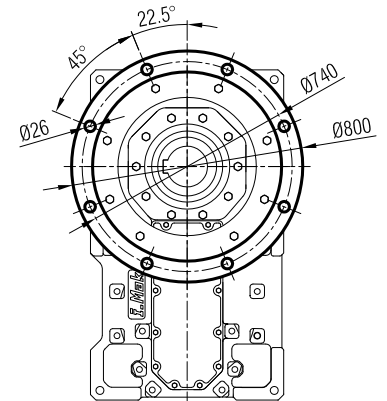
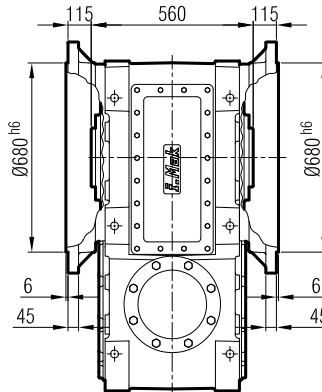
...-FL



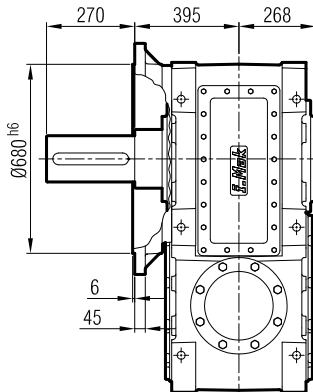
...-FR



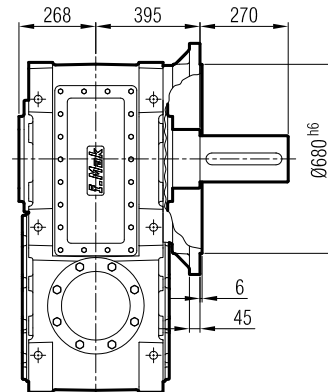
...-FD



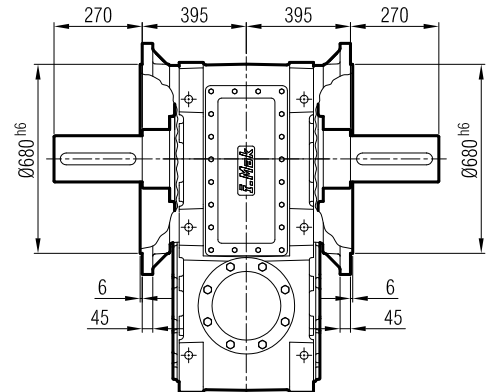
...-FL-SL



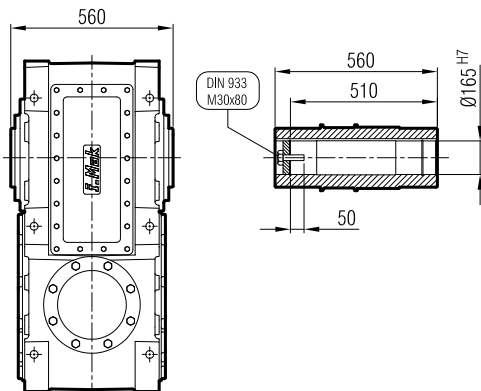
...-FR-SR



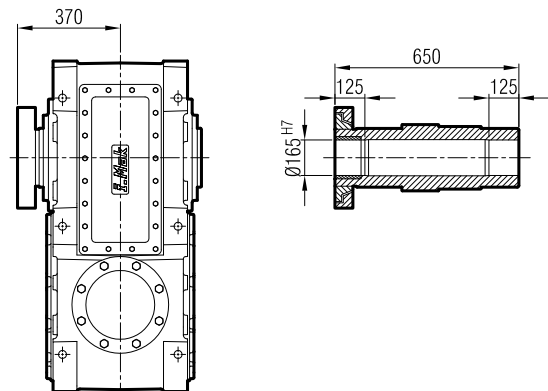
...-FD-SD



...-H

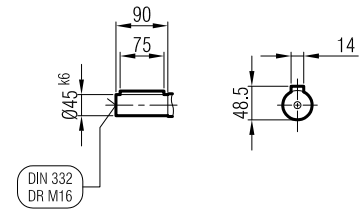
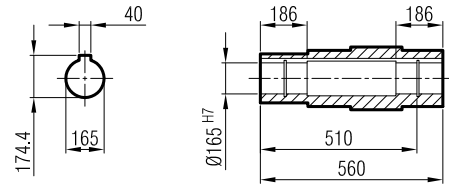
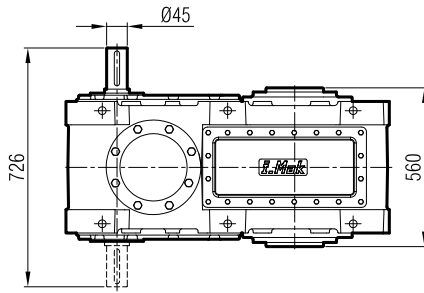
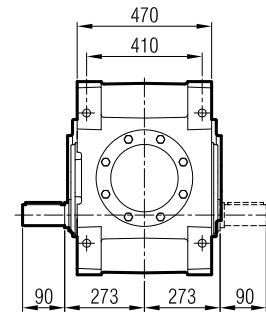
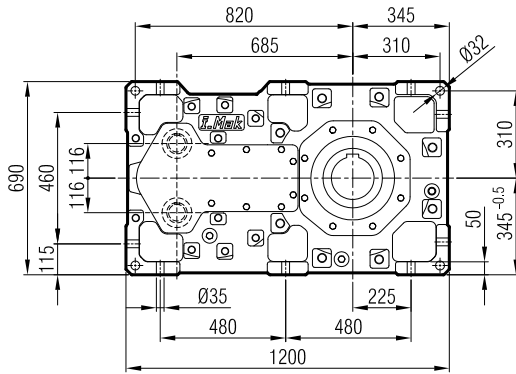


...-SDL / SDR

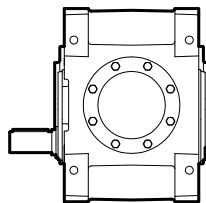




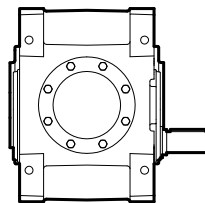
MA 1104



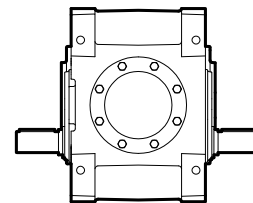
Giriş Seçenekleri / Input Options / Option d'entree



G00



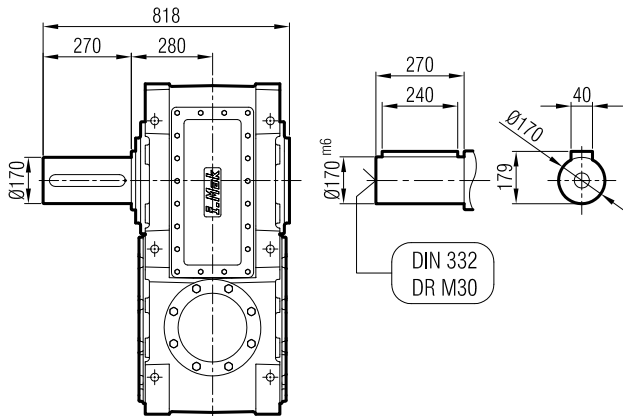
G01



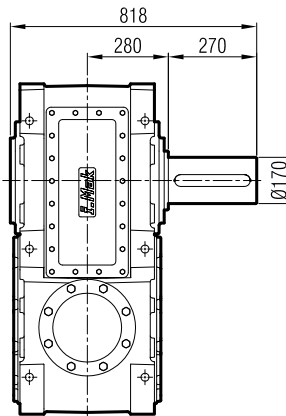
G02



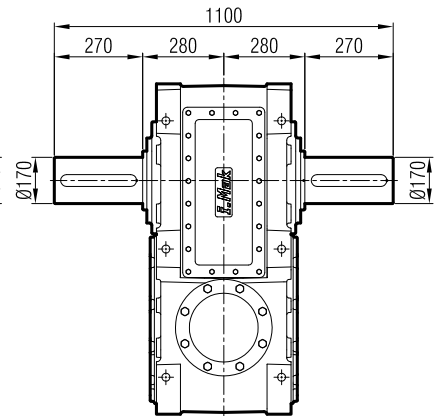
**MA / MK 110_
...-SL**



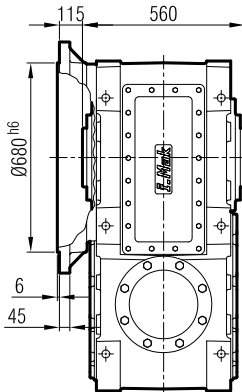
...-SR



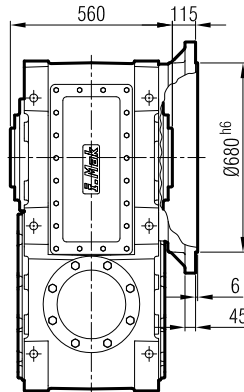
...-SD



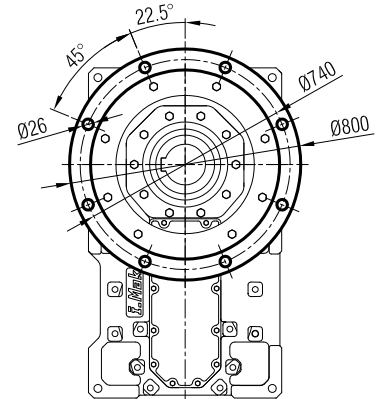
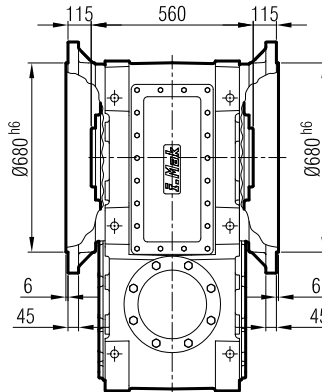
...-FL



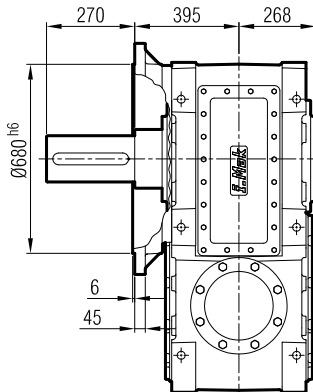
...-FR



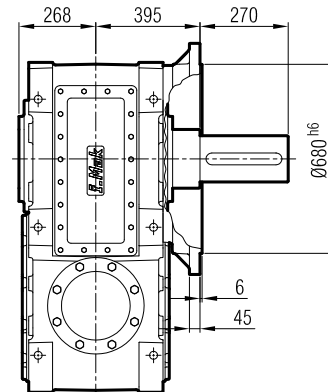
...-FD



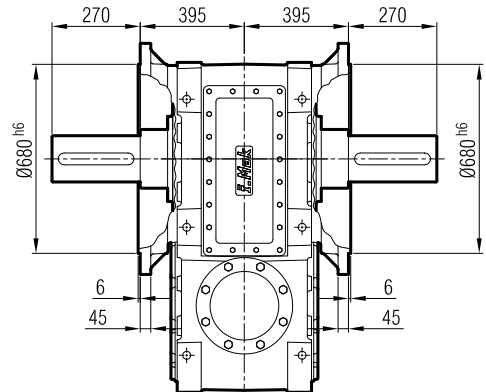
...-FL-SL



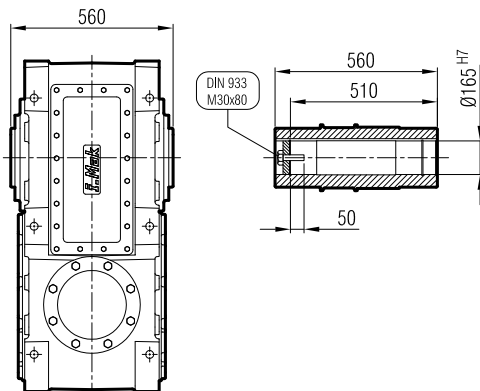
...-FR-SR



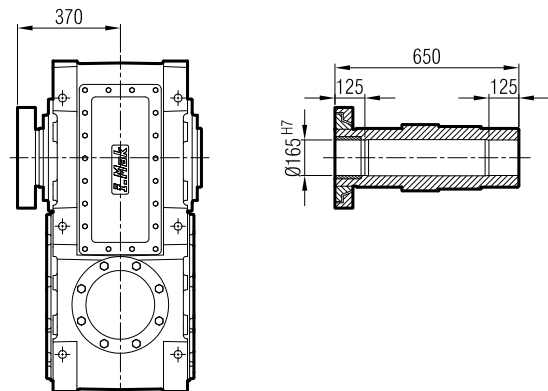
...-FD-SD



...-H



...-SDL / SDR



MK Serisi Motorlu Redüktörler Güç ve Devir Tabloları

MK Series - Performances Tables
Series MK - Table de performances



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	4,6	303	4,30	1459	55000	MKM	404 / 80 M 4b	253 258	311
	4,6	303	2,90	2140	55000	MKM	404 / 90 S 4a	253 258	312
	5,2	270	3,30	1907	55000				
	5,8	243	3,70	1716	55000				
1,1 1,5	6,4	219	4,10	1547	55000				
	3,6	386	3,30	3716	100000	MKM	604 / 90 L 4a	289 294	467
	4,7	295	3,80	2845	85000	MKM	504 / 90 L 4a	271 276	459
	4,6	303	2,20	2918	55000	MKM	404 / 90 L 4a	253 258	319
1,5 2	5,2	270	2,40	2601	55000				
	5,8	243	2,70	2341	55000				
	6,4	219	3,00	2109	55000				
2,2 3	6,8	207	3,10	1994	55000				
	7,5	187	3,50	1801	55000				
	8,3	168	3,90	1618	55000				
	2,7	511	3,40	7219	235000	MKM	804 / 100 L 4a	325 330	748
2,2 3	3,1	459	3,70	6484	235000	MKM	704 / 100 L 4a	307 312	662
	3,1	451	3,00	6371	180000				
	3,5	402	3,40	5679	180000				
	3,9	363	3,70	5128	180000				
2,2 3	3,6	385	2,20	5439	100000	MKM	604 / 100 L 4a	289 294	476
	4,5	314	2,50	4436	100000				
	5,6	248	3,30	3503	100000				
	6,4	218	4,00	3080	100000				
2,2 3	4,7	295	2,60	4167	85000	MKM	504 / 100 L 4a	271 276	468
	5,4	259	3,00	3659	85000				
	6,1	229	3,40	3235	85000				
	6,9	204	3,80	2882	85000				
2,2 3	4,6	303	1,46	4280	55000	MKM	404 / 100 L 4a	253 258	329
	5,2	270	1,64	3814	55000				
	5,8	243	1,84	3433	55000				
	6,4	219	2,00	3094	55000				
2,2 3	6,8	207	2,10	2924	55000				
	7,5	187	2,40	2642	55000				
	8,3	168	2,70	2373	55000				
	9,2	152	3,00	2147	55000				
2,2 3	9,7	144	3,00	2034	55000	MKM	403 / 100 L 4a	241 252	329
	11	129	3,30	1822	55000				
	12	116	3,70	1639	55000				
	12	115	3,80	1649	55000				
2,2 3	14	102	4,30	1463	55000	MKM	804 / 100 L 4b	325 330	752
	2,7	511	2,50	9844	235000				
	3,1	459	2,70	8842	235000				
	3,4	415	3,00	7994	235000				
3 4	3,7	376	3,30	7243	235000	MKM	704 / 100 L 4b	307 312	666
	4,0	348	3,60	6704	235000				
	3,1	451	2,20	8688	180000				
	3,5	402	2,50	7744	180000				
3 4	3,9	363	2,70	6993	180000	MKM	604 / 100 L 4b	289 294	480
	4,3	324	3,10	6241	180000				
	4,8	291	3,40	5606	180000				
	3,6	385	1,67	7417	100000				
3 4	4,5	314	1,89	6049	100000	MKM	604 / 100 L 4b	289 294	480
	5,6	248	2,40	4777	100000				
	6,4	218	2,90	4200	100000				
	6,7	208	3,50	4007	100000				



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	4,7	295	1,92	5683	85000	MKM	504 / 100 L 4b	271 276	472
	5,4	259	2,20	4989	85000				
	6,1	229	2,50	4411	85000				
	6,9	204	2,80	3930	85000				
	8,2	171	3,20	3294	85000				
	9,3	151	3,60	2909	85000				
	5,2	270	1,20	5201	55000	MKM	404 / 100 L 4b	253 258	333
	5,8	243	1,35	4681	55000				
	6,4	219	1,50	4219	55000				
	6,8	207	1,53	3988	55000				
	7,5	187	1,75	3602	55000				
	8,3	168	1,94	3236	55000				
	9,2	152	2,20	2928	55000	MKM	403 / 100 L 4b	241 252	333
	9,7	144	2,20	2774	55000				
	11	129	2,50	2485	55000				
	12	116	2,70	2235	55000				
	12	115	2,80	2249	55000				
	14	102	3,20	1995	55000				
4 5,5	17	80,98	3,60	1584	55000	MKM	1004 / 112 M 4a	361 366	1157
	17	81,71	4,00	1598	55000				
	2,8	504	2,90	12945	270000	MKM	904 / 112 M 4a	343 348	957
	3,2	444	3,30	11404	270000				
	3,4	413	3,50	10608	270000				
	3,6	394	3,60	10120	270000				
	4,6	306	3,40	7860	170000	MKM	804 / 112 M 4a	325 330	758
	5,2	267	3,90	6858	170000				
	2,7	511	1,88	13125	235000	MKM	704 / 112 M 4a	307 312	672
	3,1	459	2,00	11789	235000				
	3,4	415	2,30	10659	235000				
	3,7	376	2,50	9658	235000				
	4,0	348	2,70	8938	235000				
	4,6	306	3,10	7860	235000	MKM	604 / 112 M 4a	289 294	486
	5,3	264	3,40	6781	235000				
	5,9	237	3,80	6087	235000				
	3,1	451	1,65	11584	180000	MKM	603 / 112 M 4a	277 288	486
	3,5	402	1,87	10325	180000				
	3,9	363	2,00	9324	180000				
	4,3	324	2,30	8322	180000				
	4,8	291	2,60	7474	180000				
	5,3	263	2,80	6755	180000	MKM	504 / 112 M 4a	271 276	478
	6,0	234	3,30	6010	180000				
	6,6	211	3,70	5420	180000				
	3,6	385	1,25	9889	100000				
	4,5	314	1,42	8065	100000				
	5,6	248	1,80	6370	100000				
	6,4	218	2,00	5599	100000				
	6,7	208	2,60	5342	100000	MKM	504 / 112 M 4a	271 276	478
	8,7	161	3,30	4135	100000				
	10,0	140	3,60	3596	100000				
	11	123	4,10	3159	100000				
	13	105	4,30	2738	100000				
	4,7	295	1,44	7577	85000	MKM	504 / 112 M 4a	271 276	478
	5,4	259	1,65	6652	85000				
	6,1	229	1,88	5882	85000				
	6,9	204	2,10	5240	85000				
	8,2	171	2,40	4392	85000				
	9,3	151	2,70	3878	85000				
	10	135	3,10	3467	85000				
	12	119	3,50	3057	85000				



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	14	101	4,10	2634	85000	MKM	503 / 112 M 4a	259 270	478
	6,4	219	1,13	5625	55000	MKM	404 / 112 M 4a	253 258	339
	6,8	207	1,14	5317	55000				
	7,5	187	1,31	4803	55000				
	8,3	168	1,45	4315	55000				
	9,2	152	1,62	3904	55000				
	9,7	144	1,65	3699	55000				
	11	129	1,84	3313	55000	MKM	403 / 112 M 4a	241 252	339
	12	116	2,00	2979	55000				
	12	115	2,10	2999	55000				
	14	102	2,40	2660	55000				
	17	80,98	2,70	2112	55000				
	17	81,71	3,00	2131	55000				
	19	73,81	3,30	1925	55000				
	22	63,67	3,70	1660	55000				
	24	57,51	4,10	1500	55000	MKM	1004 / 132 S 4a	361 366	1174
5,5 7,5	2,8	504	2,10	17800	270000				
	3,2	444	2,40	15681	270000				
	3,4	413	2,50	14586	270000				
	3,6	394	2,60	13915	270000				
	4,0	347	3,00	12255	270000				
	4,3	323	3,20	11407	270000				
	4,9	284	3,60	10030	270000				
	5,2	271	3,90	9571	270000				
	4,6	306	2,50	10807	170000	MKM	904 / 132 S 4a	343 348	974
	5,2	267	2,90	9430	170000				
	6,0	235	3,30	8299	170000				
	6,3	222	3,40	7840	170000				
	7,2	195	3,90	6887	170000				
	2,7	511	1,36	18047	235000	MKM	804 / 132 S 4a	325 330	775
	3,1	459	1,47	16210	235000				
	3,4	415	1,64	14657	235000				
	3,7	376	1,80	13279	235000				
	4,0	348	1,96	12290	235000				
	4,6	306	2,20	10807	235000				
	5,3	264	2,50	9324	235000				
	5,9	237	2,70	8370	235000				
	6,5	214	3,10	7558	235000				
	7,3	191	3,40	6746	235000				
	8,1	173	3,80	6110	235000				
	3,1	451	1,20	15928	180000	MKM	704 / 132 S 4a	307 312	689
	3,5	402	1,36	14197	180000				
	3,9	363	1,48	12820	180000				
	4,3	324	1,68	11443	180000				
	4,8	291	1,88	10277	180000				
	5,3	263	2,10	9288	180000				
	6,0	234	2,40	8264	180000				
	6,6	211	2,70	7452	180000				
	7,4	190	2,90	6710	180000				
	8,2	171	3,30	6039	180000				
	9,2	152	3,60	5368	180000				
	10	138	4,00	4874	180000				
	4,5	314	1,03	11090	100000	MKM	604 / 132 S 4a	289 294	501
	5,6	248	1,31	8759	100000				
	6,4	218	1,60	7699	100000				
	6,7	208	1,89	7346	100000				
	8,7	161	2,40	5686	100000				



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	10,0	140	2,60	4944	100000	MKM	604 / 132 S 4a	289 294	501
	11	123	3,00	4344	100000				
	13	111	3,30	3920	100000				
	14	98,14	3,80	3466	100000				
	15	93,07	4,10	3287	100000				
	13	105	3,10	3765	100000	MKM	603 / 132 S 4a	277 288	503
	15	94,03	3,50	3371	100000				
	16	88,64	4,40	3178	100000				
	5,4	259	1,21	9147	85000	MKM	504 / 132 S 4a	271 276	493
	6,1	229	1,36	8088	85000				
	6,9	204	1,53	7205	85000				
	8,2	171	1,75	6039	85000				
	9,3	151	1,96	5333	85000				
	10	135	2,20	4768	85000				
	12	119	2,60	4203	85000				
	13	105	2,90	3708	85000				
	15	93,84	3,20	3314	85000	MKM	503 / 132 S 4a	259 270	495
	17	82,77	3,60	2923	85000				
	14	101	3,00	3621	85000				
	9,2	152	1,18	5368	55000	MKM	404 / 132 S 4a	253 258	354
	12	116	1,48	4097	55000				
	12	115	1,53	4123	55000	MKM	403 / 132 S 4a	241 252	354
	14	102	1,75	3657	55000				
	17	80,98	1,96	2904	55000				
	17	81,71	2,20	2930	55000				
	19	73,81	2,40	2646	55000				
	22	63,67	2,70	2283	55000				
	24	57,51	3,00	2062	55000				
	29	48,86	3,40	1752	55000				
	32	44,14	3,80	1583	55000				
	35	40,07	4,20	1437	55000				
7,5 10	2,8	504	1,56	24272	270000	MKM	1004 / 132 M 4a	361 366	1182
	3,2	444	1,76	21383	270000				
	3,4	413	1,88	19890	270000				
	3,6	394	1,92	18975	270000				
	4,0	347	2,20	16711	270000				
	4,3	323	2,30	15556	270000				
	4,9	284	2,60	13677	270000				
	5,2	271	2,80	13051	270000				
	5,9	239	3,20	11510	270000				
	7,1	197	3,90	9487	270000				
	4,6	306	1,83	14737	170000	MKM	904 / 132 M 4a	343 348	982
	5,2	267	2,10	12859	170000				
	6,0	235	2,40	11317	170000				
	6,3	222	2,50	10691	170000				
	7,2	195	2,90	9391	170000				
	7,6	185	3,10	8909	170000				
	8,6	163	3,50	7850	170000				
	3,1	459	1,08	22105	235000	MKM	804 / 132 M 4a	325 330	783
	3,4	415	1,20	19986	235000				
	3,7	376	1,32	18108	235000				
	4,0	348	1,44	16759	235000				
	4,6	306	1,64	14737	235000				
	5,3	264	1,80	12714	235000				



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 10	5,9	237	2,00	11414	235000	MKM	804 / 132 M 4a	325 330	783
	6,5	214	2,20	10306	235000				
	7,3	191	2,50	9198	235000				
	8,1	173	2,80	8332	235000				
	9,3	151	3,10	7272	235000				
	10	136	3,50	6550	235000				
	4,3	324	1,23	15604	180000	MKM	704 / 132 M 4a	307 312	697
	4,8	291	1,38	14014	180000				
	5,3	263	1,52	12666	180000				
	6,0	234	1,76	11269	180000				
	6,6	211	1,96	10162	180000				
	7,4	190	2,10	9150	180000				
	8,2	171	2,40	8235	180000				
	9,2	152	2,70	7320	180000				
	10	138	2,90	6646	180000				
	11	123	3,30	5924	180000				
	13	111	3,60	5346	180000				
	6,4	218	1,17	10499	100000	MKM	604 / 132 M 4a	289 294	509
	6,7	208	1,39	10017	100000				
	8,7	161	1,76	7754	100000				
	10,0	140	1,92	6742	100000				
	11	123	2,20	5924	100000				
	13	111	2,50	5346	100000				
	14	98,14	2,80	4726	100000				
	15	93,07	3,00	4482	100000				
	17	82,91	3,20	3993	100000				
	19	73,37	3,60	3533	100000				
	21	65,36	4,10	3148	100000				
	13	105	2,30	5134	100000	MKM	603 / 132 M 4a	277 288	511
	15	94,03	2,50	4597	100000				
	16	88,64	3,30	4334	100000				
	18	78,71	3,70	3848	100000				
	20	71,37	4,00	3489	100000	MKM	504 / 132 M 4a	271 276	501
	6,9	204	1,12	9825	85000				
	8,2	171	1,28	8235	85000				
	9,3	151	1,44	7272	85000				
	10	135	1,64	6502	85000				
	12	119	1,88	5731	85000				
	13	105	2,10	5057	85000				
	15	93,84	2,40	4519	85000				
	17	82,77	2,70	3986	85000	MKM	503 / 132 M 4a	259 270	503
	14	101	2,20	4938	85000				
	16	88,24	2,60	4314	85000				
	18	77,76	2,90	3802	85000				
	21	67,00	3,30	3276	85000				
	24	59,40	3,70	2904	85000				
	27	51,80	4,30	2533	85000				
	12	115	1,12	5623	55000	MKM	403 / 132 M 4a	241 252	362
	14	102	1,28	4987	55000				
	17	80,98	1,44	3959	55000				
	17	81,71	1,60	3995	55000				
	19	73,81	1,76	3609	55000				
	22	63,67	1,96	3113	55000				
	24	57,51	2,20	2812	55000				
	29	48,86	2,50	2389	55000				
	32	44,14	2,80	2158	55000				
	35	40,07	3,10	1959	55000				
	40	34,88	3,30	1705	55000				
	44	31,51	3,60	1541	55000				
	49	28,60	4,00	1398	55000				



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	4,3	329	2,10	23239	330000	MKM	1104 / 160 M 4a	379 384	1625
	4,8	292	2,40	20625	330000				
	5,4	261	2,70	18435	330000				
	6,0	235	3,30	16599	330000				
	6,7	210	3,70	14833	330000				
	2,8	504	1,06	35599	270000	MKM	1004 / 160 M 4a	361 366	1256
	3,2	444	1,20	31361	270000				
	3,4	413	1,28	29172	270000				
	3,6	394	1,31	27830	270000				
	4,0	347	1,50	24510	270000				
	4,3	323	1,60	22815	270000				
	4,9	284	1,80	20060	270000				
	5,2	271	1,95	19142	270000				
	5,9	239	2,20	16881	270000				
	7,1	197	2,60	13915	270000				
	8,0	175	3,00	12361	270000				
	8,8	160	3,20	11301	270000				
	9,9	142	3,60	10030	270000				
	10	135	3,80	9536	270000				
	4,6	306	1,25	21614	170000	MKM	904 / 160 M 4a	343 348	1056
	5,2	267	1,45	18859	170000				
	6,0	235	1,65	16599	170000				
	6,3	222	1,70	15681	170000				
	7,2	195	1,95	13774	170000				
	7,6	185	2,10	13067	170000				
	8,6	163	2,40	11513	170000				
	10,0	140	2,80	9889	170000				
	11	124	3,10	8759	170000				
	13	110	3,50	7770	170000				
	4,6	306	1,12	21614	235000	MKM	804 / 160 M 4a	325 330	856
	5,3	264	1,22	18647	235000				
	5,9	237	1,36	16740	235000				
	6,5	214	1,53	15116	235000				
	7,3	191	1,70	13491	235000				
	8,1	173	1,90	12220	235000				
	9,3	151	2,20	10666	235000				
	10	136	2,40	9606	235000				
	11	123	2,70	8688	235000				
	13	111	2,90	7840	235000				
	14	100	3,20	7063	235000				
	16	88,15	3,70	6226	235000				
	6,6	211	1,33	14904	180000	MKM	704 / 160 M 4a	307 312	770
	8,2	171	1,64	12078	180000				
	9,2	152	1,82	10736	180000				
	10	138	2,00	9747	180000				
	11	123	2,20	8688	180000				
	13	111	2,50	7840	180000				
	14	100	2,70	7063	180000				
	16	89,06	3,10	6291	180000				
	17	80,84	3,40	5710	180000				
	19	72,28	3,80	5105	180000				
	22	64,98	4,20	4590	180000				
	8,7	161	1,20	11372	100000	MKM	604 / 160 M 4a	289 294	582
	10,0	140	1,31	9889	100000				
	11	123	1,49	8688	100000				
	13	111	1,67	7840	100000				
	14	98,14	1,89	6932	100000				



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	15	93,07	2,10	6574	100000	MKM	604 / 160 M 4a	289 294	582
	17	82,91	2,20	5856	100000				
	19	73,37	2,50	5182	100000				
	21	65,36	2,80	4617	100000				
	13	105	1,54	7529	100000	MKM	603 / 160 M 4a	277 288	585
	15	94,03	1,73	6743	100000				
	16	88,64	2,20	6356	100000				
	18	78,71	2,50	5644	100000				
	20	71,37	2,70	5118	100000				
	22	63,38	3,10	4545	100000				
	25	56,66	3,40	4063	100000				
	27	51,52	3,70	3694	100000				
	12	119	1,28	8405	85000	MKM	504 / 160 M 4a	271 276	574
	13	105	1,45	7417	85000				
	15	93,84	1,61	6628	85000				
	17	82,77	1,83	5846	85000				
	14	101	1,50	7243	85000	MKM	503 / 160 M 4a	259 270	577
	16	88,24	1,77	6328	85000				
	18	77,76	1,98	5576	85000				
	21	67,00	2,30	4805	85000				
	24	59,40	2,50	4260	85000				
	27	51,80	2,90	3715	85000				
	31	45,65	3,30	3274	85000				
	36	39,33	3,80	2820	85000				
	40	34,66	4,30	2485	85000				
	19	73,81	1,20	5293	55000	MKM	403 / 160 M 4a	241 252	435
	22	63,67	1,33	4566	55000				
	24	57,51	1,50	4124	55000				
	29	48,86	1,70	3504	55000				
	32	44,14	1,90	3165	55000				
	35	40,07	2,10	2873	55000				
	40	34,88	2,30	2501	55000				
	44	31,51	2,50	2260	55000				
	49	28,60	2,70	2051	55000				
	53	26,60	3,20	1907	55000				
	58	24,15	3,50	1732	55000				
	67	21,02	3,80	1507	55000				
15 20	4,3	329	1,57	31689	330000	MKM	1104 / 160 L 4a	379 384	1652
	4,8	292	1,76	28125	330000				
	5,4	261	1,98	25139	330000				
	6,0	235	2,20	22635	330000				
	6,7	210	2,50	20227	330000				
	7,4	189	2,70	18204	330000				
	8,2	171	3,00	16471	330000				
	9,2	153	3,20	14737	330000				
	10	138	3,70	13292	330000	MKM	1004 / 160 L 4a	361 366	1283
	4,0	347	1,10	33423	270000				
	4,3	323	1,17	31111	270000				
	4,9	284	1,32	27355	270000				
	5,2	271	1,43	26102	270000				
	5,9	239	1,60	23020	270000				
	7,1	197	1,95	18975	270000				
	8,0	175	2,20	16856	270000				
	8,8	160	2,30	15411	270000				
	9,9	142	2,60	13677	270000				
	10	135	2,80	13003	270000				
	12	119	3,10	11462	270000				
	14	99,85	3,60	9617	270000				



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
15 20	5,2	267	1,06	25717	170000	MKM	904 / 160 L 4a	343 348	1083
	6,0	235	1,21	22635	170000				
	6,3	222	1,25	21383	170000				
	7,2	195	1,43	18782	170000				
	7,6	185	1,54	17819	170000				
	8,6	163	1,76	15700	170000				
	10,0	140	2,00	13485	170000				
	11	124	2,30	11944	170000				
	13	110	2,60	10595	170000				
	14	103	2,90	9921	170000				
	15	91,66	3,30	8829	170000				
	17	81,79	3,70	7878	170000				
	6,5	214	1,12	20612	235000	MKM	804 / 160 L 4a	325 330	883
	7,3	191	1,25	18397	235000				
	8,1	173	1,39	16663	235000				
	9,3	151	1,58	14544	235000				
	10	136	1,76	13099	235000				
	11	123	1,94	11847	235000				
	13	111	2,10	10691	235000				
	14	100	2,30	9632	235000				
	16	88,15	2,70	8491	235000				
	18	79,63	3,00	7670	235000				
	19	72,28	3,30	6962	235000				
	18	76,43	3,30	7474	235000	MKM	803 / 160 L 4a	313 324	890
	22	62,40	4,00	6102	235000				
	11	123	1,63	11847	180000	MKM	704 / 160 L 4a	307 312	797
	13	111	1,81	10691	180000				
	14	100	2,00	9632	180000				
	16	89,06	2,20	8578	180000				
	17	80,84	2,50	7786	180000				
	19	72,28	2,80	6962	180000				
	22	64,98	3,10	6259	180000				
	23	60,08	3,30	5787	180000				
	23	60,16	3,30	5883	180000				
	26	53,42	3,70	5224	180000	MKM	703 / 160 L 4a	295 306	804
	29	47,76	4,20	4670	180000				
	13	111	1,23	10691	100000	MKM	604 / 160 L 4a	289 294	609
	14	98,14	1,39	9453	100000				
	15	93,07	1,52	8964	100000				
	17	82,91	1,60	7986	100000				
	19	73,37	1,81	7067	100000				
	21	65,36	2,00	6295	100000				
	13	105	1,13	10267	100000				
	15	94,03	1,27	9195	100000				
	16	88,64	1,63	8668	100000				
	18	78,71	1,83	7697	100000				
	20	71,37	2,00	6979	100000	MKM	603 / 160 L 4a	277 288	612
	22	63,38	2,30	6198	100000				
	25	56,66	2,50	5541	100000				
	27	51,52	2,70	5038	100000				
	33	41,90	3,30	4097	100000				
	38	37,21	3,80	3639	100000				
	15	93,84	1,18	9039	85000	MKM	504 / 160 L 4a	271 276	601
	17	82,77	1,34	7972	85000				
	16	88,24	1,30	8629	85000	MKM	503 / 160 L 4a	259 270	604
	18	77,76	1,45	7604	85000				
	21	67,00	1,65	6552	85000				
	24	59,40	1,85	5808	85000				
	27	51,80	2,20	5065	85000				



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
15 20	31	45,65	2,50	4464	85000	MKM	503 / 160 L 4a	259 270	604
	36	39,33	2,80	3846	85000				
	40	34,66	3,20	3389	85000				
	44	31,68	3,60	3098	85000				
	51	27,27	4,00	2667	85000				
	24	57,51	1,10	5624	55000				
	29	48,86	1,25	4778	55000	MKM	403 / 160 L 4a	241 252	462
	32	44,14	1,39	4316	55000				
	35	40,07	1,54	3918	55000				
	40	34,88	1,65	3411	55000				
	44	31,51	1,80	3081	55000				
	49	28,60	1,98	2797	55000				
	53	26,60	2,40	2601	55000				
	58	24,15	2,60	2362	55000				
	67	21,02	2,80	2055	55000				
	74	18,99	3,10	1857	55000				
	81	17,24	3,40	1686	55000				
	90	15,57	3,70	1523	55000				
18,5 25	4,3	329	1,27	39083	330000	MKM	1104 / 180 M 4a	379 384	1695
	4,8	292	1,43	34688	330000				
	5,4	261	1,61	31005	330000				
	6,0	235	1,78	27916	330000				
	6,7	210	1,99	24947	330000				
	7,4	189	2,20	22452	330000				
	8,2	171	2,40	20314	330000				
	9,2	153	2,70	18175	330000				
	10	138	3,00	16393	330000				
	11	125	3,20	14849	330000				
	12	115	3,50	13661	330000				
	4,9	284	1,07	33737	270000	MKM	1004 / 180 M 4a	361 366	1326
	5,2	271	1,16	32193	270000				
	5,9	239	1,30	28392	270000				
	7,1	197	1,58	23402	270000				
	8,0	175	1,78	20789	270000				
	8,8	160	1,90	19007	270000				
	9,9	142	2,10	16869	270000				
	10	135	2,20	16037	270000				
	12	119	2,50	14136	270000				
	14	99,85	2,90	11862	270000				
	6,3	222	1,01	26372	170000	MKM	904 / 180 M 4a	343 348	1126
	7,2	195	1,16	23165	170000				
	7,6	185	1,25	21977	170000				
	8,6	163	1,43	19363	170000				
	10,0	140	1,63	16631	170000				
	11	124	1,87	14730	170000	MKM	904 / 180 M 4a	343 348	1126
	13	110	2,10	13067	170000				
	14	103	2,30	12236	170000				
	15	91,66	2,60	10889	170000				
	17	81,79	3,00	9716	170000				
	20	70,72	3,40	8529	170000	MKM	903 / 180 M 4a	331 342	1136
	22	64,17	3,70	7739	170000				
	8,1	173	1,13	20551	235000	MKM	804 / 180 M 4a	325 330	929
	10	136	1,43	16156	235000				
	11	123	1,58	14612	235000				
	13	111	1,72	13186	235000				
	14	100	1,90	11879	235000				
	16	88,15	2,20	10472	235000				
	18	79,63	2,40	9460	235000				
	19	72,28	2,70	8586	235000				



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	18	76,43	2,70	9218	235000	MKM	803 / 180 M 4a	313 324	933
	22	62,40	3,20	7526	235000				
	24	58,03	3,50	6999	235000				
	27	52,11	3,70	6285	235000				
	30	47,38	4,20	5714	235000				
	14	100	1,63	11879	180000	MKM	704 / 180 M 4a	307 312	843
	16	89,06	1,84	10580	180000				
	17	80,84	2,00	9603	180000				
	19	72,28	2,30	8586	180000				
	22	64,98	2,50	7719	180000				
	23	60,08	2,60	7137	180000	MKM	703 / 180 M 4a	295 306	847
	23	60,16	2,70	7255	180000				
	26	53,42	3,00	6443	180000				
	29	47,76	3,40	5760	180000				
	15	93,07	1,23	11056	100000	MKM	604 / 180 M 4a	289 294	655
	19	73,37	1,47	8716	100000				
	21	65,36	1,64	7764	100000				
	22	63,38	1,86	7644	100000				
	25	56,66	2,00	6833	100000	MKM	603 / 180 M 4a	277 288	655
	27	51,52	2,20	6213	100000				
	33	41,90	2,70	5053	100000				
	38	37,21	3,10	4488	100000				
	42	33,27	3,40	4012	100000				
	46	30,25	3,70	3648	100000				
	49	28,31	3,90	3414	100000				
	52	27,04	4,10	3261	100000				
	21	67,00	1,34	8080	85000	MKM	503 / 180 M 4a	259 270	647
	24	59,40	1,50	7164	85000				
	27	51,80	1,74	6247	85000				
	31	45,65	1,99	5505	85000				
	36	39,33	2,20	4743	85000				
	40	34,66	2,60	4180	85000				
	44	31,68	2,90	3821	85000				
	51	27,27	3,20	3289	85000				
	58	24,05	3,70	2900	85000				
	65	21,50	3,90	2593	85000				
	32	44,14	1,13	5323	55000	MKM	403 / 180 M 4a	241 252	507
	35	40,07	1,25	4833	55000				
	44	31,51	1,45	3800	55000				
	49	28,60	1,60	3449	55000				
	53	26,60	1,90	3208	55000				
	58	24,15	2,10	2913	55000				
	67	21,02	2,30	2535	55000				
	74	18,99	2,50	2290	55000				
	81	17,24	2,80	2079	55000				
22 30	4,3	329	1,07	46477	330000	MKM	1104 / 180 L 4a	379 384	1716
	4,8	292	1,20	41250	330000				
	5,4	261	1,35	36871	330000				
	6,0	235	1,50	33198	330000				
	6,7	210	1,68	29666	330000				
	7,4	189	1,87	26700	330000				
	8,2	171	2,00	24157	330000				
	9,2	153	2,30	21614	330000				
	10	138	2,50	19495	330000				
	11	125	2,70	17658	330000				
	12	115	3,00	16246	330000				
	13	104	3,20	14692	330000				
	15	93,85	3,50	13258	330000				



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
22 30	5,9	239	1,09	33763	270000	MKM	1004 / 180 L 4a	361 366	1347
	7,1	197	1,33	27830	270000				
	8,0	175	1,50	24722	270000				
	8,8	160	1,60	22603	270000				
	9,9	142	1,80	20060	270000				
	10	135	1,90	19071	270000				
	12	119	2,10	16811	270000				
	14	99,85	2,50	14106	270000	MKM	1003 / 180 L 4a	349 360	1357
	14	100	2,60	14342	270000				
	17	82,78	3,10	11872	270000				
	20	69,46	3,70	9962	270000				
	7,6	185	1,05	26135	170000	MKM	904 / 180 L 4a	343 348	1147
	8,6	163	1,20	23027	170000				
	10,0	140	1,38	19777	170000				
	11	124	1,57	17517	170000				
	13	110	1,77	15539	170000				
	14	103	2,00	14551	170000				
	15	91,66	2,20	12949	170000	MKM	903 / 180 L 4a	331 342	1157
	17	81,79	2,50	11554	170000				
	20	70,72	2,80	10143	170000				
	22	64,17	3,10	9203	170000				
	24	58,89	3,30	8446	170000	MKM	804 / 180 L 4a	325 330	950
	26	53,70	3,80	7702	170000				
	11	123	1,32	17376	235000	MKM	804 / 180 L 4a	325 330	950
	13	111	1,45	15681	235000				
	14	100	1,60	14127	235000	MKM	804 / 180 L 4a	325 330	950
	16	88,15	1,85	12453	235000				
	18	79,63	2,10	11249	235000	MKM	803 / 180 L 4a	313 324	954
	19	72,28	2,30	10211	235000				
	18	76,43	2,30	10962	235000				
	22	62,40	2,70	8949	235000				
	24	58,03	2,90	8323	235000				
	27	52,11	3,10	7474	235000				
	30	47,38	3,50	6795	235000	MKM	704 / 180 L 4a	307 312	864
	35	39,57	4,10	5675	235000				
	16	89,06	1,55	12581	180000				
	17	80,84	1,70	11420	180000				
	19	72,28	1,90	10211	180000				
	22	64,98	2,10	9180	180000				
	23	60,08	2,20	8487	180000	MKM	703 / 180 L 4a	295 306	868
	23	60,16	2,20	8628	180000				
	26	53,42	2,50	7661	180000				
	29	47,76	2,90	6850	180000				
	33	42,94	3,20	6158	180000				
	36	38,79	3,50	5563	180000				
	38	36,43	3,70	5225	180000	MKM	603 / 180 L 4a	277 288	676
	43	32,57	3,90	4671	180000				
	22	63,38	1,57	9090	100000				
	25	56,66	1,70	8126	100000				
	27	51,52	1,84	7389	100000				
	33	41,90	2,30	6009	100000				
	38	37,21	2,60	5337	100000				
	42	33,27	2,80	4772	100000				
	46	30,25	3,10	4338	100000				
	49	28,31	3,30	4060	100000				
	52	27,04	3,50	3878	100000				
	56	25,14	3,60	3606	100000				



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	24	59,40	1,26	8519	85000	MKM	503 / 180 L 4a	259 270	668
	27	51,80	1,46	7429	85000				
	31	45,65	1,67	6547	85000				
	36	39,33	1,88	5641	85000				
	40	34,66	2,10	4971	85000				
	44	31,68	2,40	4544	85000				
	51	27,27	2,70	3911	85000				
	58	24,05	3,10	3449	85000				
	65	21,50	3,30	3084	85000				
	74	18,97	3,80	2721	85000				
	83	16,84	4,10	2415	85000				
	93	15,02	4,50	2154	85000				
	49	28,60	1,35	4102	55000	MKM	403 / 180 L 4a	241 252	528
	53	26,60	1,60	3815	55000				
	58	24,15	1,77	3464	55000				
	67	21,02	1,91	3015	55000				
	74	18,99	2,10	2724	55000				
	81	17,24	2,30	2473	55000				
	90	15,57	2,50	2233	55000				
	6,0	235	1,10	45270	330000	MKM	1104 / 200 L 4a	379 384	1777
30 40	6,7	210	1,23	40454	330000				
	7,4	189	1,37	36409	330000				
	8,2	171	1,51	32941	330000				
	9,2	153	1,68	29474	330000				
	10	138	1,86	26584	330000				
	11	125	2,00	24080	330000				
	12	115	2,20	22153	330000				
	13	104	2,40	20034	330000				
	15	93,85	2,60	18079	330000				
	16	85,09	2,90	16392	330000				
	18	77,4	3,10	14910	330000				
	20	70,58	3,40	13596	330000				
	18	76,21	3,40	14904	330000	MKM	1103 / 200 L 4a	367 378	1790
	8,0	175	1,10	33712	270000	MKM	1004 / 200 L 4a	361 366	1408
	8,8	160	1,17	30822	270000				
	9,9	142	1,32	27355	270000				
	10	135	1,39	26006	270000				
	12	119	1,57	22924	270000				
	14	99,85	1,83	19235	270000				
	14	100	1,92	19557	270000	MKM	1003 / 200 L 4a	349 360	1418
	17	82,78	2,30	16189	270000				
	20	69,46	2,70	13584	270000				
	24	59,28	3,20	11593	270000				
	25	56,56	3,30	11062	270000				
	29	48,27	3,80	9440	270000				
	10,0	140	1,01	26969	170000	MKM	904 / 200 L 4a	343 348	1208
	11	124	1,15	23887	170000				
	13	110	1,30	21190	170000				
	14	103	1,47	19842	170000				
	15	91,66	1,65	17657	170000				
	17	81,79	1,85	15756	170000				
	20	70,72	2,10	13831	170000	MKM	903 / 200 L 4a	331 342	1218
	22	64,17	2,30	12550	170000				
	24	58,89	2,40	11517	170000				
	26	53,70	2,80	10502	170000				
	31	44,71	3,20	8744	170000				
	33	42,35	3,50	8282	170000				



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	14	100	1,17	19264	235000	MKM	804 / 200 L 4a	325 330	1011
	16	88,15	1,36	16981	235000				
	18	79,63	1,50	15340	235000				
	19	72,28	1,65	13924	235000				
	18	76,43	1,65	14948	235000	MKM	803 / 200 L 4a	313 324	1015
	22	62,40	1,98	12204	235000				
	24	58,03	2,20	11349	235000				
	27	52,11	2,30	10191	235000				
	30	47,38	2,60	9266	235000				
	35	39,57	3,00	7739	235000				
	37	37,37	3,30	7309	235000				
	42	33,48	3,60	6548	235000				
	46	30,21	4,10	5908	235000				
	22	64,98	1,54	12518	180000	MKM	704 / 200 L 4a	307 312	925
	23	60,16	1,65	11766	180000	MKM	703 / 200 L 4a	295 306	929
	26	53,42	1,88	10447	180000				
	29	47,76	2,10	9340	180000				
	33	42,94	2,30	8398	180000				
	36	38,79	2,60	7586	180000				
	38	36,43	2,70	7125	180000				
	43	32,57	2,90	6370	180000				
	48	29,28	3,00	5726	180000				
	53	26,48	3,10	5179	180000				
	59	23,80	3,20	4655	180000				
	65	21,50	3,50	4205	180000	MKM	603 / 200 L 4a	277 288	737
	71	19,79	3,70	3870	180000				
	22	63,38	1,15	12395	100000				
	25	56,66	1,25	11081	100000				
	27	51,52	1,35	10076	100000				
	33	41,90	1,65	8194	100000				
	38	37,21	1,90	7277	100000				
	42	33,27	2,10	6507	100000				
	46	30,25	2,30	5916	100000				
	49	28,31	2,40	5537	100000				
	52	27,04	2,60	5288	100000				
	56	25,14	2,70	4917	100000				
	62	22,48	3,00	4396	100000	MKM	503 / 200 L 4a	259 270	729
	66	21,24	3,10	4154	100000				
	74	18,99	3,50	3714	100000				
	31	45,65	1,23	8928	85000				
36	39,33	1,38	7692	85000					
40	34,66	1,58	6779	85000					
44	31,68	1,78	6196	85000					
51	27,27	2,00	5333	85000					
58	24,05	2,30	4703	85000					
65	21,50	2,40	4205	85000					
74	18,97	2,80	3710	85000	MKM	403 / 200 L 4a	241 252	589	
83	16,84	3,00	3293	85000					
93	15,02	3,30	2937	85000					
53	26,60	1,17	5202	55000					
58	24,15	1,30	4723	55000					
67	21,02	1,40	4111	55000					
74	18,99	1,55	3714	55000	MKM				
81	17,24	1,70	3372	55000					
90	15,57	1,83	3045	55000					



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
37 50	7,4	189	1,11	44904	330000	MKM	1104 / 225 S 4a	379 384	1864
	8,2	171	1,22	40627	330000				
	9,2	153	1,31	36351	330000				
	10	138	1,51	32787	330000				
	11	125	1,62	29698	330000				
	12	115	1,78	27322	330000				
	13	104	1,95	24709	330000				
	15	93,85	2,10	22298	330000				
	16	85,09	2,30	20216	330000				
	18	77,4	2,50	18389	330000				
	20	70,58	2,70	16769	330000	MKM	1103 / 225 S 4a	367 378	1877
	18	76,21	2,70	18382	330000				
	23	61,95	3,40	14943	330000				
	9,9	142	1,07	33737	270000	MKM	1004 / 225 S 4a	361 366	1499
	10	135	1,13	32074	270000				
	12	119	1,28	28273	270000				
	14	99,85	1,48	23723	270000	MKM	1003 / 225 S 4a	349 360	1504
	14	100	1,56	24120	270000				
	17	82,78	1,88	19967	270000				
	20	69,46	2,20	16754	270000				
	24	59,28	2,60	14299	270000				
	25	56,56	2,70	13643	270000				
	29	48,27	3,10	11643	270000				
	32	44,36	3,70	10700	270000				
	13	110	1,05	26135	170000	MKM	904 / 225 S 4a	343 348	1299
	14	103	1,19	24471	170000				
	15	91,66	1,35	21777	170000				
	17	81,79	1,50	19432	170000				
	20	70,72	1,70	17058	170000	MKM	903 / 225 S 4a	313 324	1304
	22	64,17	1,86	15478	170000				
	24	58,89	1,95	14205	170000				
	26	53,70	2,30	12953	170000				
	31	44,71	2,60	10784	170000				
	33	42,35	2,80	10215	170000				
	40	35,26	3,30	8505	170000				
	42	33,56	3,50	8095	170000				
	19	72,28	1,34	17173	235000	MKM	804 / 225 S 4a	325 330	1102
	18	76,43	1,34	18435	235000	MKM	803 / 225 S 4a	313 324	1102
	22	62,40	1,61	15051	235000				
	24	58,03	1,75	13997	235000				
	27	52,11	1,85	12569	235000				
	30	47,38	2,10	11428	235000				
	35	39,57	2,40	9544	235000				
	37	37,37	2,70	9014	235000				
	42	33,48	2,90	8076	235000				
	46	30,21	3,30	7287	235000				
	55	25,57	3,90	6168	235000				
	23	60,16	1,33	14511	180000	MKM	703 / 225 S 4a	295 306	1016
	26	53,42	1,52	12885	180000				
	29	47,76	1,70	11520	180000				
	33	42,94	1,89	10357	180000				
	36	38,79	2,10	9356	180000				
	38	36,43	2,20	8787	180000				
	43	32,57	2,30	7856	180000				
	48	29,28	2,40	7062	180000				
	53	26,48	2,50	6387	180000				
	59	23,80	2,60	5741	180000				



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
37 50	65	21,50	2,80	5186	180000	MKM	703 / 225 S 4a	295 306	1016
	71	19,79	3,00	4773	180000				
	78	17,87	3,20	4310	180000				
	86	16,20	3,30	3908	180000				
	95	14,74	4,40	3555	180000				
	33	41,90	1,34	10106	100000	MKM	603 / 225 S 4a	277 288	828
	38	37,21	1,54	8975	100000				
	42	33,27	1,70	8025	100000				
	46	30,25	1,86	7296	100000				
	49	28,31	1,95	6829	100000				
	52	27,04	2,10	6522	100000				
	56	25,14	2,20	6064	100000				
	62	22,48	2,40	5422	100000				
	66	21,24	2,50	5123	100000				
	74	18,99	2,80	4580	100000				
	40	34,66	1,28	8360	85000	MKM	503 / 225 S 4a	259 270	820
	44	31,68	1,44	7641	85000				
	51	27,27	1,62	6578	85000				
	58	24,05	1,84	5801	85000				
	65	21,50	1,97	5186	85000				
	74	18,97	2,20	4576	85000				
	83	16,84	2,50	4062	85000				
	93	15,02	2,70	3623	85000				
	9,2	153	1,08	44210	330000	MKM	1104 / 225 M 4a	379 384	1894
45 60	10	138	1,24	39876	330000				
	11	125	1,33	36120	330000				
	12	115	1,47	33230	330000				
	13	104	1,60	30051	330000				
	15	93,85	1,73	27119	330000				
	16	85,09	1,93	24587	330000				
	18	77,4	2,10	22365	330000				
	20	70,58	2,30	20395	330000				
	18	76,21	2,20	22357	330000	MKM	1103 / 225 M 4a	367 378	1907
	23	61,95	2,80	18173	330000				
	27	51,5	3,40	15108	330000				
	32	44,2	3,80	12966	330000				
	12	119	1,05	34386	270000	MKM	1004 / 225 M 4a	361 366	1529
	14	99,85	1,22	28852	270000				
	14	100	1,28	29336	270000	MKM	1003 / 225 M 4a	349 360	1534
	17	82,78	1,55	24284	270000				
	20	69,46	1,85	20377	270000				
	24	59,28	2,10	17390	270000				
	25	56,56	2,20	16592	270000				
	29	48,27	2,50	14160	270000				
	32	44,36	3,00	13013	270000				
	38	37,22	3,30	10919	270000				
	44	31,76	3,90	9317	270000				
	15	91,66	1,11	26486	170000	MKM	904 / 225 M 4a	343 348	1329
	17	81,79	1,23	23634	170000				
	20	70,72	1,40	20746	170000				
	22	64,17	1,53	18825	170000	MKM	903 / 225 M 4a	331 342	1334
	24	58,89	1,60	17276	170000				
	26	53,70	1,87	15753	170000				
	31	44,71	2,10	13116	170000				
	33	42,35	2,30	12424	170000				
	40	35,26	2,70	10344	170000				
	42	33,56	2,90	9845	170000				
	48	29,39	3,30	8622	170000				
	50	27,94	3,50	8196	170000				
	54	25,89	3,80	7595	170000				



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
45 60	22	62,40	1,32	18305	235000	MKM	803 / 225 M 4a	313 324	1132
	24	58,03	1,44	17024	235000				
	27	52,11	1,52	15287	235000				
	30	47,38	1,73	13899	235000				
	35	39,57	2,00	11608	235000				
	37	37,37	2,20	10963	235000				
	42	33,48	2,40	9822	235000				
	46	30,21	2,70	8862	235000				
	55	25,57	3,20	7501	235000				
	62	22,41	3,60	6574	235000				
	71	19,76	4,10	5797	235000				
	100	14,01	5,20	4110	235000				
	26	53,42	1,25	15671	180000	MKM	703 / 225 M 4a	295 306	1046
	29	47,76	1,40	14011	180000				
	33	42,94	1,55	12597	180000				
	36	38,79	1,72	11379	180000				
	38	36,43	1,80	10687	180000				
	43	32,57	1,90	9555	180000				
	48	29,28	1,90	8589	180000	MKM	703 / 225 M 4a	295 306	1046
	53	26,48	2,00	7768	180000				
	59	23,80	2,20	6982	180000				
	65	21,50	2,30	6307	180000				
	71	19,79	2,40	5806	180000				
	78	17,87	2,60	5242	180000				
	86	16,20	2,70	4752	180000				
	95	14,74	3,60	4324	180000				
	33	41,90	1,10	12292	100000	MKM	603 / 225 M 4a	277 288	858
	38	37,21	1,27	10916	100000				
	42	33,27	1,40	9760	100000				
	46	30,25	1,53	8874	100000				
	49	28,31	1,60	8305	100000				
	52	27,04	1,70	7932	100000				
	56	25,14	1,77	7375	100000				
	62	22,48	2,00	6595	100000				
	66	21,24	2,00	6231	100000				
	74	18,99	2,30	5571	100000				
	44	31,68	1,18	9294	85000	MKM	503 / 225 M 4a	259 270	850
	51	27,27	1,33	8000	85000				
	58	24,05	1,52	7055	85000				
	65	21,50	1,62	6307	85000				
	74	18,97	1,83	5565	85000				
	83	16,84	2,00	4940	85000				
	93	15,02	2,20	4406	85000				
55 75	11	125	1,09	44146	330000	MKM	1104 / 250 M 4a	379 384	1978
	12	115	1,20	40614	330000				
	13	104	1,31	36730	330000				
	15	93,85	1,42	33145	330000				
	16	85,09	1,58	30051	330000				
	18	77,4	1,69	27335	330000				
	20	70,58	1,85	24927	330000				
	18	76,21	1,85	27325	330000	MKM	1103 / 250 M 4a	367 378	1994
	23	61,95	2,30	22212	330000				
	27	51,5	2,70	18465	330000				
	32	44,2	3,20	15848	330000				
	38	36,74	3,80	13173	330000				
	45	31,04	4,50	11129	330000				
	50	27,87	3,60	9993	330000				



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
55 75	17	82,78	1,27	29681	270000	MKM	1003 / 250 M 4a	349 360	1613
	20	69,46	1,51	24905	270000				
	24	59,28	1,78	21255	270000				
	25	56,56	1,82	20279	270000				
	29	48,27	2,10	17307	270000				
	32	44,36	2,50	15905	270000				
	38	37,22	2,70	13345	270000				
	44	31,76	3,20	11387	270000				
	51	27,46	3,70	9846	270000	MKM	903 / 250 M 4a	331 342	1413
	20	70,72	1,15	25356	170000				
	22	64,17	1,25	23008	170000				
	24	58,89	1,31	21115	170000				
	26	53,70	1,53	19254	170000				
	31	44,71	1,75	16031	170000				
	33	42,35	1,91	15184	170000				
	40	35,26	2,20	12642	170000				
	42	33,56	2,40	12033	170000				
	48	29,39	2,70	10538	170000				
	50	27,94	2,80	10018	170000				
	54	25,89	3,10	9283	170000				
	58	24,27	3,20	8702	170000	MKM	803 / 250 M 4a	313 324	1216
	65	21,56	3,70	7730	170000				
	24	58,03	1,18	20807	235000				
	27	52,11	1,24	18684	235000				
	30	47,38	1,41	16988	235000				
	35	39,57	1,65	14188	235000				
	37	37,37	1,78	13399	235000				
	42	33,48	1,95	12004	235000				
	46	30,21	2,20	10832	235000				
	55	25,57	2,60	9168	235000				
	62	22,41	3,00	8035	235000				
	71	19,76	3,40	7085	235000	MKM	703 / 250 M 4a	295 306	1130
	100	14,01	4,20	5023	235000				
	29	47,76	1,15	17124	180000				
	33	42,94	1,27	15396	180000				
	36	38,79	1,40	13908	180000				
	38	36,43	1,47	13062	180000				
	43	32,57	1,55	11678	180000				
	48	29,28	1,61	10498	180000				
	53	26,48	1,66	9494	180000				
	59	23,80	1,77	8533	180000				
	65	21,50	1,88	7709	180000				
	71	19,79	1,99	7096	180000	MKM	603 / 250 M 4a	277 288	942
	78	17,87	2,10	6407	180000				
	86	16,20	2,20	5808	180000				
	95	14,74	3,00	5285	180000				
	38	37,21	1,04	13342	100000				
	42	33,27	1,15	11929	100000				
	46	30,25	1,25	10846	100000				
	49	28,31	1,31	10150	100000				
	52	27,04	1,39	9695	100000				
	56	25,14	1,45	9014	100000				
	62	22,48	1,64	8060	100000				
	66	21,24	1,66	7616	100000	MKM	503 / 250 M 4a	295 306	934
	74	18,99	1,88	6809	100000				
	58	24,05	1,24	8623	85000				
	74	18,97	1,50	6802	85000				
	83	16,84	1,66	6038	85000	MKM	503 / 250 M 4a	295 306	934
	93	15,02	1,83	5385	85000				



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
75 100	16	85,09	1,16	40979	330000	MKM	1104 / 280 S 4a	295 306	2145
	18	77,4	1,24	37275	330000				
	20	70,58	1,36	33991	330000	MKM	1103 / 280 S 4a	277 288	2174
	18	76,21	1,36	37261	330000				
	23	61,95	1,68	30289	330000				
	27	51,5	2,00	25180	330000				
	32	44,2	2,30	21611	330000				
	38	36,74	2,80	17963	330000				
	45	31,04	3,30	15176	330000				
	50	27,87	2,60	13626	330000				
	54	25,92	3,90	12673	330000				
	20	69,46	1,23	33961	270000	MKM	1003 / 280 S 4a	349 360	1780
	24	59,28	1,45	28984	270000				
	25	56,56	1,49	27654	270000				
	29	48,27	1,72	23601	270000				
	32	44,36	2,00	21689	270000				
	38	37,22	2,20	18198	270000				
	44	31,76	2,60	15528	270000				
	51	27,46	2,70	13426	270000				
	61	22,86	3,20	11177	270000				
	70	19,96	3,70	9759	270000				
	26	53,70	1,12	26255	170000	MKM	903 / 280 S 4a	331 342	1580
	31	44,71	1,28	21860	170000				
	33	42,35	1,40	20706	170000				
	40	35,26	1,84	17240	170000				
	42	33,56	1,76	16408	170000				
	48	29,39	2,00	14370	170000				
	50	27,94	2,10	13661	170000				
	54	25,89	2,30	12658	170000				
	58	24,27	2,40	11866	170000				
	65	21,56	2,70	10541	170000				
	35	39,57	1,21	19347	235000	MKM	803 / 280 S 4a	313 324	1383
	37	37,37	1,31	18271	235000				
	42	33,48	1,43	16369	235000				
	46	30,21	1,63	14771	235000				
	55	25,57	1,92	12502	235000				
	62	22,41	2,20	10957	235000				
	71	19,76	2,50	9661	235000				
	100	14,01	3,10	6850	235000				
	48	29,28	1,18	14316	180000	MKM	703 / 280 S 4a	295 306	1297
	59	23,80	1,30	11636	180000				
	65	21,50	1,38	10512	180000				
	71	19,79	1,46	9676	180000				
	78	17,87	1,56	8737	180000				
	86	16,20	1,64	7921	180000				
	95	14,74	2,20	7207	180000				
90 120	20	70,58	1,13	40789	330000	MKM	1104 / 280 M 4a	379 384	2205
	18	76,21	1,13	44713	330000	MKM	1103 / 280 M 4a	367 378	2234
	23	61,95	1,40	36347	330000				
	27	51,5	1,68	30216	330000				
	32	44,2	1,93	25933	330000				
	38	36,74	2,40	21556	330000				
	45	31,04	2,80	18212	330000				
	50	27,87	2,20	16352	330000				
	54	25,92	3,30	15208	330000				
	61	22,89	3,70	13430	330000				



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
90 120	24	59,28	1,21	34780	270000	MKM	1003 / 280 M 4a	349 360	1840
	25	56,56	1,24	33185	270000				
	29	48,27	1,43	28321	270000				
	32	44,36	1,70	26027	270000				
	38	37,22	1,84	21837	270000				
	44	31,76	2,20	18634	270000				
	51	27,46	2,30	16111	270000				
	61	22,86	2,70	13412	270000				
	70	19,96	3,10	11711	270000				
	90	15,54	4,00	9118	270000				
	31	44,71	1,07	26232	170000	MKM	903 / 280 M 4a	331 342	1640
	33	42,35	1,17	24847	170000				
	40	35,26	1,37	20688	170000				
	42	33,56	1,47	19690	170000				
	48	29,39	1,67	17244	170000				
	50	27,94	1,73	16393	170000				
	54	25,89	1,90	15190	170000				
	58	24,27	1,97	14240	170000				
	65	21,56	2,20	12650	170000				
	42	33,48	1,19	19643	235000	MKM	803 / 280 M 4a	313 324	1443
	55	25,57	1,60	15002	235000				
	62	22,41	1,80	13148	235000				
	71	19,76	2,10	11593	235000				
	100	14,01	2,60	8220	235000	MKM	703 / 280 M 4a	295 306	1242
	95	14,74	1,83	8648	180000				
110 150	23	61,95	1,15	44424	330000	MKM	1103 / 315 S 4a	367 378	2461
	27	51,5	1,38	36930	330000				
	32	44,2	1,58	31696	330000				
	38	36,74	1,92	26346	330000				
	45	31,04	2,30	22259	330000				
	50	27,87	1,82	19985	330000				
	54	25,92	2,70	18587	330000				
	61	22,89	3,00	16414	330000				
	70	19,88	3,50	14256	330000				
	81	17,35	4,00	12442	330000				
	29	48,27	1,17	34614	270000	MKM	1003 / 315 S 4a	349 360	2076
	32	44,36	1,39	31810	270000				
	38	37,22	1,50	26690	270000				
	44	31,76	1,78	22775	270000				
	51	27,46	1,86	19691	270000				
	61	22,86	2,20	16393	270000				
	70	19,96	2,50	14313	270000				
	90	15,54	3,30	11144	270000				
	40	35,26	1,12	25285	170000	MKM	903 / 315 S 4a	331 342	1876
	42	33,56	1,20	24066	170000				
	48	29,39	1,36	21075	170000				
	50	27,94	1,44	20036	170000				
	54	25,89	1,55	18566	170000				
	58	24,27	1,61	17404	170000				
	65	21,56	1,83	15461	170000				
	27	51,5	1,15	44316	330000	MKM	1103 / 315 M 4a	331 342	2482
	32	44,2	1,32	38035	330000				
	38	36,74	1,60	31615	330000				
	45	31,04	1,88	26710	330000				
	50	27,87	1,51	23983	330000				
	54	25,92	2,30	22305	330000				
	61	22,89	2,50	19697	330000				
	70	19,88	2,90	17107	330000				
132 175	27	51,5	1,15	44316	330000	MKM	1103 / 315 M 4a	331 342	2482
	32	44,2	1,32	38035	330000				
	38	36,74	1,60	31615	330000				
	45	31,04	1,88	26710	330000				
	50	27,87	1,51	23983	330000				
	54	25,92	2,30	22305	330000				
	61	22,89	2,50	19697	330000				
	70	19,88	2,90	17107	330000				



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
132 175	32	44,36	1,16	38172	270000	MKM	1003 / 315 M 4a	349 360	2097
	38	37,22	1,25	32028	270000				
	44	31,76	1,49	27330	270000				
	51	27,46	1,55	23630	270000				
	61	22,86	1,84	19671	270000				
	70	19,96	2,10	17176	270000				
	90	15,54	2,70	13372	270000	MKM	903 / 315 M 4a	331 342	1897
	42	33,56	1,00	28879	170000				
	48	29,39	1,13	25291	170000				
	50	27,94	1,20	24043	170000				
	54	25,89	1,30	22279	170000				
	58	24,27	1,34	20885	170000				
	65	21,56	1,52	18553	170000				
160 210	32	44,2	1,10	46103	330000	MKM	1103 / 315 M 4b	367 378	2530
	38	36,74	1,33	38322	330000				
	45	31,04	1,56	32376	330000				
	50	27,87	1,25	29070	330000				
	54	25,92	1,85	27036	330000				
	61	22,89	2,10	23875	330000				
	70	19,88	2,50	20736	330000				
	81	17,35	2,80	18097	330000				
	44	31,76	1,23	33127	270000	MKM	1003 / 315 M 4b	349 360	2145
	51	27,46	1,28	28642	270000				
	61	22,86	1,52	23844	270000				
	70	19,96	1,75	20819	270000				
	90	15,54	2,20	16209	270000				
185 250	38	36,74	1,15	44309	330000	MKM	1103 / 315 L 4a	367 378	2615
	45	31,04	1,35	37435	330000				
	50	27,87	1,08	33612	330000				
	54	25,92	1,60	31260	330000				
	61	22,89	1,83	27606	330000				
	70	19,88	2,10	23976	330000				
	81	17,35	2,40	20925	330000				
	61	22,86	1,31	27570	270000	MKM	1003 / 315 L 4a	349 360	2230
	70	19,96	1,51	24072	270000				
	90	15,54	1,94	18742	270000				
200 270	38	36,74	1,07	47902	330000	MKM	1103 / 315 L 4b	367 378	2700
	45	31,04	1,25	40470	330000				
	50	27,87	1,00	36337	330000				
	54	25,92	1,48	33795	330000				
	61	22,89	1,69	29844	330000				
	70	19,88	1,97	25920	330000				
	81	17,35	2,20	22621	330000				
	70	19,96	1,40	26024	270000	MKM	1003 / 315 L 4b	349 360	2315
	90	15,54	1,80	20261	270000				
250 340	70	19,88	1,58	32400	330000	MK	1103 / 355 M 4a	367 378	2800
	81	17,35	1,80	28276	330000				
	90	15,54	1,43	25326	270000	MK	1003 / 355 M 4a	349 360	2450

MK Serisi Redüktörler Güç ve Devir Tabloları

MK Series - Performances Tables
Series MK - Table de performances



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ 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)	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
6100 Nm	3,0	4,61	303	6100	5000	55000	MK 404	253 258	260
	3,8	5,17	271	6100	5000	55000			
	4,2	5,76	243	6100	5000	55000			
	4,5	6,38	220	6100	5000	55000			
	4,8	6,74	208	6100	5000	55000			
	5,1	7,46	188	6100	5000	55000			
	6,1	8,30	169	6100	5000	55000			
	6,0	9,19	152	6100	5000	55000			
	6,7	9,72	144	6100	5000	55000			
	7,1	11	129	6100	5000	55000			
	8,1	12	117	6100	5000	55000			
	8,2	12	115	5740	5000	55000	MK 403	241 252	260
5740 Nm	9,4	14	102	5740	5000	55000			
	10,7	17	80,98	5740	5000	55000			
	10,5	17	81,71	5740	5000	55000			
	11,7	19	73,81	5740	5000	55000			
	13,4	22	63,67	5740	5000	55000			
	16,0	24	57,52	5740	5000	55000			
	18,6	29	48,87	5740	5000	55000			
	19,6	32	44,14	5740	5000	55000			
	23,3	35	40,07	5740	5000	55000			
	25,2	40	34,88	5740	5000	55000			
	27,1	44	31,51	5740	5000	55000			
	31,3	49	28,60	5740	5000	55000	MK 504	271 276	387
10230 Nm	35,2	53	26,61	5740	5000	55000			
	36,5	58	24,15	5740	5000	55000			
	43,8	67	21,03	5740	5000	55000			
	46,4	74	18,99	5740	5000	55000			
	50,3	81	17,24	5740	5000	55000			
	57,4	90	15,57	5740	5000	55000			
	5,2	4,74	295	10230	8000	85000	MK 503	259 270	387
10300 Nm	6,4	5,40	259	10230	8000	85000			
	6,8	6,10	229	10230	8000	85000			
	7,7	6,85	204	10230	8000	85000			
	8,9	8,15	172	10230	8000	85000			
	10,8	9,21	152	10230	8000	85000			
	11,2	10	135	10230	8000	85000			
	13,4	12	119	10230	8000	85000			
	15,2	13	105	10230	8000	85000			
	17,0	15	93,84	10230	8000	85000			
	19,8	17	82,78	10230	8000	85000			
	15,9	14	101	10300	8000	85000			
	17,4	16	88,24	10300	8000	85000			
	20,3	18	77,76	10300	8000	85000			
	23,6	21	67,00	10300	8000	85000			
	27,0	24	59,40	10300	8000	85000			
	31,9	27	51,81	10300	8000	85000			
	35,1	31	45,65	10300	8000	85000			
	42,7	36	39,34	10300	8000	85000			
	47,7	40	34,67	10300	8000	85000			
	53,8	44	31,68	10300	8000	85000			
	56,2	51	27,27	10300	8000	85000			
	67,7	58	24,06	10300	8000	85000			
	79,2	65	21,51	10300	8000	85000			
	82,0	74	18,97	10300	8000	85000			
	92,4	83	16,84	10300	8000	85000			
	104	93	15,02	10300	8000	85000			



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ <i>Service facteur $S_f=1$</i>	P ₁ GÜÇ Power <i>Puissance</i> [kW]	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m] (n ₁ =1400rpm)	i Tahvil Ratio <i>Rapport de réduction</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q1} Rad. Yük Over Loads <i>Charges radiales</i> [N]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
11900 Nm	4,7	3,63	386	11900	8000	100000	MK	604	289 294	395
	6,0	4,44	315	11900	8000	100000				
	7,4	5,62	249	11900	8000	100000				
	8,4	6,41	219	11900	8000	100000				
	9,4	6,72	208	11900	8000	100000				
	12,3	8,65	162	11900	8000	100000				
	12,8	9,94	141	11900	8000	100000				
	15,5	11	124	11900	8000	100000				
	17,3	13	112	11900	8000	100000				
	19,8	14	98,15	11900	8000	100000				
	19,3	15	93,07	11900	8000	100000				
	22,7	17	82,92	11900	8000	100000				
	26,0	19	73,38	11900	8000	100000				
	27,9	21	65,36	11900	8000	100000				
	12900 Nm	20,5	13	106	12900	8000				
21,0		15	94,03	12900	8000	100000				
22,0		16	88,64	12900	8000	100000				
26,7		18	78,72	12900	8000	100000				
28,1		20	71,37	12900	8000	100000				
30,8		22	63,38	12900	8000	100000				
38,2		25	56,67	12900	8000	100000				
41,4		27	51,53	12900	8000	100000				
47,2		33	41,90	12900	8000	100000				
51,6		38	37,21	12900	8000	100000				
63,2		42	33,27	12900	8000	100000				
64,4		46	30,25	12900	8000	100000				
76,5		49	28,32	12900	8000	100000				
78,9		52	27,05	12900	8000	100000				
84,9		56	25,15	12900	8000	100000				
86,7		62	22,48	12900	8000	100000				
96,0		66	21,25	12900	8000	100000				
107		74	19,00	12900	8000	100000				
18900 Nm		6,4	3,10	452	18900	9000	180000	MK	704	307 312
	7,1	3,48	403	18900	9000	180000				
	8,5	3,85	364	18900	9000	180000				
	9,4	4,32	324	18900	9000	180000				
	9,8	4,81	291	18900	9000	180000				
	11,2	5,32	263	18900	9000	180000				
	13,6	5,98	234	18900	9000	180000				
	14,8	6,62	211	18900	9000	180000				
	15,5	7,36	190	18900	9000	180000				
	17,9	8,14	172	18900	9000	180000				
	19,9	9,17	153	18900	9000	180000				
	20,9	10	139	18900	9000	180000				
	23,8	11	124	18900	9000	180000				
	25,7	13	111	18900	9000	180000				
	28,0	14	100	18900	9000	180000				
	31,6	16	89,06	18900	9000	180000				
	37,5	17	80,85	18900	9000	180000				
	40,1	19	72,28	18900	9000	180000				
	48,8	22	64,99	18900	9000	180000				
	52,0	23	60,09	18900	9000	180000				
	19400 Nm	50,2	23	60,16	19400	9000	180000			
60,1		26	53,43	19400	9000	180000				
68,2		29	47,77	19400	9000	180000				
74,7		33	42,95	19400	9000	180000				
76,7		36	38,79	19400	9000	180000				
79,3		38	36,43	19400	9000	180000				
90,0		43	32,57	19400	9000	180000				
105		48	29,29	19400	9000	180000				



Servis Faktörü $S_f=1$ Service Factor $S_f=1$ <i>Service facteur $S_f=1$</i>	P ₁ GÜÇ Power <i>Puissance</i> [kW]	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m] (n ₁ =1400rpm)	i Tahvil Ratio <i>Rapport de réduction</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q1} Rad. Yük Over Loads <i>Charges radiales</i> [N]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>		 ~kg	
19400 Nm	121	53	26,48	19400	9000	180000	MK	703	295 306	577
	135	59	23,81	19400	9000	180000				
	140	65	21,50	19400	9000	180000				
	146	71	19,79	19400	9000	180000				
	174	78	17,88	19400	9000	180000				
	198	86	16,21	19400	9000	180000				
	202	95	14,74	19400	9000	180000				
22520 Nm	7,1	2,74	512	22520	9000	235000	MK	804	325 330	663
	7,3	3,05	460	22520	9000	235000				
	8,6	3,37	415	22520	9000	235000				
	9,7	3,71	377	22520	9000	235000				
	9,8	4,01	349	22520	9000	235000				
	12,2	4,57	306	22520	9000	235000				
	14,3	5,28	265	22520	9000	235000				
	15,4	5,88	238	22520	9000	235000				
	16,8	6,51	215	22520	9000	235000				
	17,5	7,31	192	22520	9000	235000				
	21,9	8,09	173	22520	9000	235000				
	22,2	9,26	151	22520	9000	235000				
	25,7	10	137	22520	9000	235000				
	27,0	11	124	22520	9000	235000				
	30,4	13	112	22520	9000	235000				
	36,9	14	101	22520	9000	235000				
	39,8	16	88,15	22520	9000	235000				
	43,4	18	79,63	22520	9000	235000				
	50,8	19	72,29	22520	9000	235000				
	22300 Nm	43,4	18	76,43	22300	9000				
54,8		22	62,40	22300	9000	235000				
61,7		24	58,04	22300	9000	235000				
68,7		27	52,12	22300	9000	235000				
73,3		30	47,38	22300	9000	235000				
86,4		35	39,57	22300	9000	235000				
88,8		37	37,37	22300	9000	235000				
105		42	33,49	22300	9000	235000				
124		46	30,22	22300	9000	235000				
142		55	25,57	22300	9000	235000				
153		62	22,41	22300	9000	235000				
181		71	19,76	22300	9000	235000				
240		100	14,01	22300	9000	235000				
28830 Nm	14,9	4,57	306	28830	10000	170000	MK	904	343 348	850
	17,6	5,24	267	28830	10000	170000				
	19,7	5,95	235	28830	10000	170000				
	20,5	6,30	222	28830	10000	170000				
	24,3	7,14	196	28830	10000	170000				
	24,6	7,56	185	28830	10000	170000				
	26,7	8,57	163	28830	10000	170000				
	34,4	9,96	141	28830	10000	170000				
	34,6	11	124	28830	10000	170000				
	44,0	13	110	28830	10000	170000				
	44,8	14	103	28830	10000	170000				
	50,5	15	91,66	28830	10000	170000				
	59,2	17	81,79	28830	10000	170000				
	29530 Nm	65,0	20	70,72	29530	10000				
75,0		22	64,18	29530	10000	170000				
84,2		24	58,89	29530	10000	170000				
83,1		26	53,70	29530	10000	170000				
108		31	44,72	29530	10000	170000				
109		33	42,35	29530	10000	170000				
136		40	35,27	29530	10000	170000				
137		42	33,56	29530	10000	170000				

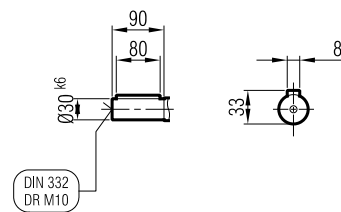
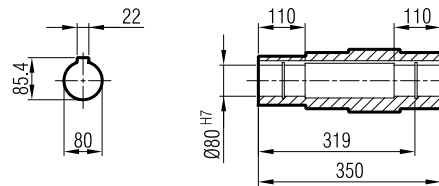
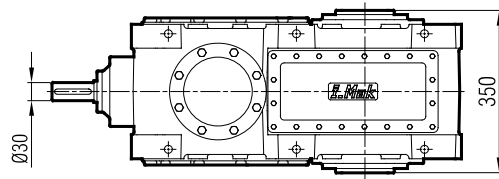
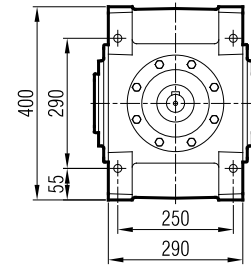
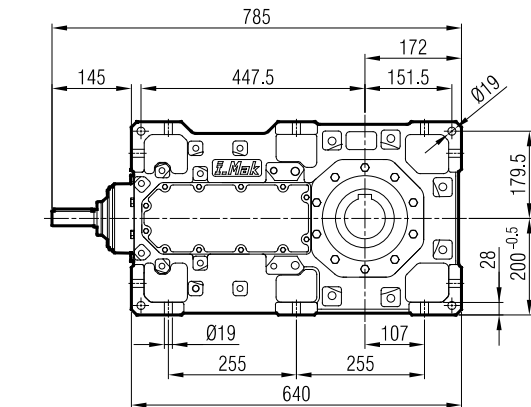


Servis Faktörü $S_f=1$ Service Factor $S_f=1$ <i>Service facteur $S_f=1$</i>	P ₁ GÜÇ Power <i>Puissance</i> [kW]	n ₂ Çıkış Devri Output Speeds <i>Vitesse de sortie</i> [r.p.m] (n ₁ =1400rpm)	i Tahvil Ratio <i>Rapport de réduction</i>	M ₂ Çıkış Momenti Output Torque <i>Couple de sortie</i> [Nm]	F _{Q1} Rad. Yük Over Loads <i>Charges radiales</i> [N]	F _{Q10} Rad. Yük Over Loads <i>Charges radiales</i> [N]	Tip Type <i>Types</i>			 ~kg
29530 Nm	156	48	29,39	29530	10000	170000	MK	903	331 342	850
	175	50	27,95	29530	10000	170000				
	172	54	25,89	29530	10000	170000				
	195	58	24,28	29530	10000	170000				
	220	65	21,56	29530	10000	170000				
37580 Nm	12,3	2,77	505	37580	10000	270000	MK	1004	361 366	1050
	13,6	3,15	445	37580	10000	270000				
	15,2	3,38	414	37580	10000	270000				
	14,4	3,55	394	37580	10000	270000				
	16,1	4,03	347	37580	10000	270000				
	17,3	4,33	323	37580	10000	270000				
	19,9	4,91	285	37580	10000	270000				
	21,2	5,16	271	37580	10000	270000				
	26,4	5,86	239	37580	10000	270000				
	28,3	7,08	198	37580	10000	270000				
	31,9	7,98	176	37580	10000	270000				
	38,6	8,70	161	37580	10000	270000				
	44,2	9,80	143	37580	10000	270000				
	46,0	10	135	37580	10000	270000				
	46,6	12	120	37580	10000	270000				
	59,5	14	99,85	37580	10000	270000				
	36700 Nm	54,9	14	101	36700	10000				
70,1		17	82,79	36700	10000	270000				
88,7		20	69,47	36700	10000	270000				
99,4		24	59,29	36700	10000	270000				
99,5		25	56,56	36700	10000	270000				
115		29	48,27	36700	10000	270000				
133		32	44,36	36700	10000	270000				
156		38	37,23	36700	10000	270000				
194		44	31,77	36700	10000	270000				
199		51	27,46	36700	10000	270000				
258		61	22,87	36700	10000	270000				
50000 Nm	278	70	19,96	36700	10000	270000	MK	1104	379 384	1400
	396	90	15,55	36700	10000	270000				
	24,3	4,25	330	50000	12000	330000				
	27,0	4,78	293	50000	12000	330000				
	29,7	5,35	262	50000	12000	330000				
	32,6	5,95	235	50000	12000	330000				
	37,0	6,66	210	50000	12000	330000				
	39,9	7,40	189	50000	12000	330000				
	43,5	8,19	171	50000	12000	330000				
	50,6	9,11	154	50000	12000	330000				
	58,7	10	139	50000	12000	330000				
	59,1	11	126	50000	12000	330000				
	67,5	12	115	50000	12000	330000				
	77,8	13	105	50000	12000	330000				
	84,2	15	93,85	50000	12000	330000				
50000 Nm	98,7	16	85,09	50000	12000	330000	MK	1103	367 378	1400
	101	18	77,40	50000	12000	330000				
	117	20	70,58	50000	12000	330000				
	97,6	18	76,21	50000	12000	330000				
	128	23	61,95	50000	12000	330000				
	153	27	51,50	50000	12000	330000				
	171	32	44,20	50000	12000	330000				
	212	38	36,74	50000	12000	330000				
	251	45	31,04	50000	12000	330000				
	292	50	27,87	50000	12000	330000				
	291	54	25,92	50000	12000	330000				

MK Serisi Redüktörler Ölçü Sayfaları

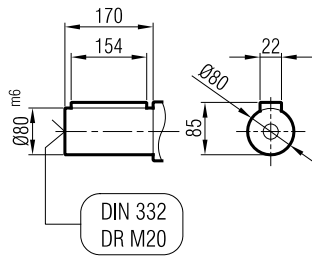
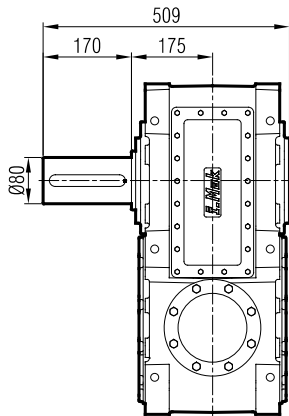
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Dimensions

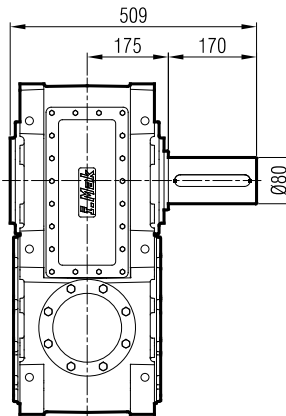
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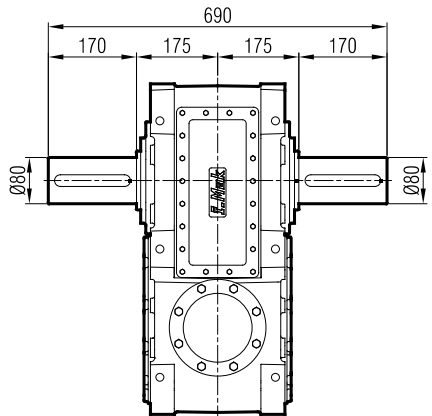
MA / MK 40_
...-SL



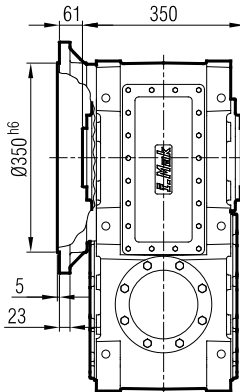
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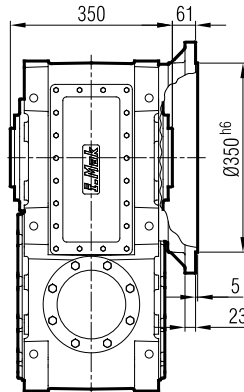
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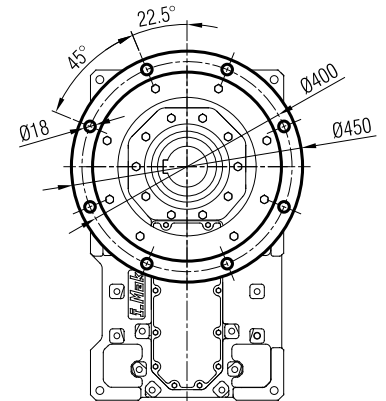
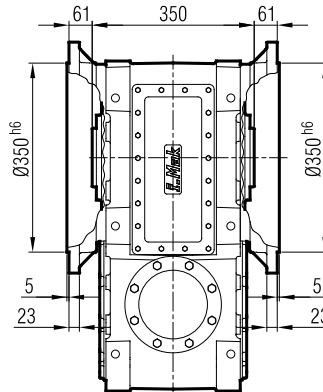
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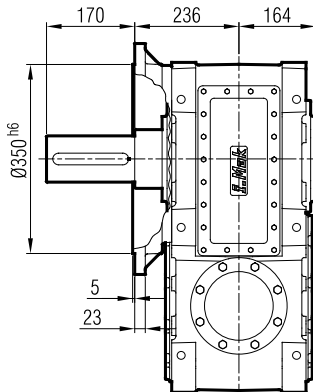
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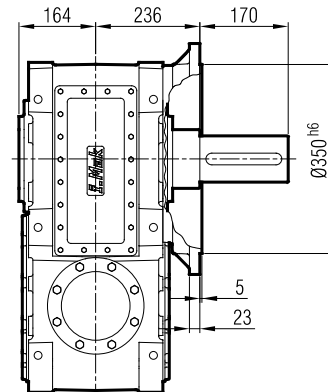
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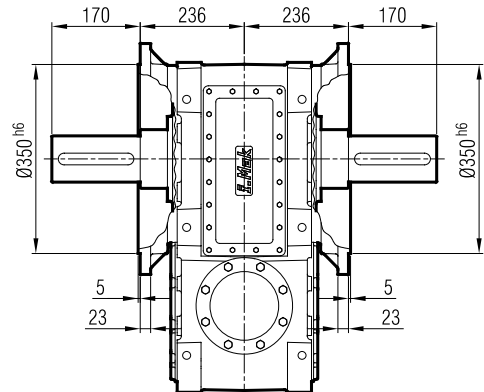
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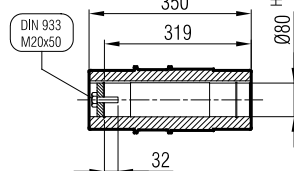
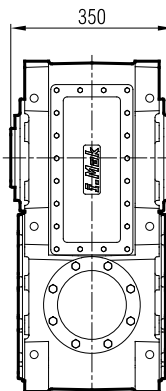
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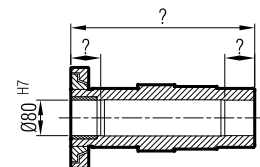
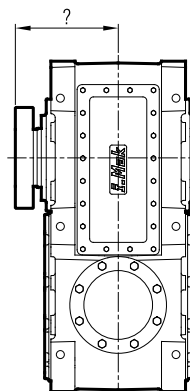
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...-H

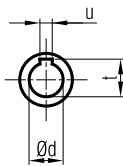
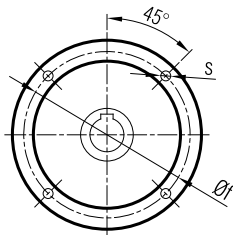
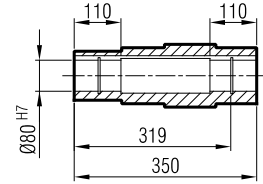
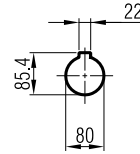
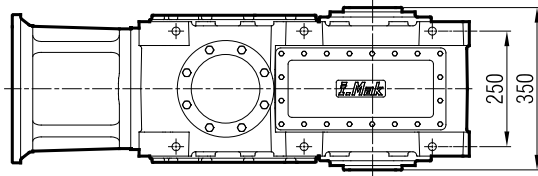
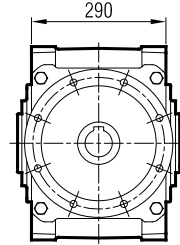
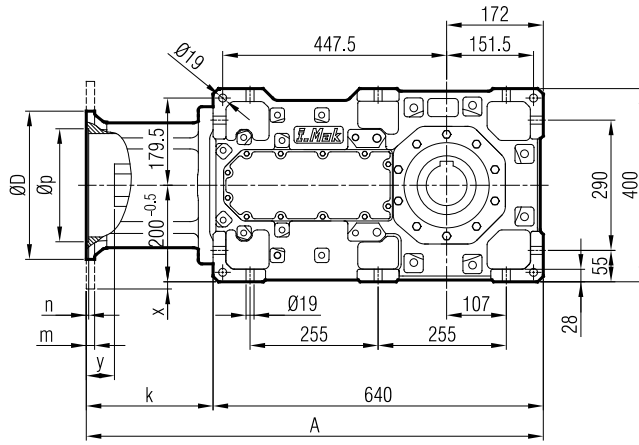


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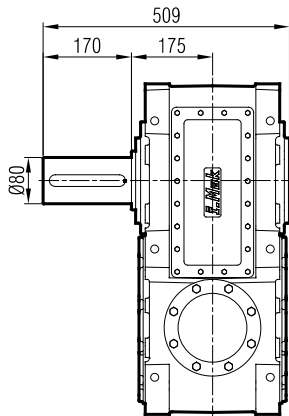
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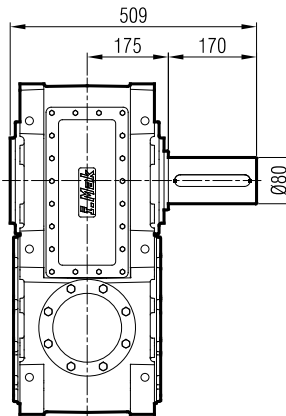
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112/B5	850	180	215	250	M12	219	15	5	28	31.3	8	-	0
132/B5	870	230	265	300	M12	239	18	6	38	41.3	10	-	33
160/B5	902	250	300	350	M14	262	20	6	42	45.3	12	-	65
180/B5	902	250	300	350	M14	262	20	6	48	51.8	14	-	61
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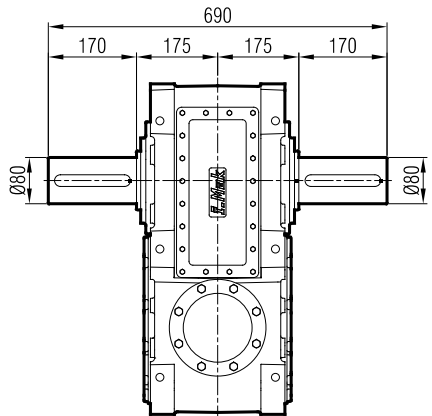
MA / MK 40_
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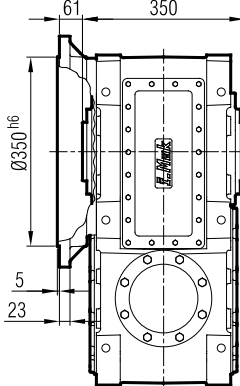
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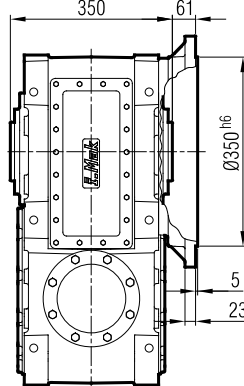
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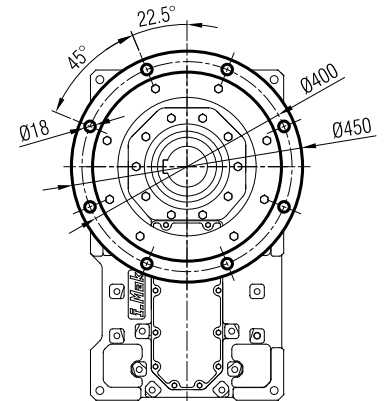
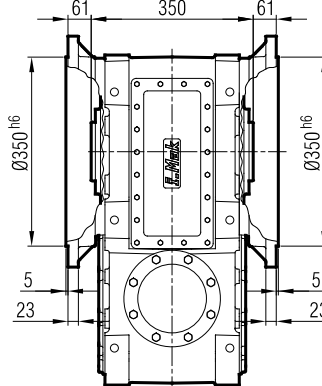
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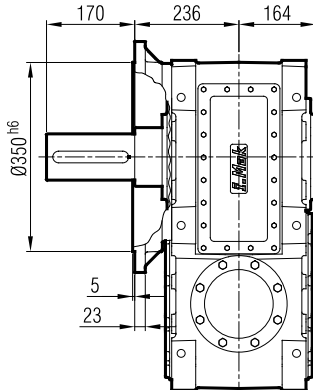
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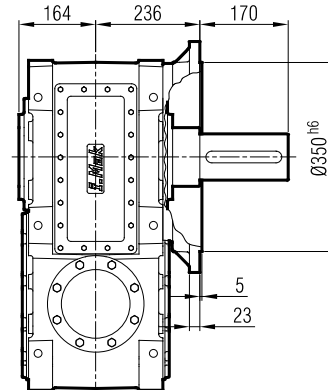
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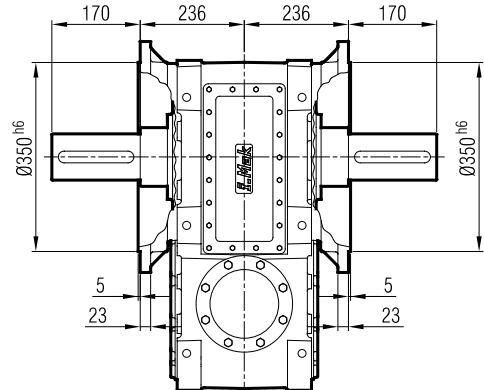
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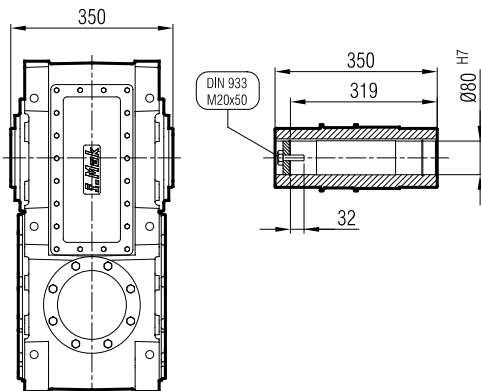
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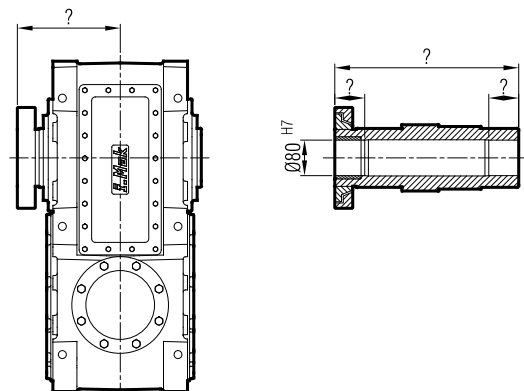
...-FD-SD

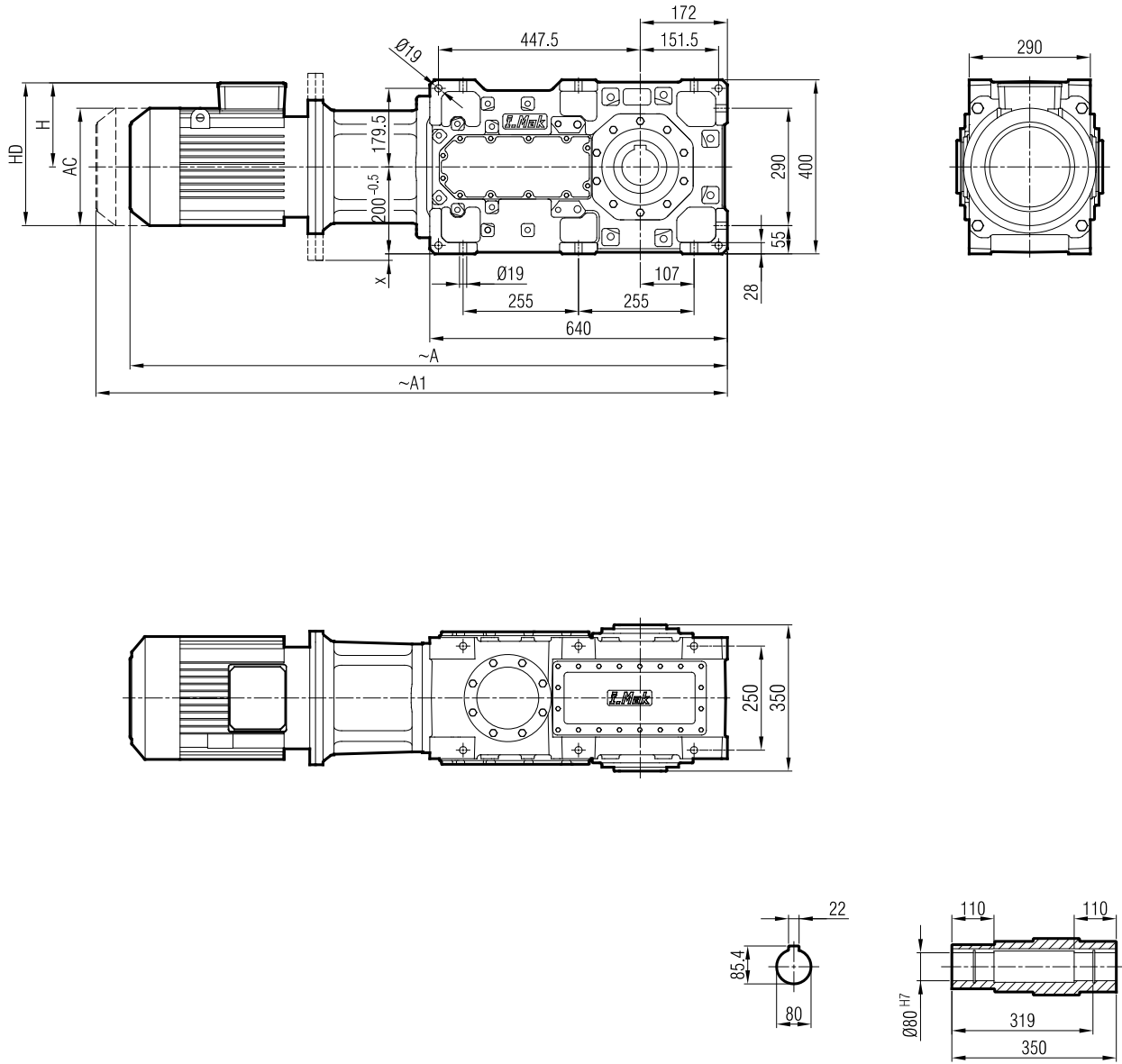


...-H



...-SDL / SDR




MKM 403-G09


	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 L/B5	160 L/B5	180 M/B5	180 L/B5	200 L/B5
A	1222	1194	1271	1312	1422	1467	1543	1543	1611
A1	1299	1289	1375	1416	1539	1584	1679	1679	1758
H	161	170	193	193	240	240	260	260	300
HD	261	282	325	325	400	400	440	440	500
AC	195	220	262	262	315	315	357	357	394
x	-	-	-	-	-	-	-	-	0

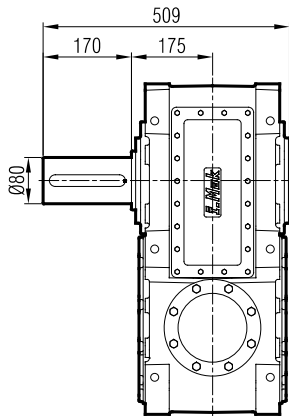
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

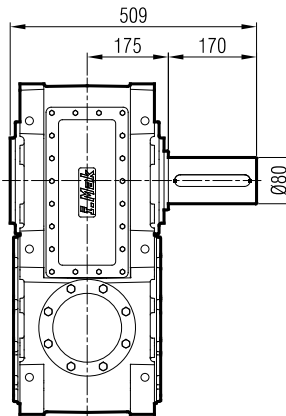
Le dimensions "A1" correspond aux moteurs équipés de freins.



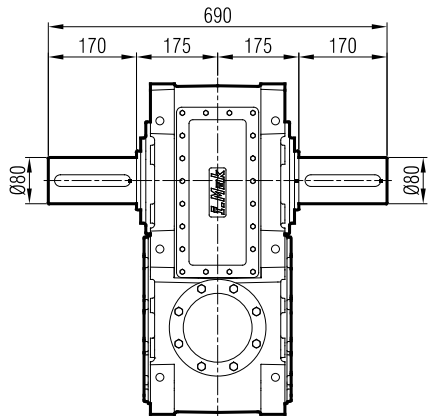
MA / MK 40_
...-SL



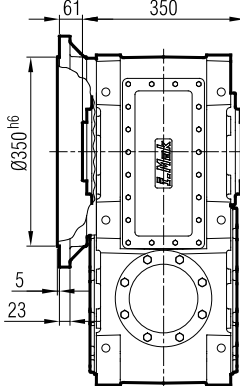
...-SR



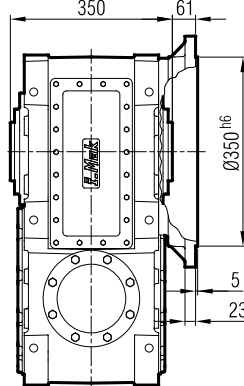
...-SD



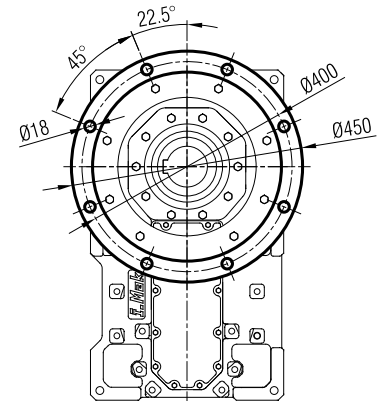
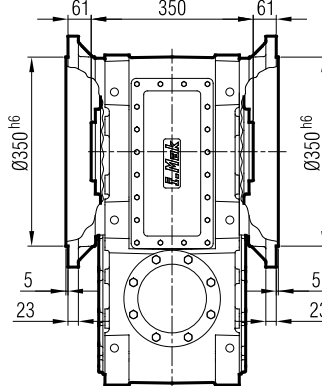
...-FL



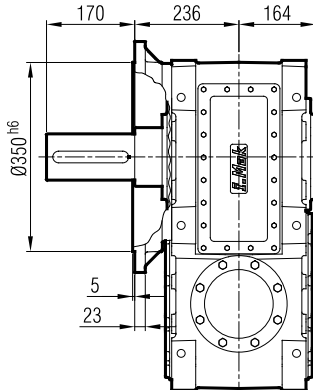
...-FR



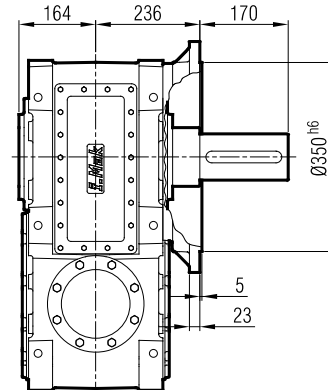
...-FD



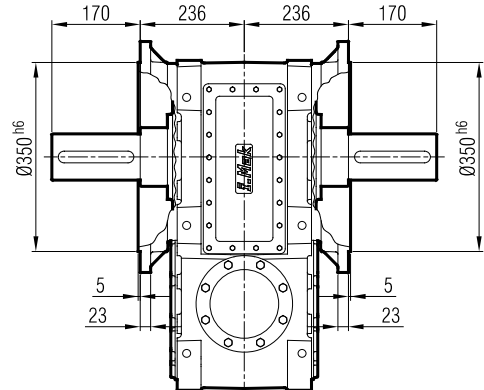
...-FL-SL



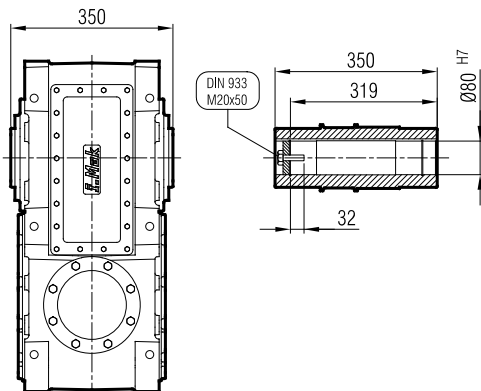
...-FR-SR



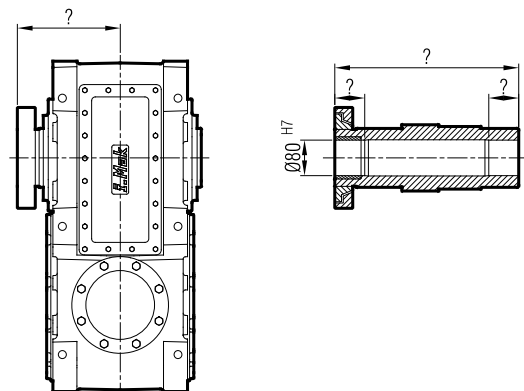
...-FD-SD



...-H

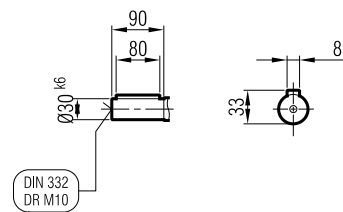
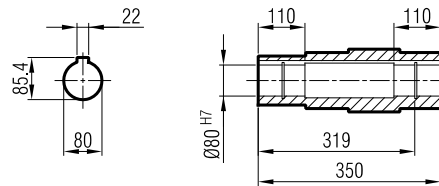
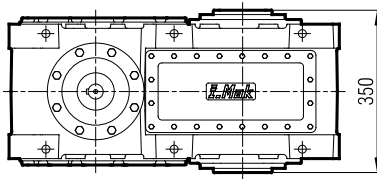
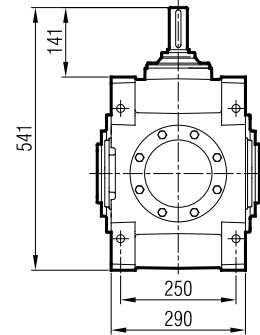
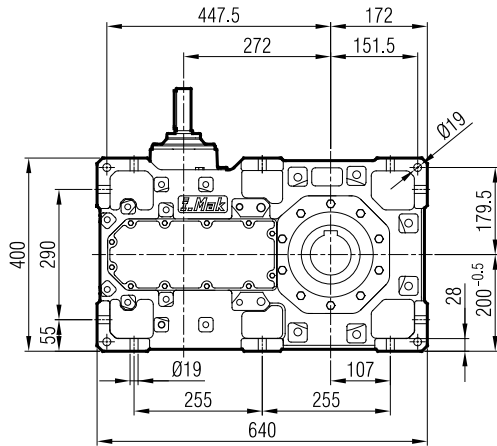


...-SDL / SDR



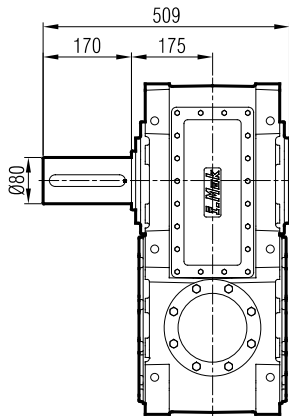


MK 403-G08

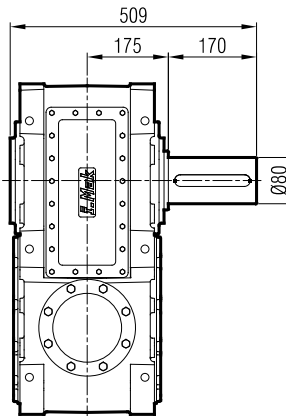




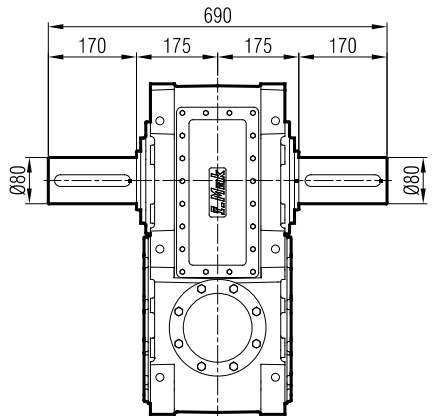
MA / MK 40_
...-SL



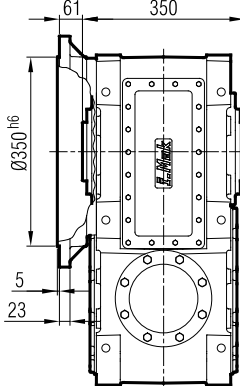
...-SR



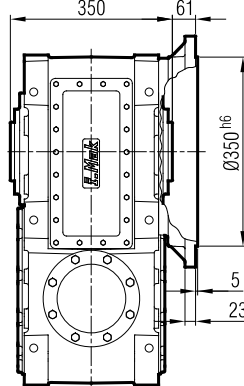
...-SD



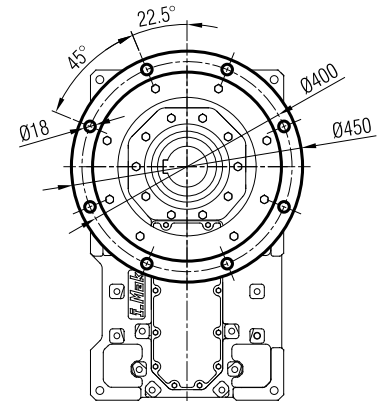
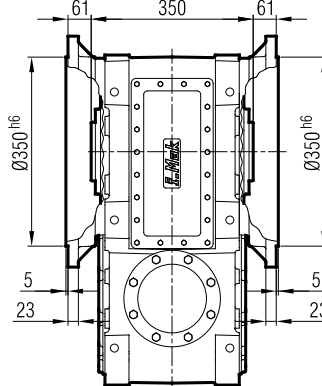
...-FL



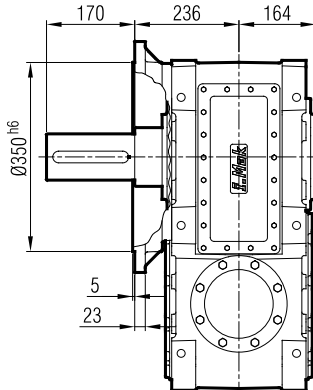
...-FR



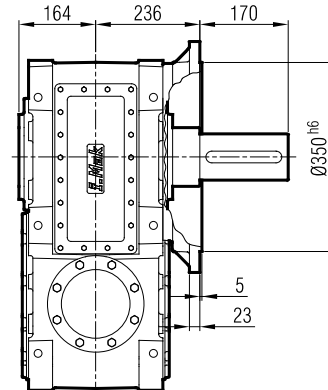
...-FD



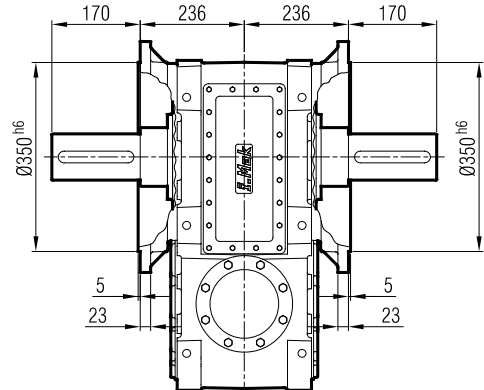
...-FL-SL



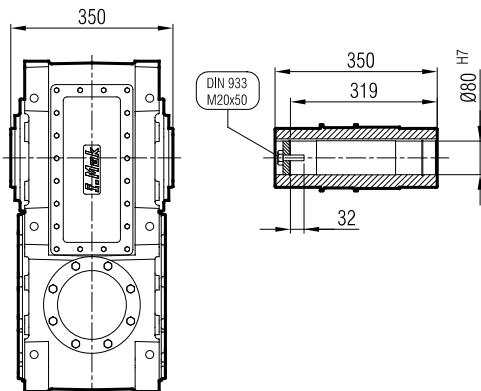
...-FR-SR



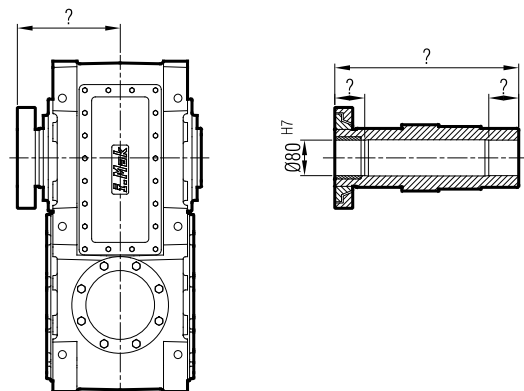
...-FD-SD



...-H

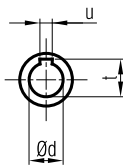
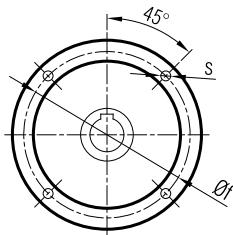
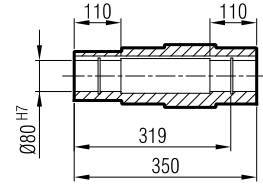
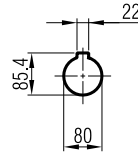
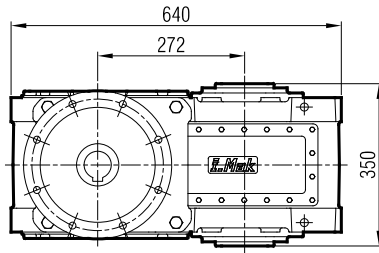
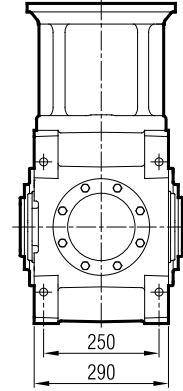
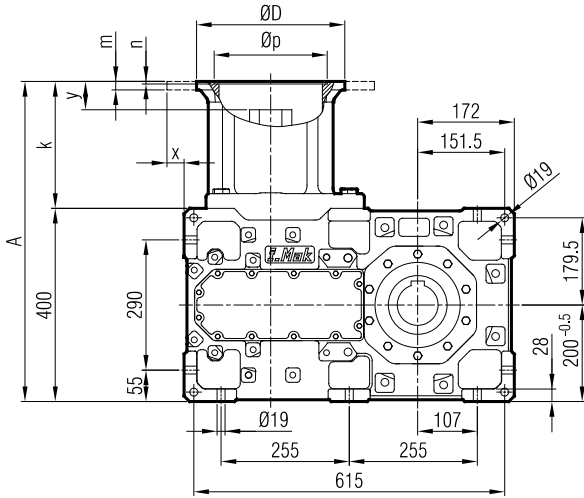


...-SDL / SDR





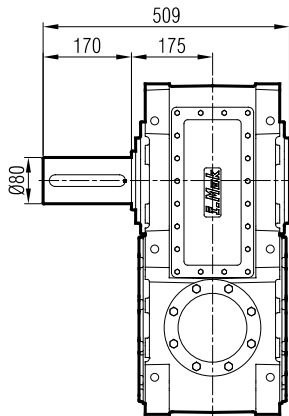
MKP 403-G10



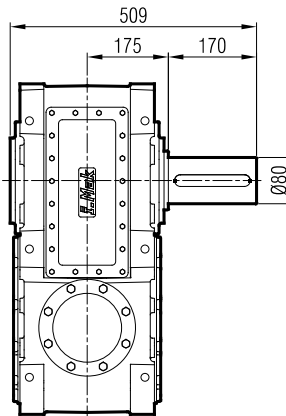
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
100/B5	606	180	215	250	M12	219	15	5	28	31.3	8	-	0
112/B5	606	180	215	250	M12	219	15	5	28	31.3	8	-	0
132/B5	626	230	265	300	M12	239	18	6	38	41.3	10	-	33
160/B5	658	250	300	350	M14	258	20	6	42	45.3	12	-	65
180/B5	658	250	300	350	M14	258	20	6	48	51.8	14	-	61
200/B5	658	300	350	400	M16	258	22	6	55	59.3	16	4	61



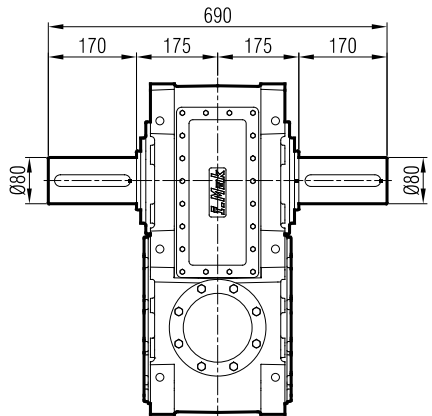
MA / MK 40_
...-SL



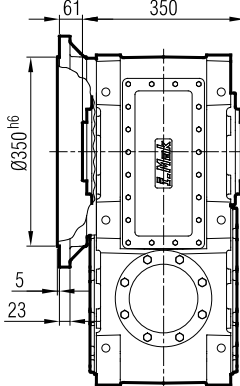
...-SR



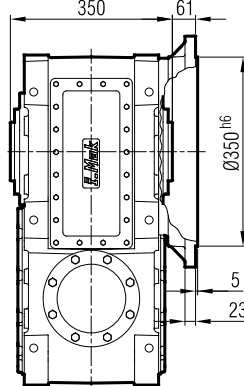
...-SD



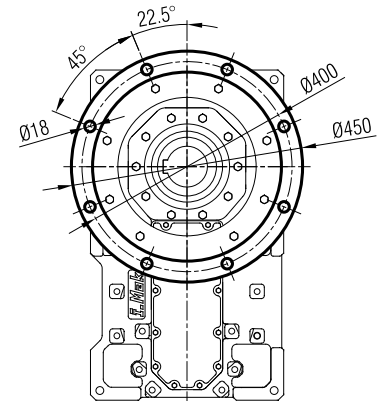
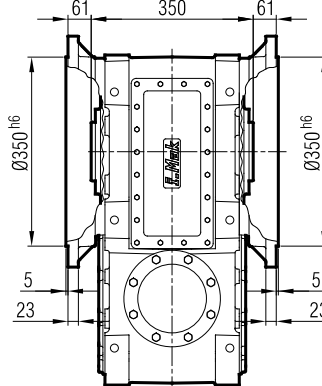
...-FL



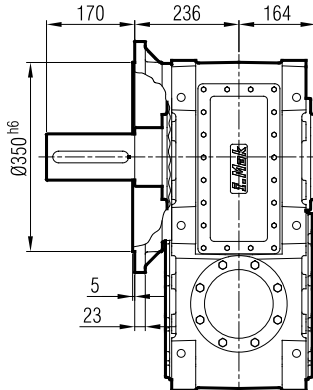
...-FR



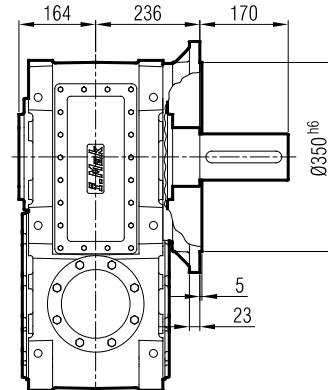
...-FD



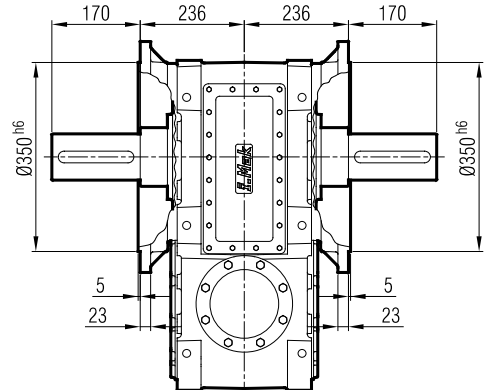
...-FL-SL



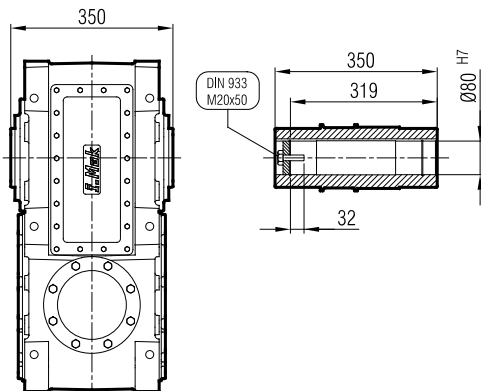
...-FR-SR



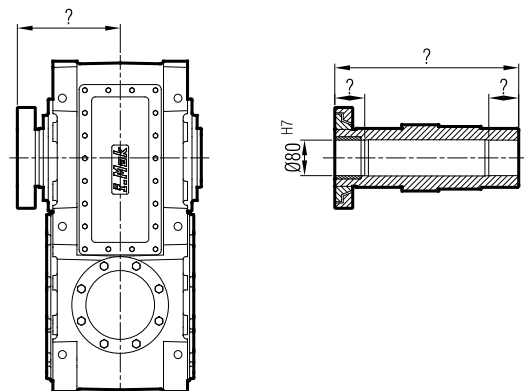
...-FD-SD



...-H

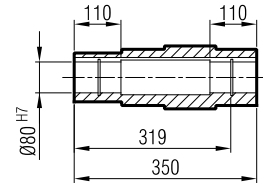
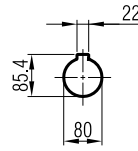
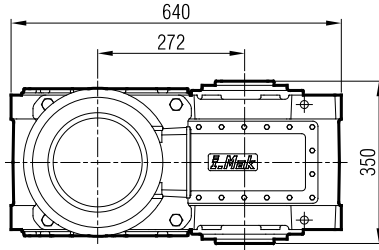
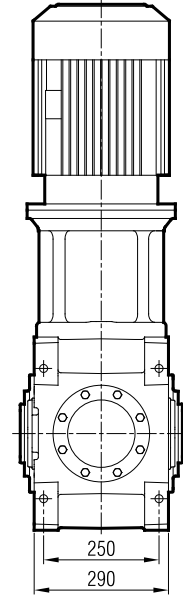
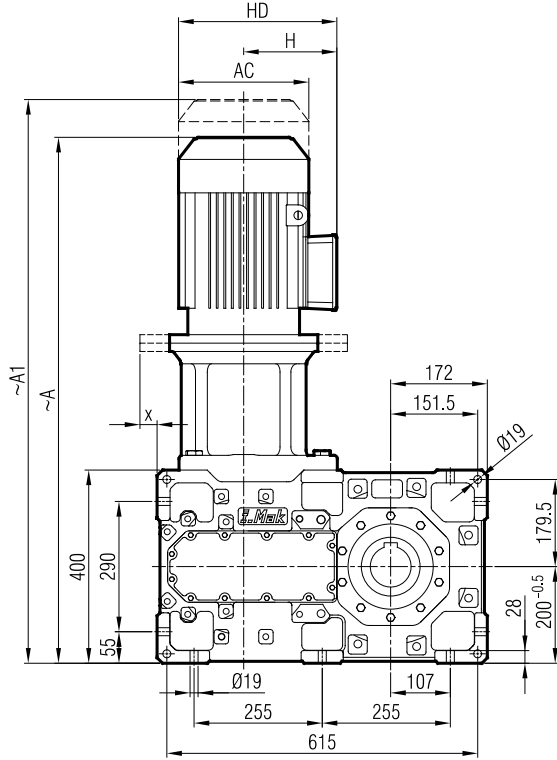


...-SDL / SDR





MKM 403-G10



	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 L/B5	160 L/B5	180 M/B5	180 L/B5	200 L/B5
A	978	950	1027	1068	1178	1223	1299	1299	1367
A1	1055	1045	1131	1172	1295	1340	1435	1435	1514
H	161	170	193	193	240	240	260	260	300
HD	261	282	325	325	400	400	440	440	500
AC	195	220	262	262	315	315	357	357	394
X	-	-	-	-	-	-	-	-	4

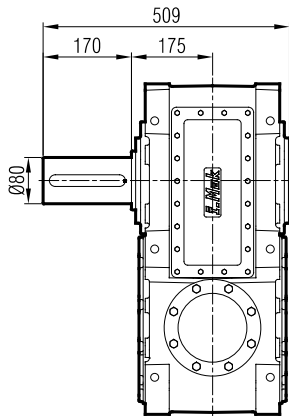
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

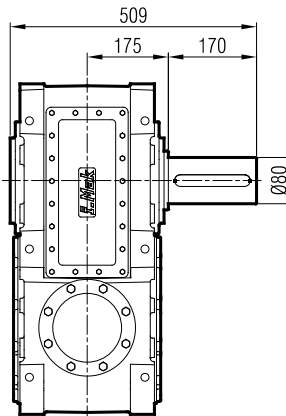
Le dimensions "A1" correspond aux moteurs équipés de freins.



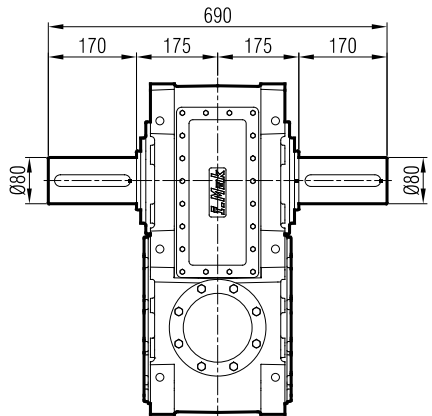
MA / MK 40_
...-SL



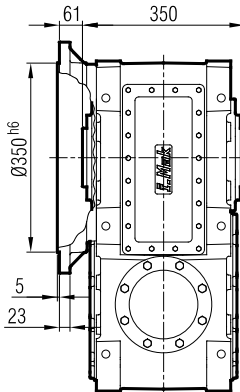
...-SR



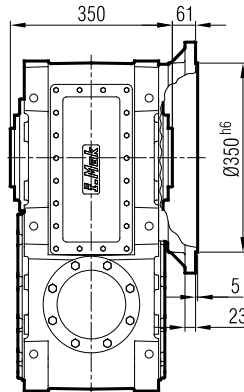
...-SD



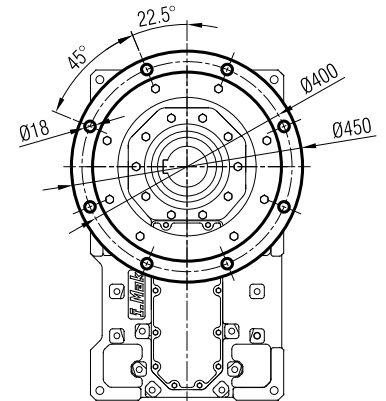
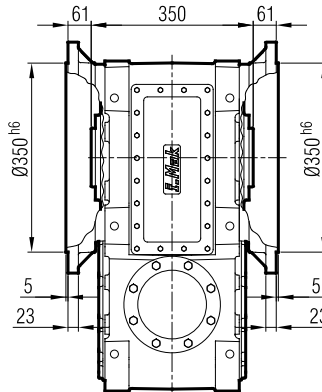
...-FL



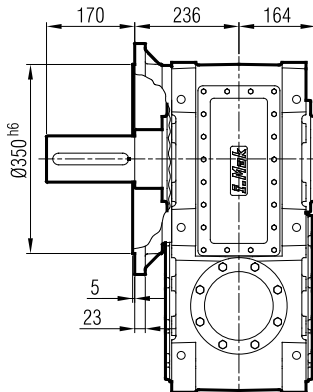
...-FR



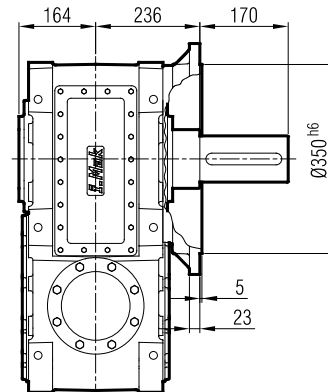
...-FD



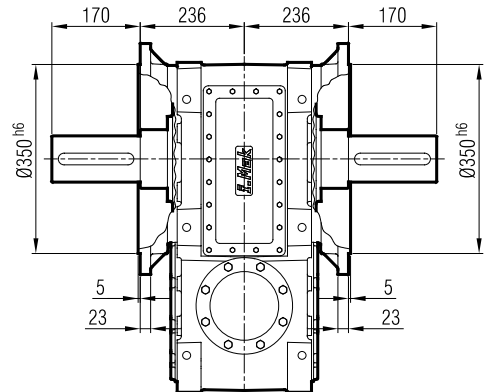
...-FL-SL



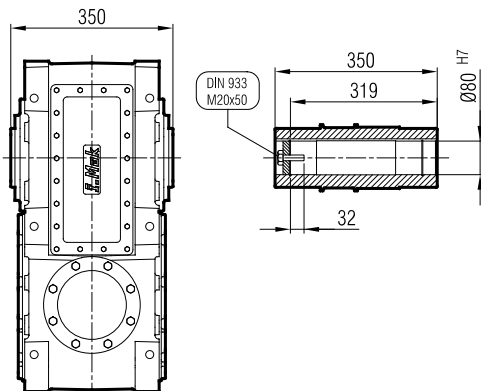
...-FR-SR



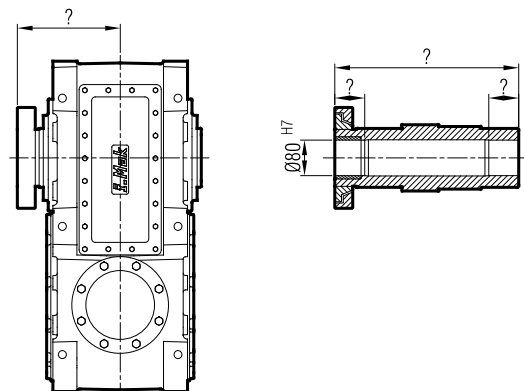
...-FD-SD

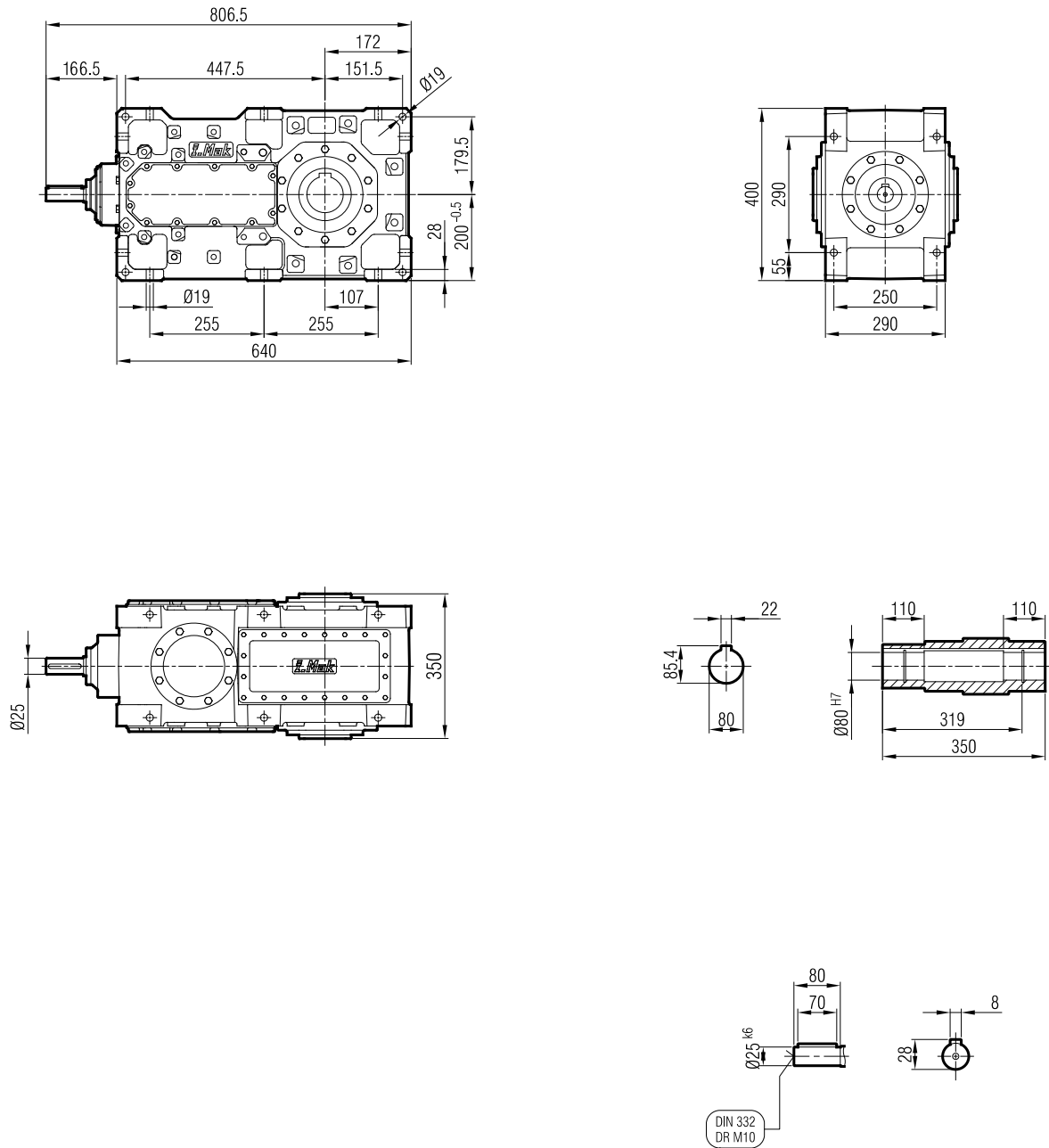


...-H



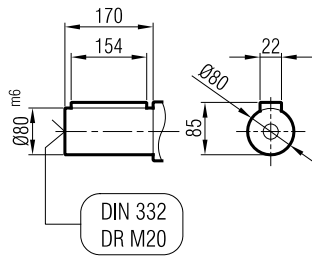
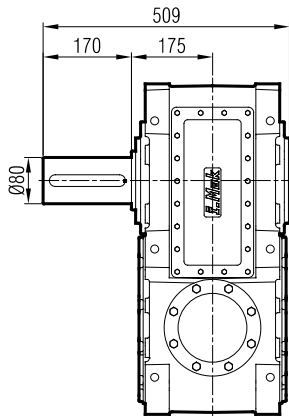
...-SDL / SDR



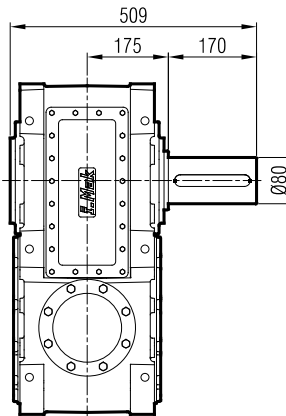
**MK 404-G07**



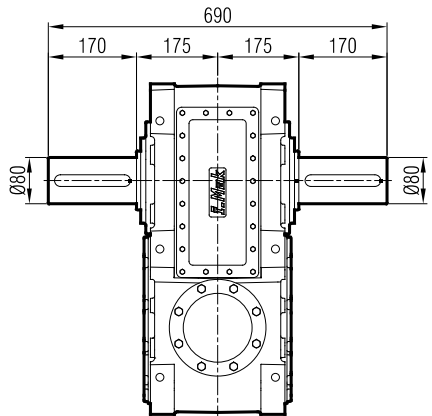
MA / MK 40_
...-SL



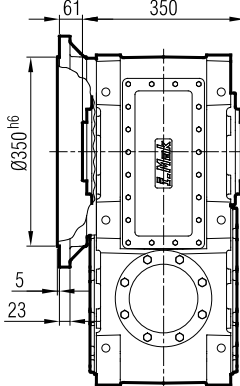
...-SR



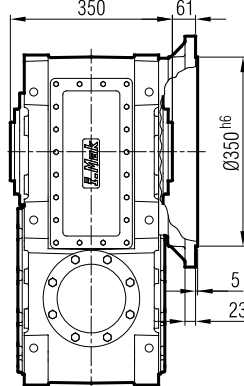
...-SD



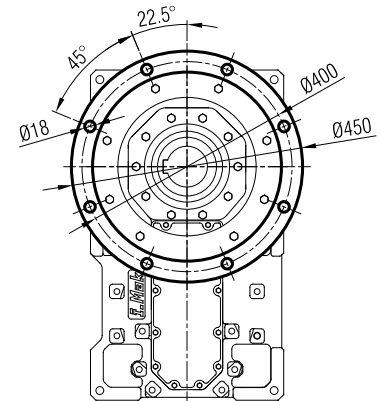
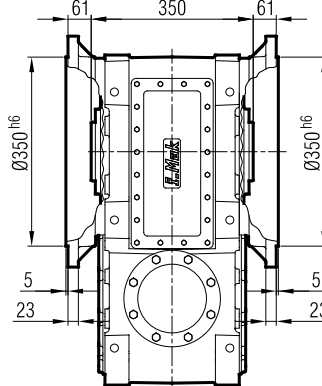
...-FL



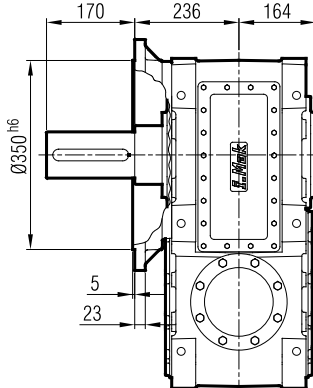
...-FR



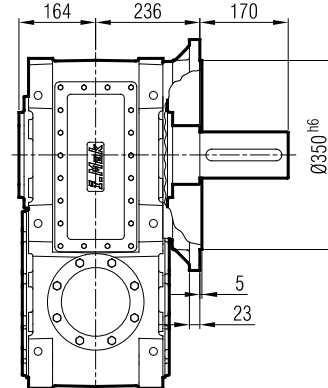
...-FD



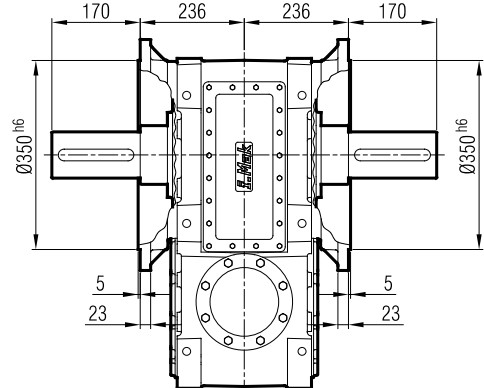
...-FL-SL



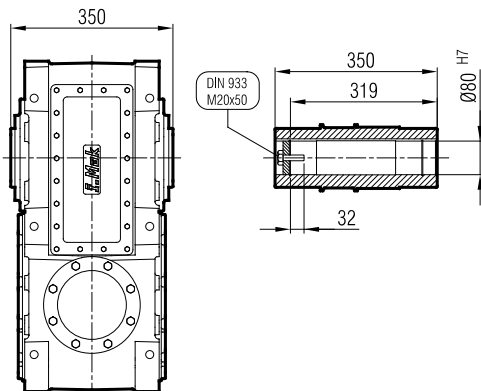
...-FR-SR



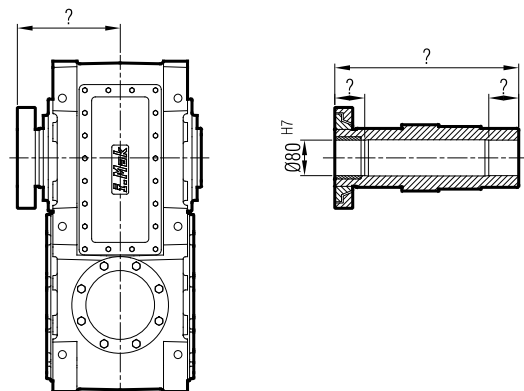
...-FD-SD



...-H

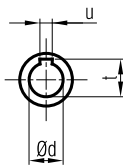
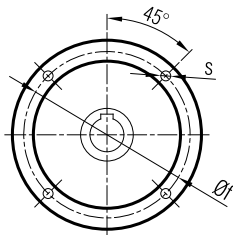
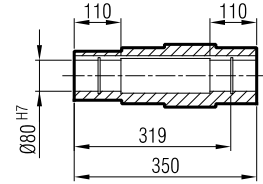
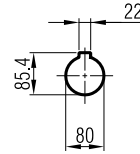
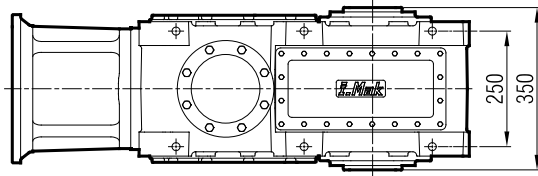
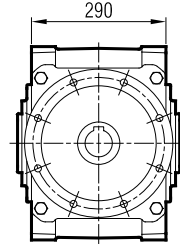
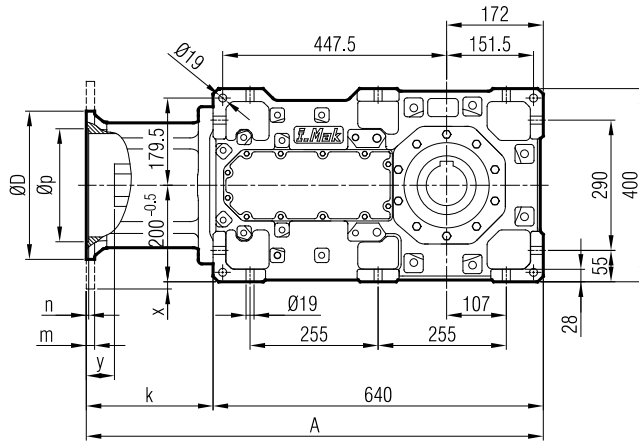


...-SDL / SDR





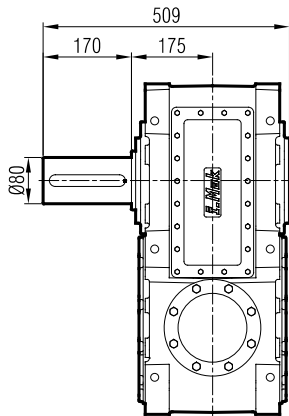
MKP 404-G09



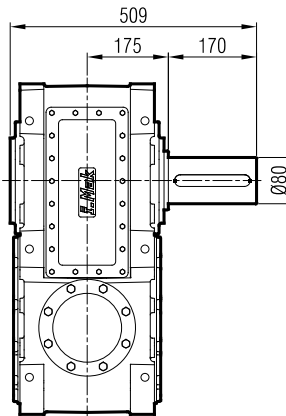
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
80/B5	869	130	168	200	M10	237.5	12	5	19	21.8	6	-	0
90/B5	869	130	168	200	M10	237.5	12	5	24	27.3	8	-	0
100/B5	894	180	215	250	M12	262.5	15	5	28	31.3	8	-	14
112/B5	894	180	215	250	M12	262.5	15	5	28	31.3	8	-	14
132/B5	914	230	265	300	M12	282.5	18	6	38	41.3	10	-	34



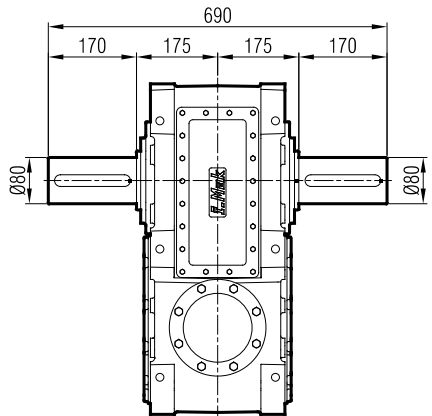
MA / MK 40_
...-SL



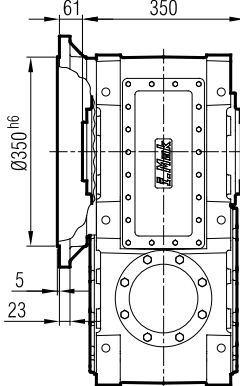
...-SR



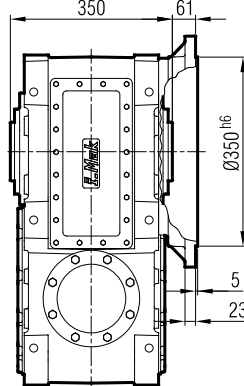
...-SD



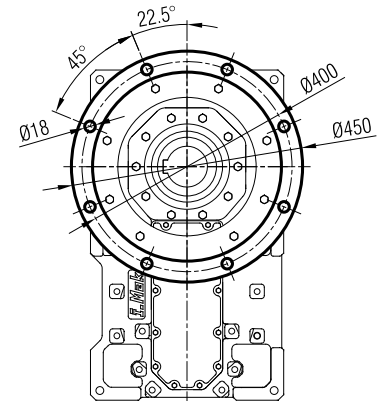
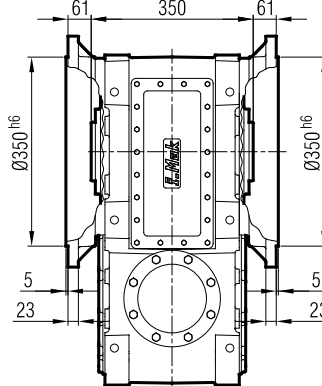
...-FL



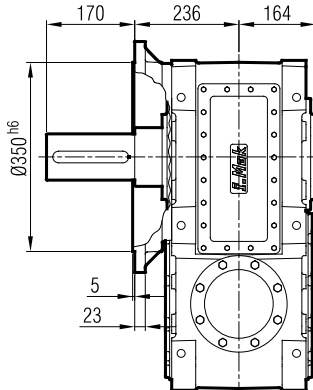
...-FR



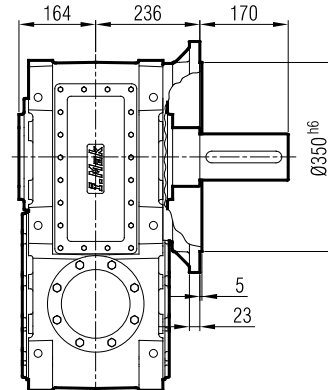
...-FD



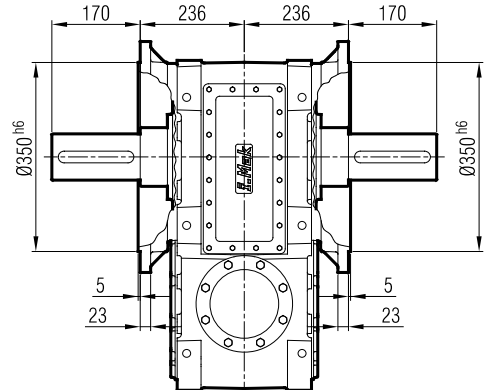
...-FL-SL



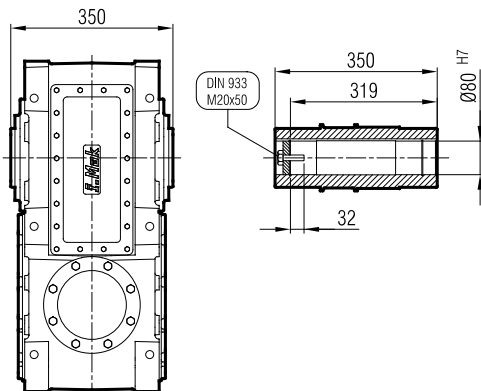
...-FR-SR



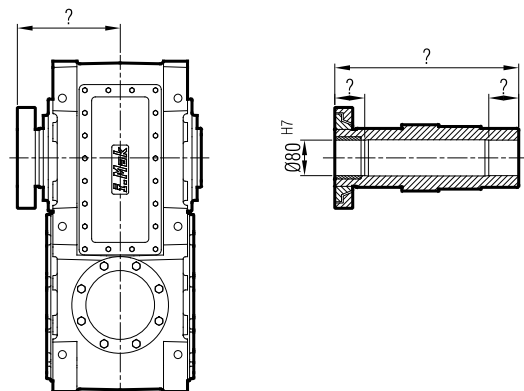
...-FD-SD



...-H

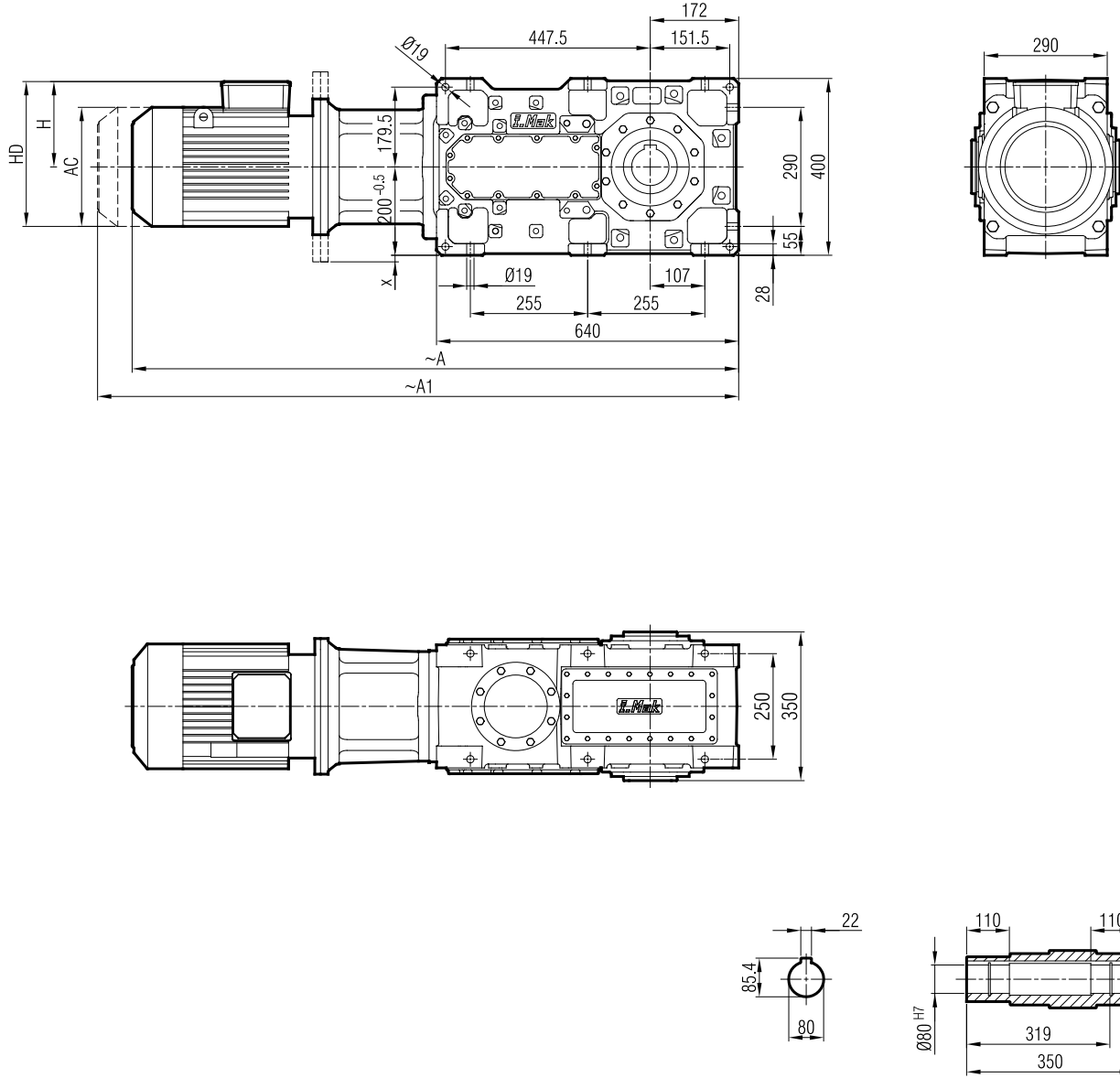


...-SDL / SDR





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	80 M/B5	90 S/B5	90 L/B5	100 L/B5	112 M/B5	132 S/B5
A	1162	1171	1209	1266	1237	1315
A1	1223	1238	1276	1343	1332	1419
H	136	141	141	161	170	193
HD	216	231	231	261	282	325
AC	158	176	176	195	220	262
x	-	-	-	-	-	-

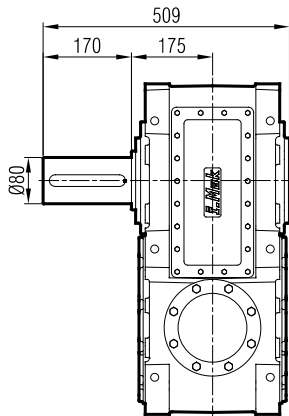
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

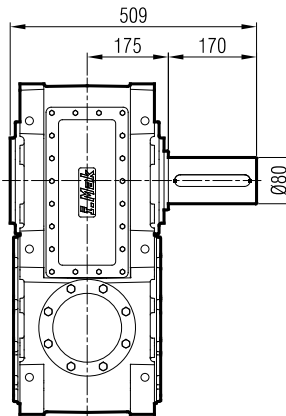
Le dimensions "A1" correspond aux moteurs équipés de freins.



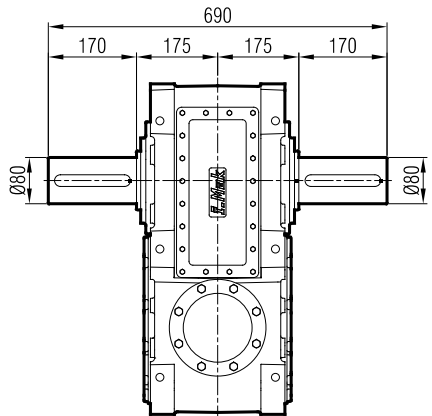
MA / MK 40_
...-SL



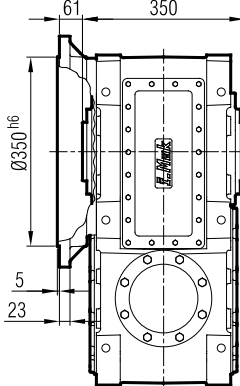
...-SR



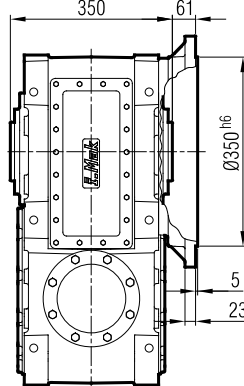
...-SD



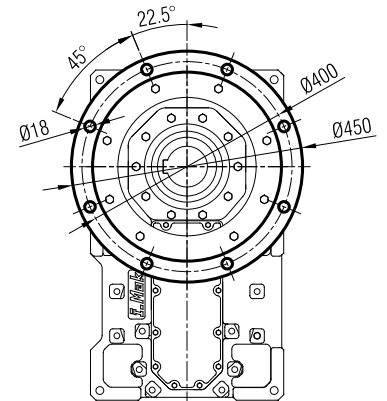
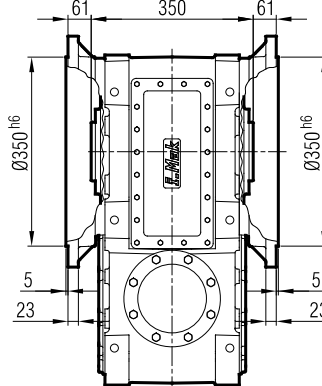
...-FL



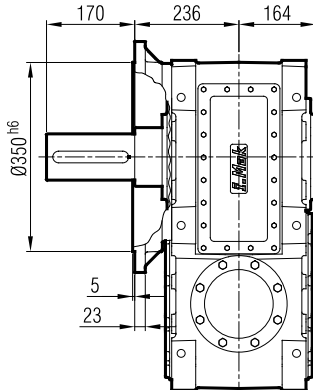
...-FR



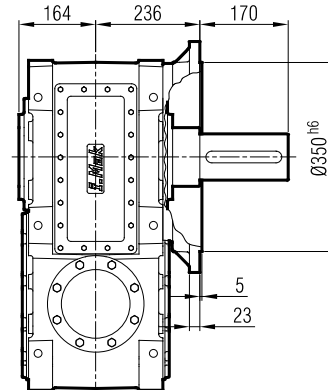
...-FD



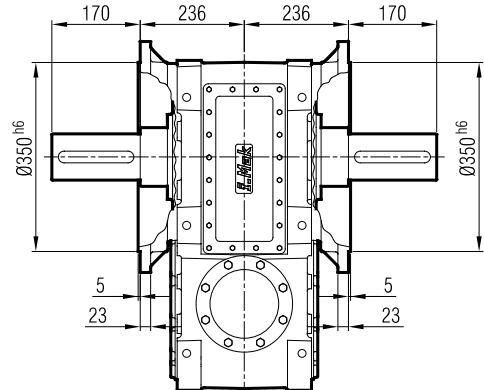
...-FL-SL



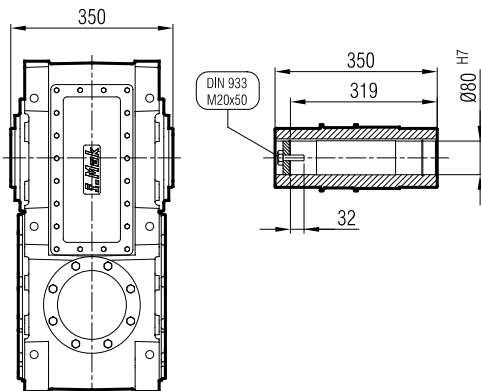
...-FR-SR



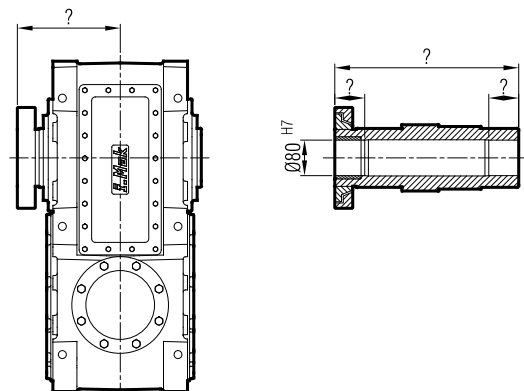
...-FD-SD



...-H

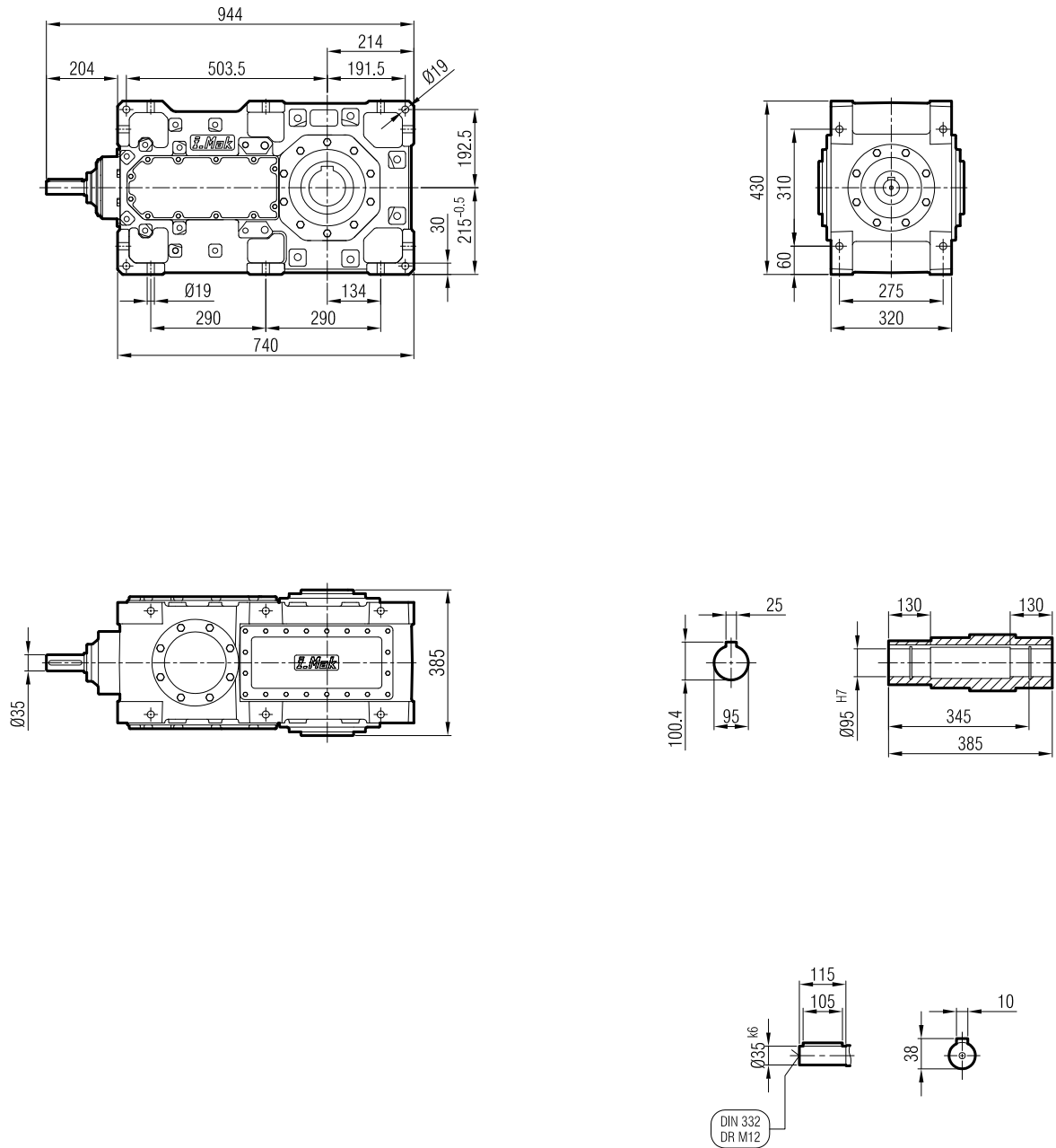


...-SDL / SDR



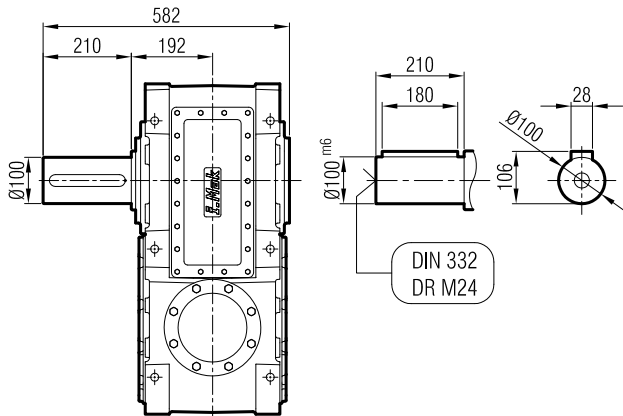


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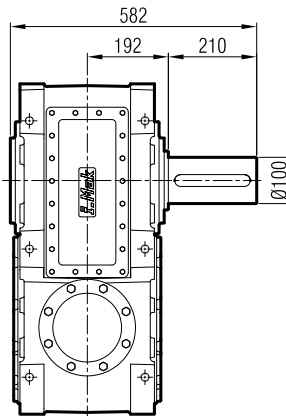




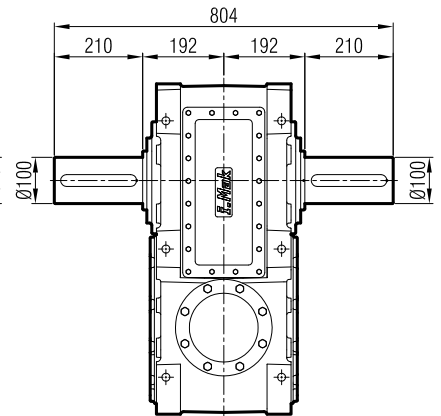
MA / MK 50_
...-SL



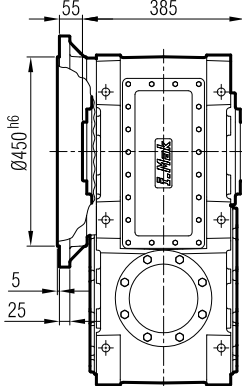
...-SR



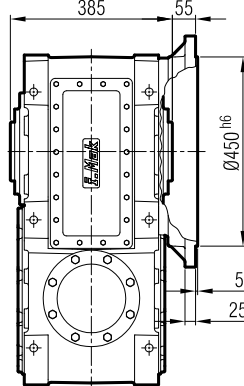
...-SD



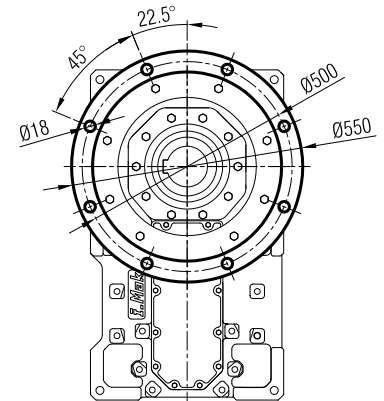
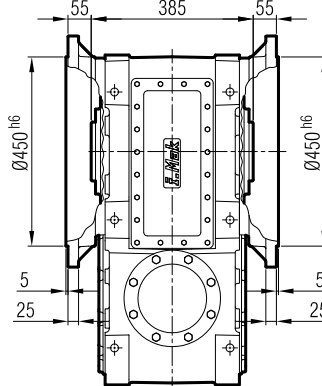
...-FL



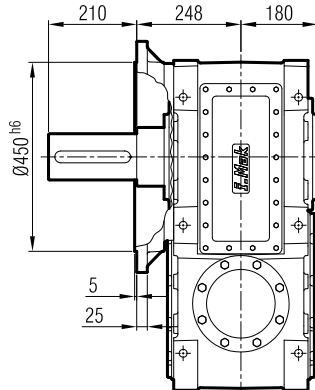
...-FR



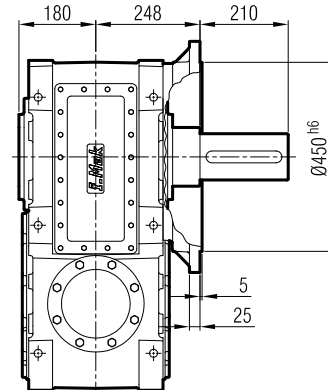
...-FD



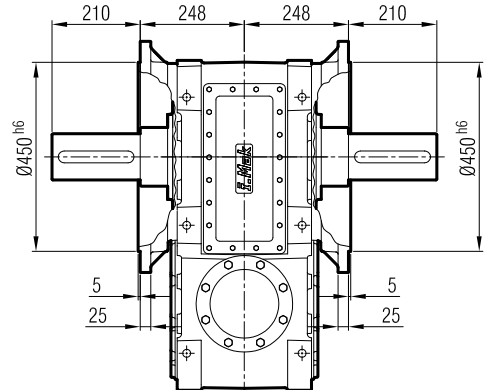
...-FL-SL



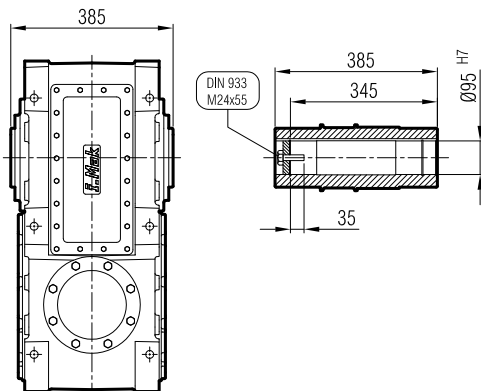
...-FR-SR



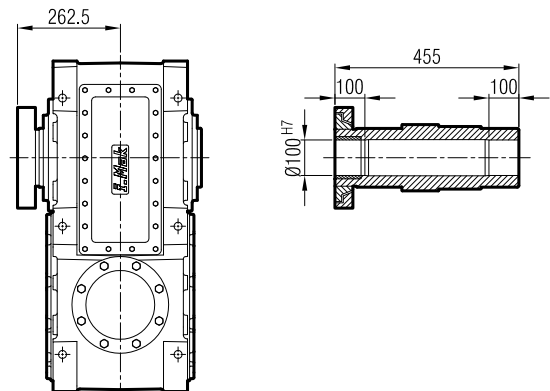
...-FD-SD

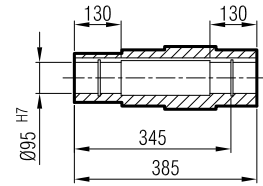
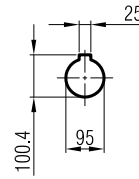
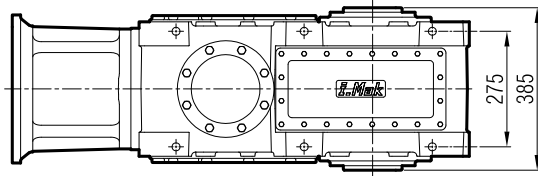
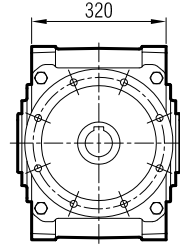
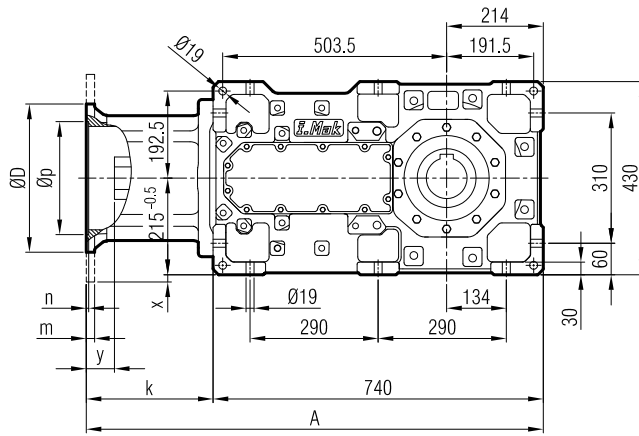


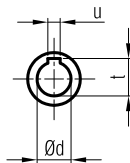
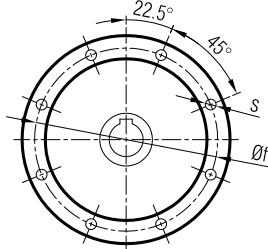
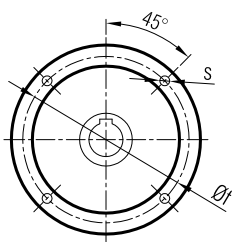
...-H



...-SDL / SDR



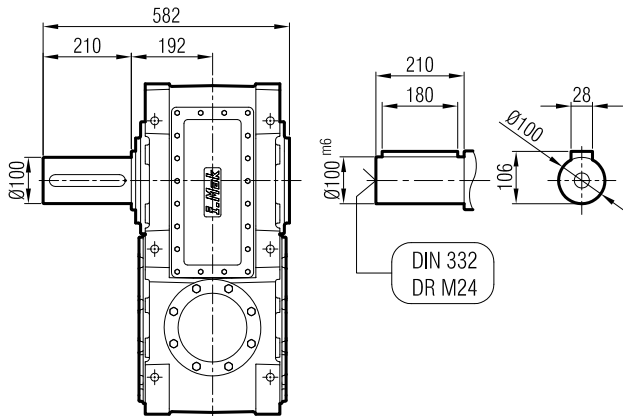

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 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


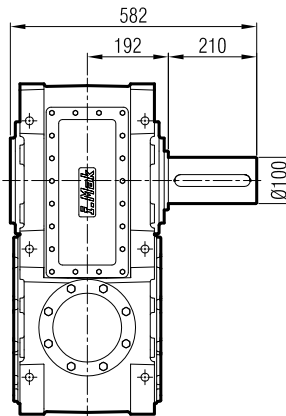
	A	$\emptyset p$	$\emptyset f$	$\emptyset D$	s	k	m	n	$\emptyset d$	t	u	x	y
112/B5	1007	180	215	250	M12	273	15	5	28	31.3	8	-	15
132/B5	1027	230	265	300	M12	293	18	6	38	41.3	10	-	20
160/B5	1057	250	300	350	M14	317	20	6	42	45.3	12	-	60
180/B5	1057	250	300	350	M14	317	20	6	48	51.8	14	-	60
200/B5	1057	300	350	400	M16	317	22	6	55	59.3	16	-	60
225/B5	1100	350	400	450	M16	360	22	6	60	64.4	18	10	80
250/B5	1100	450	500	550	M16	360	25	6.5	65	69.4	18	60	75



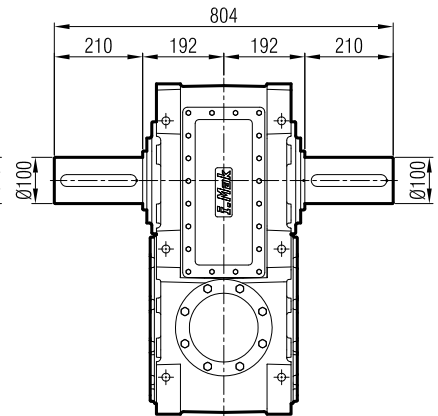
MA / MK 50_
...-SL



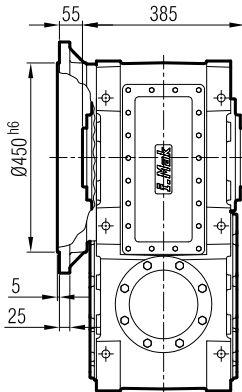
...-SR



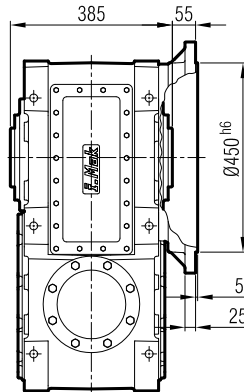
...-SD



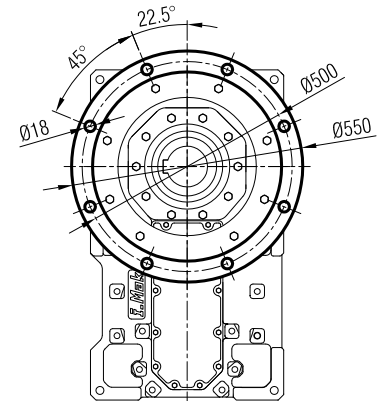
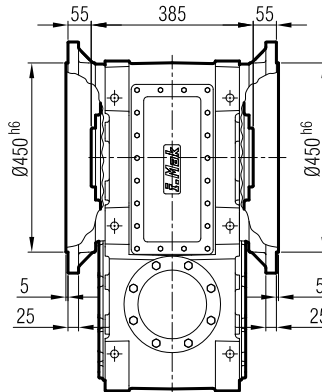
...-FL



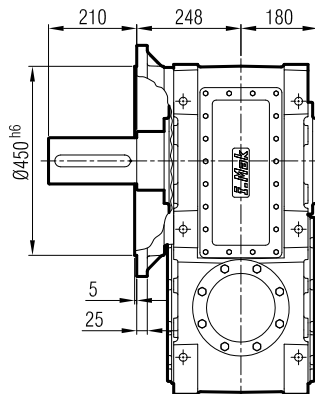
...-FR



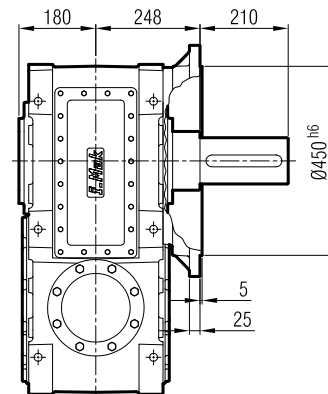
...-FD



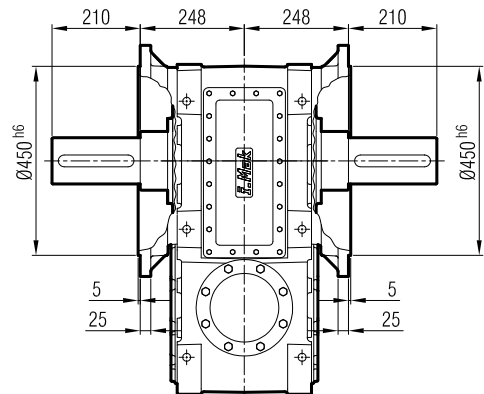
...-FL-SL



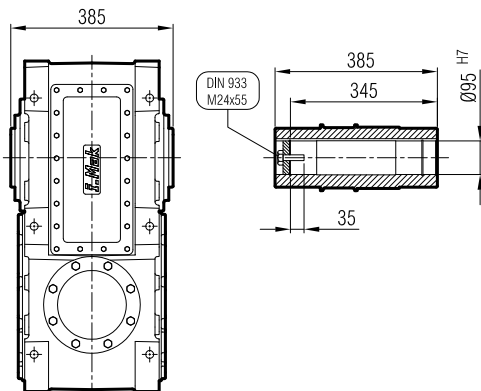
...-FR-SR



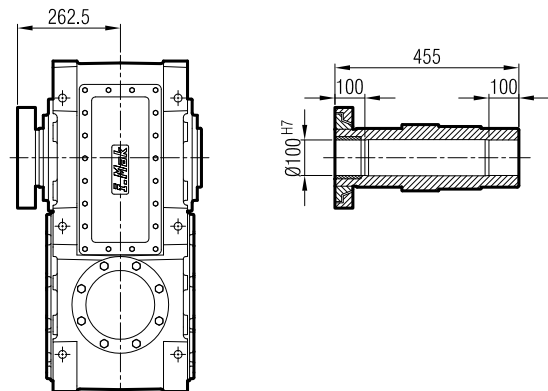
...-FD-SD



...-H

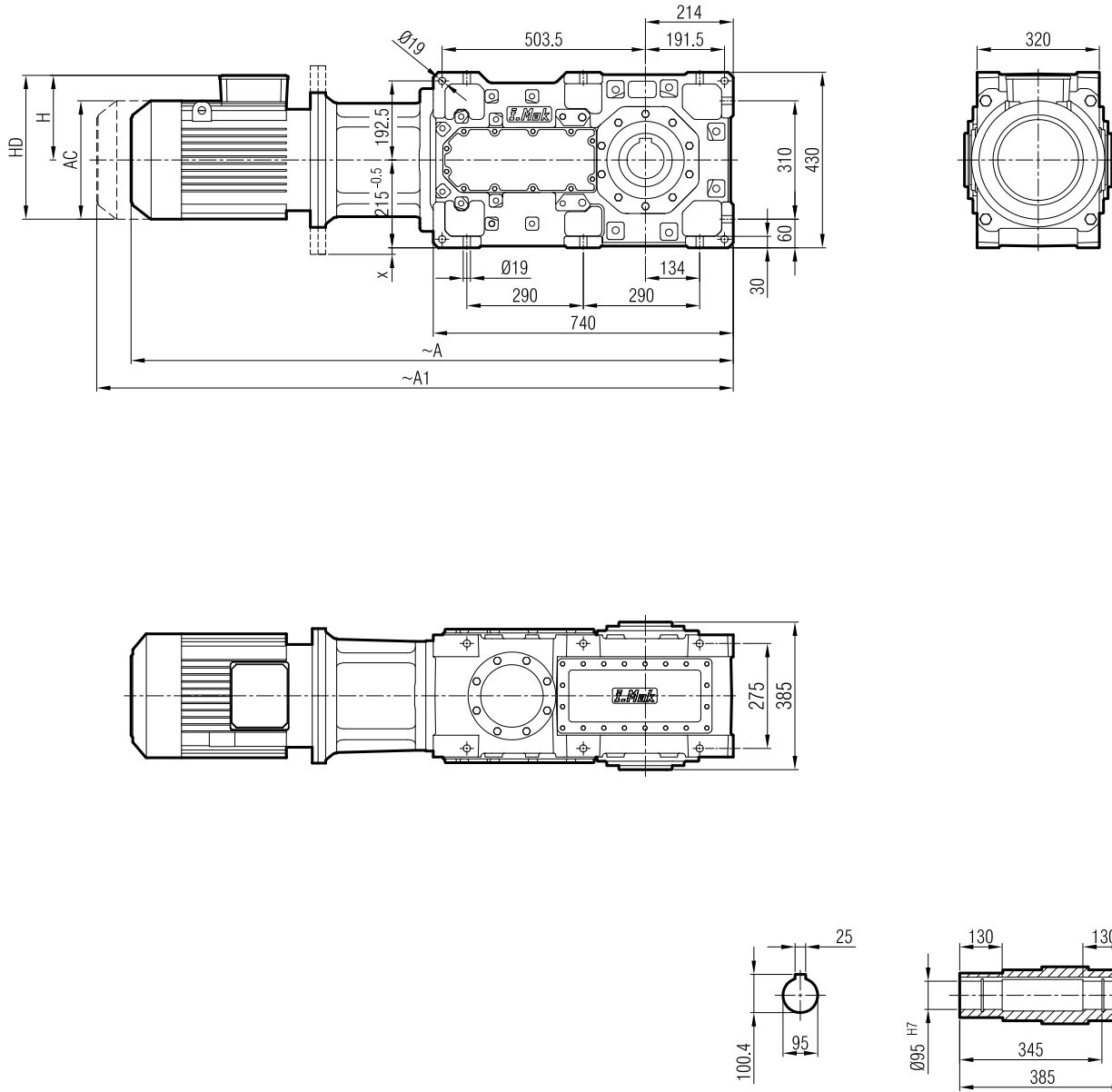


...-SDL / SDR





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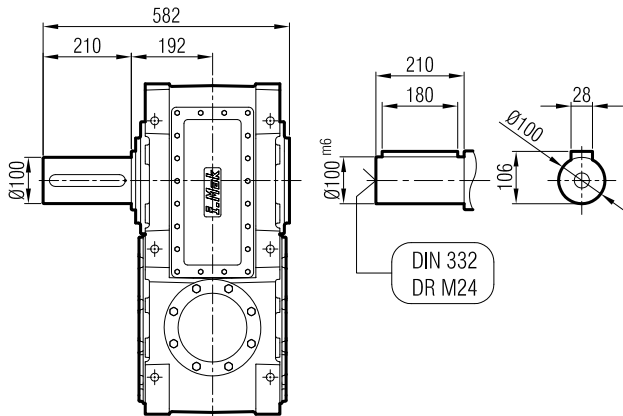
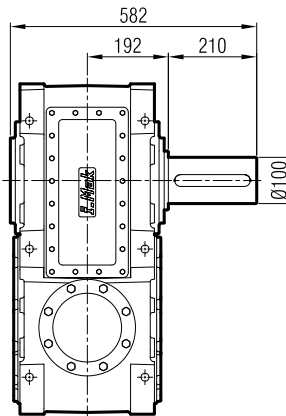
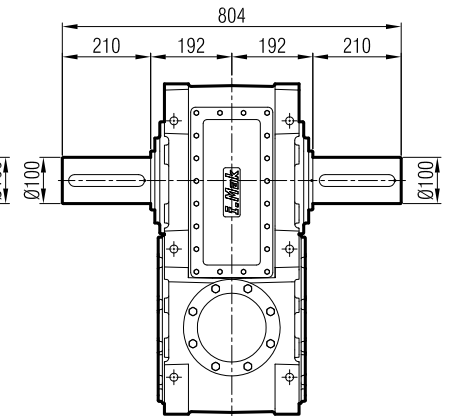
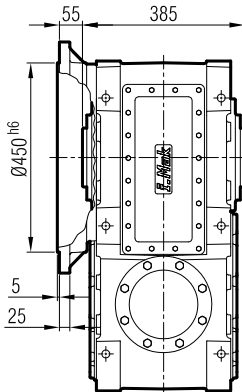
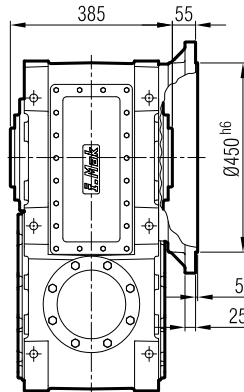
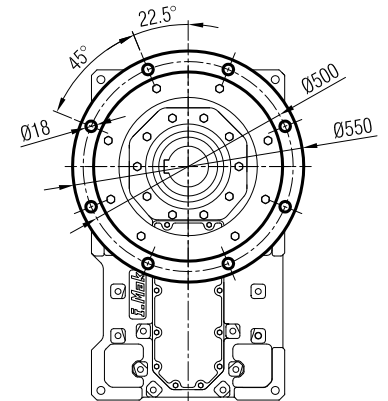
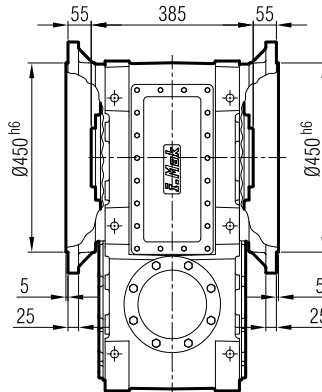
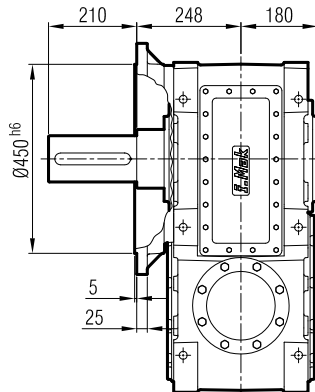
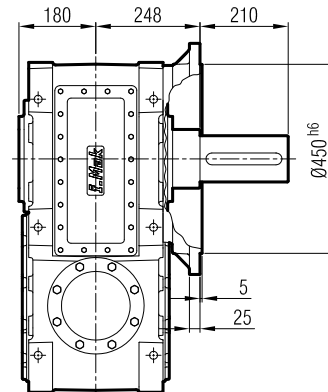
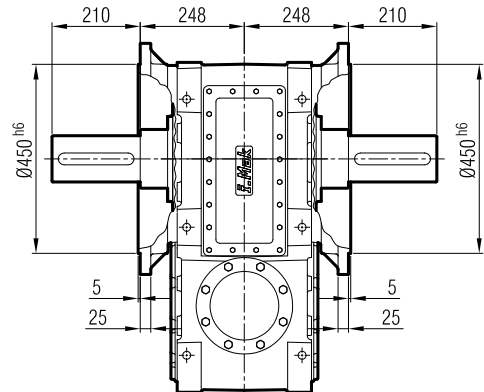
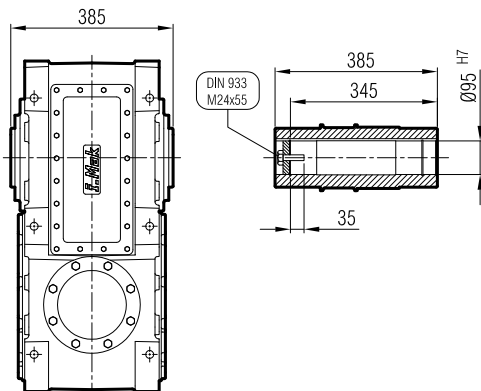
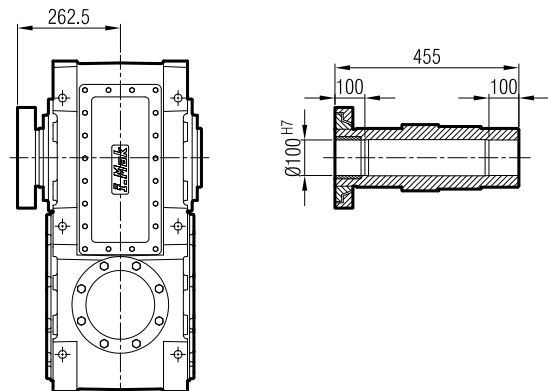


	112 M/B5	132 S/B5	132 M/B5	160 L/B5	160 L/B5	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5
A	1351	1428	1469	1577	1622	1698	1698	1766	1785	1845	1895
A1	1446	1532	1573	1694	1739	1834	1834	1913	1932	1992	2042
H	170	193	193	240	240	260	260	300	313	313	366
HD	282	325	325	400	400	440	440	500	538	538	618
AC	220	262	262	315	315	357	357	394	456	456	489
x	-	-	-	-	-	-	-	-	13	13	60

"A1" Ölçüsü Frenli Motorlar içindir.

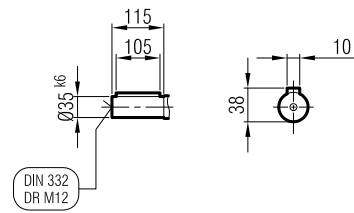
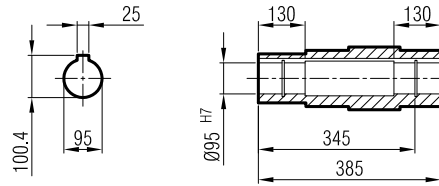
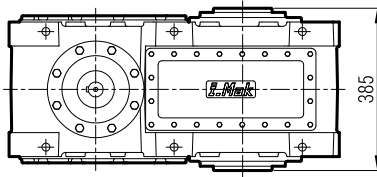
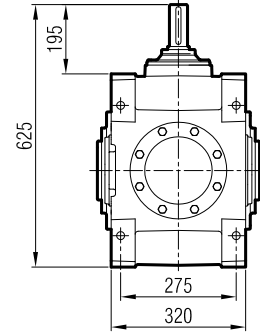
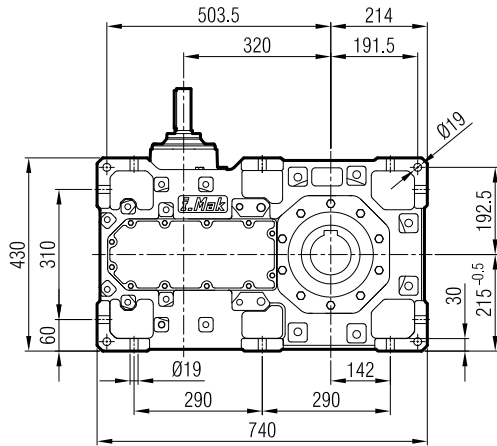
Dimension "A1" is for motors with brake.

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


MA / MK 50_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR


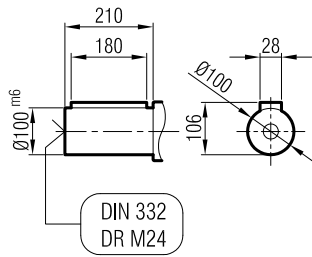
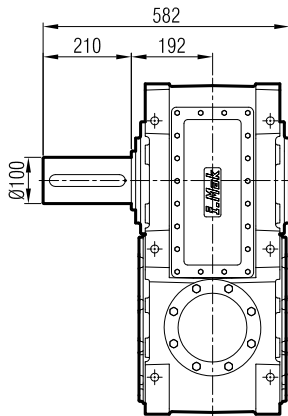


MK 503-G08

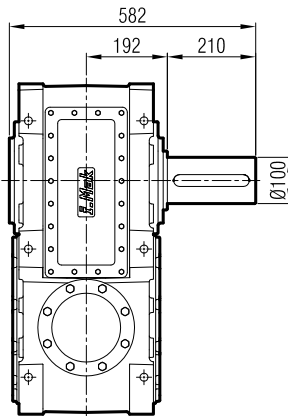




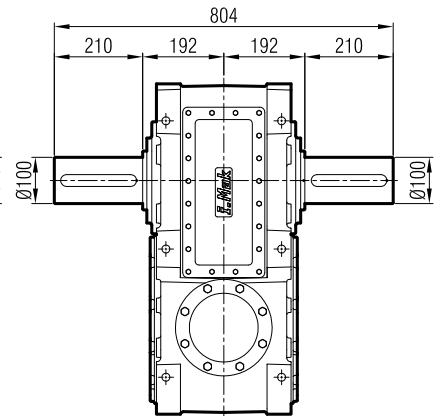
MA / MK 50_
...-SL



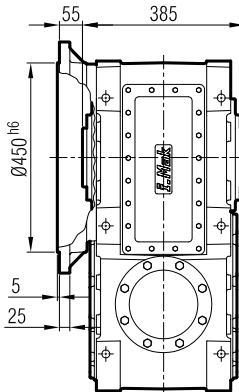
...-SR



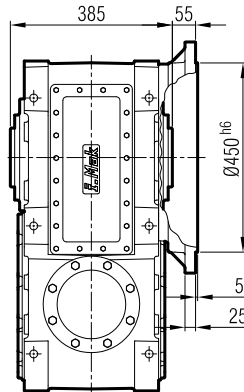
...-SD



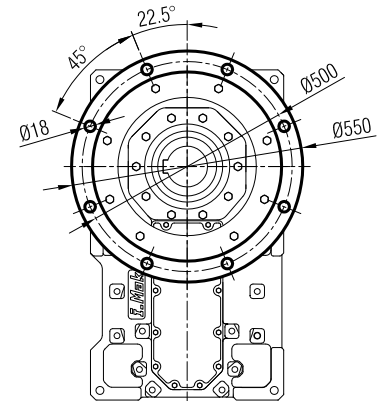
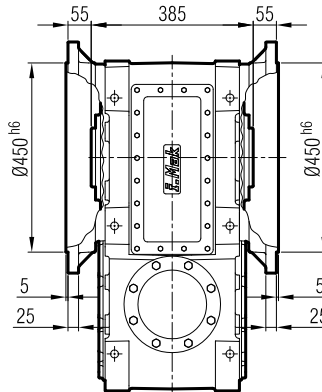
...-FL



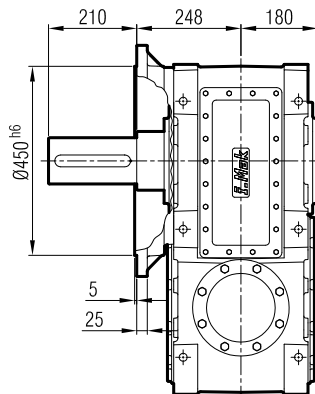
...-FR



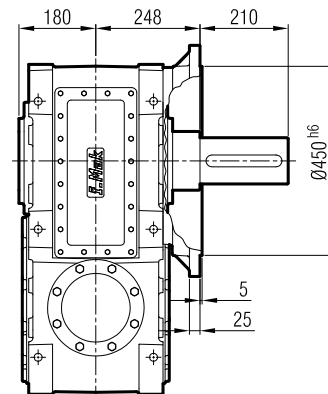
...-FD



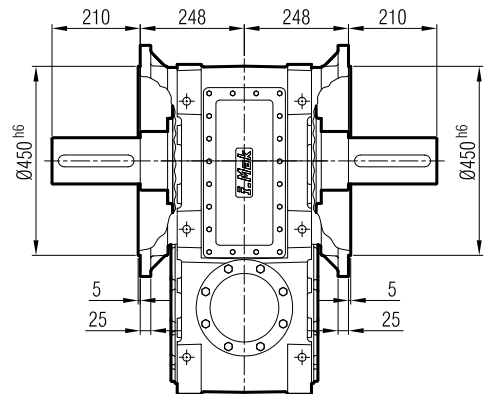
...-FL-SL



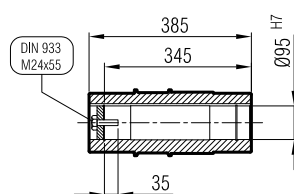
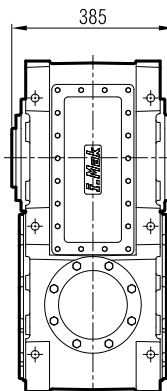
...-FR-SR



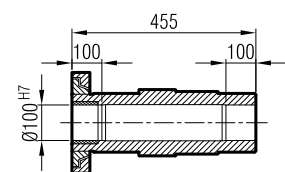
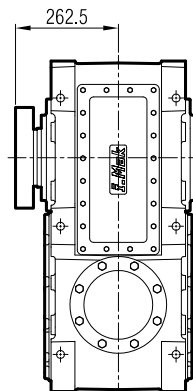
...-FD-SD

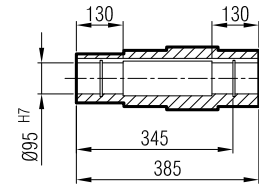
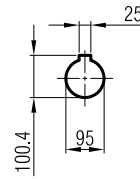
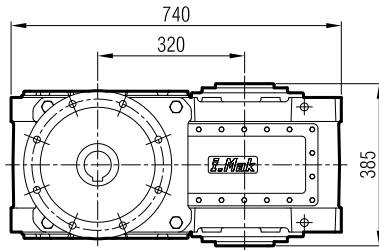
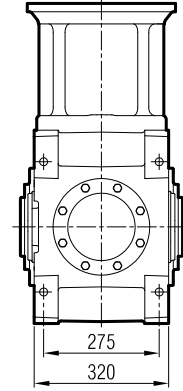
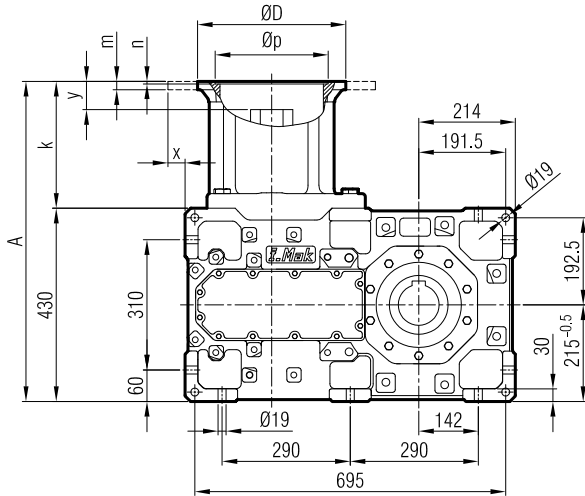
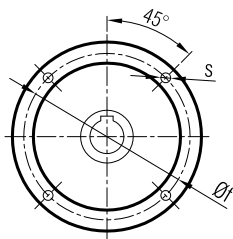
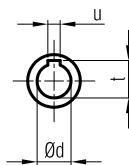
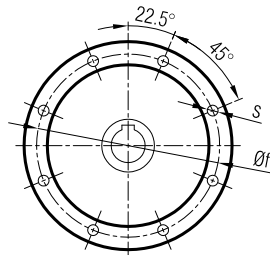


...-H



...-SDL / SDR

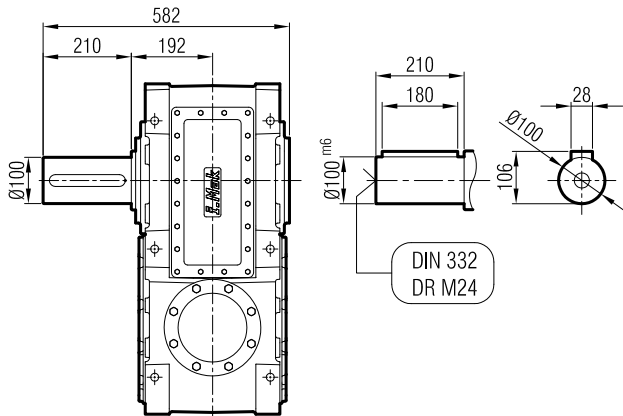



MKP 503-G10

 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


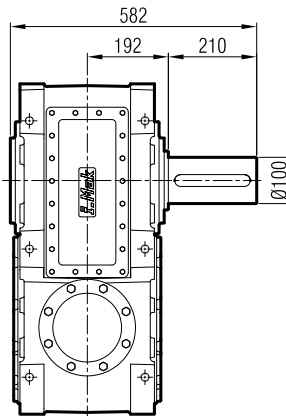
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	688	180	215	250	M12	273	15	5	28	31.3	8	-	15
132/B5	708	230	265	300	M12	293	18	6	38	41.3	10	-	20
160/B5	738	250	300	350	M14	308	20	6	42	45.3	12	-	60
180/B5	738	250	300	350	M14	308	20	6	48	51.8	14	-	60
200/B5	738	300	350	400	M16	308	22	6	55	59.3	16	-	60
225/B5	781	350	400	450	M16	351	22	6	60	64.4	18	19	80
250/B5	781	450	500	550	M16	351	25	6.5	65	69.4	18	69	75



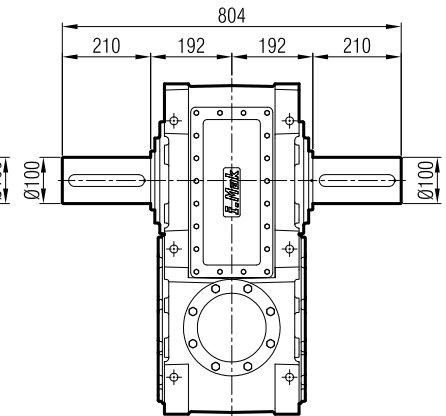
MA / MK 50_
...-SL



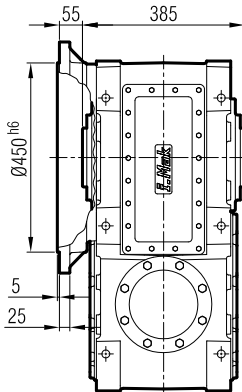
...-SR



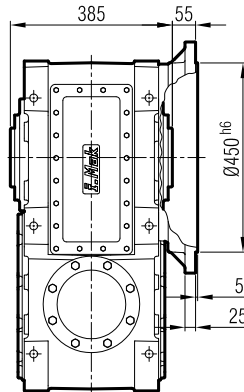
...-SD



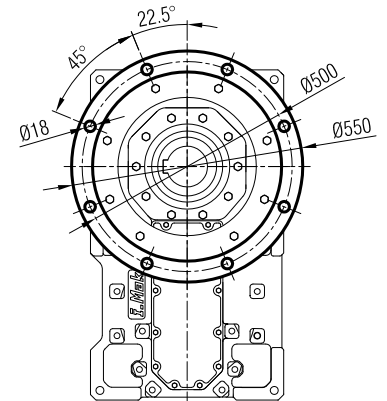
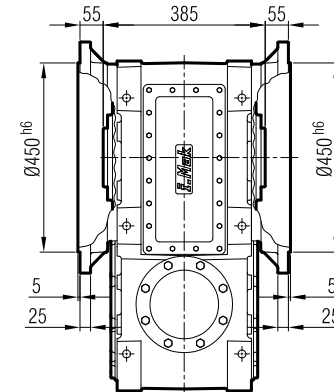
...-FL



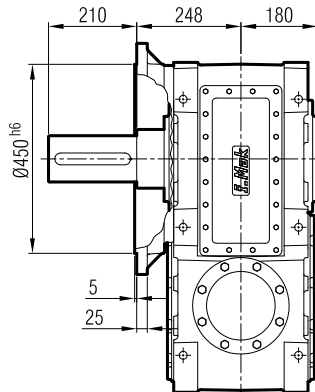
...-FR



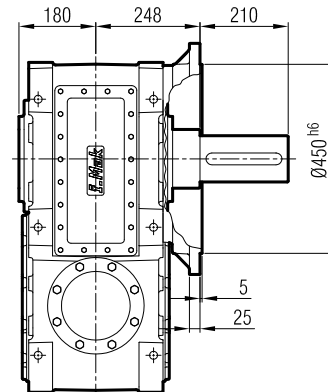
...-FD



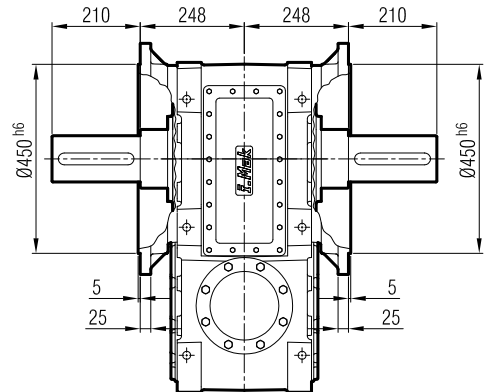
...-FL-SL



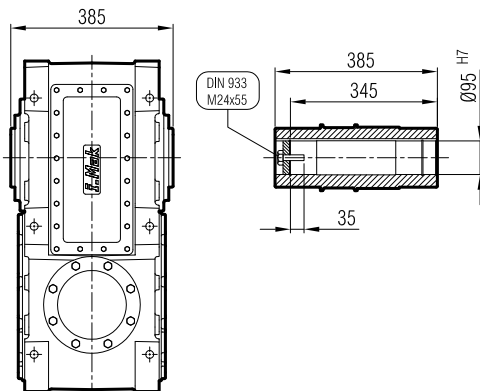
...-FR-SR



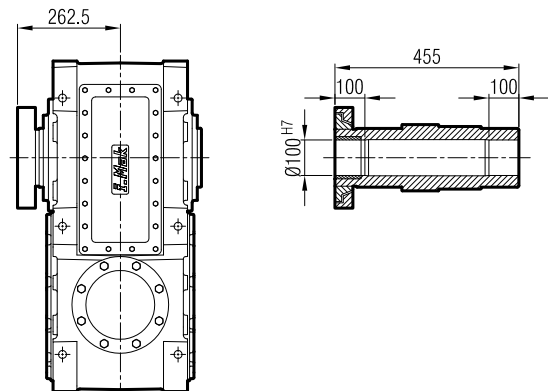
...-FD-SD



...-H

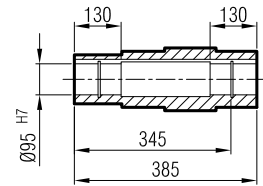
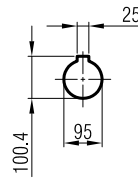
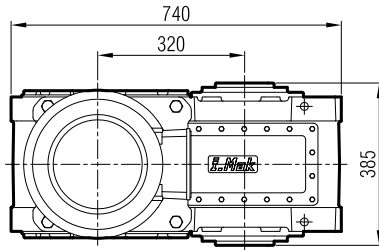
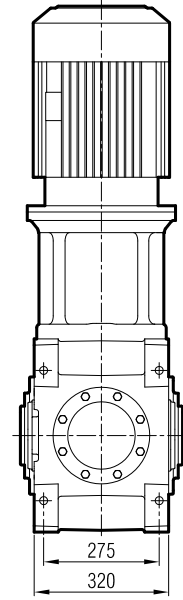
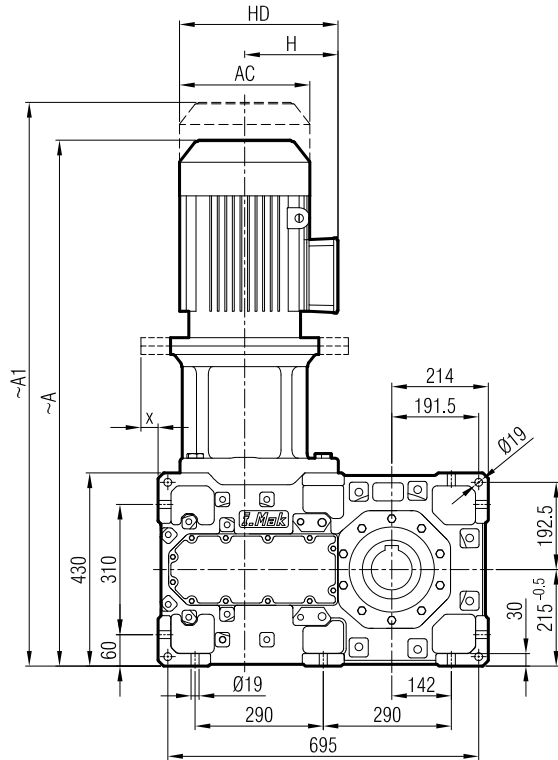


...-SDL / SDR





MKM 503-G10

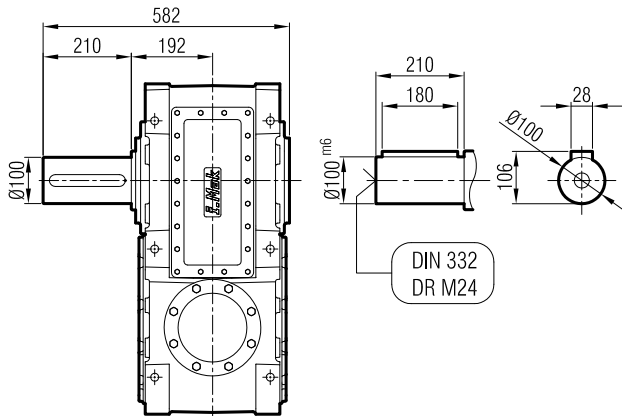
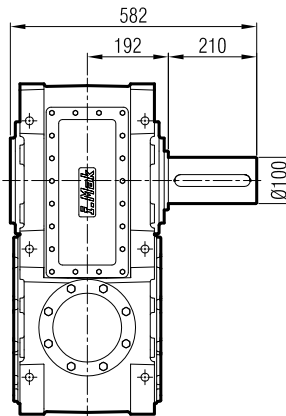
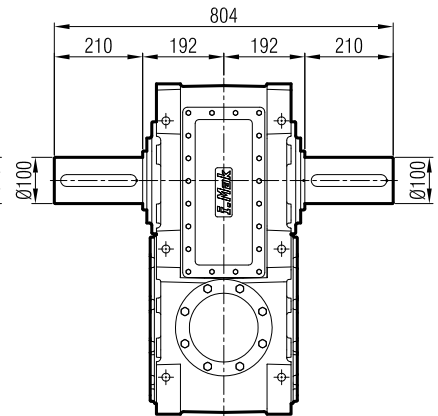
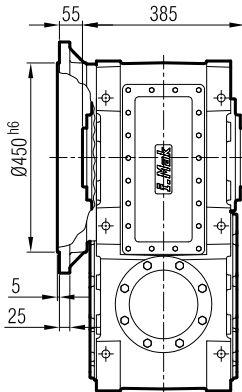
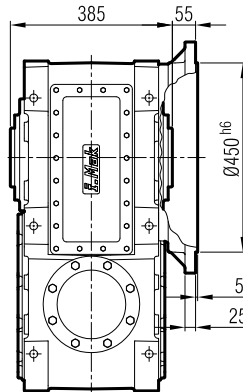
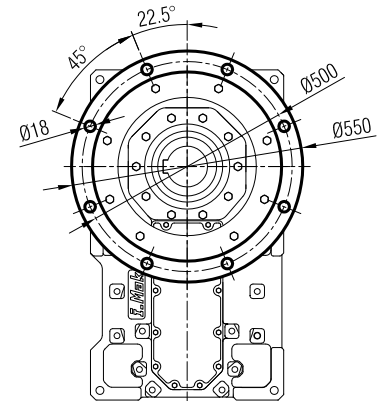
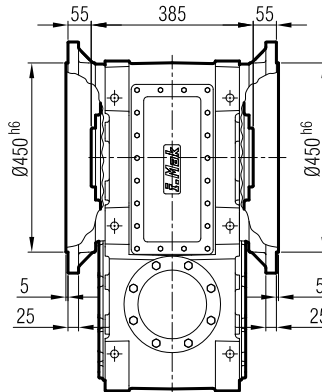
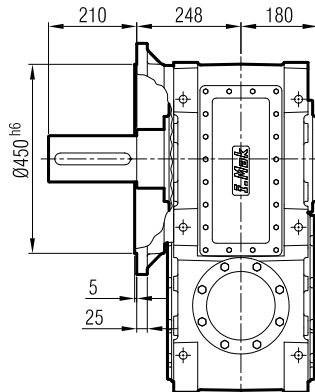
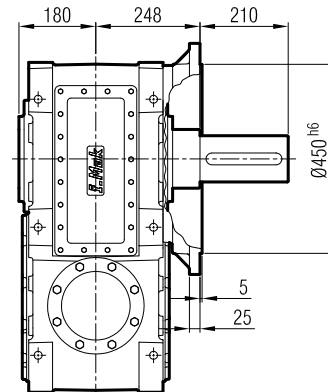
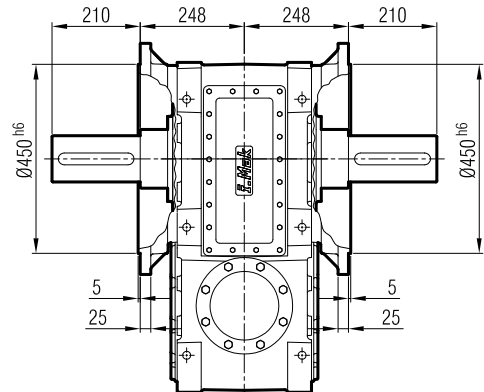
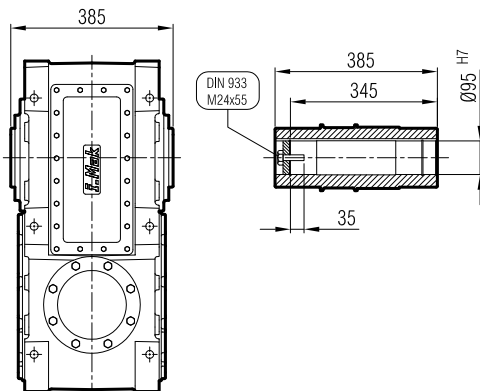
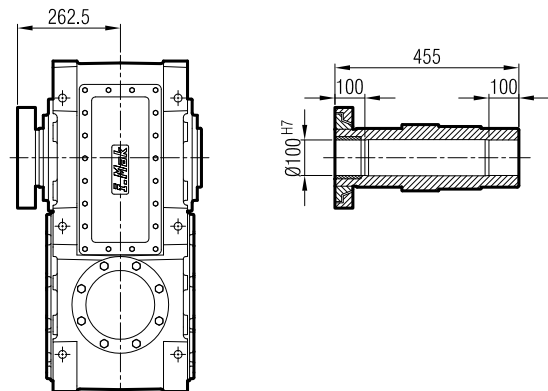


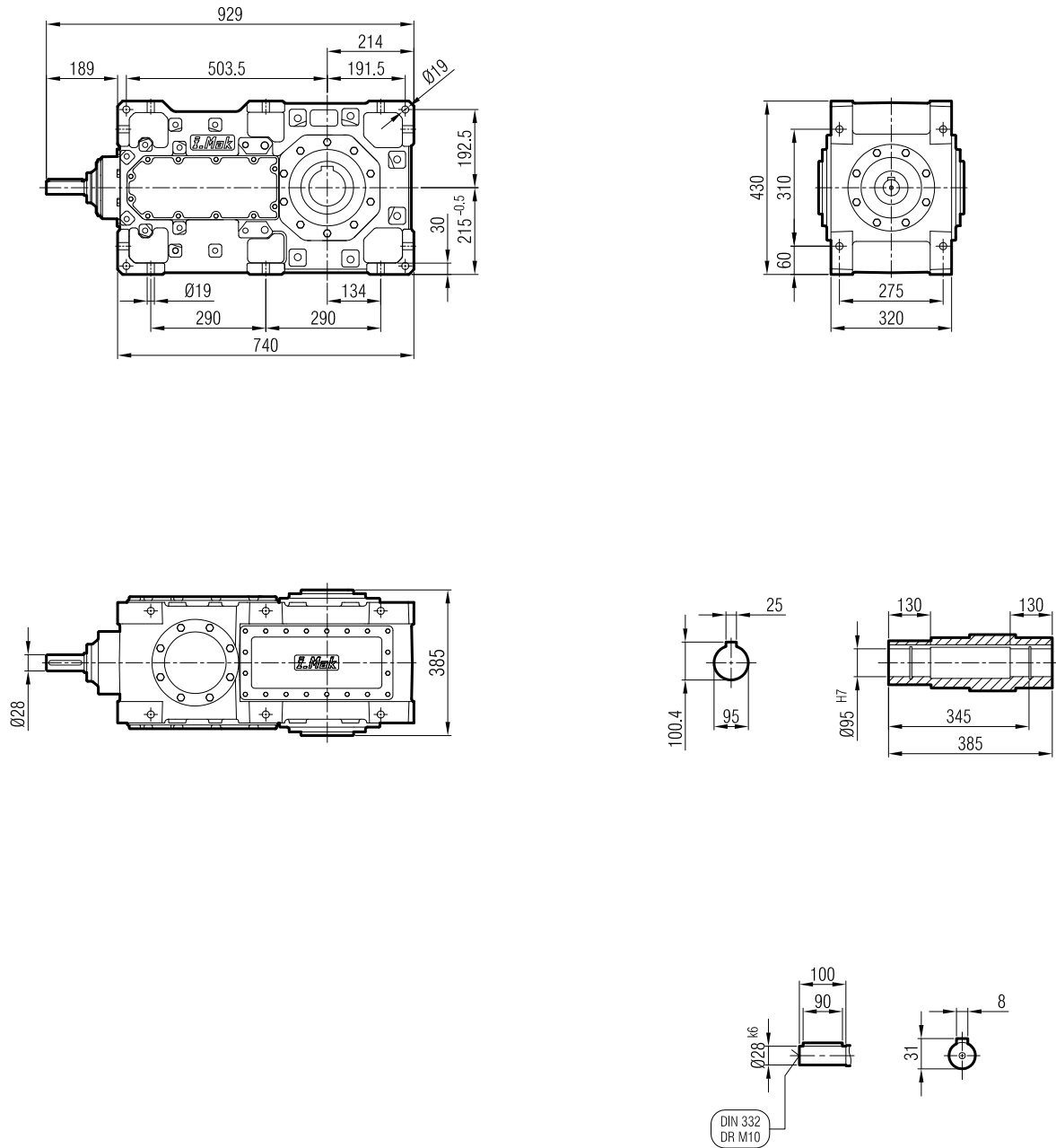
	112 M/B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5
A	1032	1109	1150	1258	1303	1379	1379	1447	1466	1526	1576
A1	1127	1213	1254	1375	1420	1515	1515	1594	1613	1673	1723
H	170	193	193	240	240	260	260	300	313	313	366
HD	282	325	325	400	400	440	440	500	538	538	618
AC	220	262	262	315	315	357	357	394	456	456	489
X	-	-	-	-	-	-	-	-	22	22	69

"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

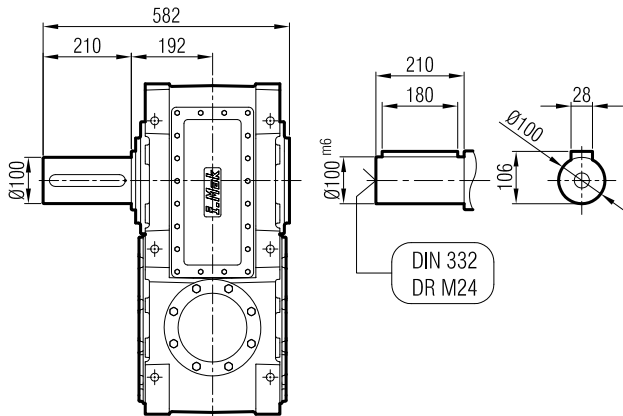
Le dimensions "A1" correspond aux moteurs équipés de freins.


MA / MK 50_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR


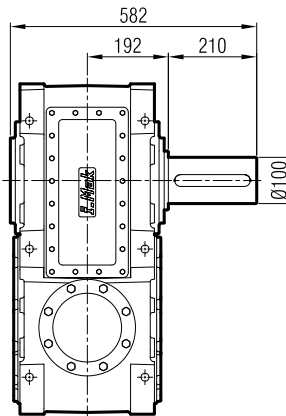
**MK 504-G07**



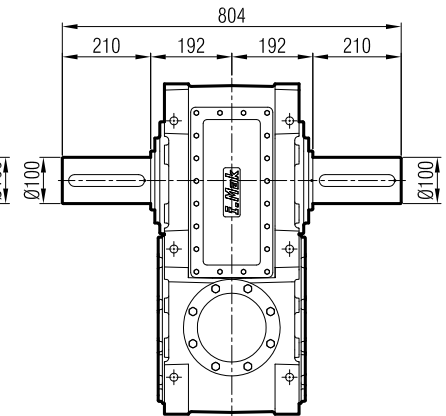
MA / MK 50_
...-SL



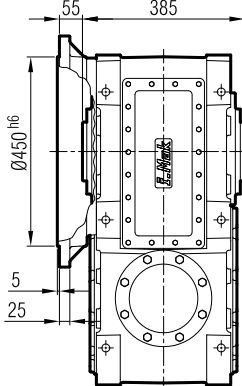
...-SR



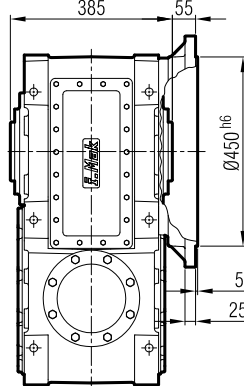
...-SD



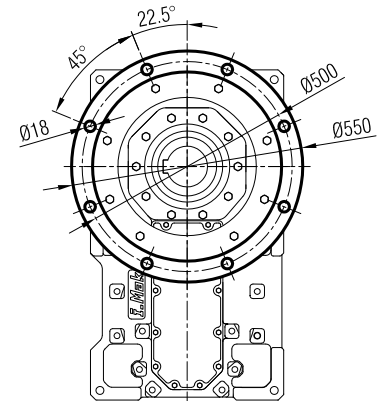
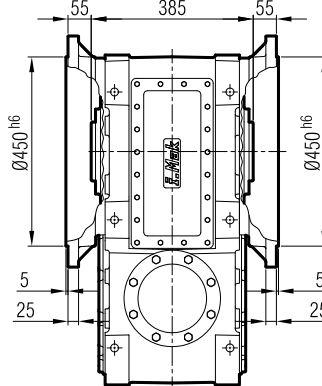
...-FL



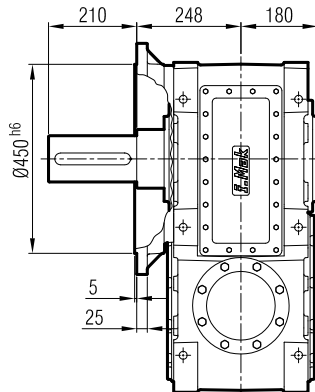
...-FR



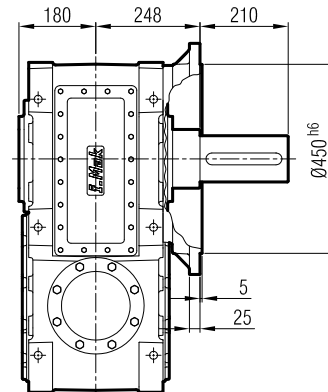
...-FD



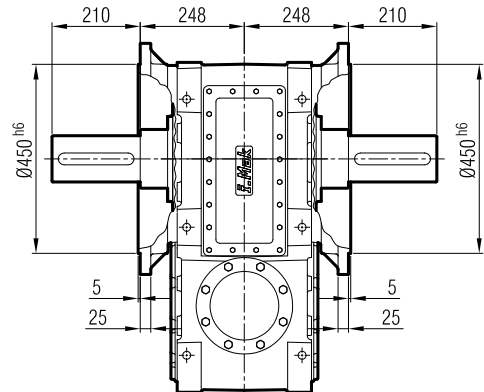
...-FL-SL



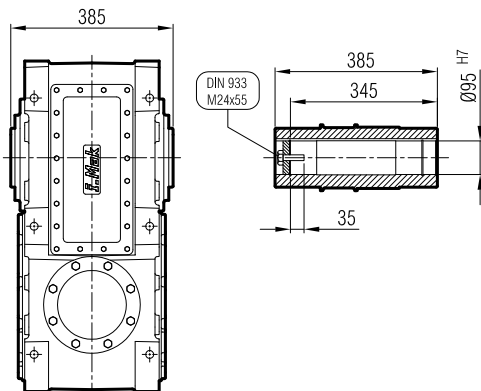
...-FR-SR



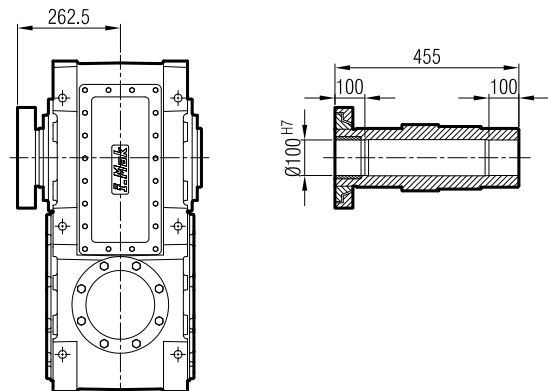
...-FD-SD



...-H

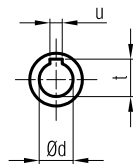
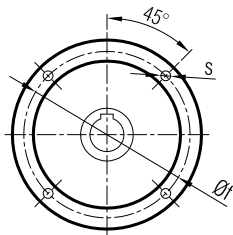
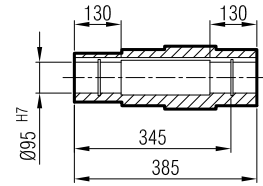
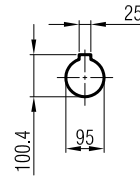
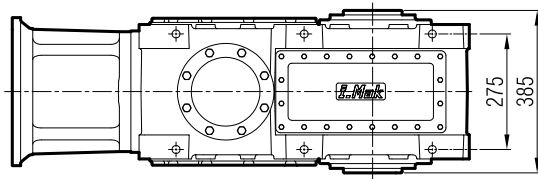
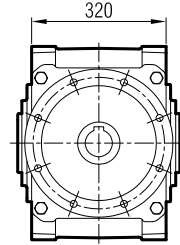
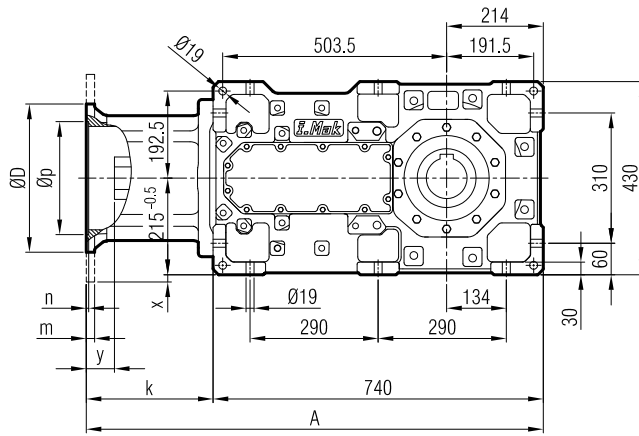


...-SDL / SDR





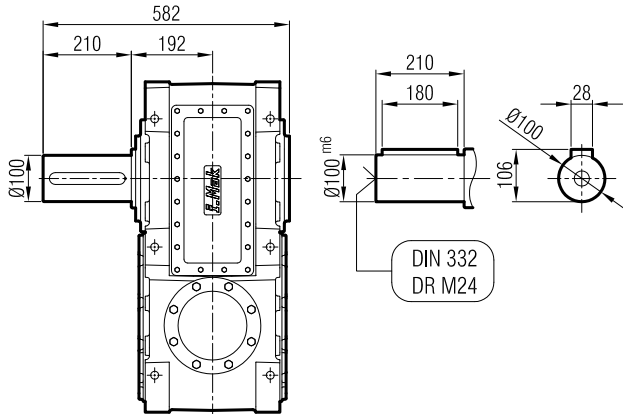
MKP 504-G09



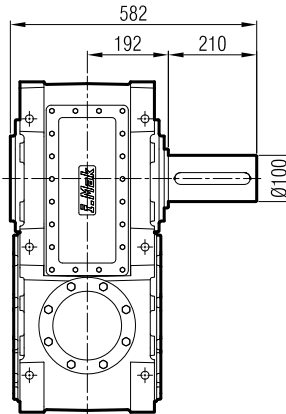
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
90/B5	982	130	168	200	M10	248	12	5	24	27.3	8	-	0
100/B5	1007	180	215	250	M12	273	15	5	28	31.3	8	-	25
112/B5	1007	180	215	250	M12	273	15	5	28	31.3	8	-	25
132/B5	1027	230	265	300	M12	293	18	6	38	41.3	10	-	45
160/B5	1057	250	300	350	M14	317	20	6	42	45.3	12	-	70



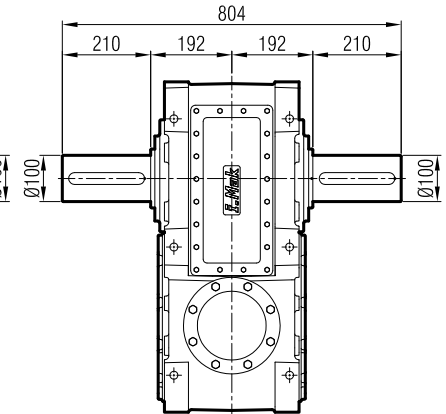
MA / MK 50_
...-SL



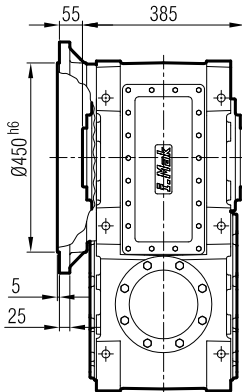
...-SR



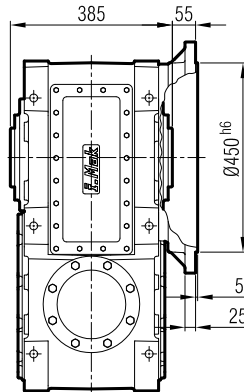
...-SD



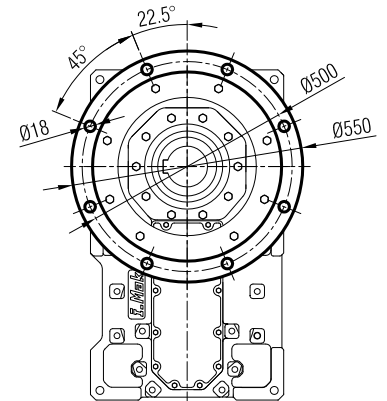
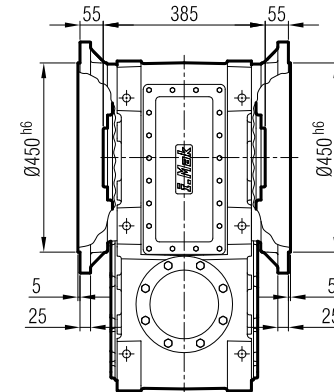
...-FL



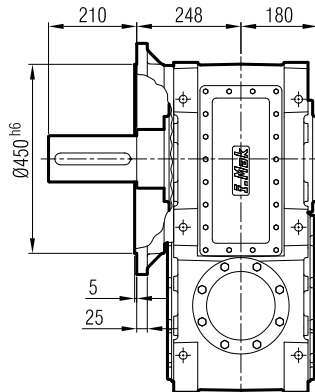
...-FR



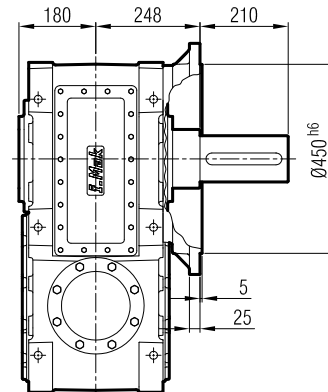
...-FD



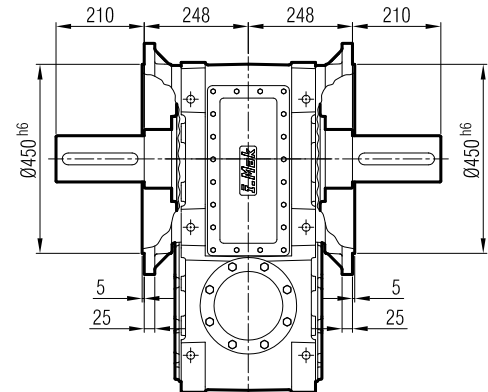
...-FL-SL



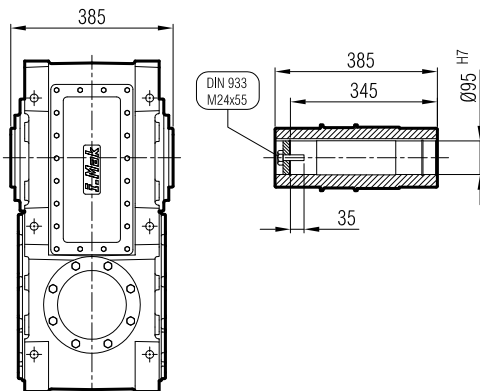
...-FR-SR



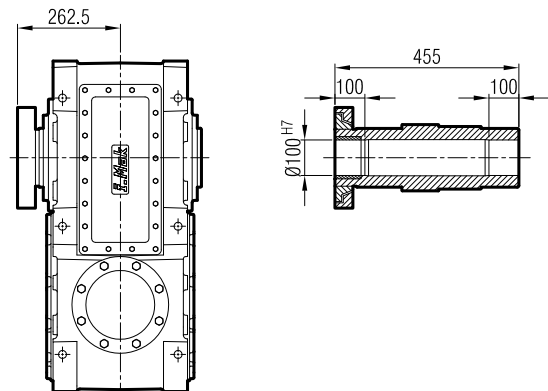
...-FD-SD

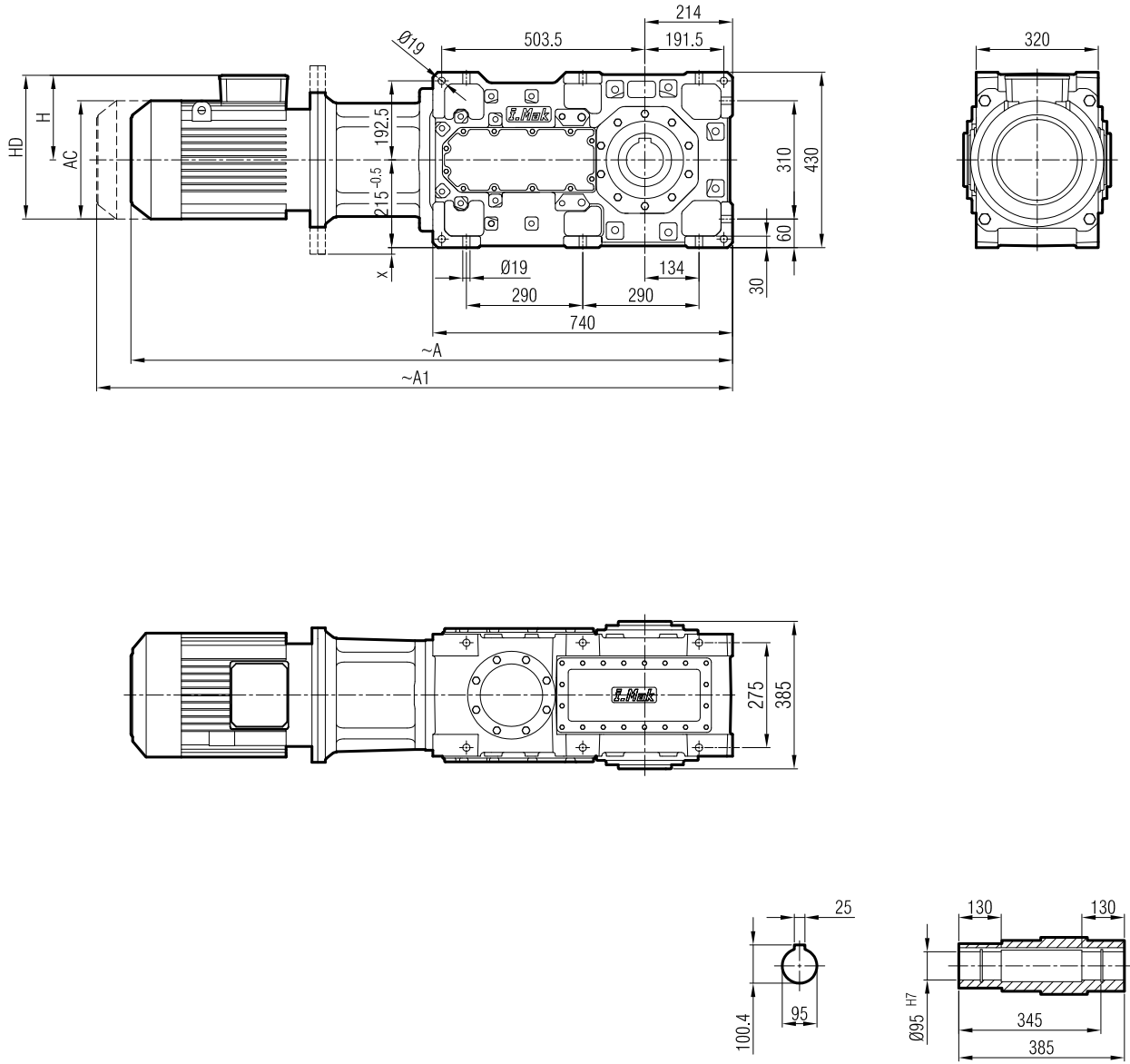


...-H



...-SDL / SDR




MKM 504-G09


	90 L/B5	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5
A	1322	1379	1351	1428	1469	1577	1622
A1	1389	1456	1446	1532	1573	1694	1739
H	141	161	170	193	193	240	240
HD	231	261	282	325	325	400	400
AC	176	195	220	262	262	315	315
x	-	-	-	-	-	-	-

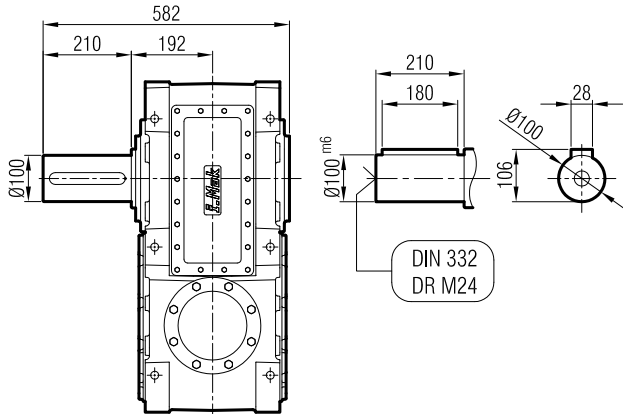
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

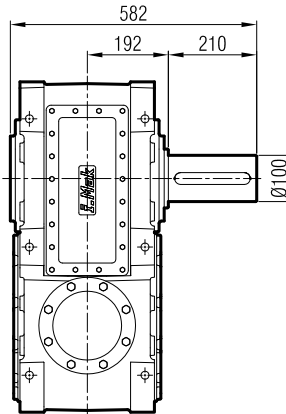
Le dimensions "A1" correspond aux moteurs équipés de freins.



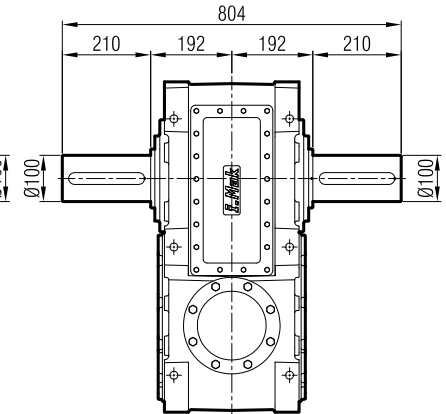
MA / MK 50_
...-SL



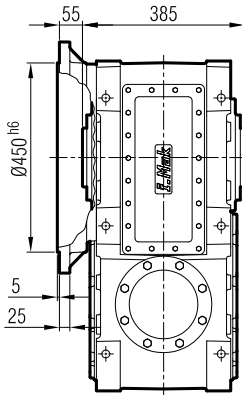
...-SR



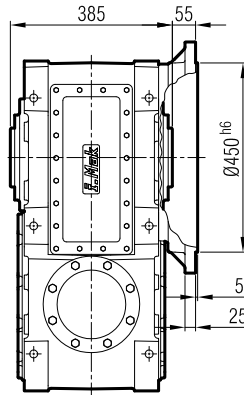
...-SD



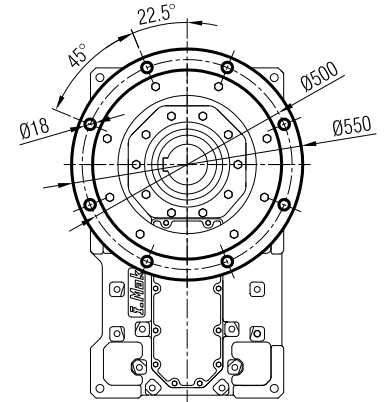
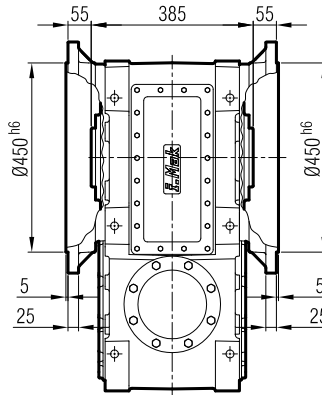
...-FL



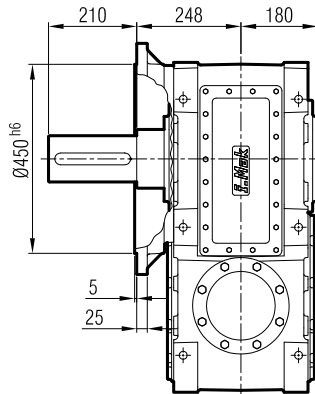
...-FR



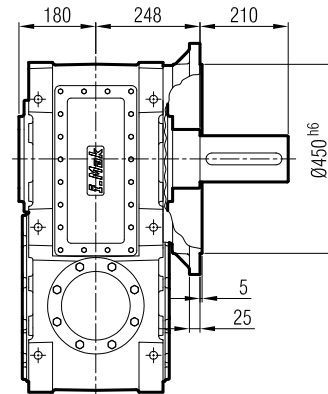
...-FD



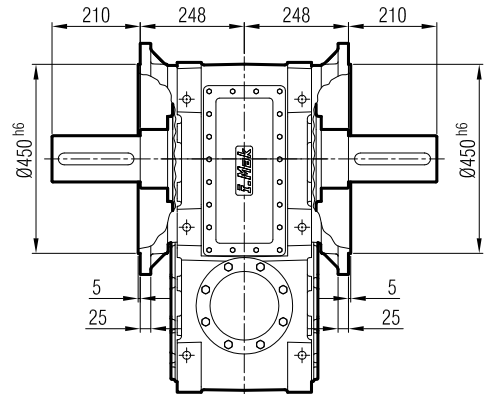
...-FL-SL



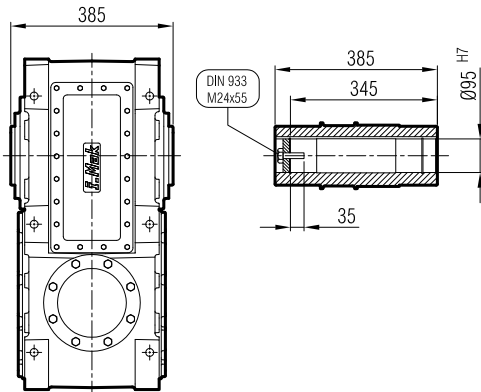
...-FR-SR



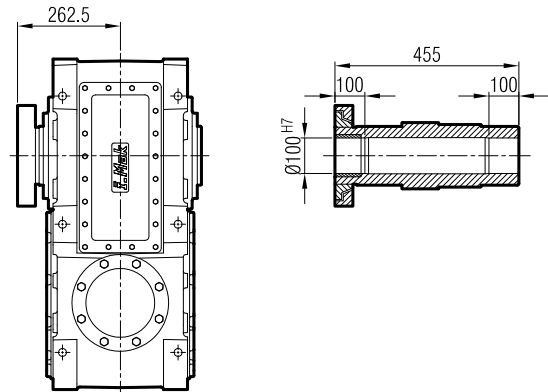
...-FD-SD

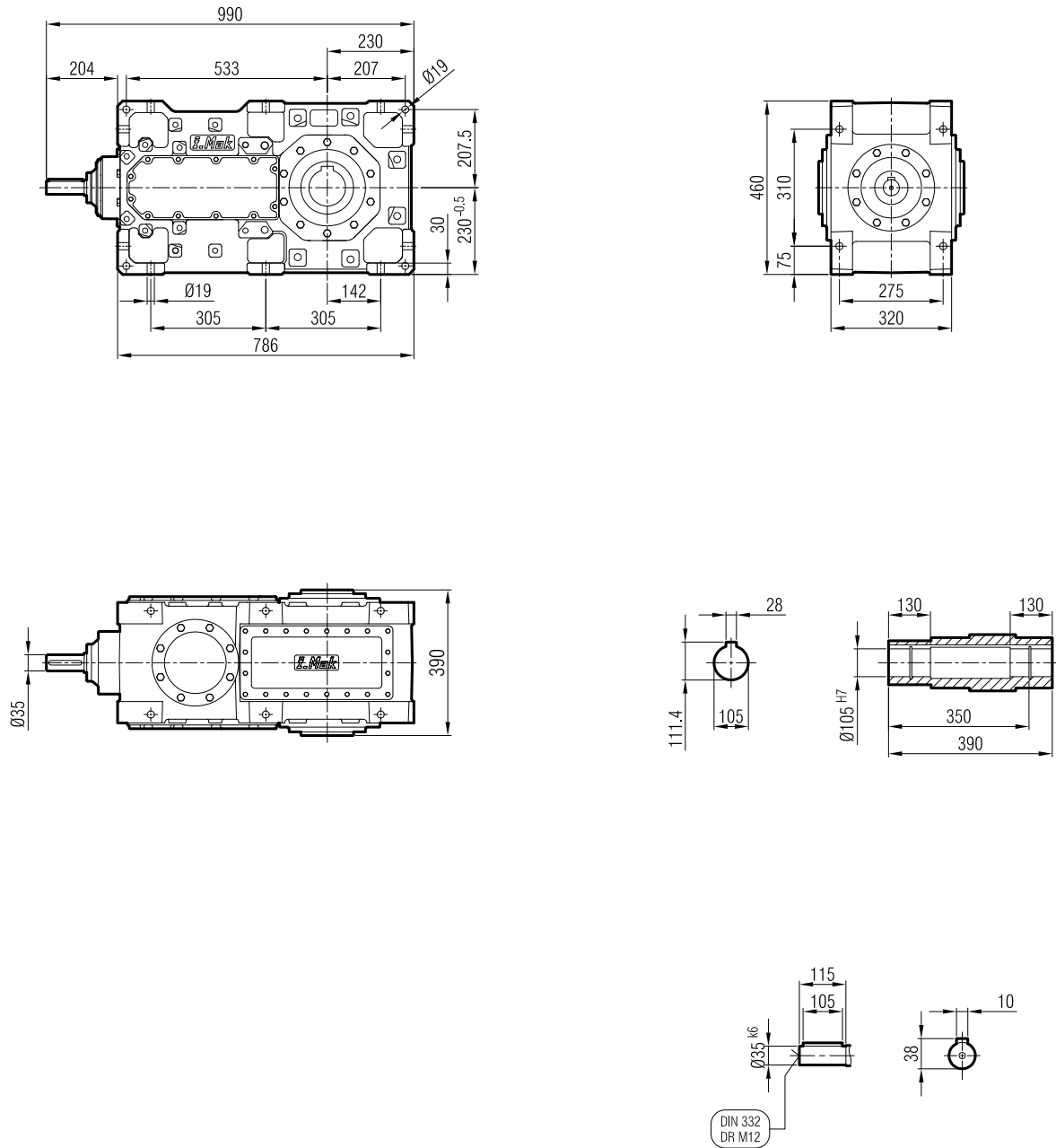


...-H



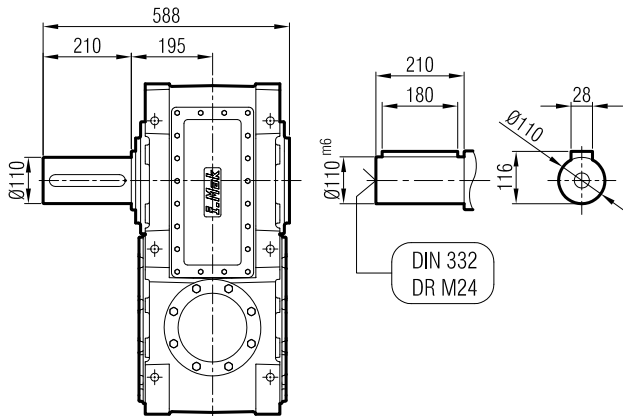
...-SDL / SDR



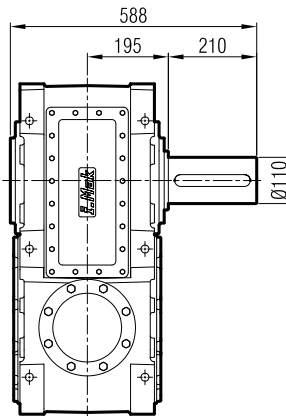
**MK 603-G07**



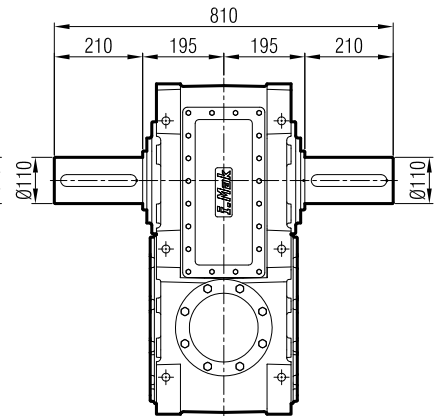
MA / MK 60_
...-SL



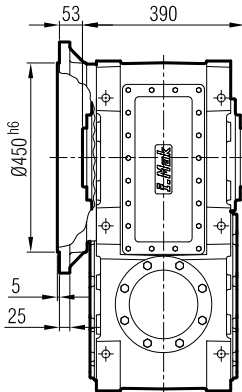
...-SR



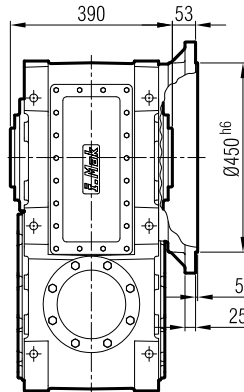
...-SD



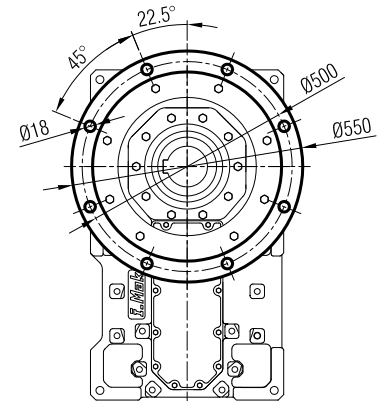
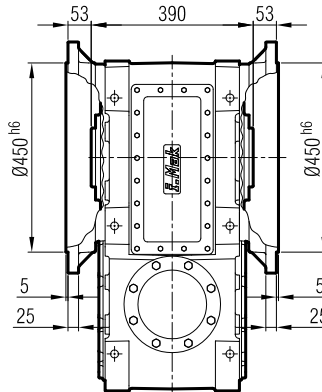
...-FL



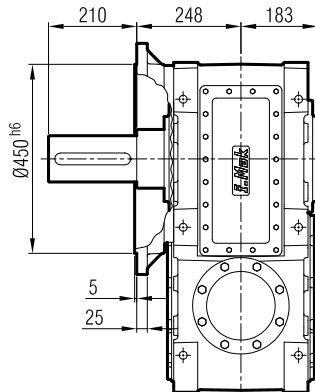
...-FR



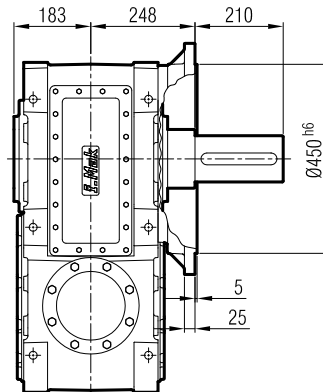
...-FD



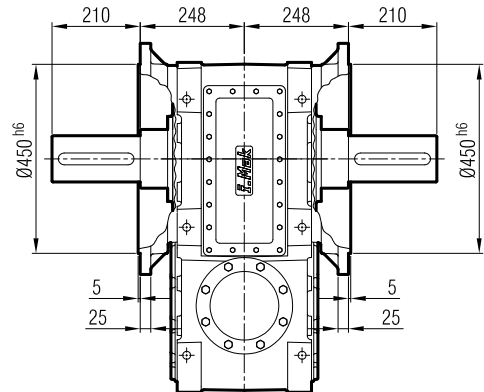
...-FL-SL



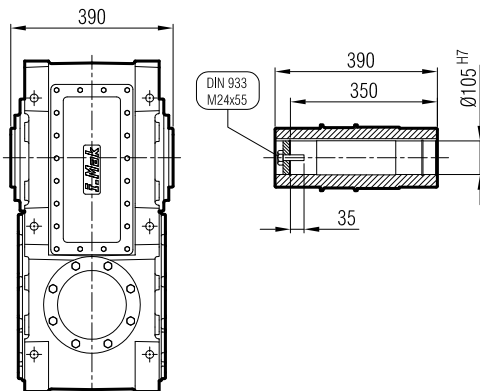
...-FR-SR



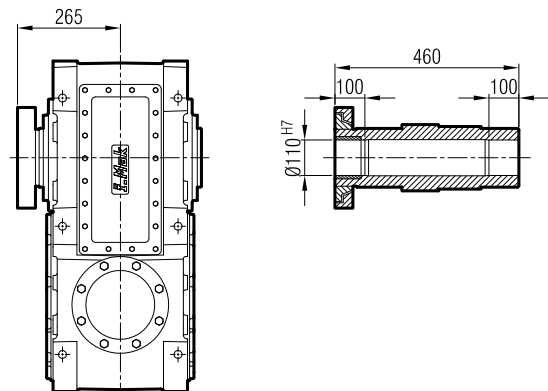
...-FD-SD



...-H

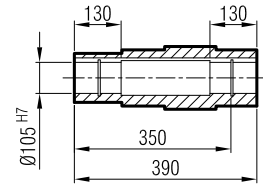
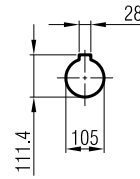
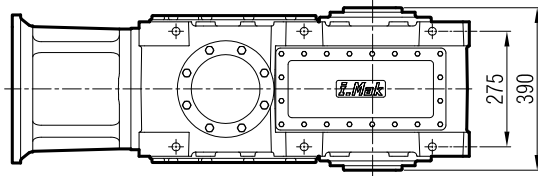
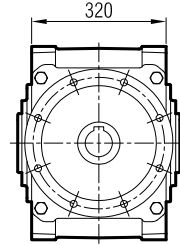
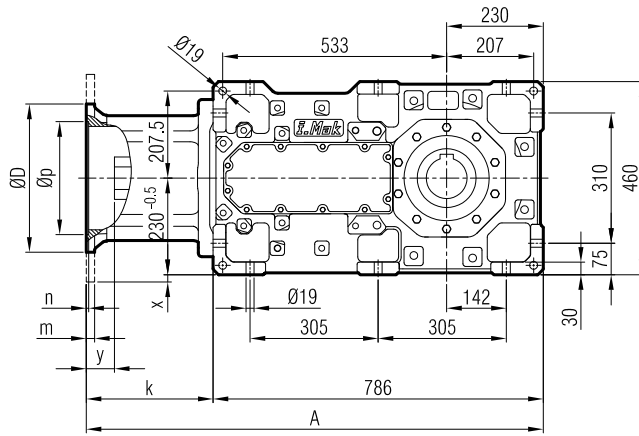


...-SDL / SDR



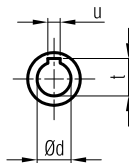
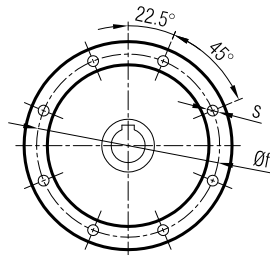
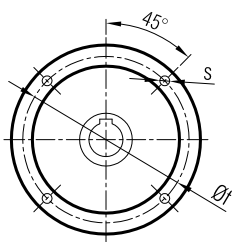


MKP 603-G09



≤ 200 B5 **Tip/Type/Typ**

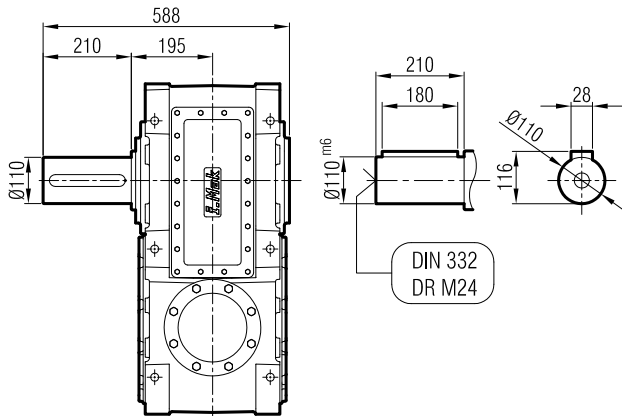
≥ 225 B5 **Tip/Type/Typ**



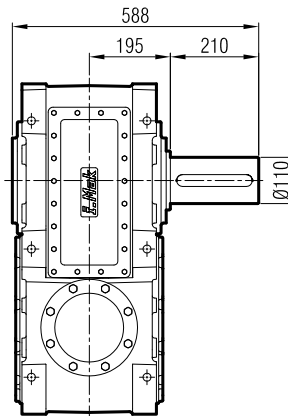
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	1053	180	215	250	M12	273	15	5	28	31.3	8	-	15
132/B5	1073	230	265	300	M12	293	18	6	38	41.3	10	-	20
160/B5	1103	250	300	350	M14	317	20	6	42	45.3	12	-	60
180/B5	1103	250	300	350	M14	317	20	6	48	51.8	14	-	60
200/B5	1103	300	350	400	M16	317	22	6	55	59.3	16	-	60
225/B5	1146	350	400	450	M16	360	22	6	60	64.4	18	19	80
250/B5	1146	450	500	550	M16	360	25	6.5	65	69.4	18	69	75



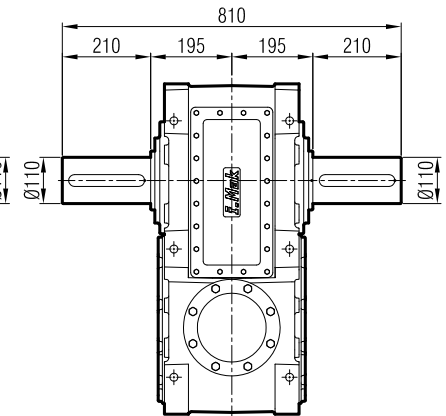
MA / MK 60_
...-SL



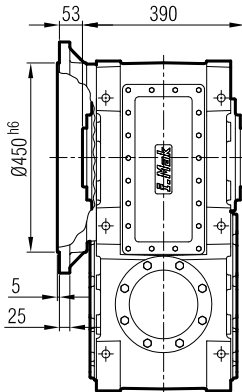
...-SR



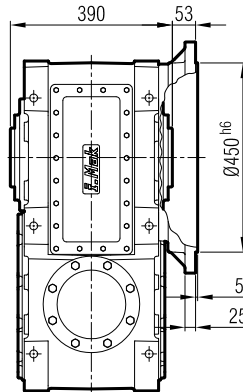
...-SD



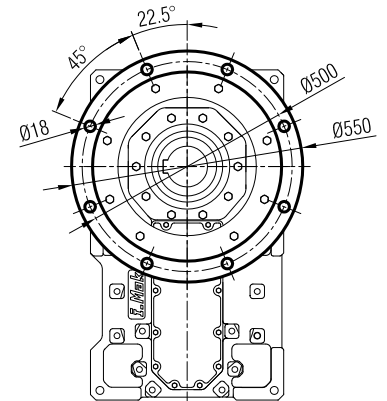
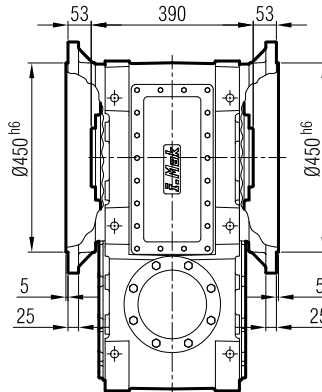
...-FL



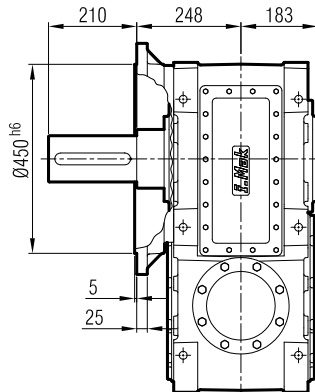
...-FR



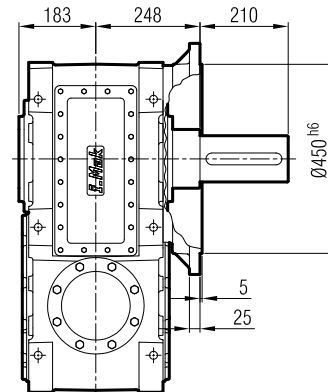
...-FD



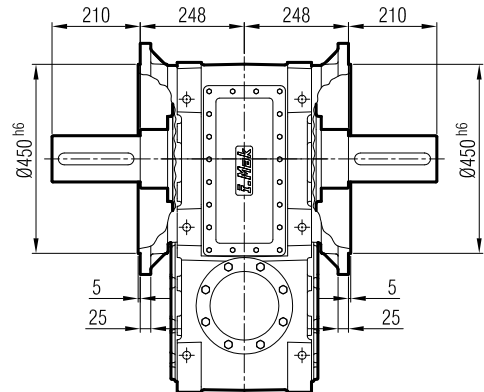
...-FL-SL



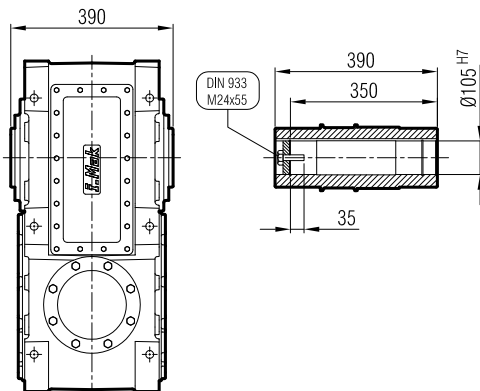
...-FR-SR



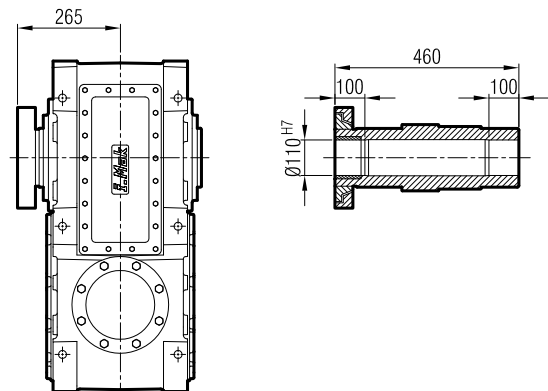
...-FD-SD



...-H

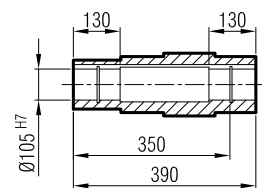
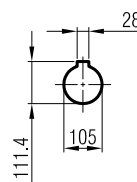
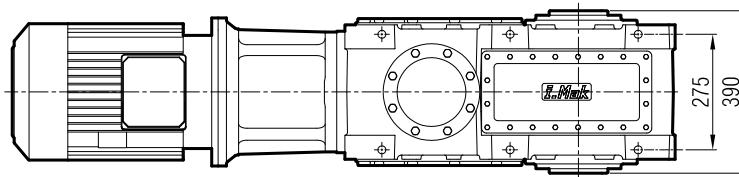
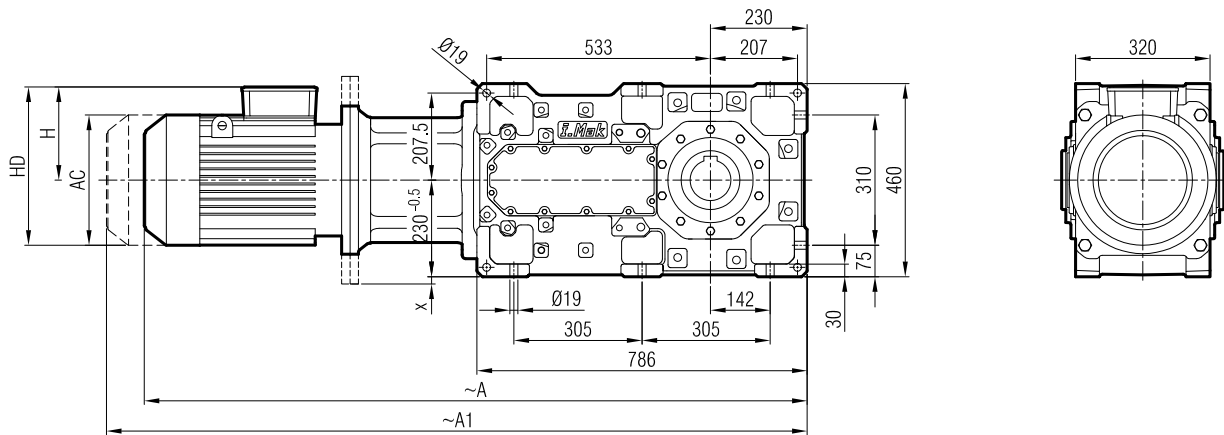


...-SDL / SDR





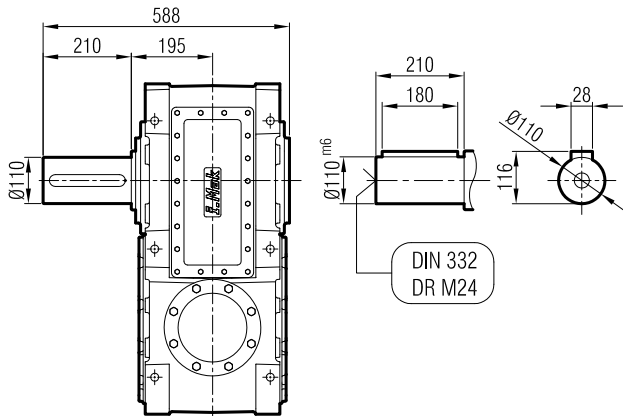
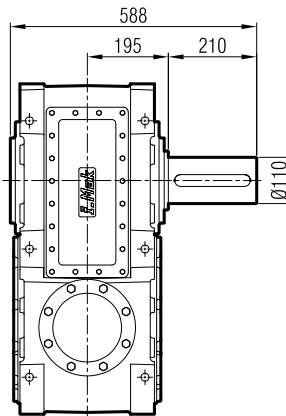
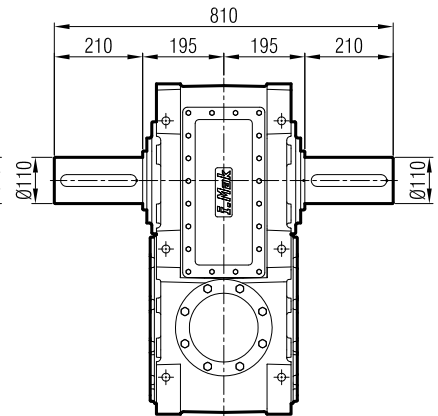
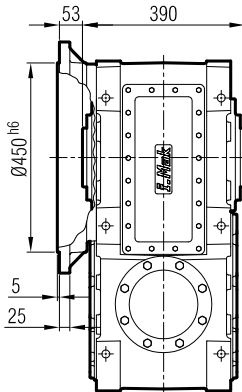
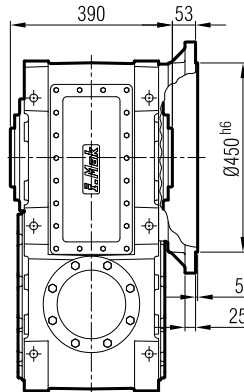
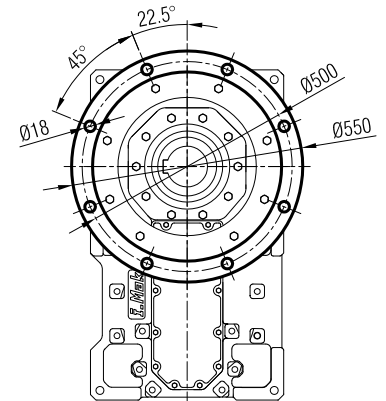
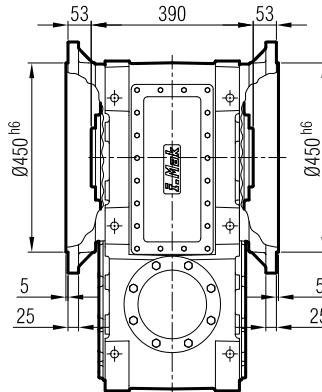
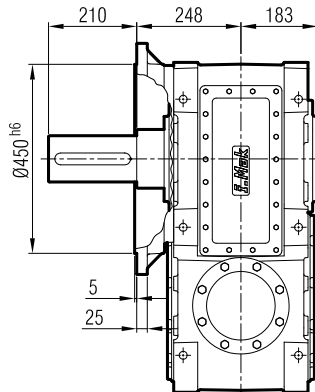
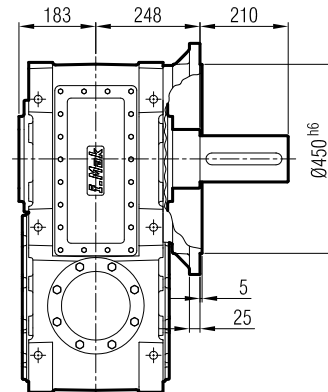
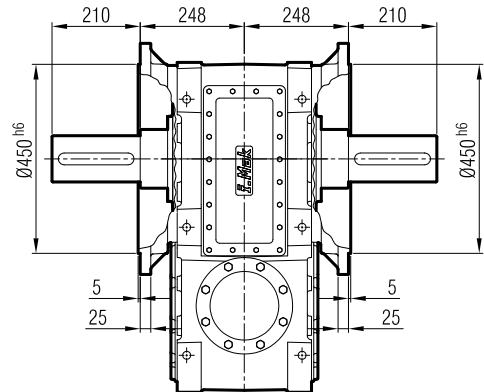
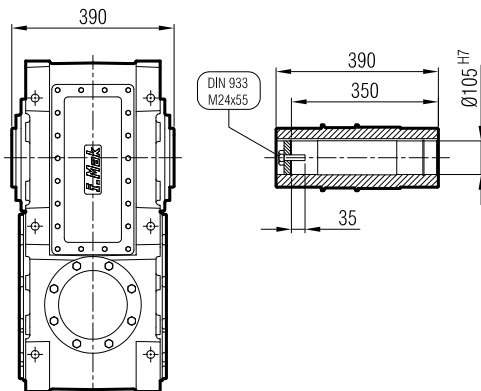
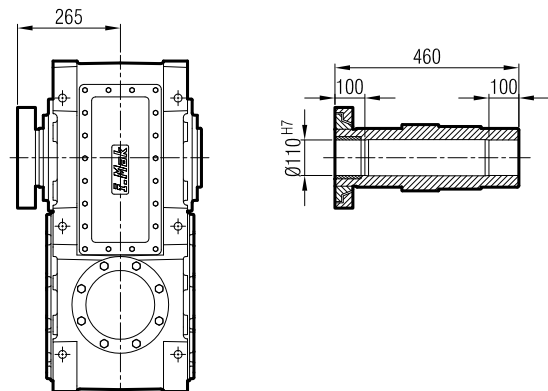
MKM 603-G09

[illegible]

"A1" Ölçüsü Frenli Motorlar içindir.

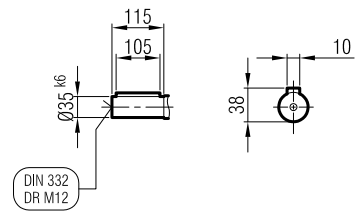
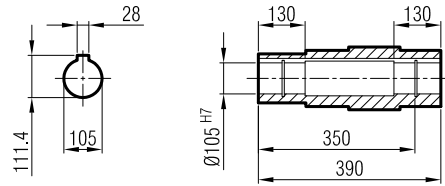
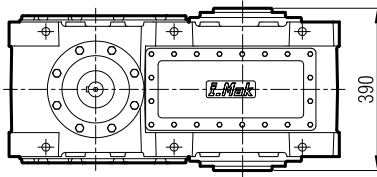
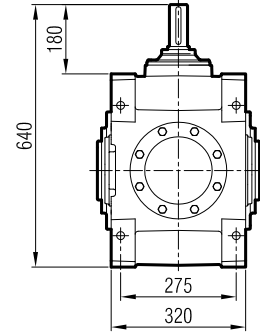
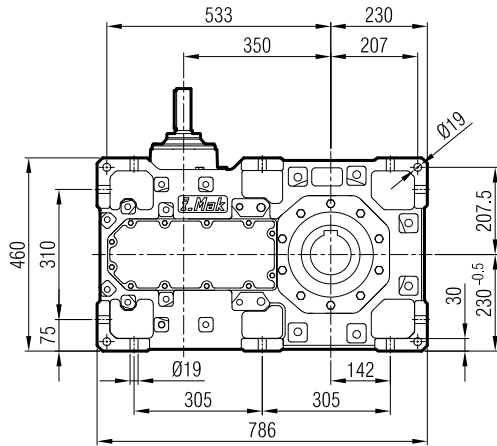
Dimension "A1" is for motors with brake.

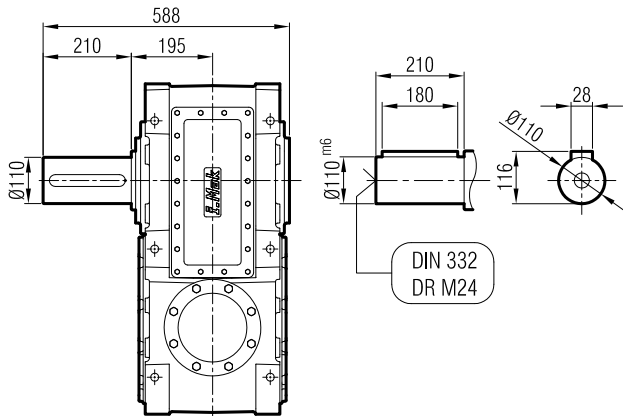
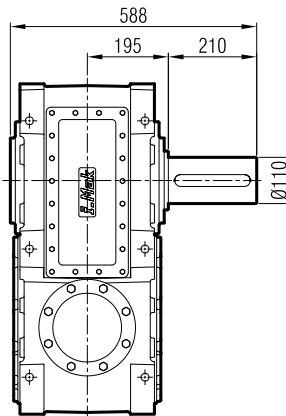
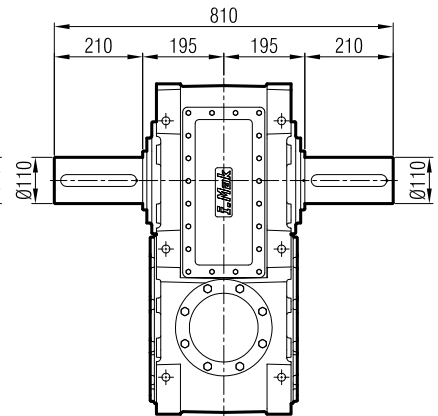
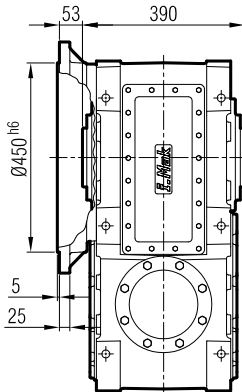
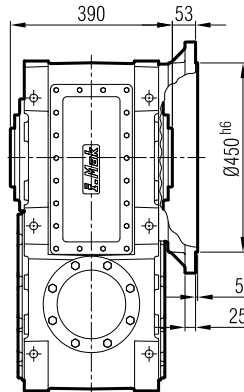
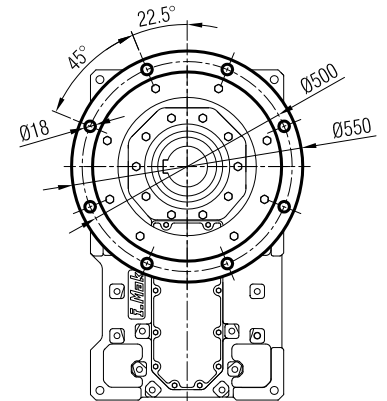
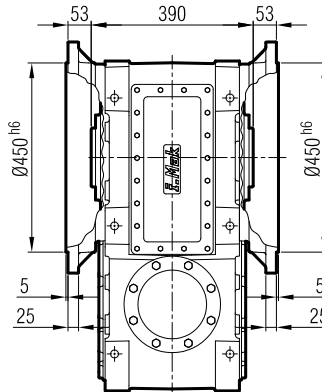
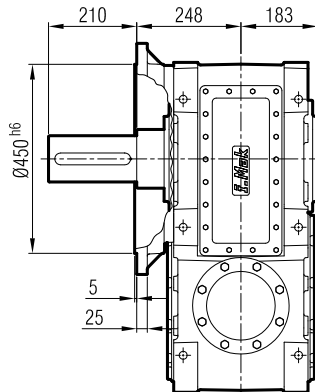
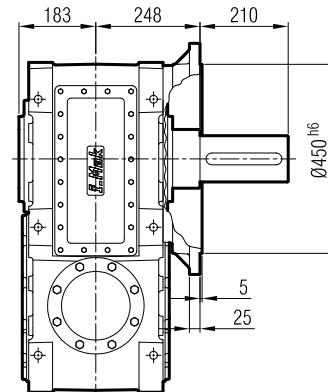
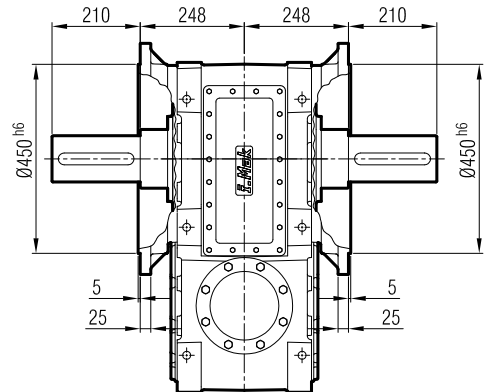
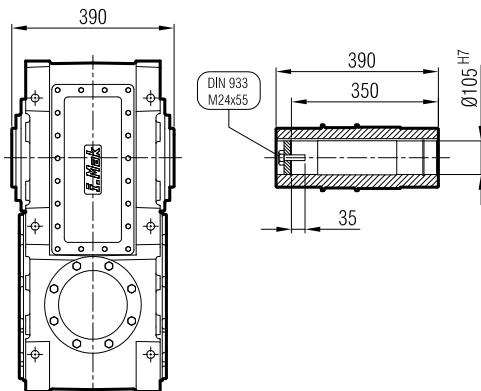
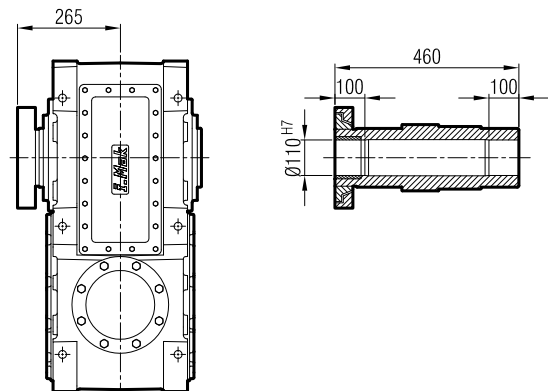
Le dimensions "A1" correspond aux moteurs équipés de freins.


MA / MK 60_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR




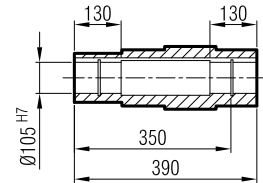
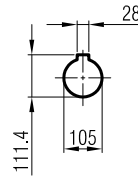
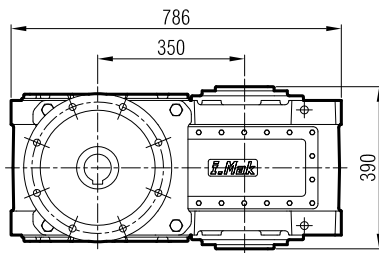
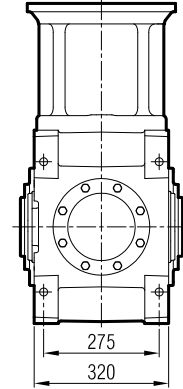
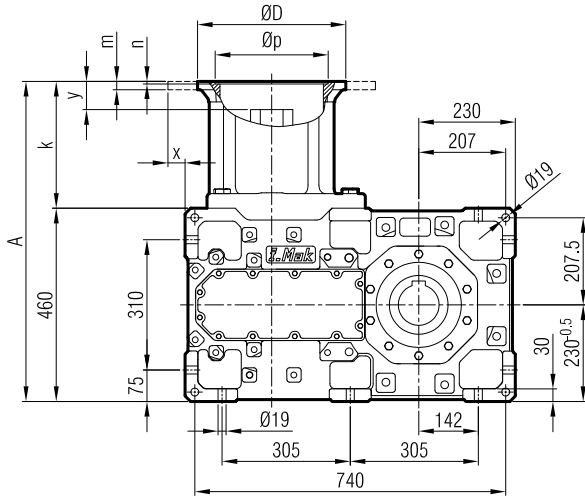
MK 603-G08




MA / MK 60_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR


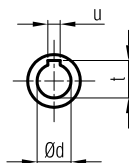
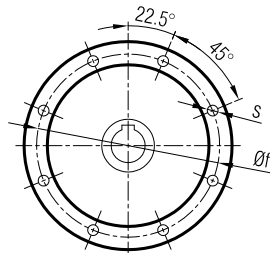
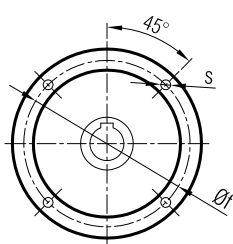


MKP 603-G10



≤ 200 B5 **Tip/Type/Typ**

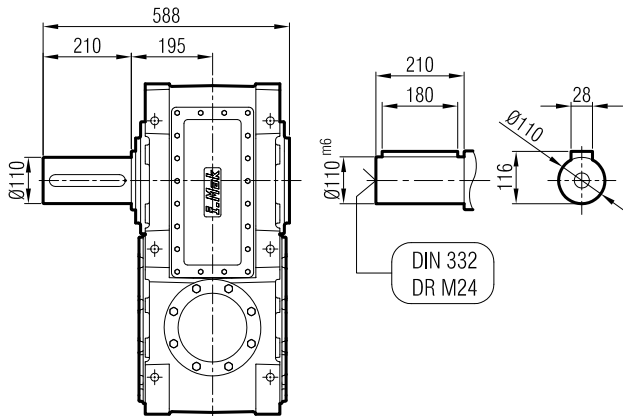
≥ 225 B5 **Tip/Type/Typ**



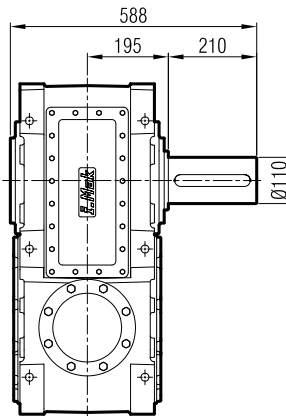
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	703	180	215	250	M12	273	15	5	28	31.3	8	-	15
132/B5	723	230	265	300	M12	293	18	6	38	41.3	10	-	20
160/B5	753	250	300	350	M14	293	20	6	42	45.3	12	-	60
180/B5	753	250	300	350	M14	293	20	6	48	51.8	14	-	60
200/B5	753	300	350	400	M16	293	22	6	55	59.3	16	-	60
225/B5	796	350	400	450	M16	336	22	6	60	64.4	18	19	80
250/B5	796	450	500	550	M16	336	25	6.5	65	69.4	18	69	75



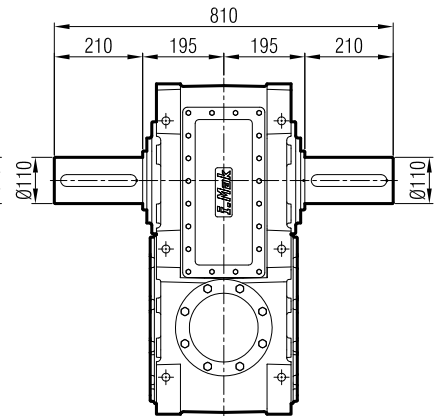
MA / MK 60_
...-SL



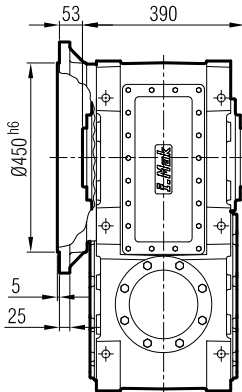
...-SR



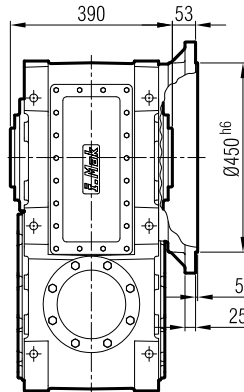
...-SD



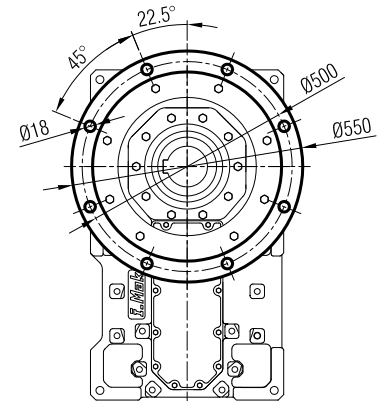
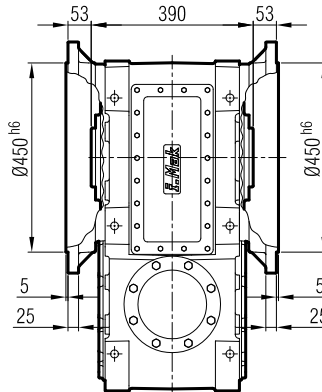
...-FL



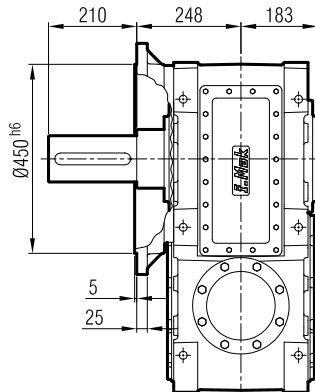
...-FR



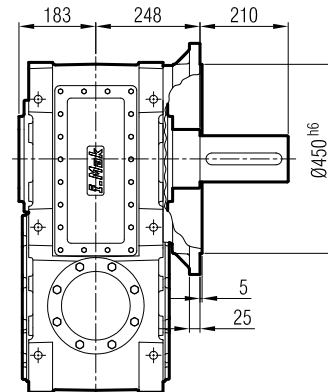
...-FD



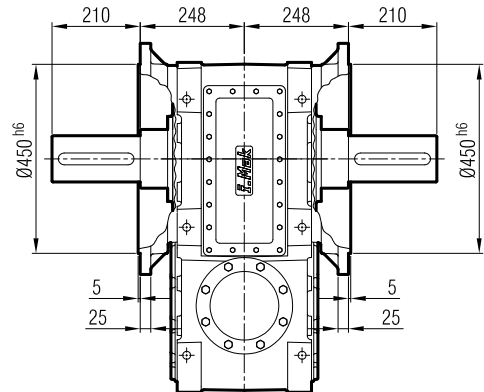
...-FL-SL



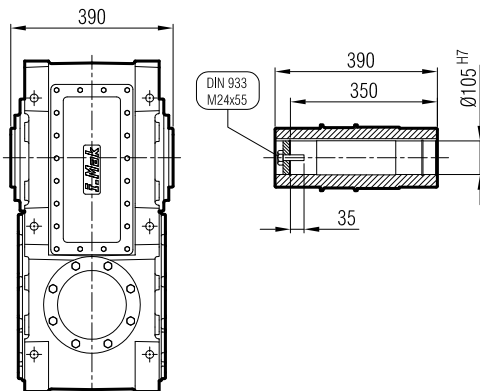
...-FR-SR



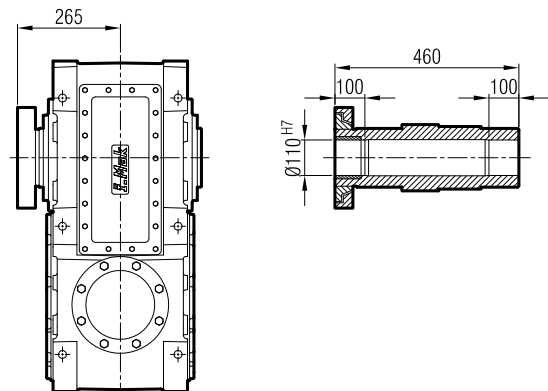
...-FD-SD



...-H

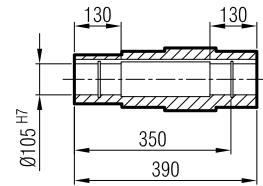
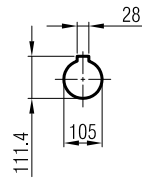
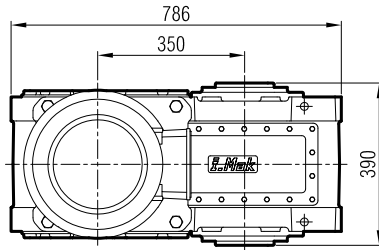
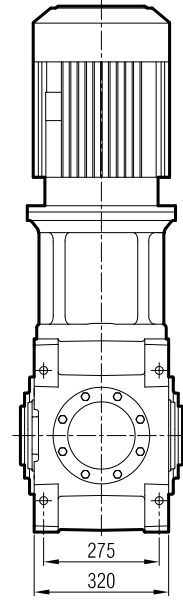
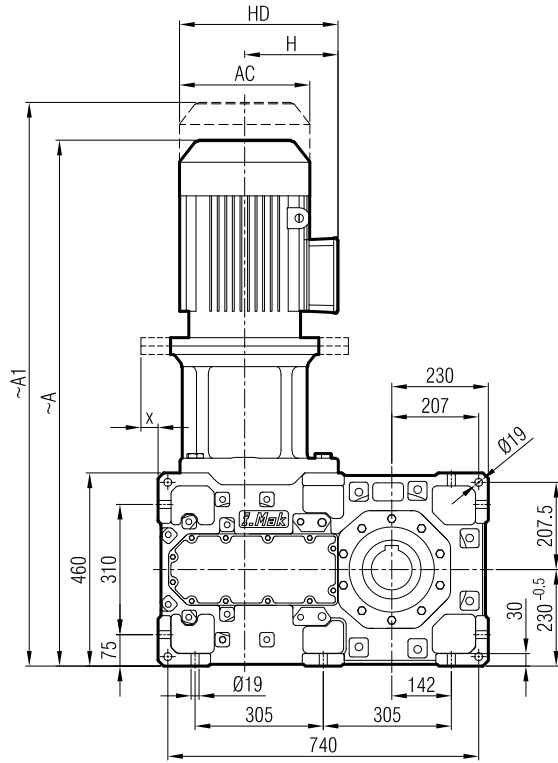


...-SDL / SDR





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	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	250 M/B5
A	1047	1124	1165	1273	1318	1394	1394	1462	1481	1541	1591
A1	1142	1228	1269	1390	1435	1530	1530	1609	1628	1688	1738
H	170	193	193	240	240	260	260	300	313	313	366
HD	282	325	325	400	400	440	440	500	538	538	618
AC	220	262	262	315	315	357	357	394	456	456	489
X	-	-	-	-	-	-	-	-	22	22	69

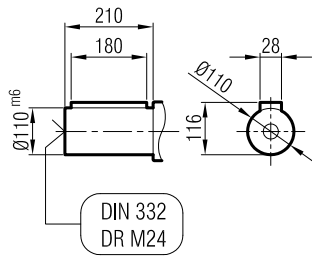
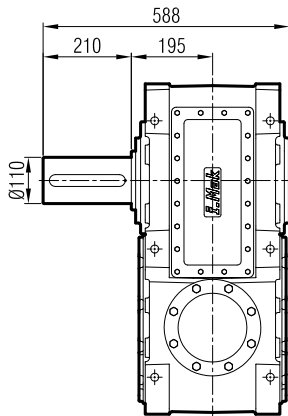
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

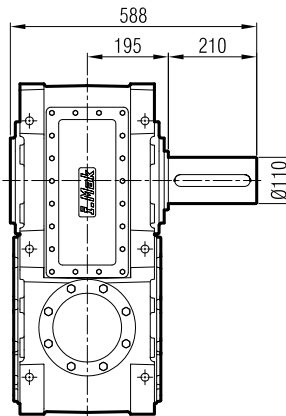
Le dimensions "A1" correspond aux moteurs équipés de freins.



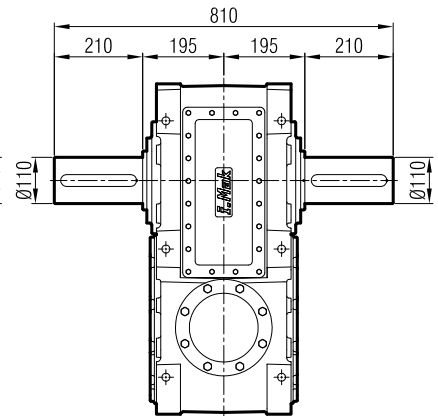
MA / MK 60_
...-SL



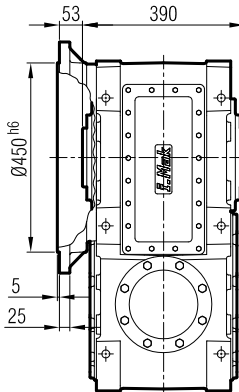
...-SR



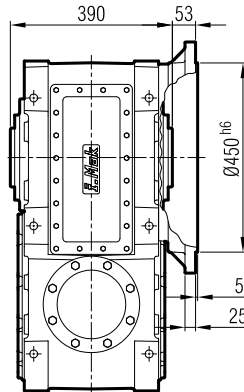
...-SD



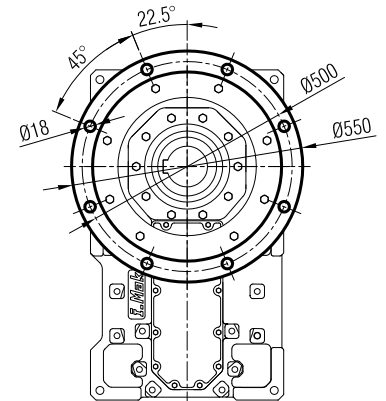
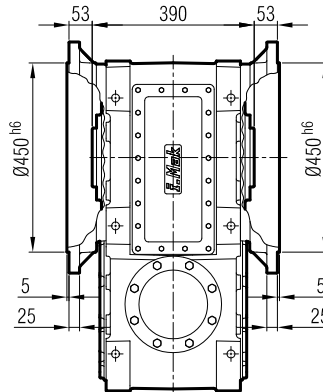
...-FL



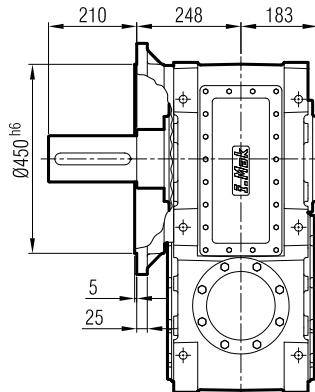
...-FR



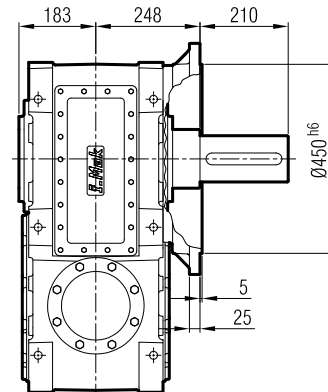
...-FD



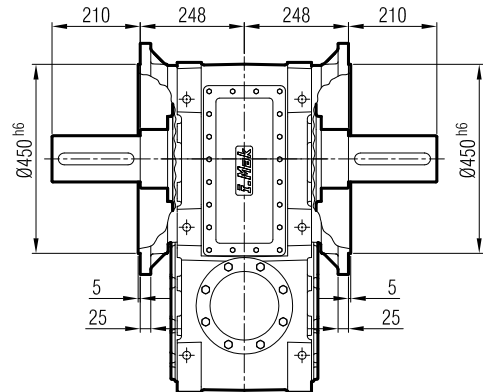
...-FL-SL



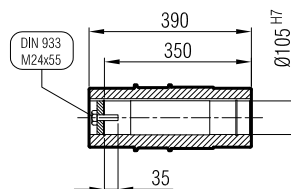
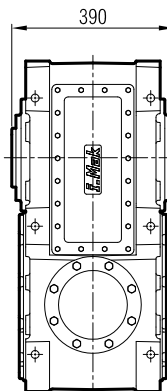
...-FR-SR



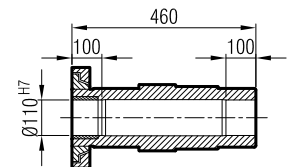
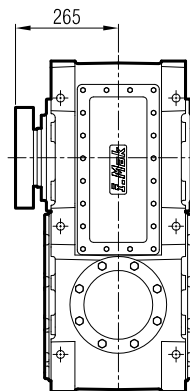
...-FD-SD



...-H

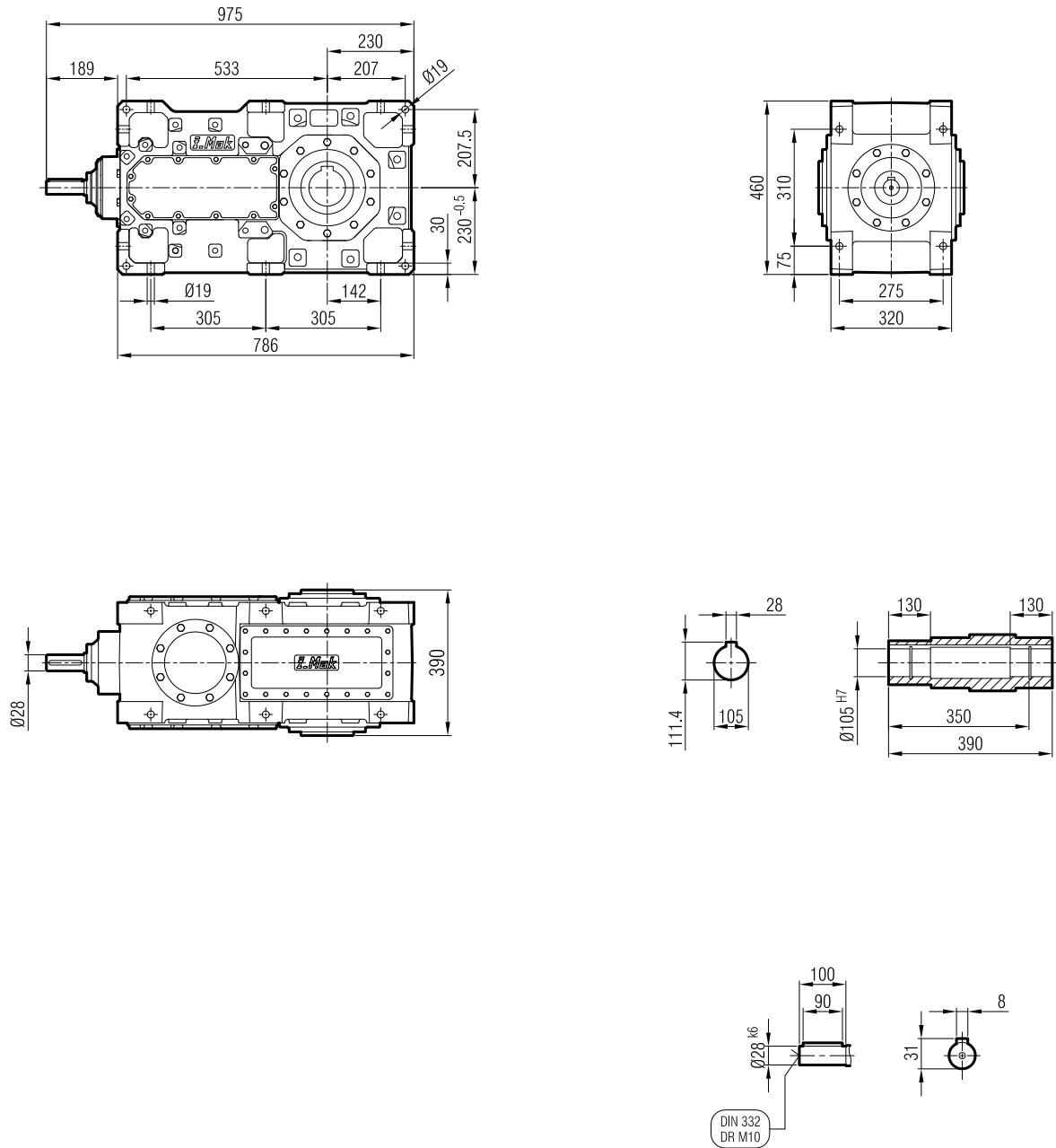


...-SDL / SDR



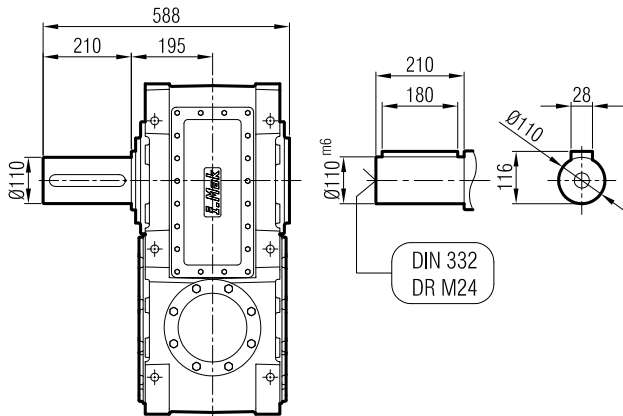


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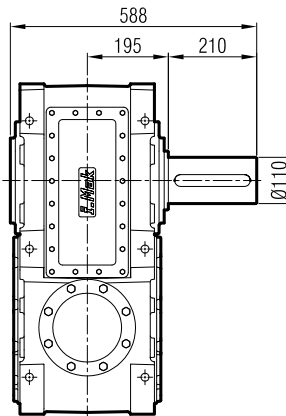




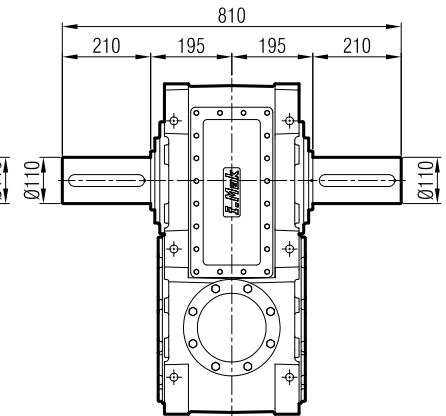
MA / MK 60_
...-SL



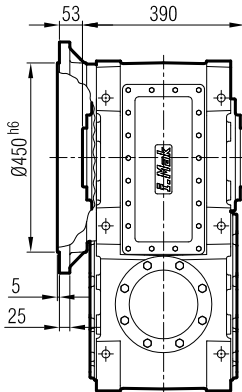
...-SR



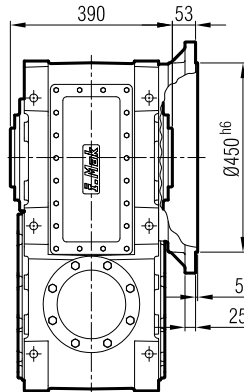
...-SD



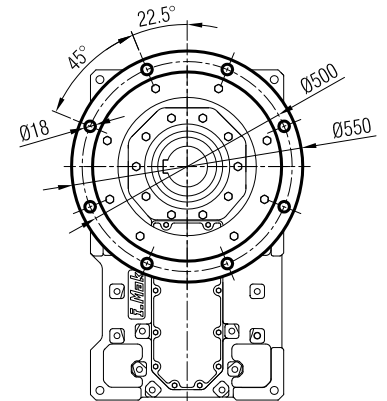
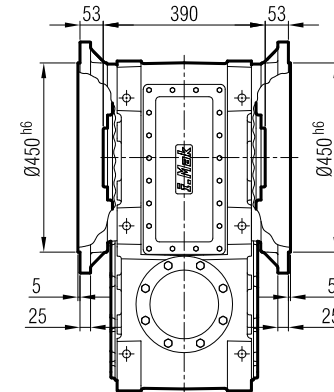
...-FL



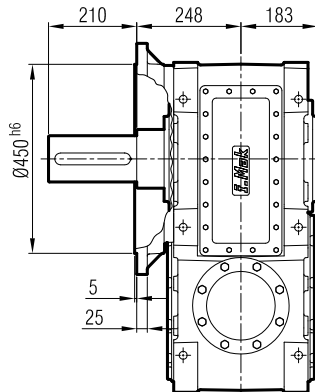
...-FR



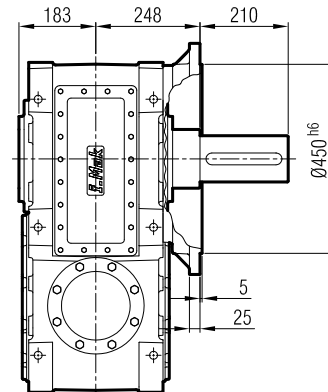
...-FD



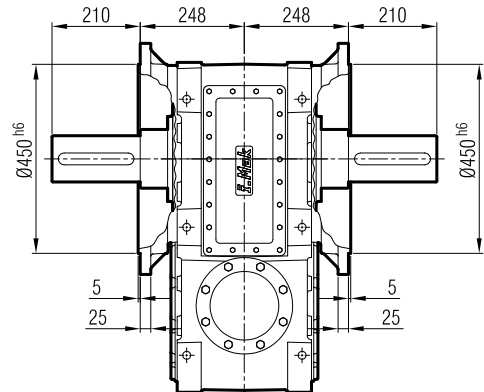
...-FL-SL



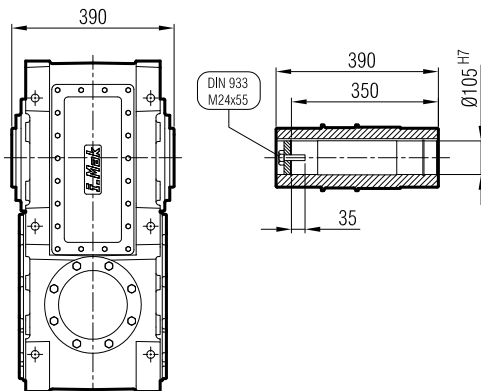
...-FR-SR



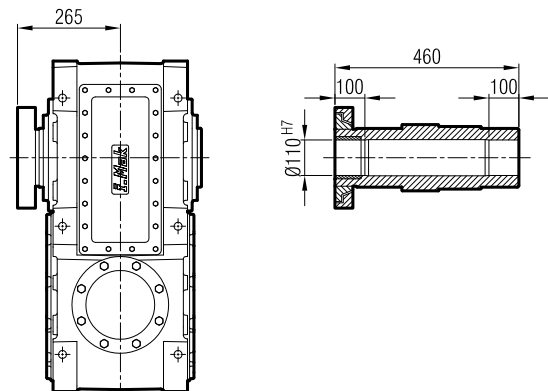
...-FD-SD

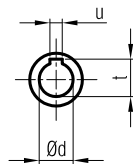
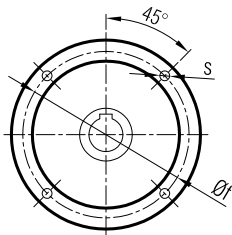
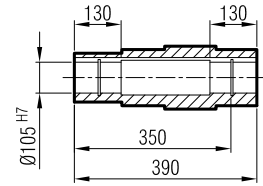
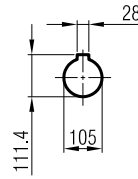
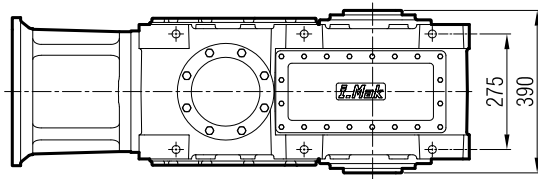
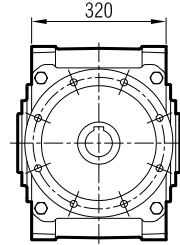
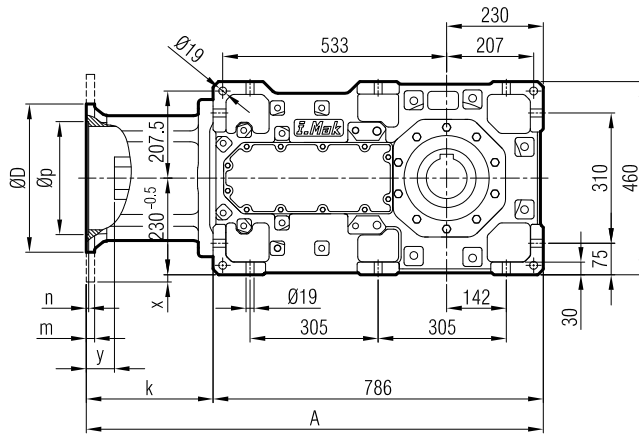


...-H



...-SDL / SDR

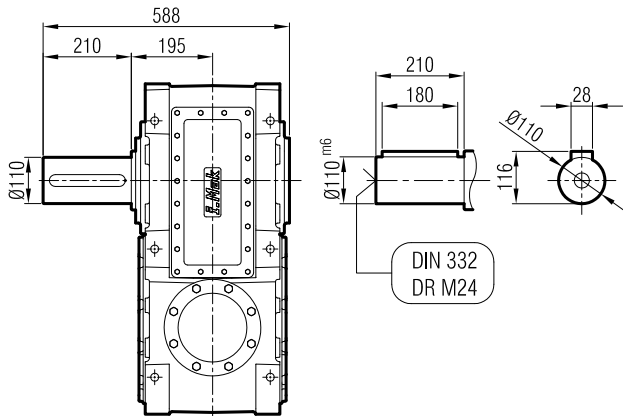



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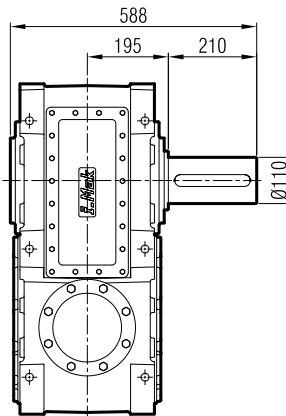
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
90/B5	1028	130	168	200	M10	248	12	5	24	27.3	8	-	0
100/B5	1053	180	215	250	M12	273	15	5	28	31.3	8	-	25
112/B5	1053	180	215	250	M12	273	15	5	28	31.3	8	-	25
132/B5	1073	230	265	300	M12	293	18	6	38	41.3	10	-	45
160/B5	1103	250	300	350	M14	317	20	6	42	45.3	12	-	70
180/B5	1103	250	300	350	M14	317	20	6	48	51.8	14	-	59



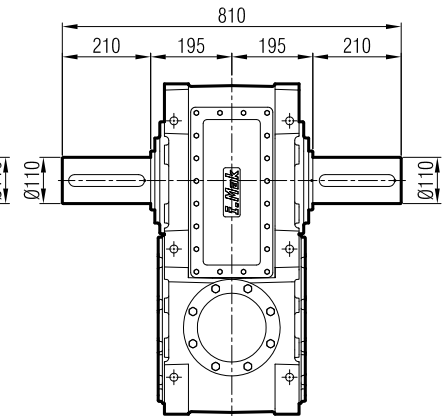
MA / MK 60_
...-SL



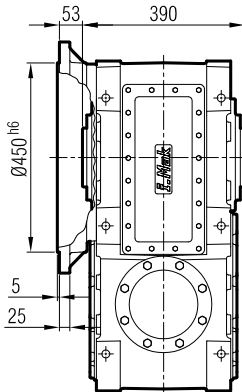
...-SR



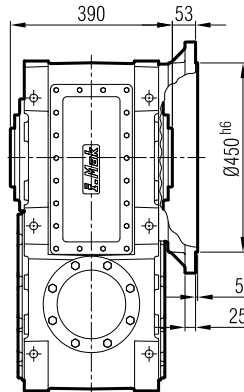
...-SD



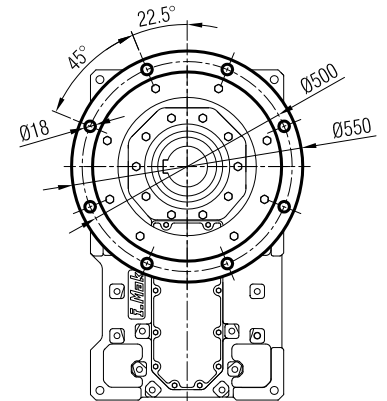
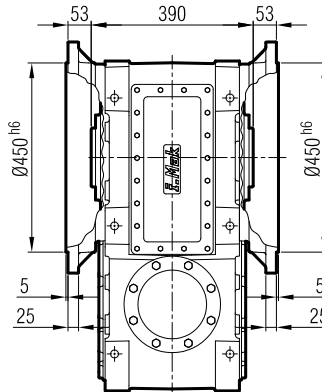
...-FL



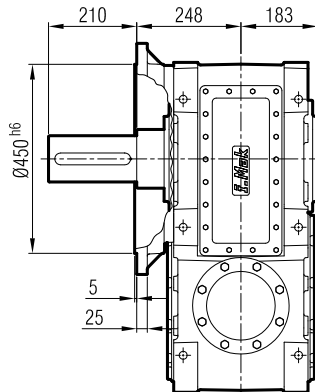
...-FR



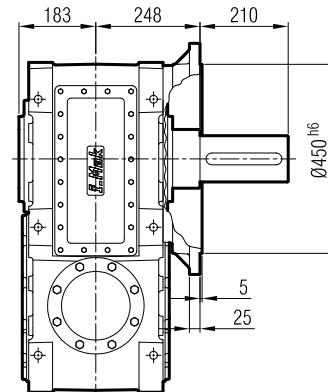
...-FD



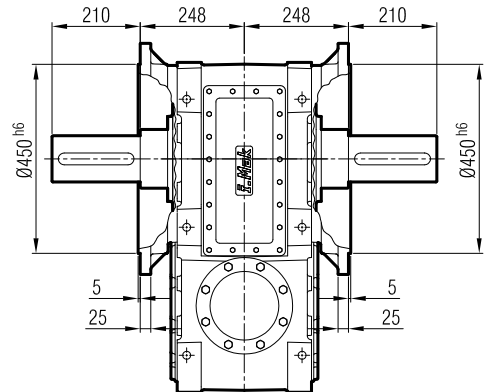
...-FL-SL



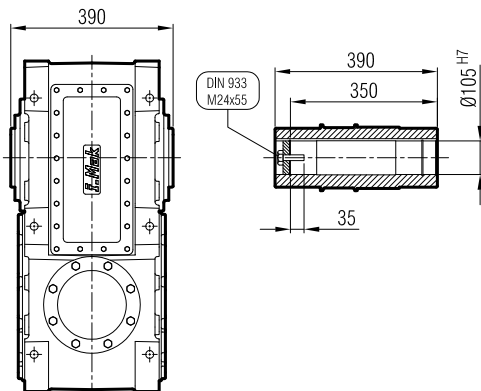
...-FR-SR



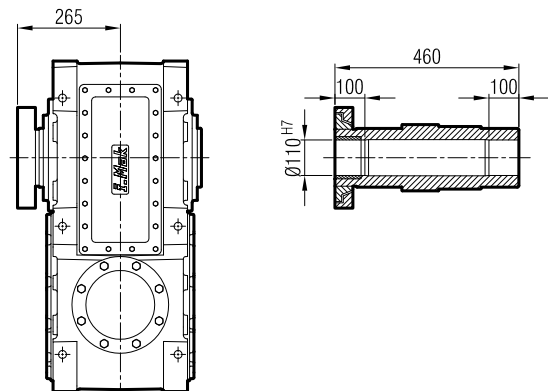
...-FD-SD



...-H

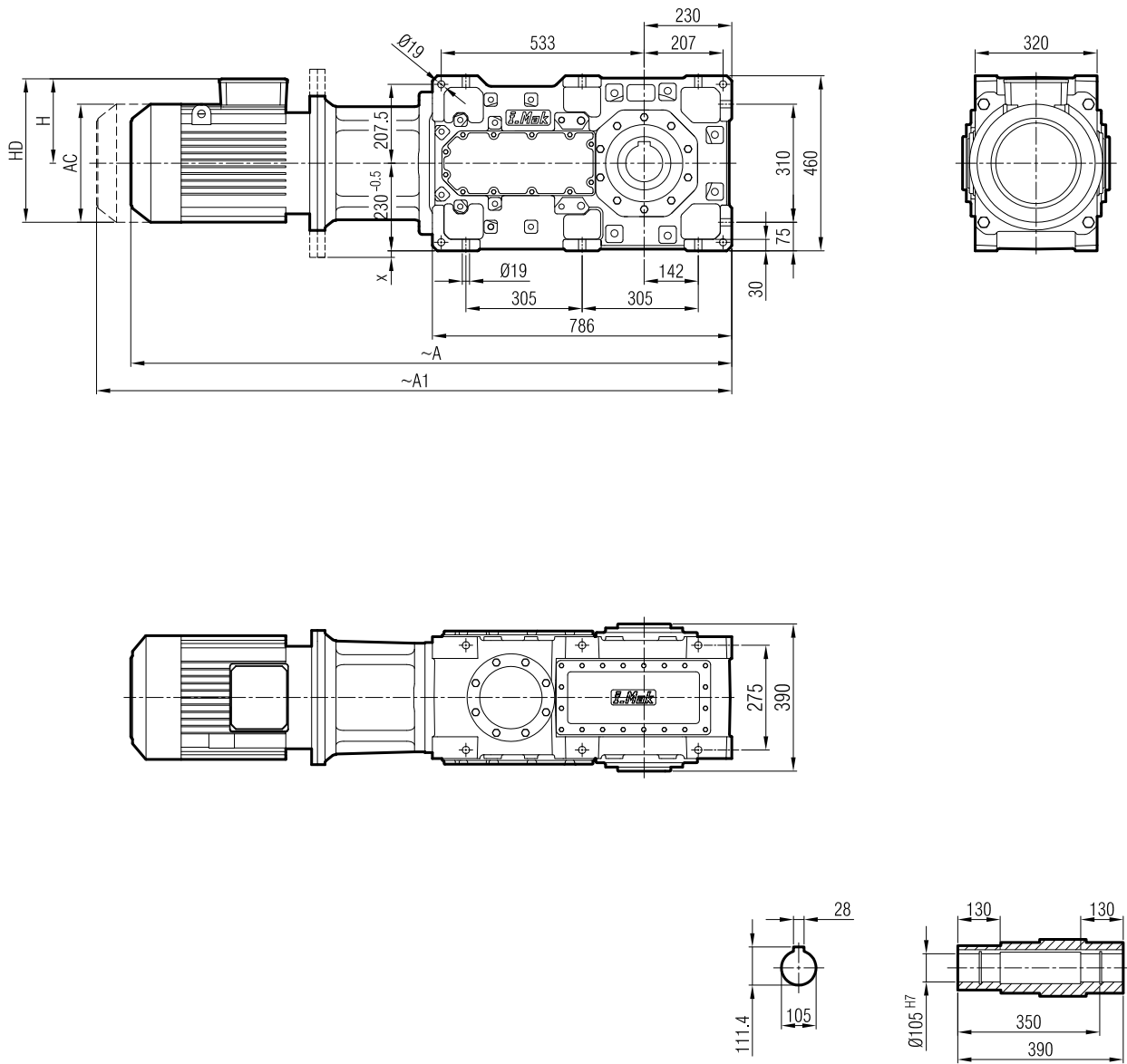


...-SDL / SDR





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	90 L/B5	100 L/B5	112 M/B5	132 S/B5	132 M/B5	160 M/B5	160 L/B5	180 M/B5
A	1368	1425	1397	1474	1515	1623	1668	1744
A1	1435	1502	1492	1578	1619	1740	1785	1880
H	141	161	170	193	193	240	240	260
HD	231	261	282	325	325	400	400	440
AC	176	195	220	262	262	315	315	357
x	-	-	-	-	-	-	-	-

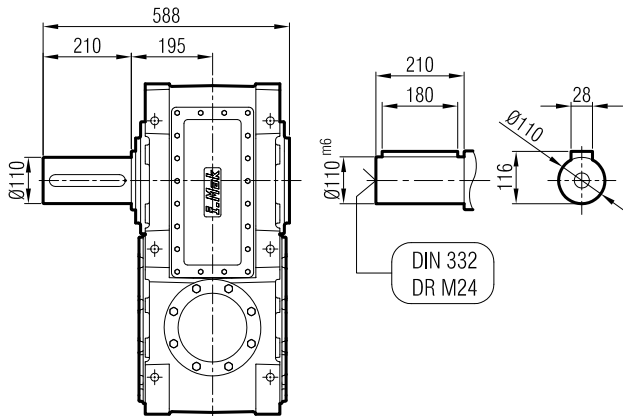
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

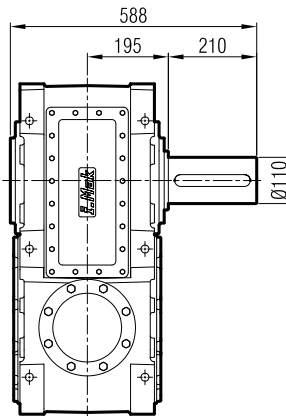
Le dimensions "AI" correspond aux moteurs équipés de freins.



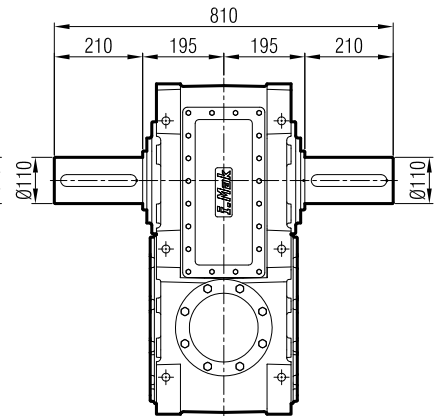
MA / MK 60_
...-SL



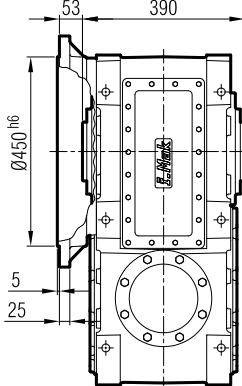
...-SR



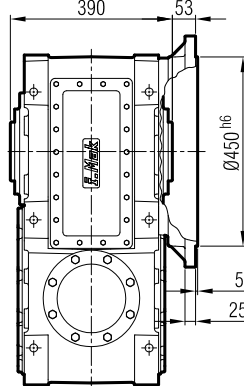
...-SD



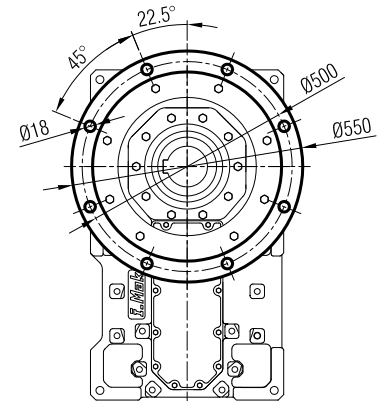
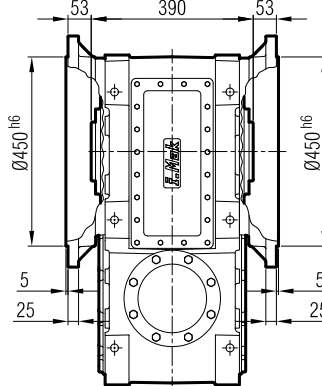
...-FL



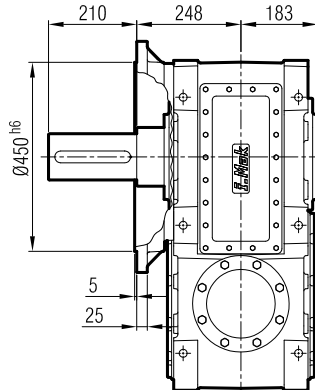
...-FR



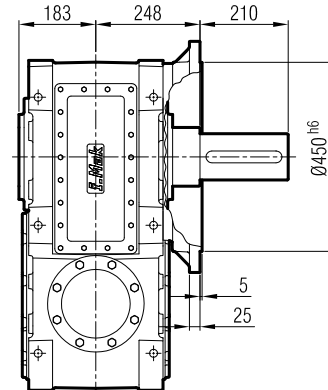
...-FD



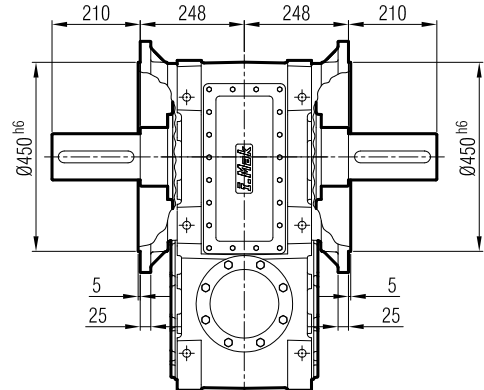
...-FL-SL



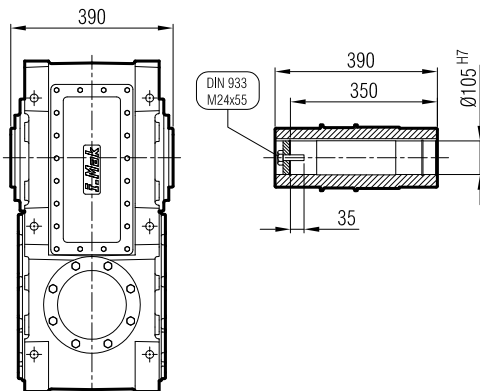
...-FR-SR



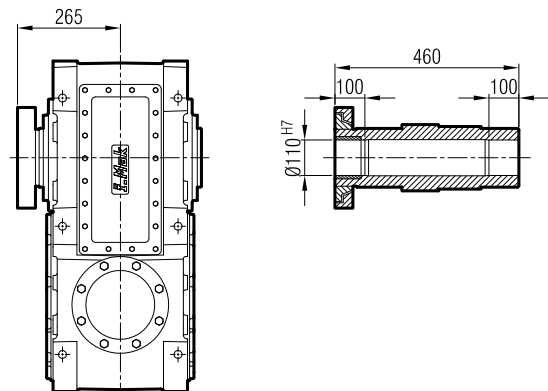
...-FD-SD



...-H

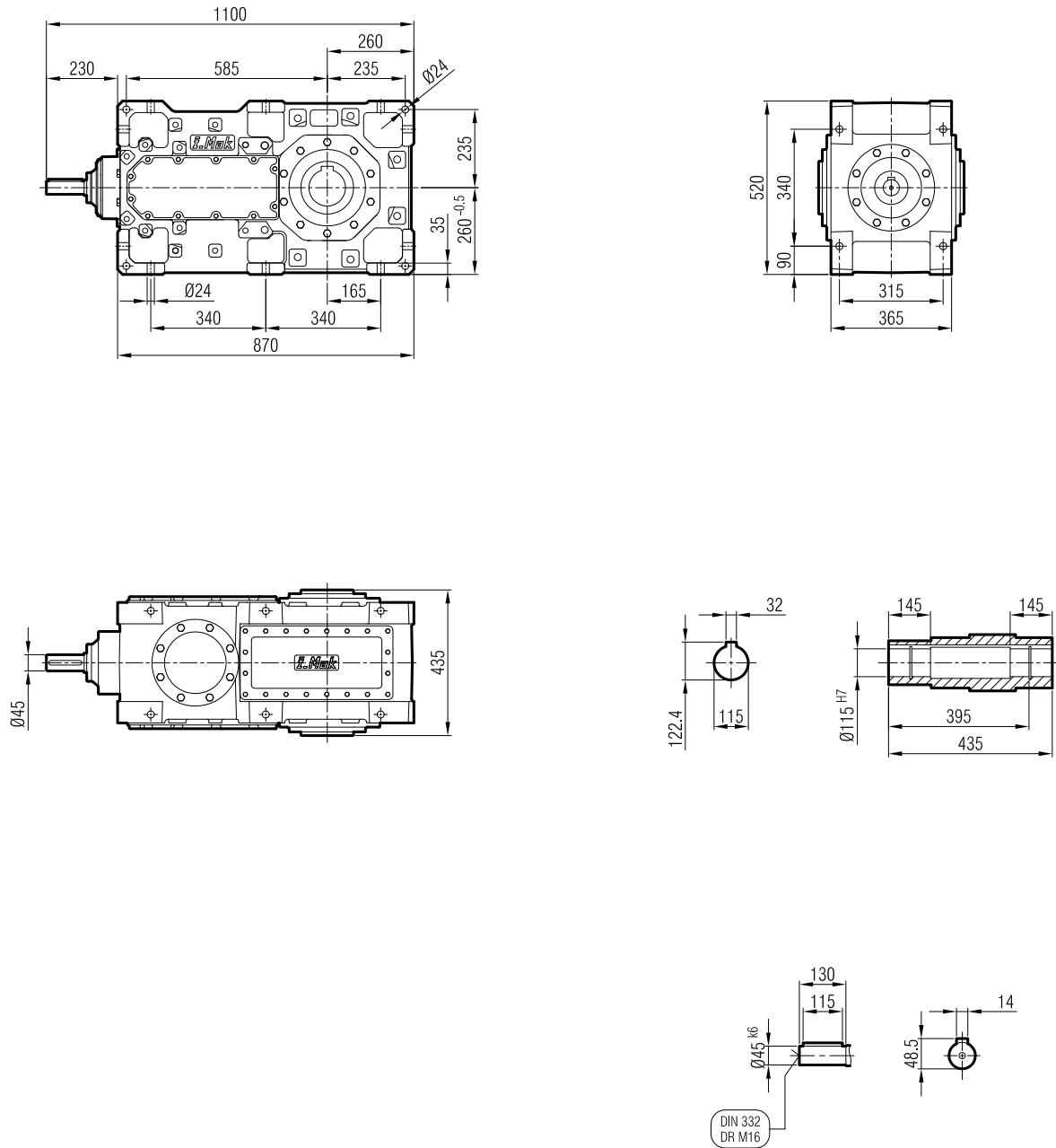


...-SDL / SDR



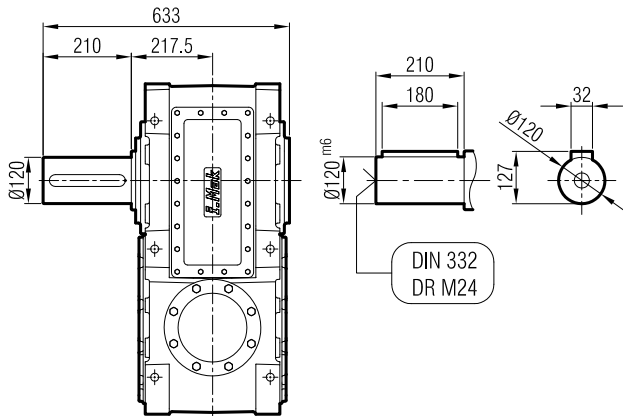


MK 703-G07

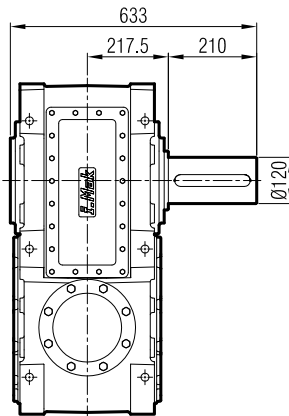




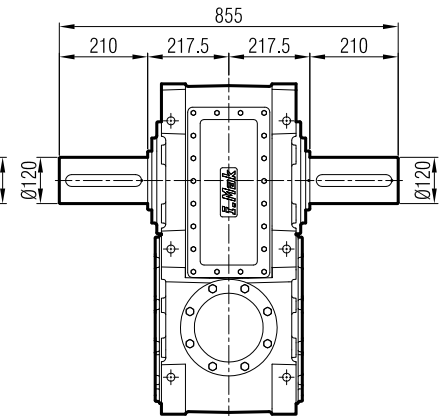
MA / MK 70_
...-SL



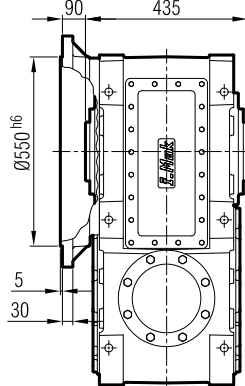
...-SR



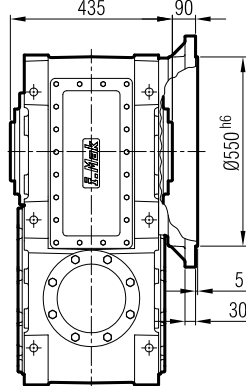
...-SD



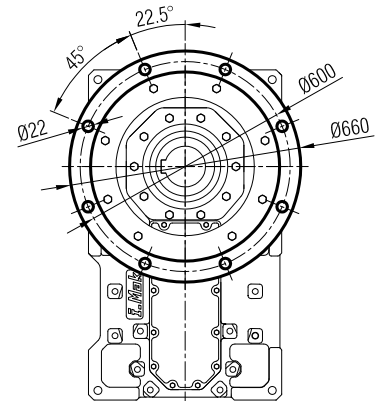
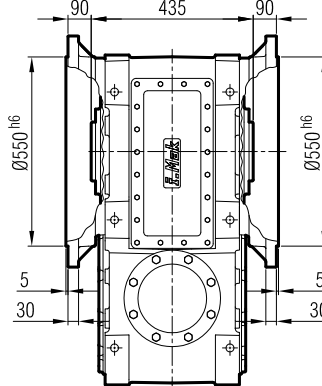
...-FL



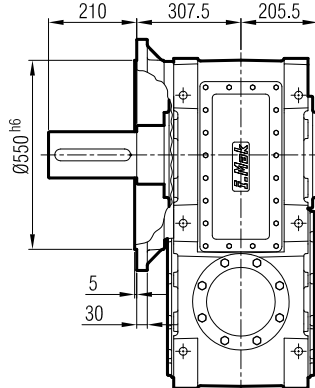
...-FR



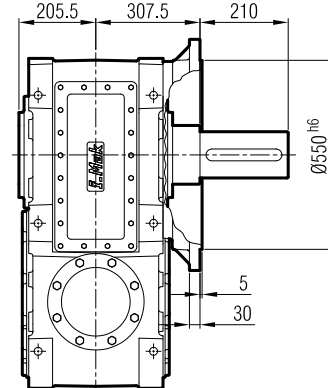
...-FD



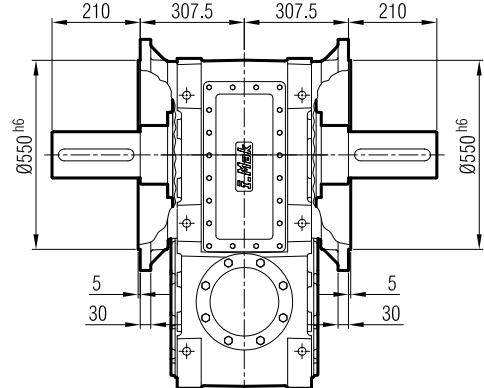
...-FL-SL



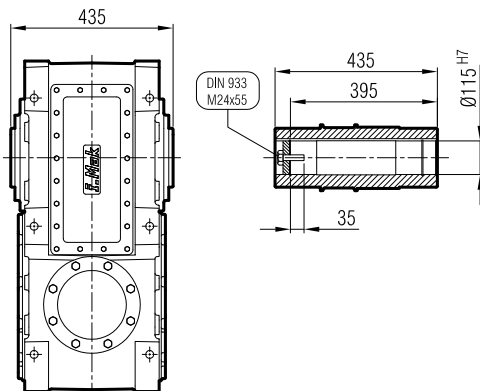
...-FR-SR



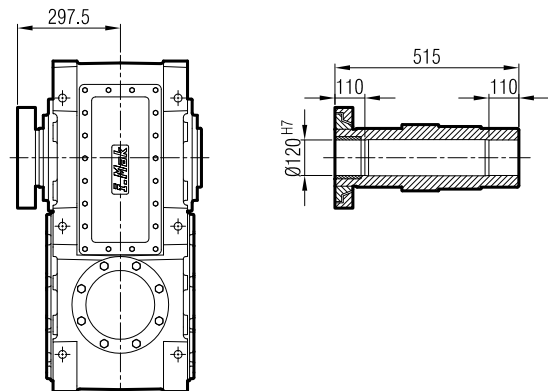
...-FD-SD

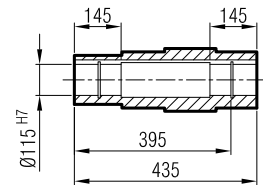
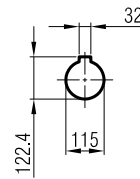
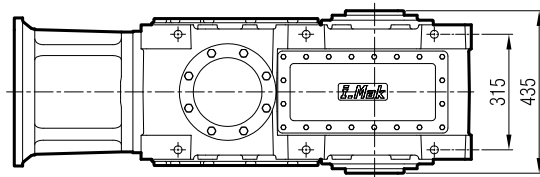
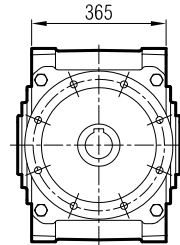
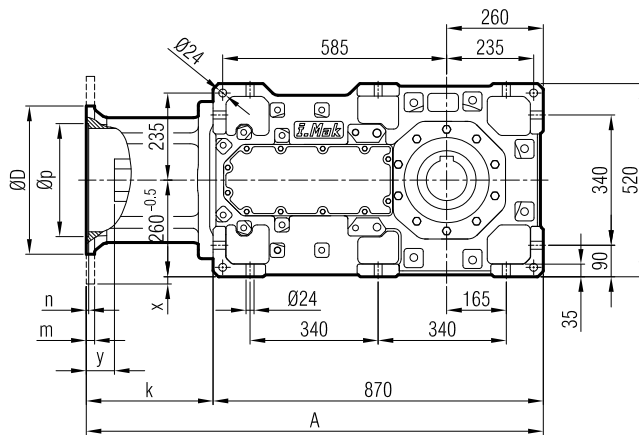


...-H

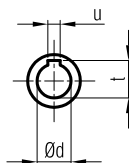
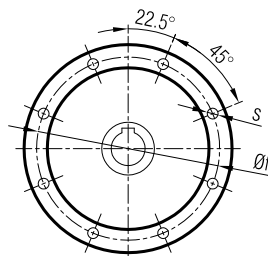
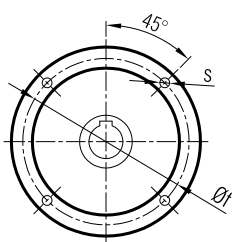


...-SDL / SDR



**MKP 703-G09**
$$\leq 200 \text{ B5 Tip/Type/Typ}$$

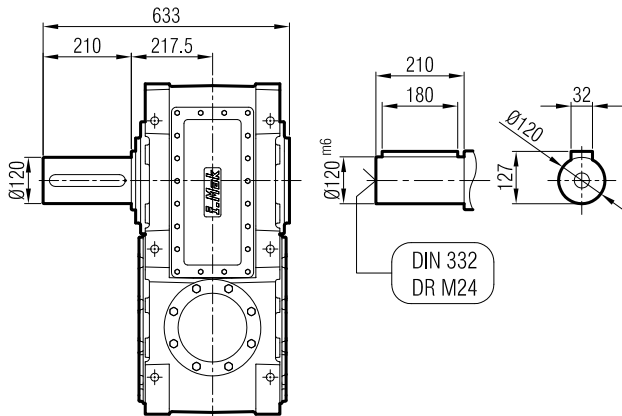
≥ 225 B5 **Tip**/Type/Typ



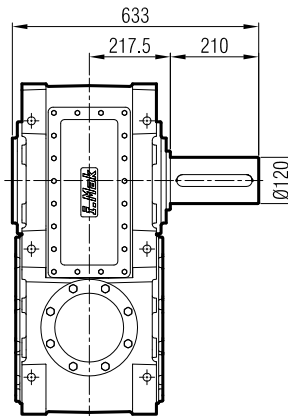
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	1215	250	300	350	M14	345	20	6	42	45.3	12	-	48
180/B5	1215	250	300	350	M14	345	20	6	48	51.8	14	-	48
200/B5	1215	300	350	400	M16	345	22	6	55	59.3	16	-	48
225/B5	1258	350	400	450	M16	388	22	6	60	64.4	18	-	80
250/B5	1258	450	500	550	M16	388	25	6.5	65	69.4	18	15	75
280/B5	1258	450	500	550	M16	388	25	6.5	75	75.9	20	15	65



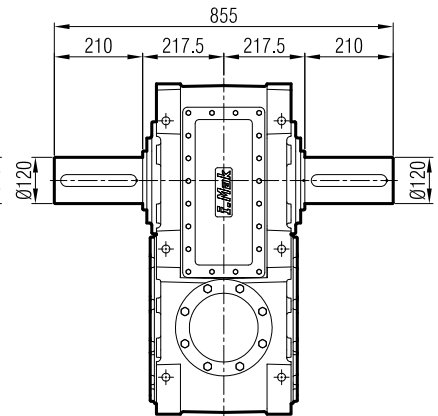
MA / MK 70_
...-SL



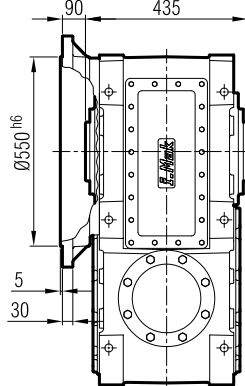
...-SR



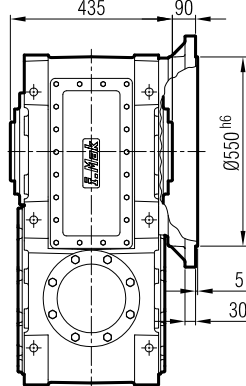
...-SD



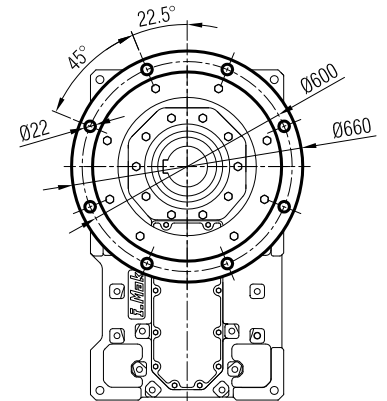
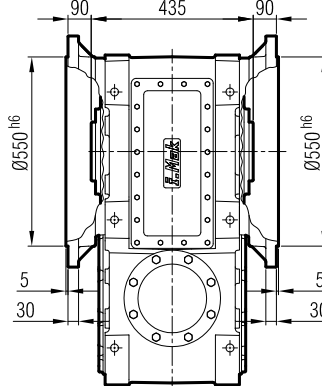
...-FL



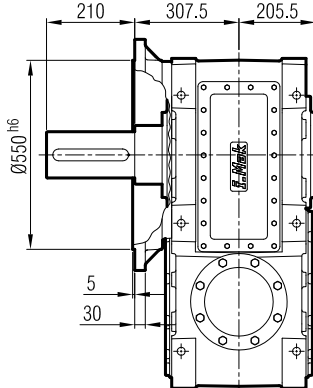
...-FR



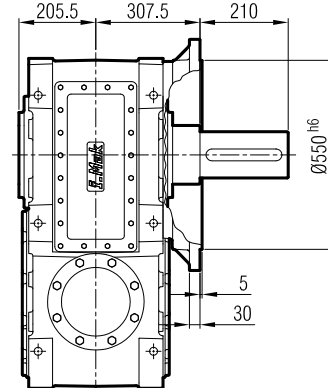
...-FD



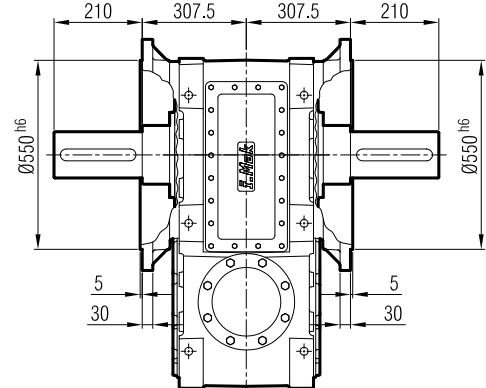
...-FL-SL



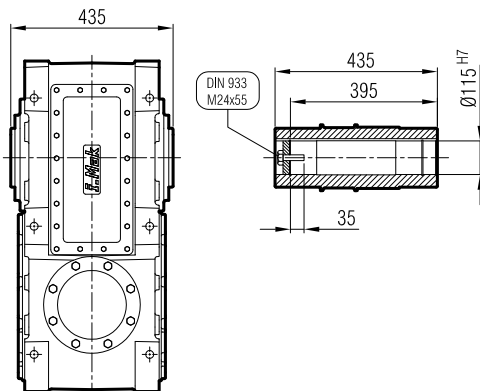
...-FR-SR



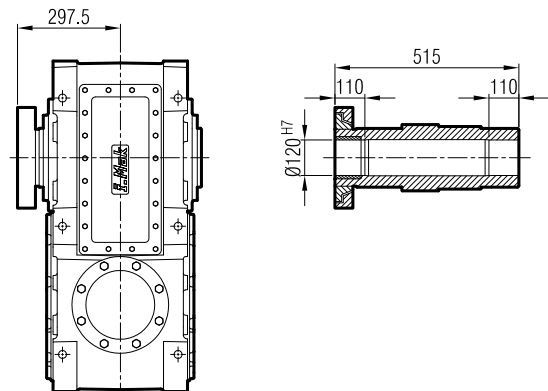
...-FD-SD



...-H

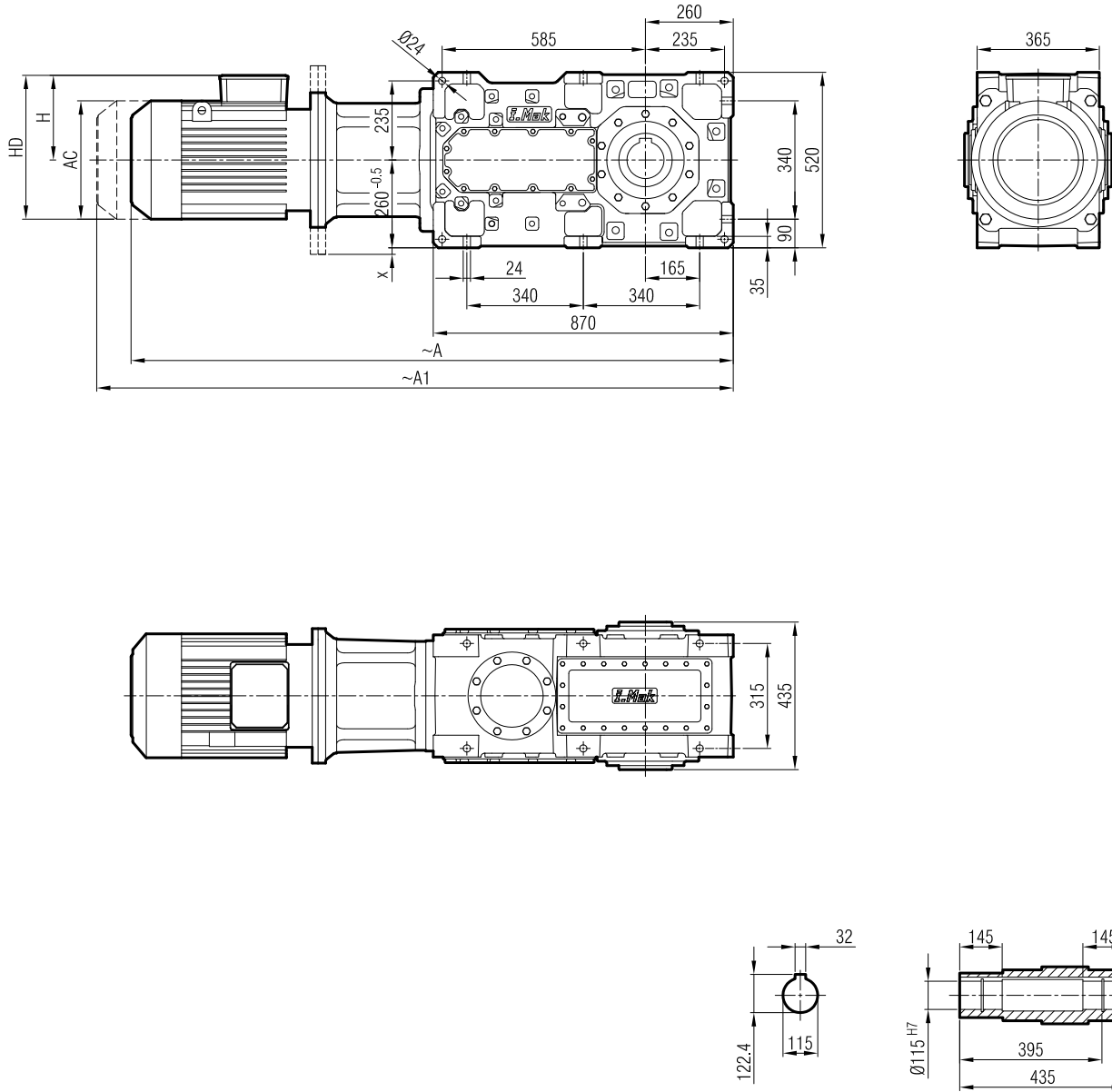


...-SDL / SDR





MKM 703-G09



	160 L/B5	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5
A	1780	1856	1856	1924	1943	2003	2053	2143
A1	1897	1992	1992	2071	2090	2150	2200	2391
H	240	260	260	300	313	313	366	398
HD	400	440	440	500	538	538	618	678
AC	315	357	357	394	456	456	489	548
x	-	-	-	-	-	-	15	15

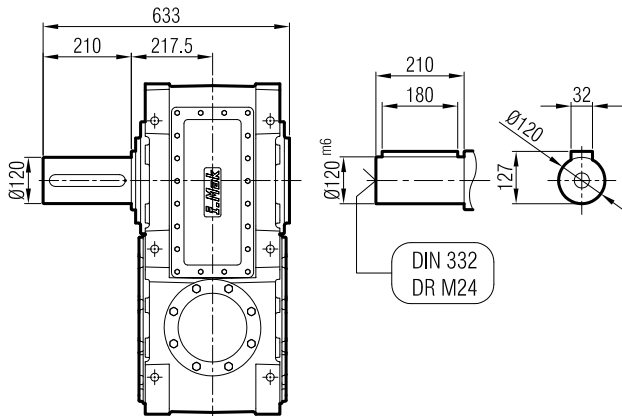
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

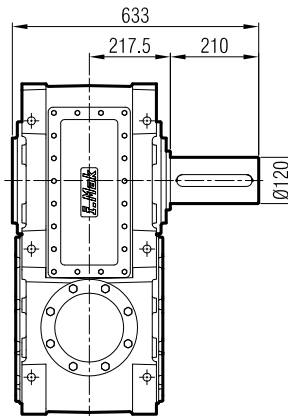
Le dimensions "A1" correspond aux moteurs équipés de freins.



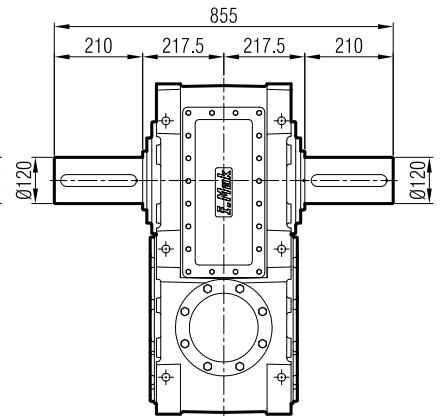
MA / MK 70_
...-SL



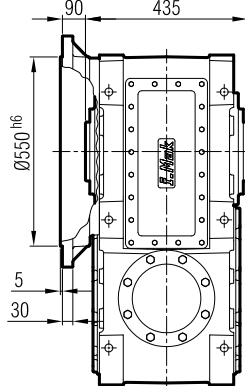
...-SR



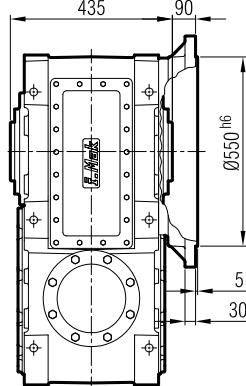
...-SD



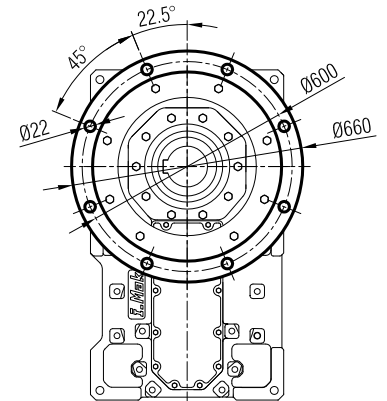
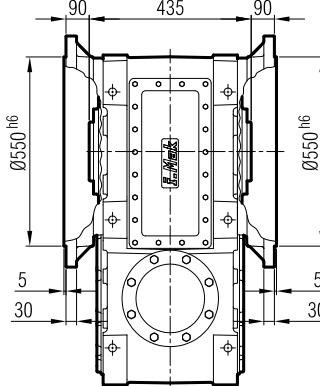
...-FL



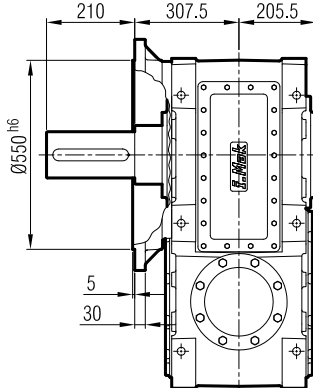
...-FR



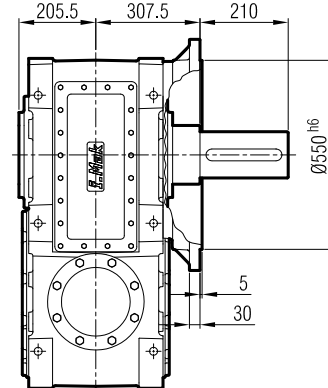
...-FD



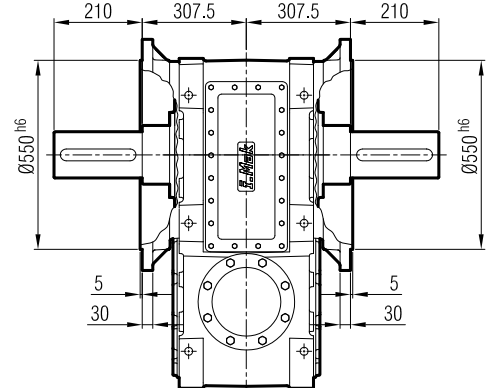
...-FL-SL



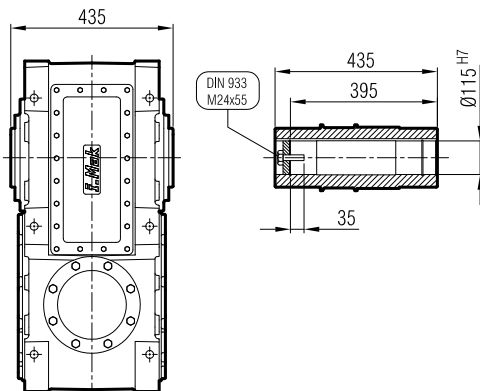
...-FR-SR



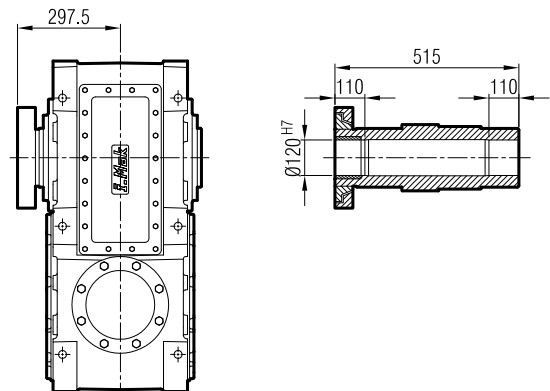
...-FD-SD



...-H

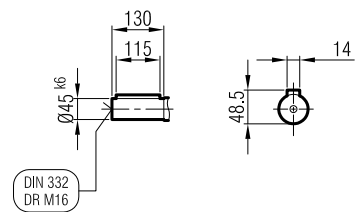
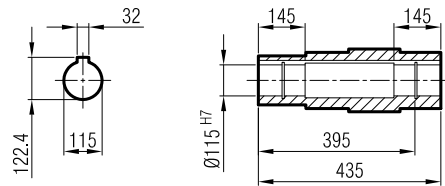
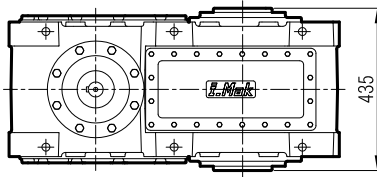
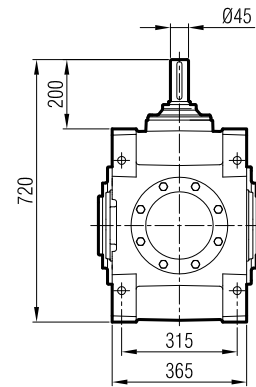
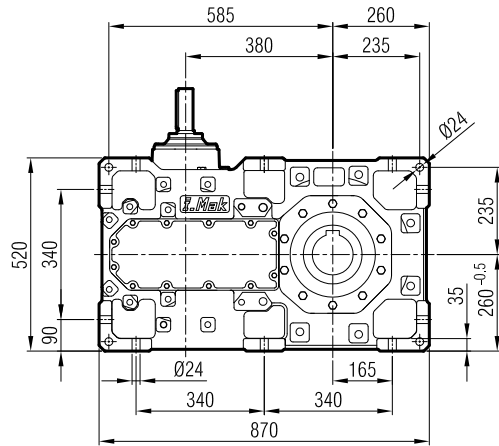


...-SDL / SDR





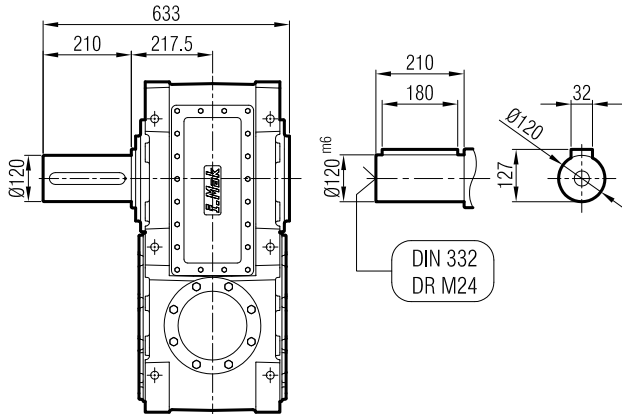
MK 703-G08



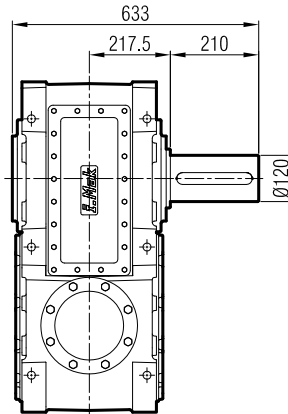
DIN 332
DR M16



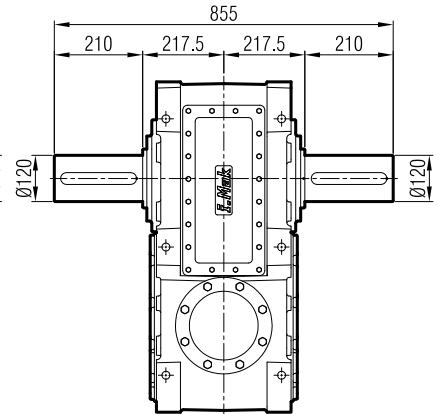
MA / MK 70_
...-SL



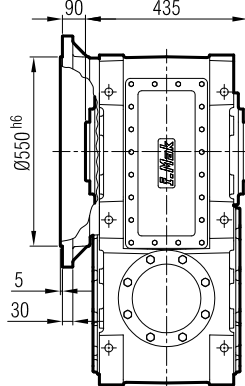
...-SR



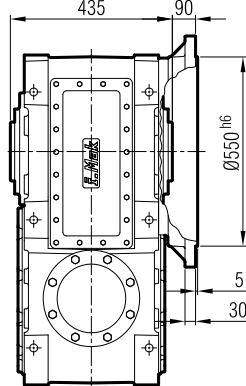
...-SD



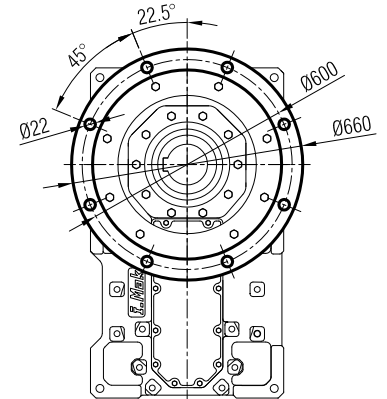
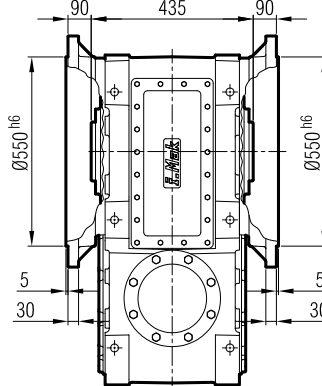
...-FL



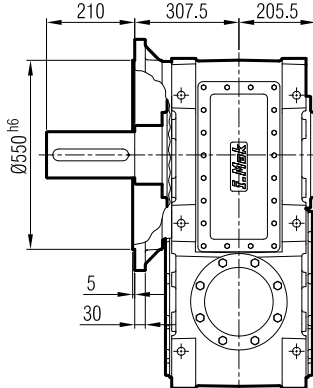
...-FR



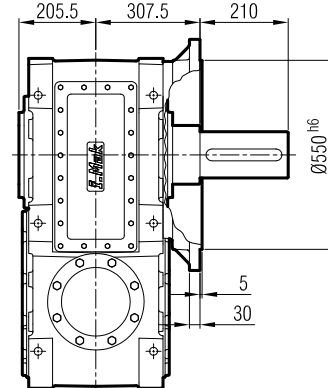
...-FD



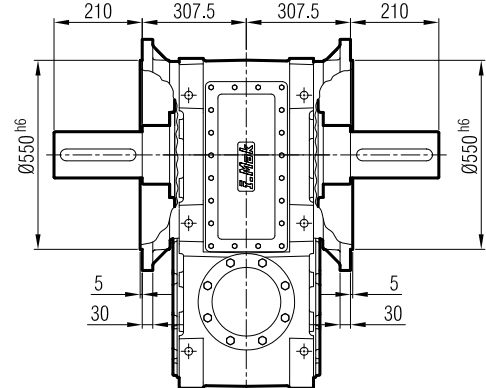
...-FL-SL



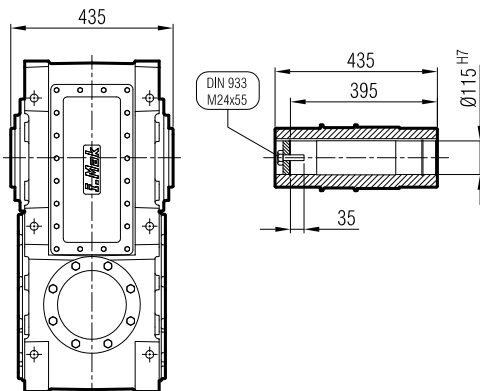
...-FR-SR



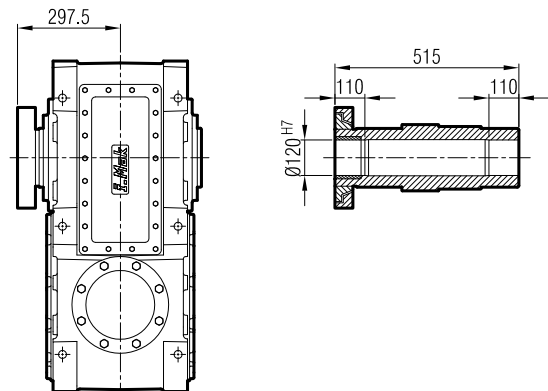
...-FD-SD

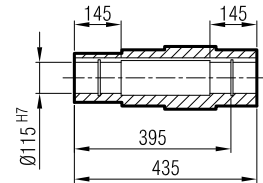
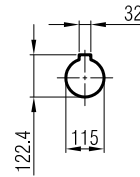
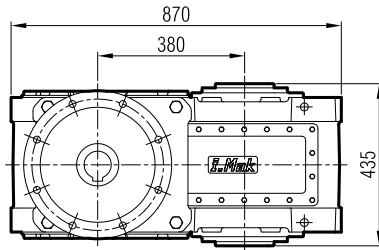
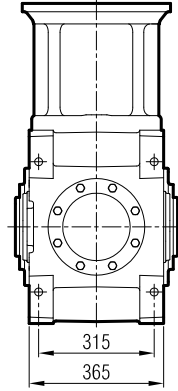
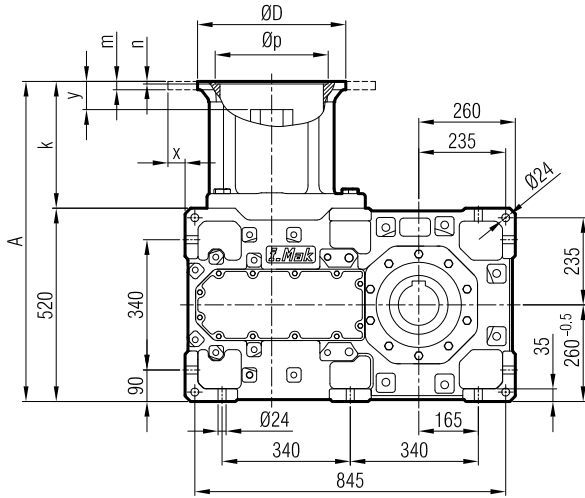


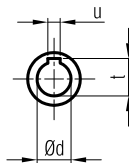
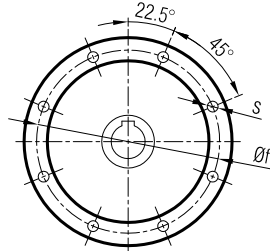
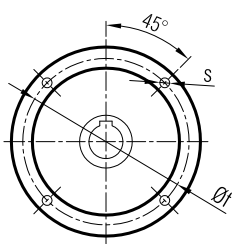
...-H



...-SDL / SDR



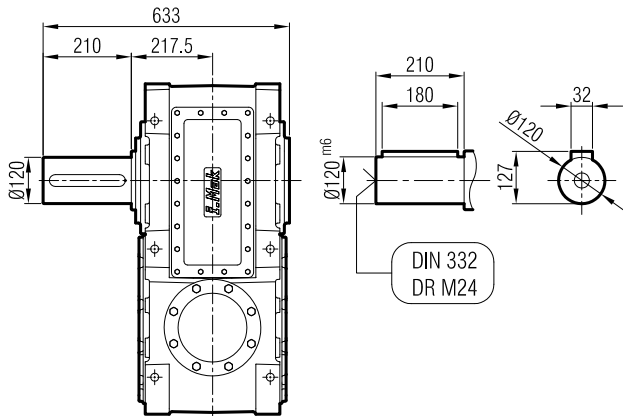

MKP 703-G10

 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


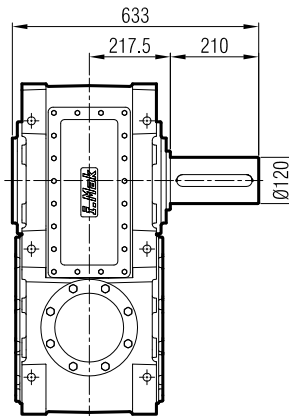
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	835	250	300	350	M14	315	20	6	42	45.3	12	-	48
180/B5	835	250	300	350	M14	315	20	6	48	51.8	14	-	48
200/B5	835	300	350	400	M16	315	22	6	55	59.3	16	-	48
225/B5	878	350	400	450	M16	358	22	6	60	64.4	18	-	80
250/B5	878	450	500	550	M16	358	25	6.5	65	69.4	18	45	75
280/B5	878	450	500	550	M16	358	25	6.5	75	75.9	20	45	65



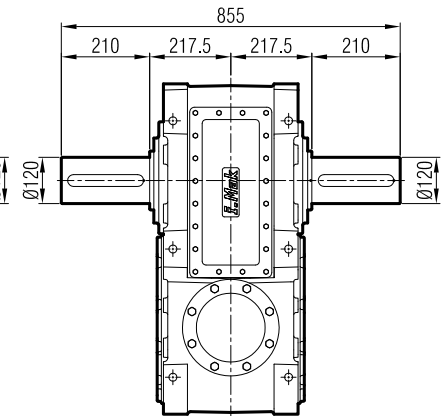
MA / MK 70_
...-SL



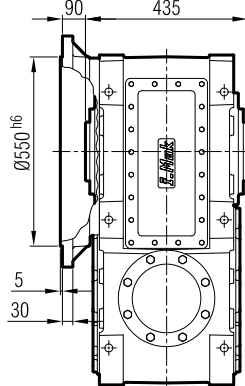
...-SR



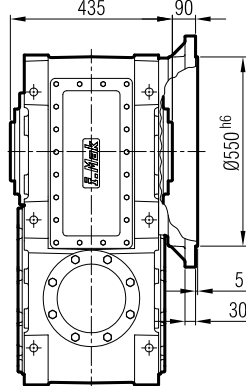
...-SD



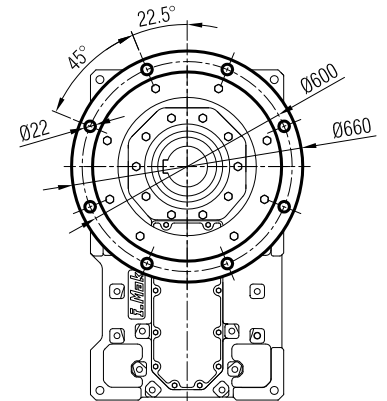
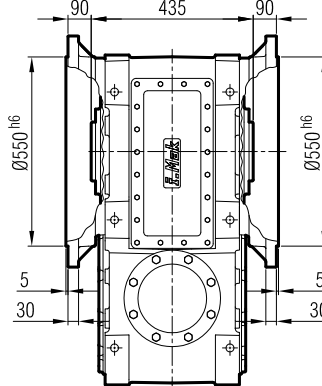
...-FL



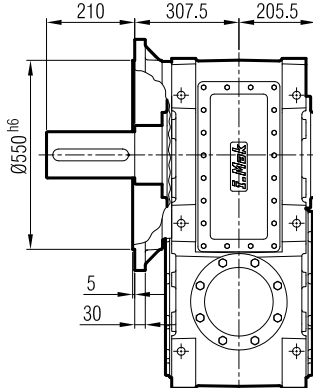
...-FR



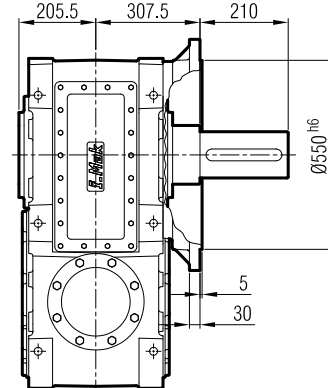
...-FD



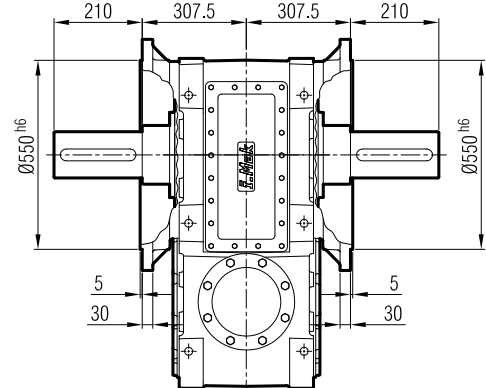
...-FL-SL



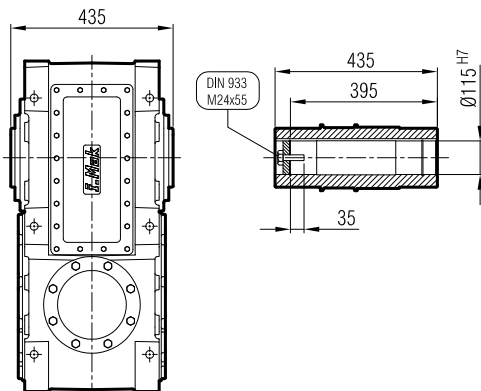
...-FR-SR



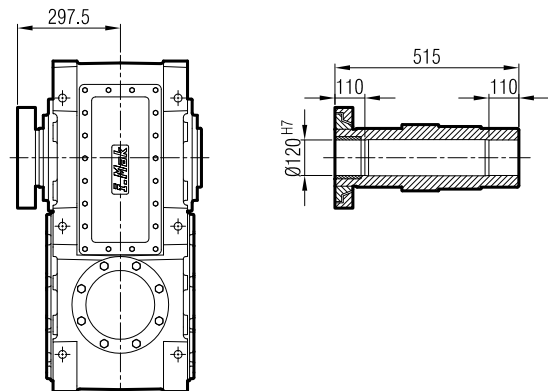
...-FD-SD



...-H

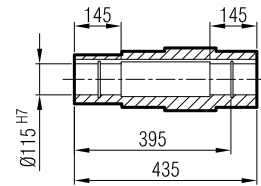
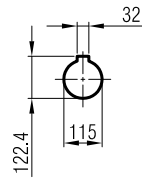
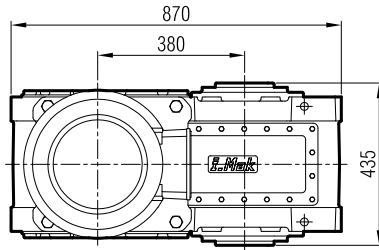
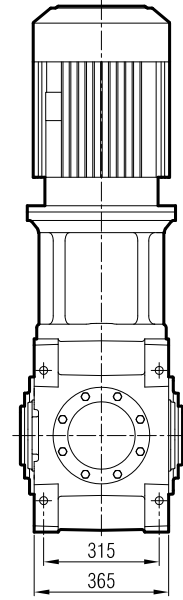
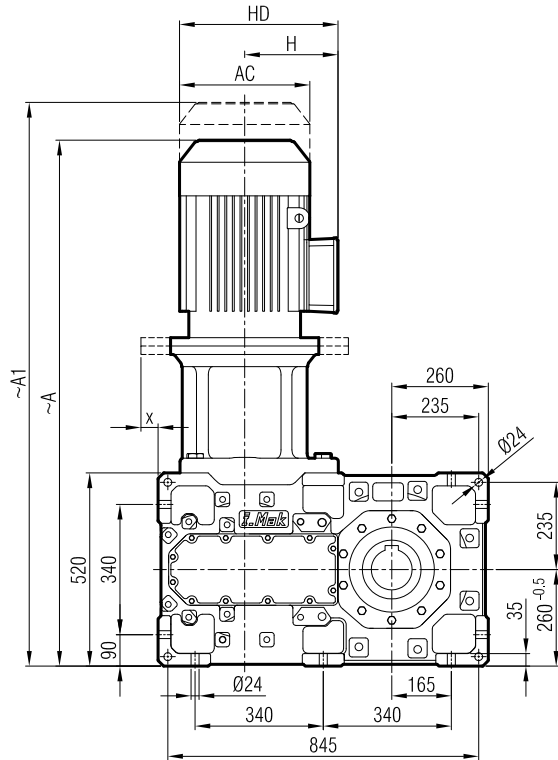


...-SDL / SDR





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	160 L/B5	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5
A	1400	1476	1476	1544	1563	1623	1673	1763
A1	1517	1612	1612	1691	1710	1770	1820	2011
H	240	260	260	300	313	313	366	398
HD	400	440	440	500	538	538	618	678
AC	315	357	357	394	456	456	489	548
x	-	-	-	-	-	-	45	45

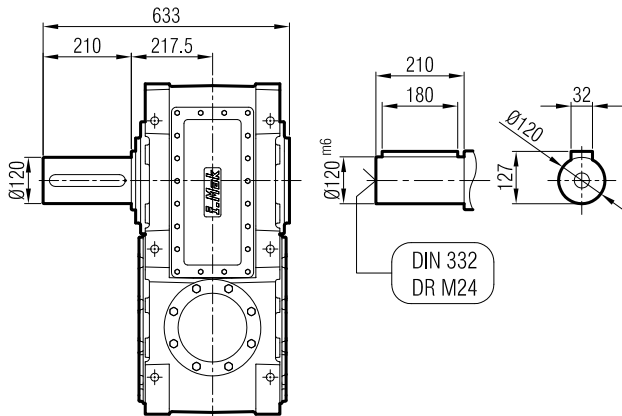
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

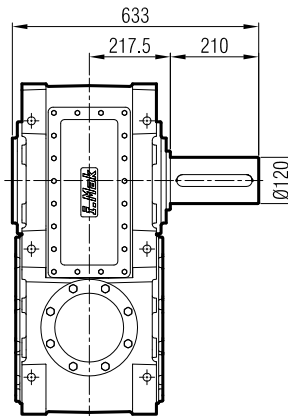
Le dimensions "A1" correspond aux moteurs équipés de freins.



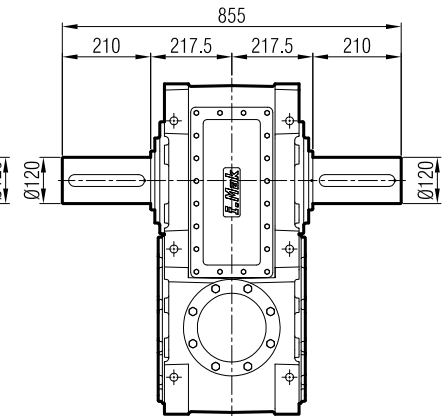
MA / MK 70_
...-SL



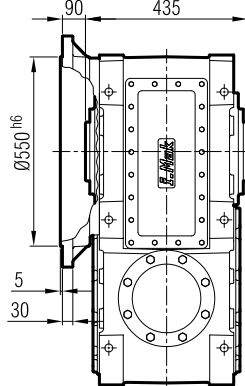
...-SR



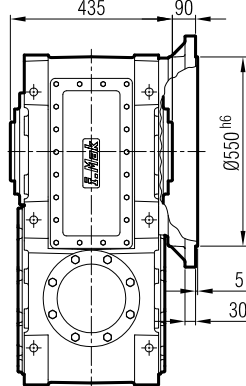
...-SD



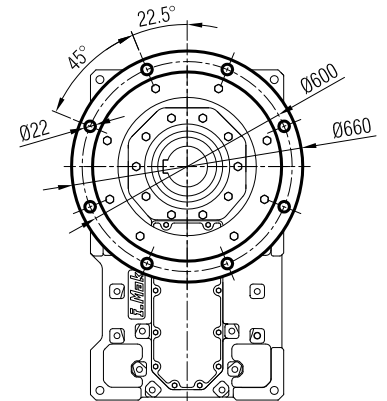
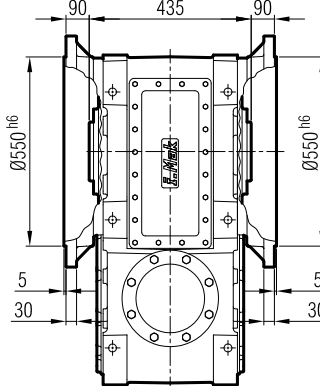
...-FL



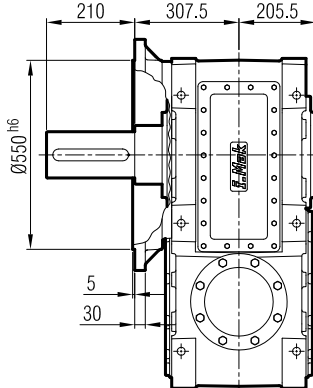
...-FR



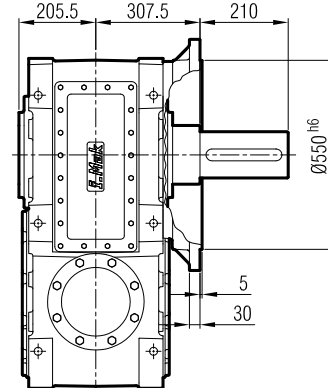
...-FD



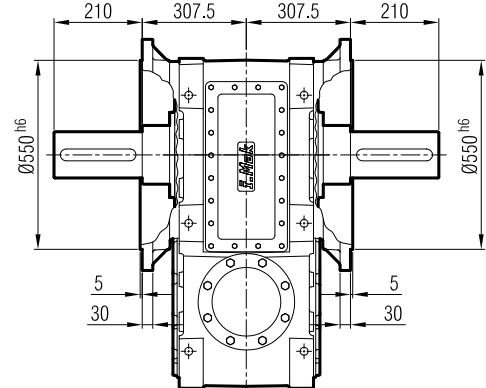
...-FL-SL



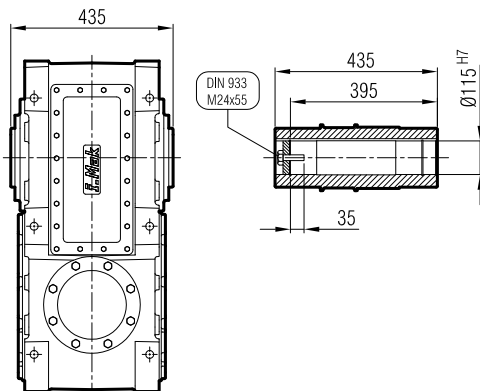
...-FR-SR



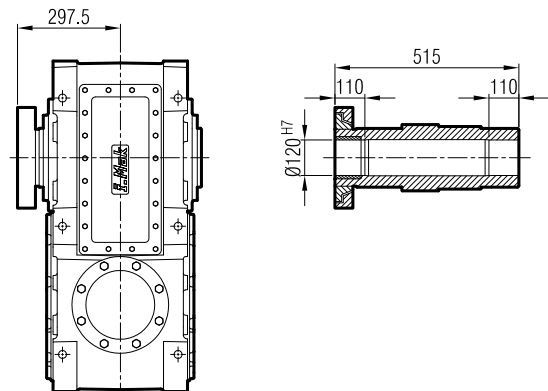
...-FD-SD



...-H

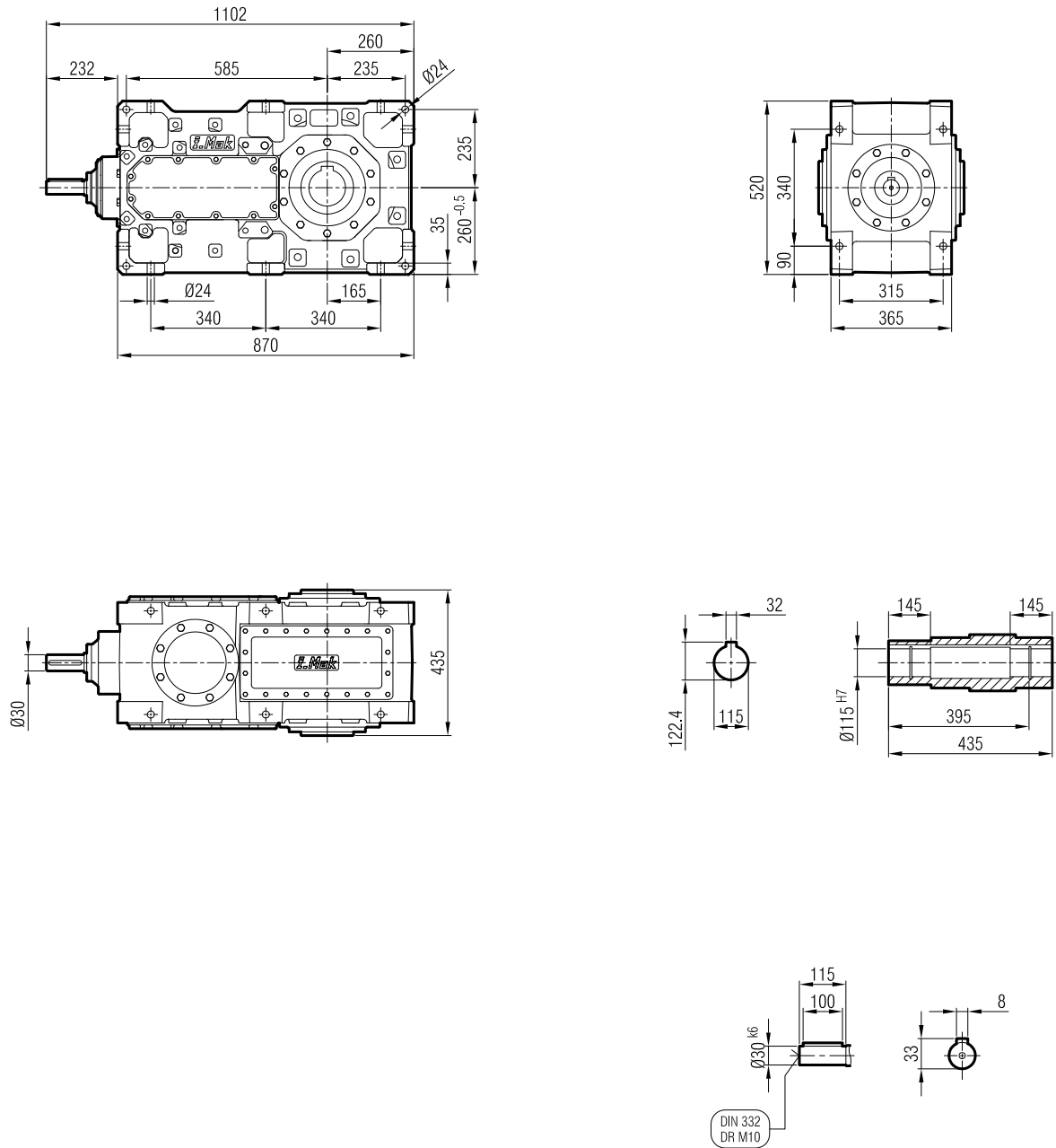


...-SDL / SDR



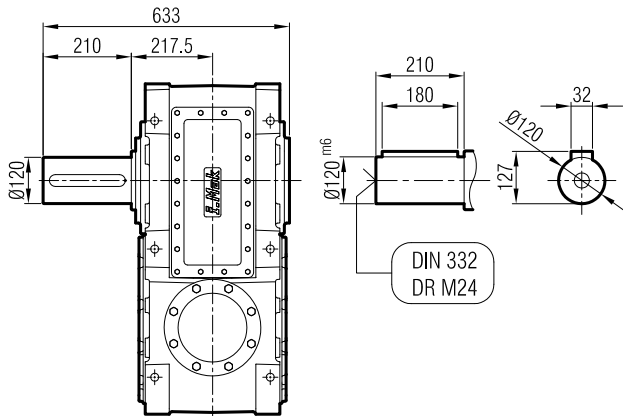


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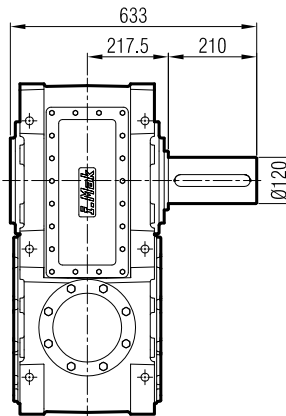




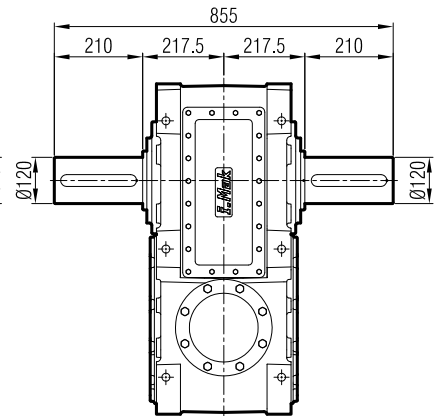
MA / MK 70_
...-SL



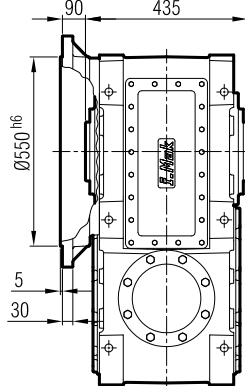
...-SR



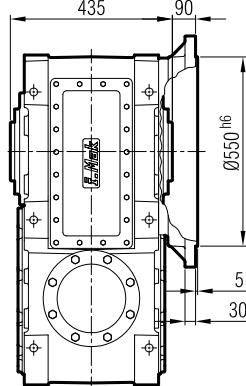
...-SD



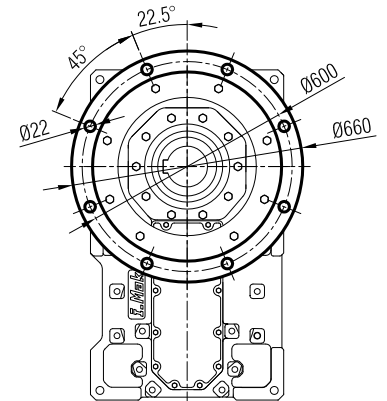
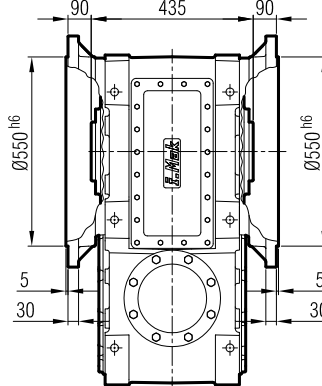
...-FL



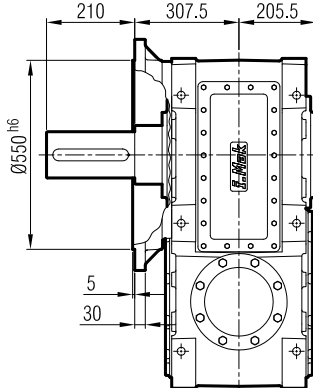
...-FR



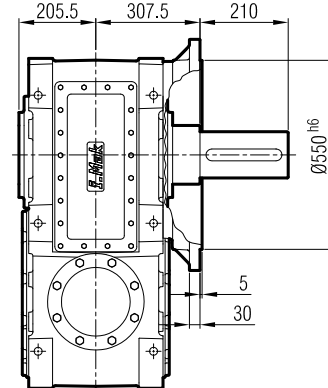
...-FD



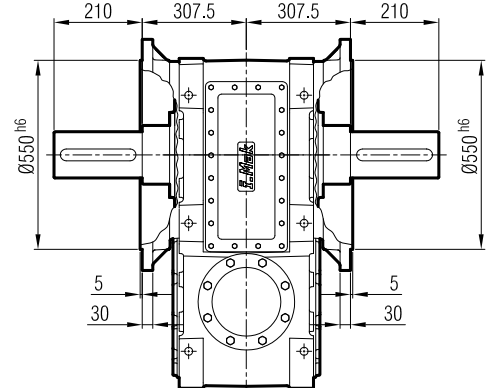
...-FL-SL



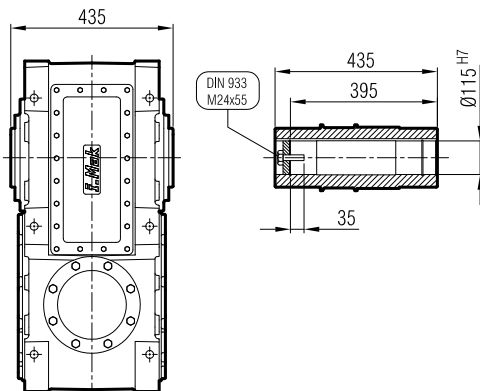
...-FR-SR



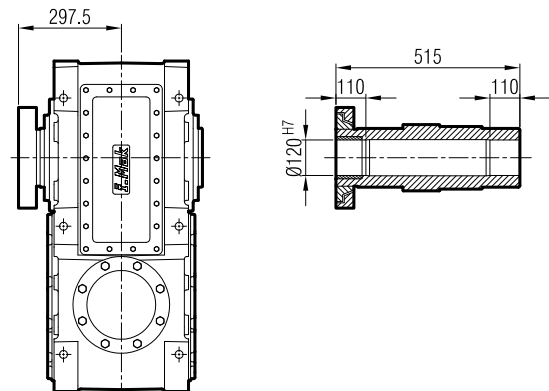
...-FD-SD

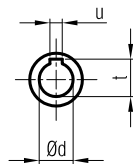
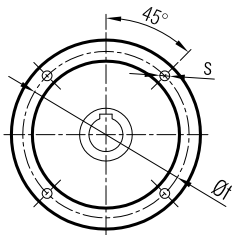
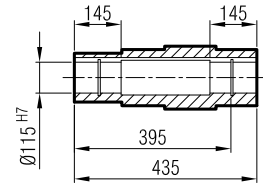
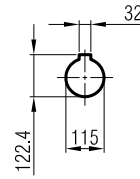
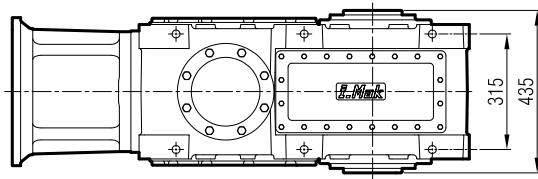
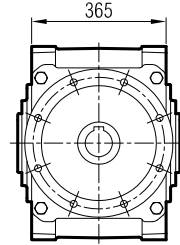
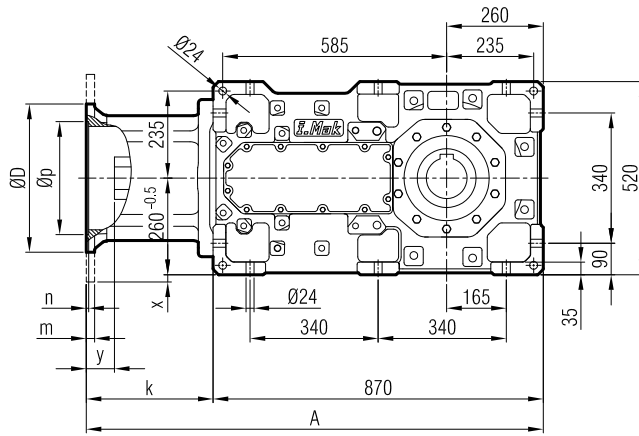


...-H



...-SDL / SDR

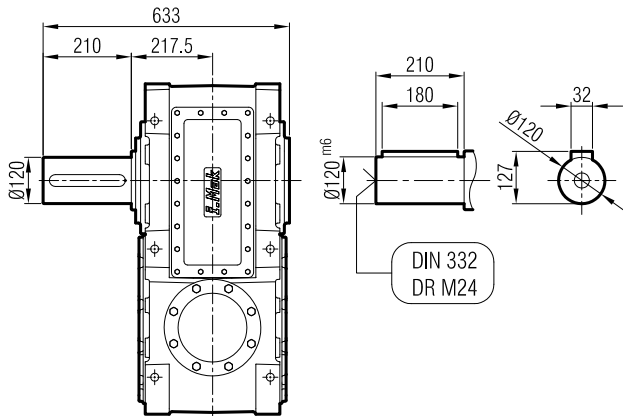



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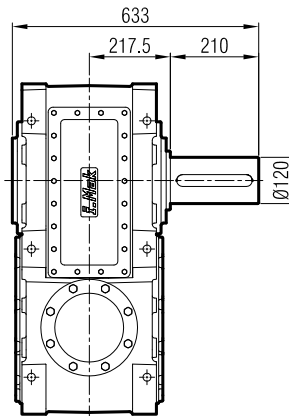
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
100/B5	1178	180	215	250	M12	314	15	5	28	31.3	8	-	30
112/B5	1178	180	215	250	M12	314	15	5	28	31.3	8	-	30
132/B5	1198	230	265	300	M12	334	18	6	38	41.3	10	-	45
160/B5	1215	250	300	350	M14	345	20	6	42	45.3	12	-	70
180/B5	1215	250	300	350	M14	345	20	6	48	51.8	14	-	60
200/B5	1215	300	350	400	M16	345	22	6	55	59.3	16	-	60



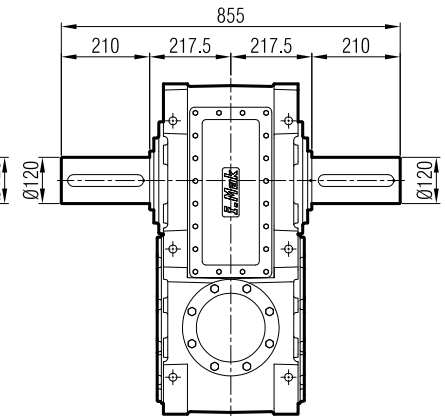
MA / MK 70_
...-SL



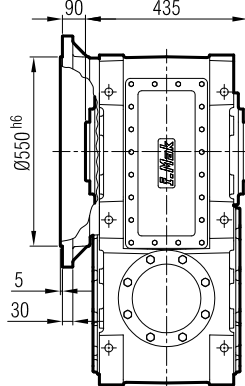
...-SR



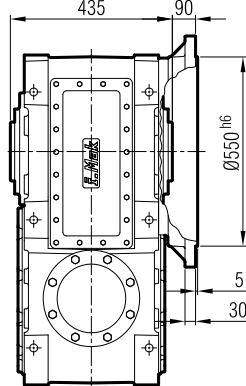
...-SD



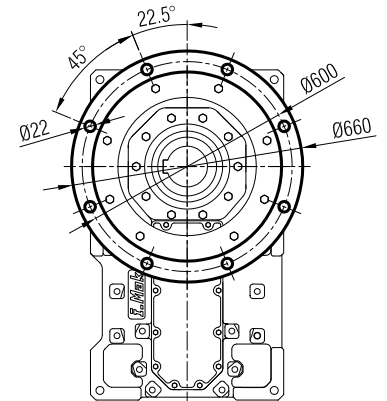
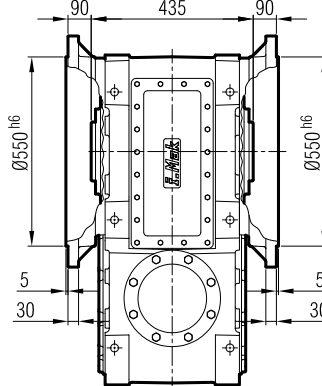
...-FL



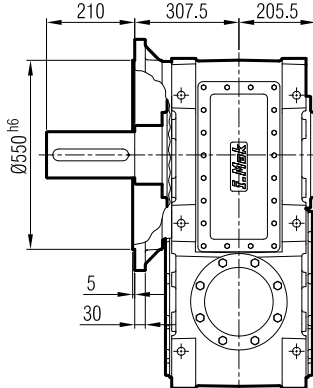
...-FR



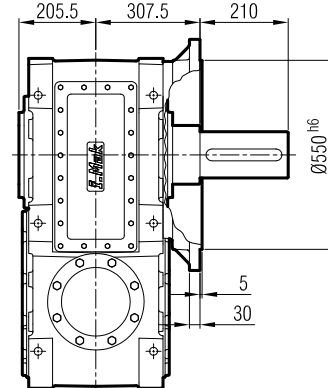
...-FD



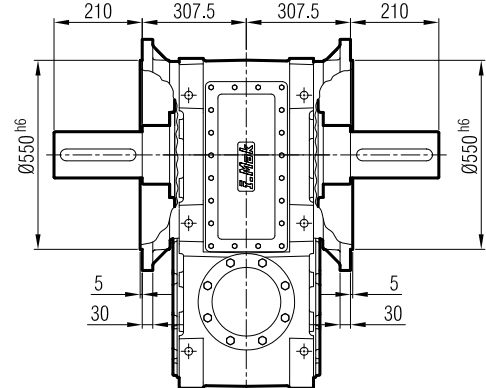
...-FL-SL



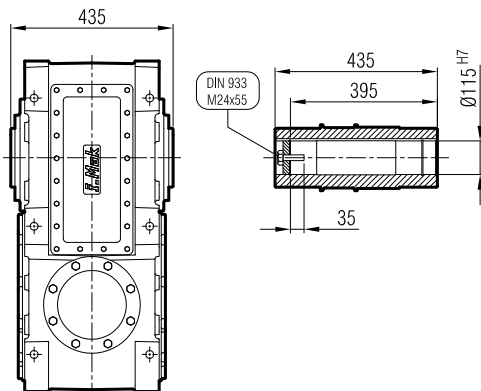
...-FR-SR



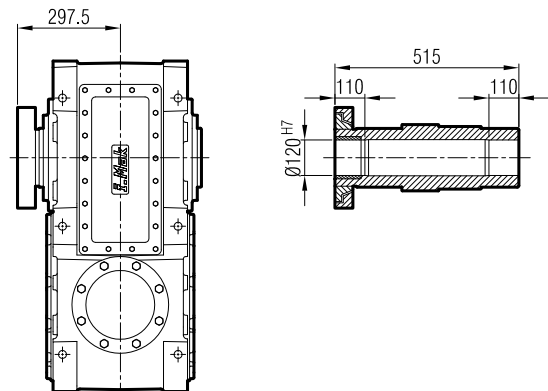
...-FD-SD

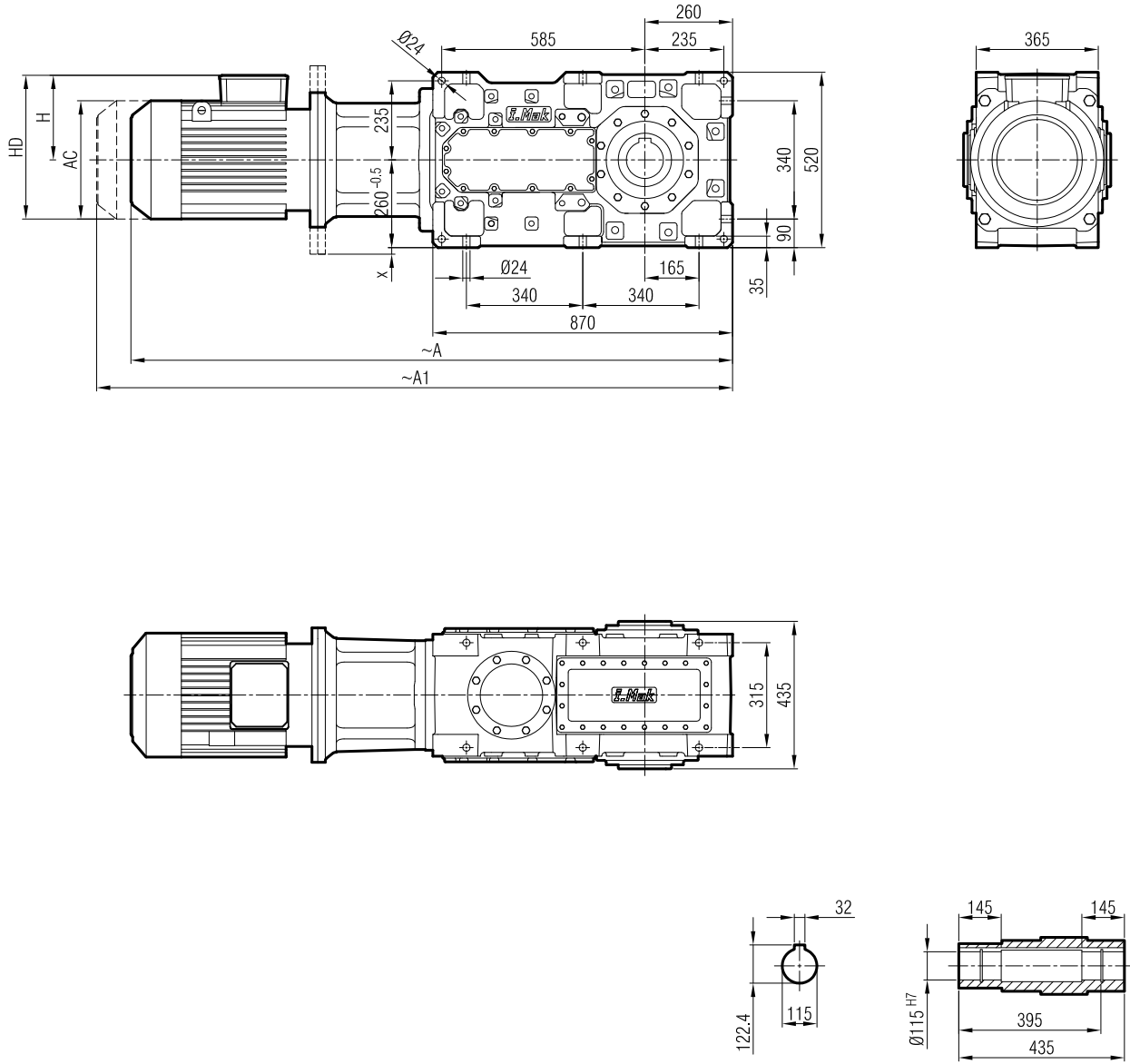


...-H



...-SDL / SDR




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	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	1550	1522	1599	1640	1735	1780	1856	1856	1924
A1	1627	1617	1703	1744	1852	1897	1992	1992	2071
H	161	170	193	193	240	240	260	260	300
HD	261	282	325	325	400	400	440	440	500
AC	195	220	262	262	315	315	357	357	394
x	-	-	-	-	-	-	-	-	-

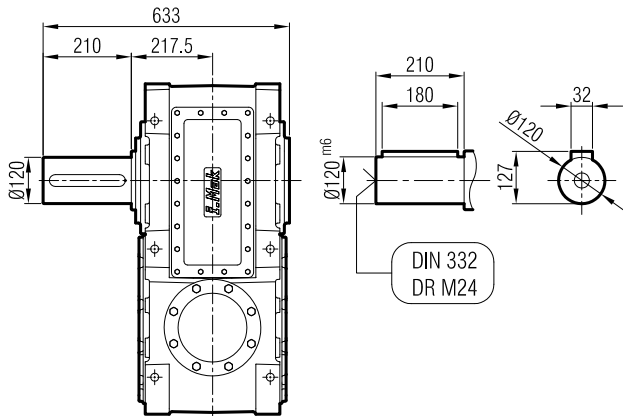
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

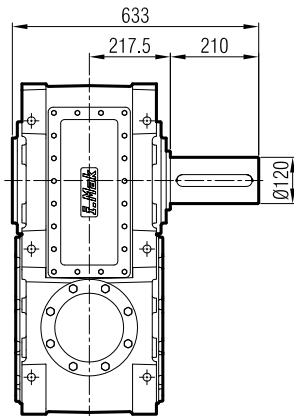
Le dimensions "A1" correspond aux moteurs équipés de freins.



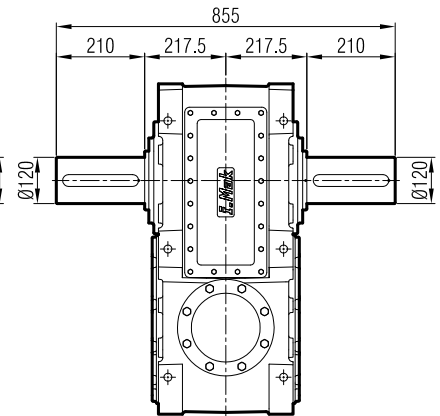
MA / MK 70_
...-SL



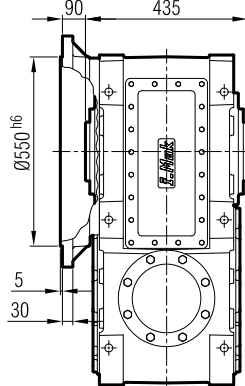
...-SR



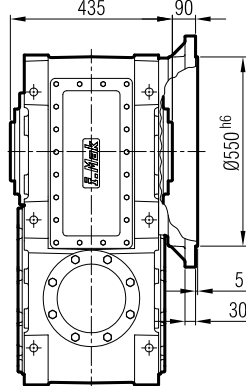
...-SD



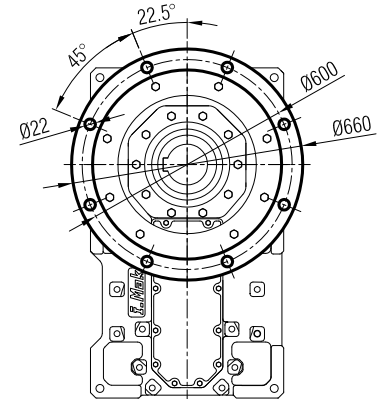
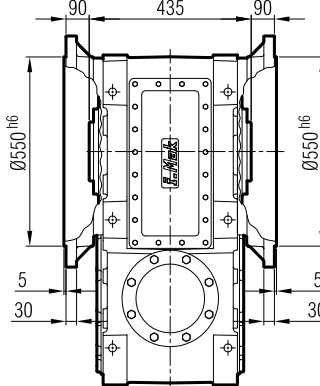
...-FL



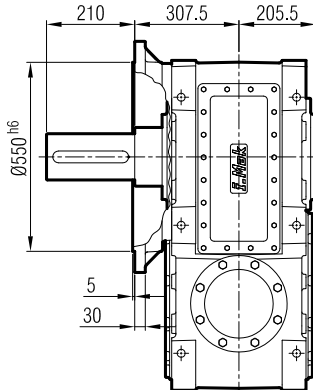
...-FR



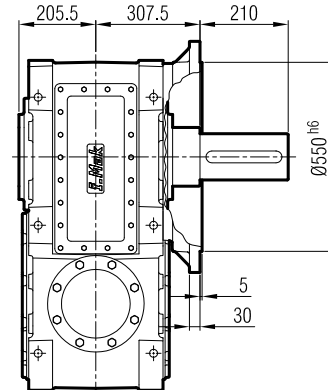
...-FD



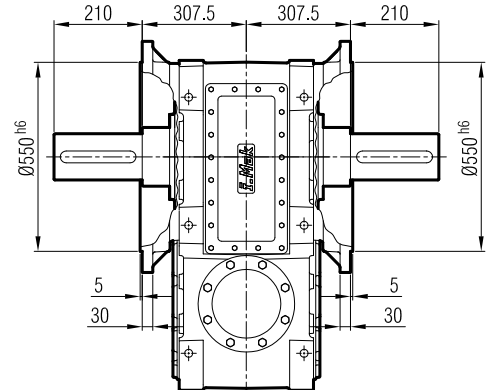
...-FL-SL



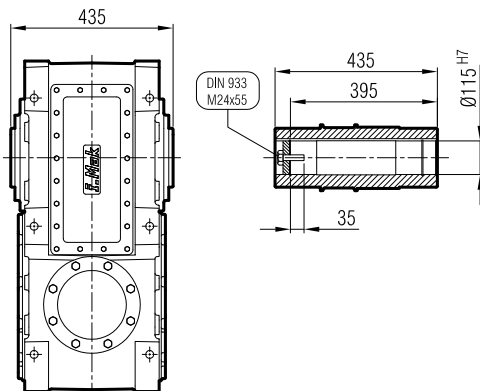
...-FR-SR



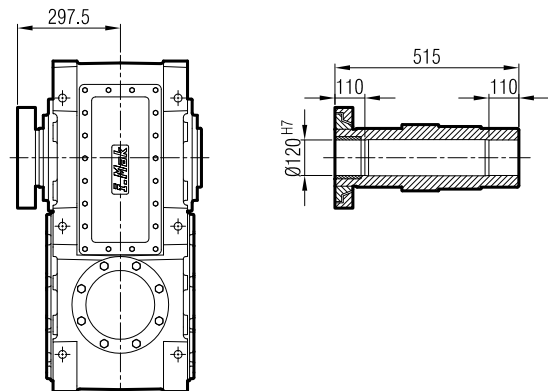
...-FD-SD

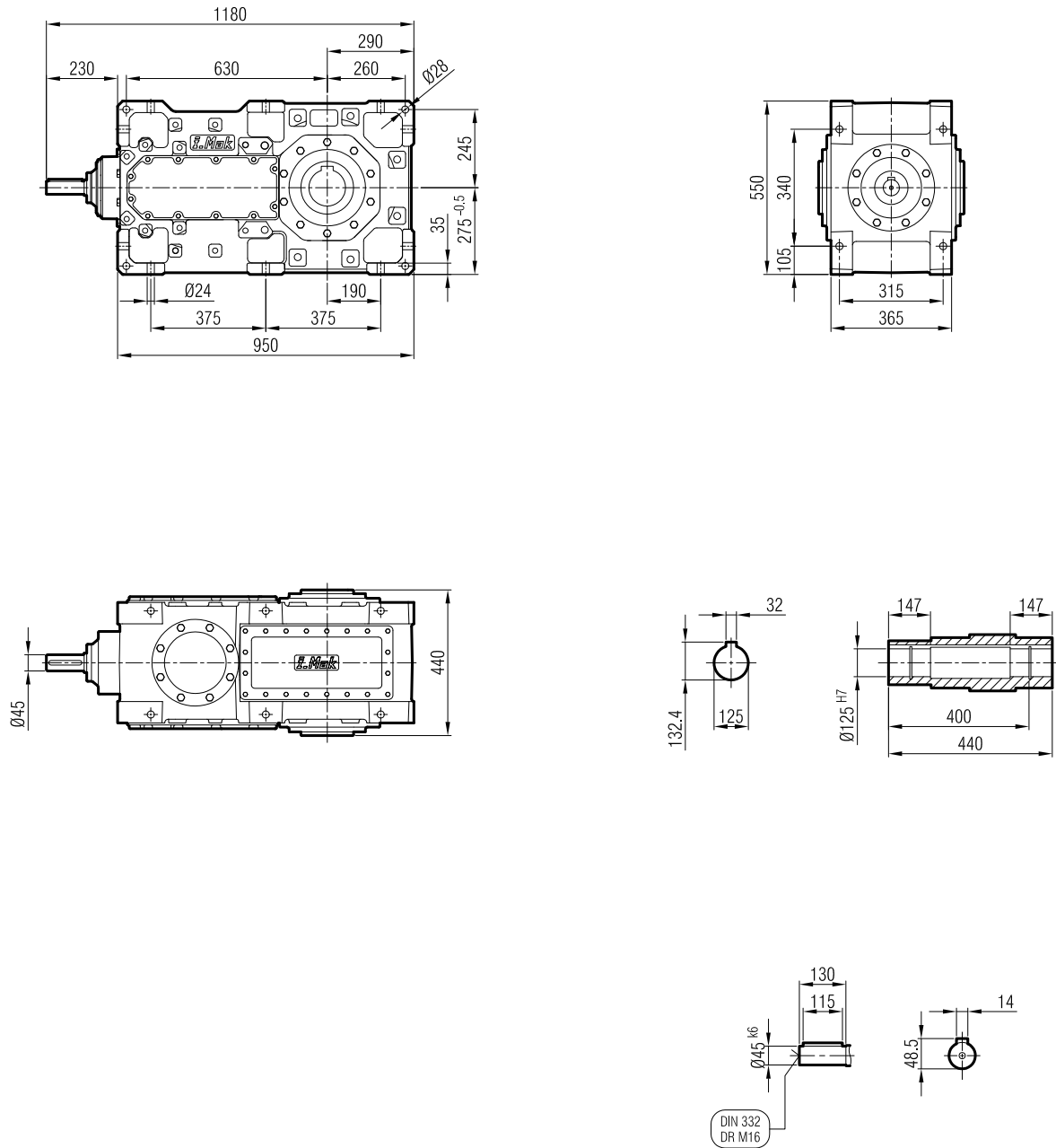


...-H



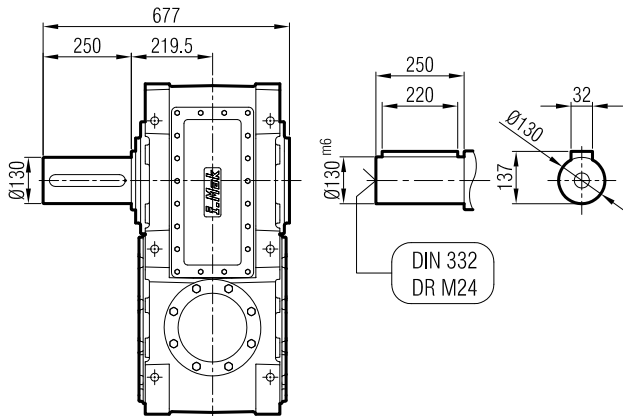
...-SDL / SDR



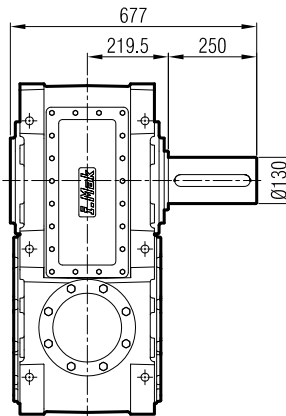
**MK 803-G07**



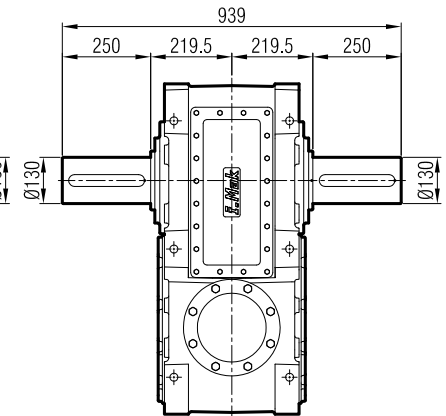
MA / MK 80_
...-SL



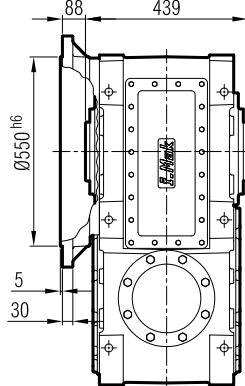
...-SR



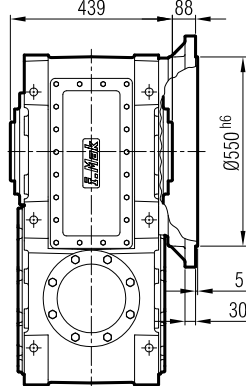
...-SD



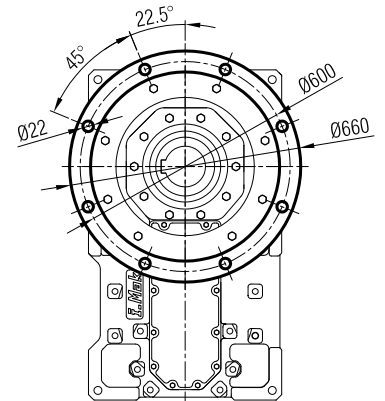
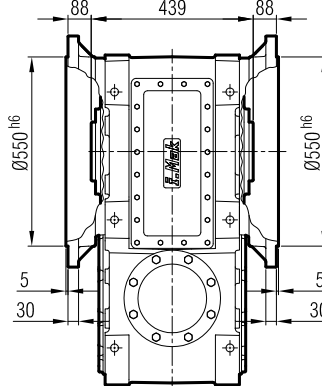
...-FL



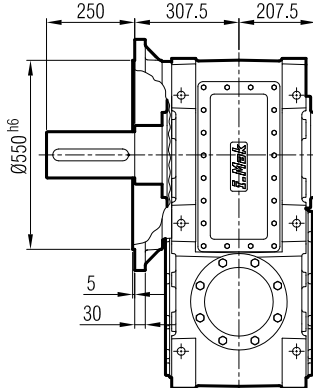
...-FR



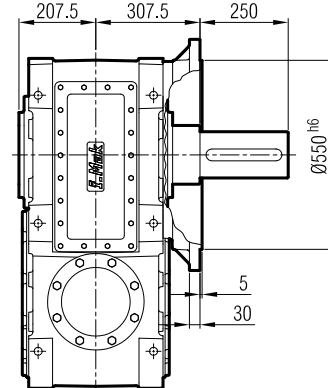
...-FD



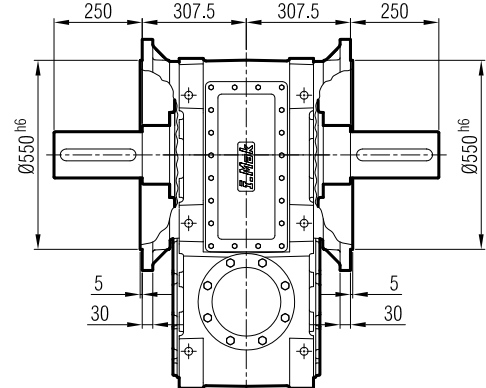
...-FL-SL



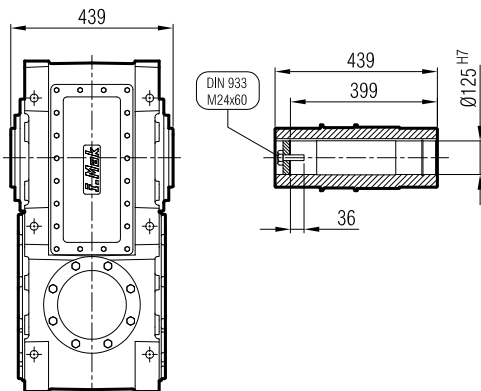
...-FR-SR



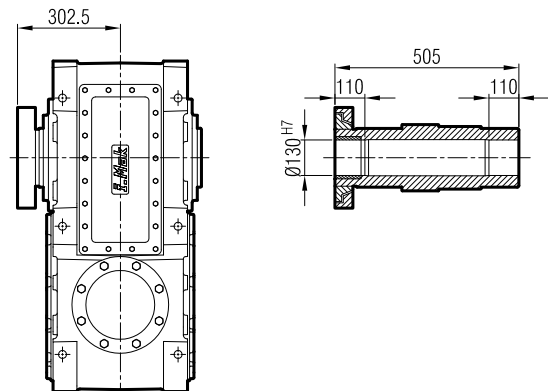
...-FD-SD



...-H

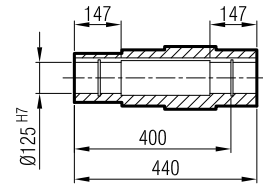
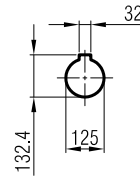
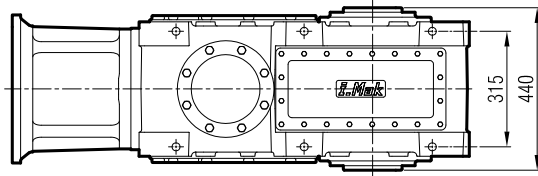
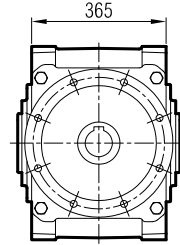
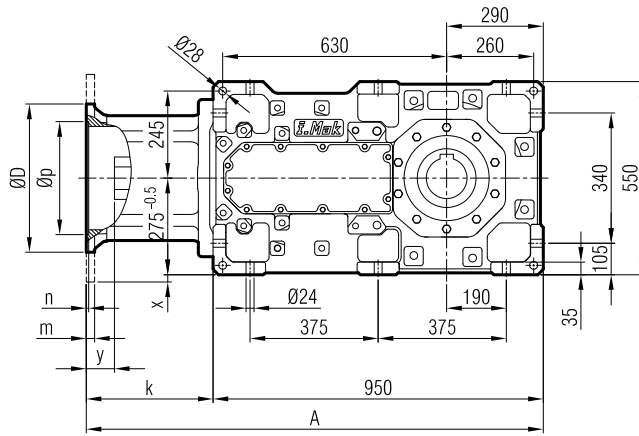


...-SDL / SDR



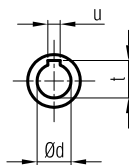
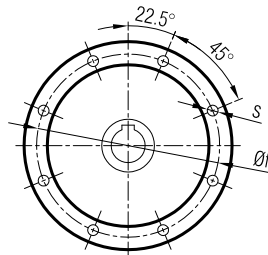
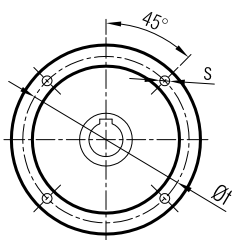


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≤ 200 B5 **Tip/Type/Typ**

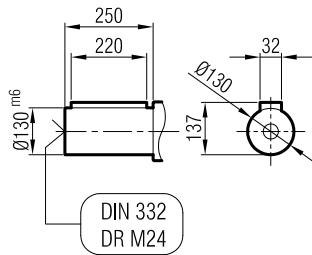
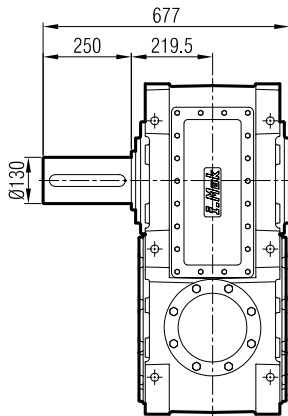
≥ 225 B5 **Tip/Type/Typ**



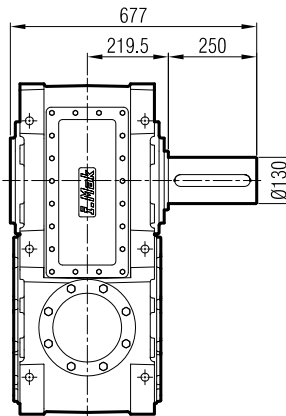
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	1275	250	300	350	M14	345	20	6	42	45.3	12	-	48
180/B5	1275	250	300	350	M14	345	20	6	48	51.8	14	-	48
200/B5	1275	300	350	400	M16	345	22	6	55	59.3	16	-	48
225/B5	1318	350	400	450	M16	388	22	6	60	64.4	18	-	80
250/B5	1318	450	500	550	M16	388	25	6.5	65	69.4	18	0	75
280/B5	1318	450	500	550	M16	388	25	6.5	75	75.9	20	0	65



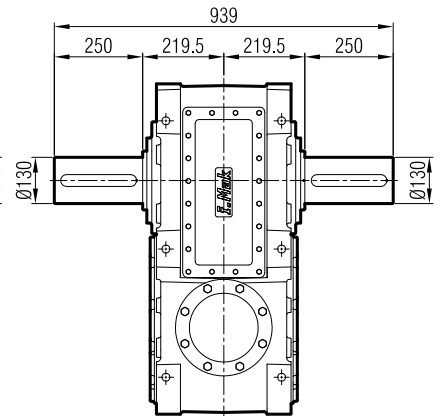
MA / MK 80_
...-SL



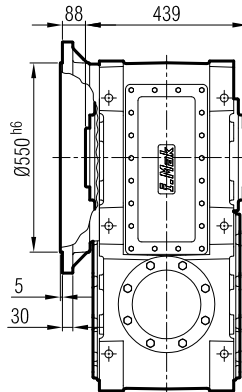
...-SR



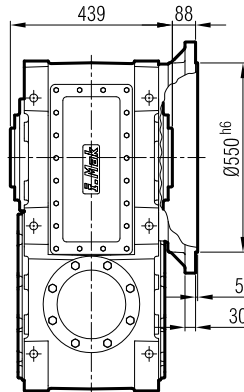
...-SD



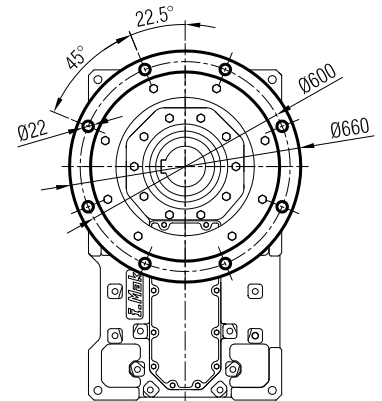
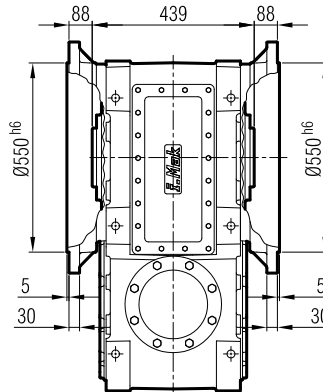
...-FL



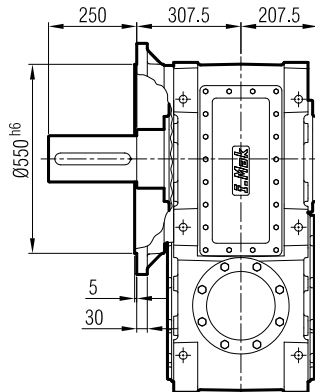
...-FR



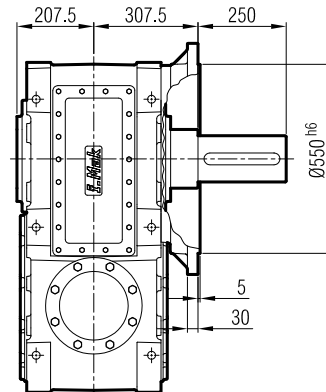
...-FD



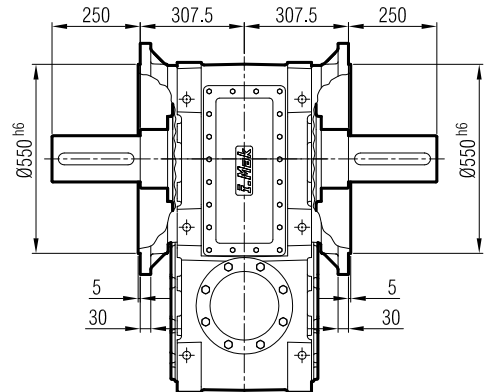
...-FL-SL



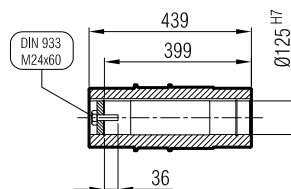
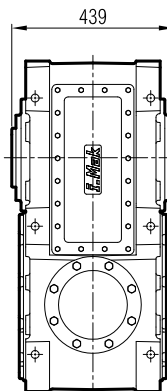
...-FR-SR



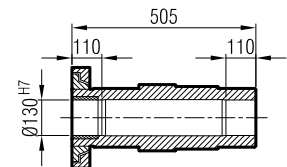
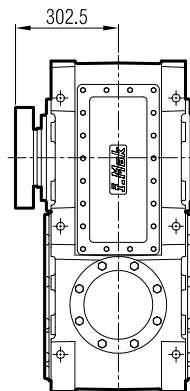
...-FD-SD

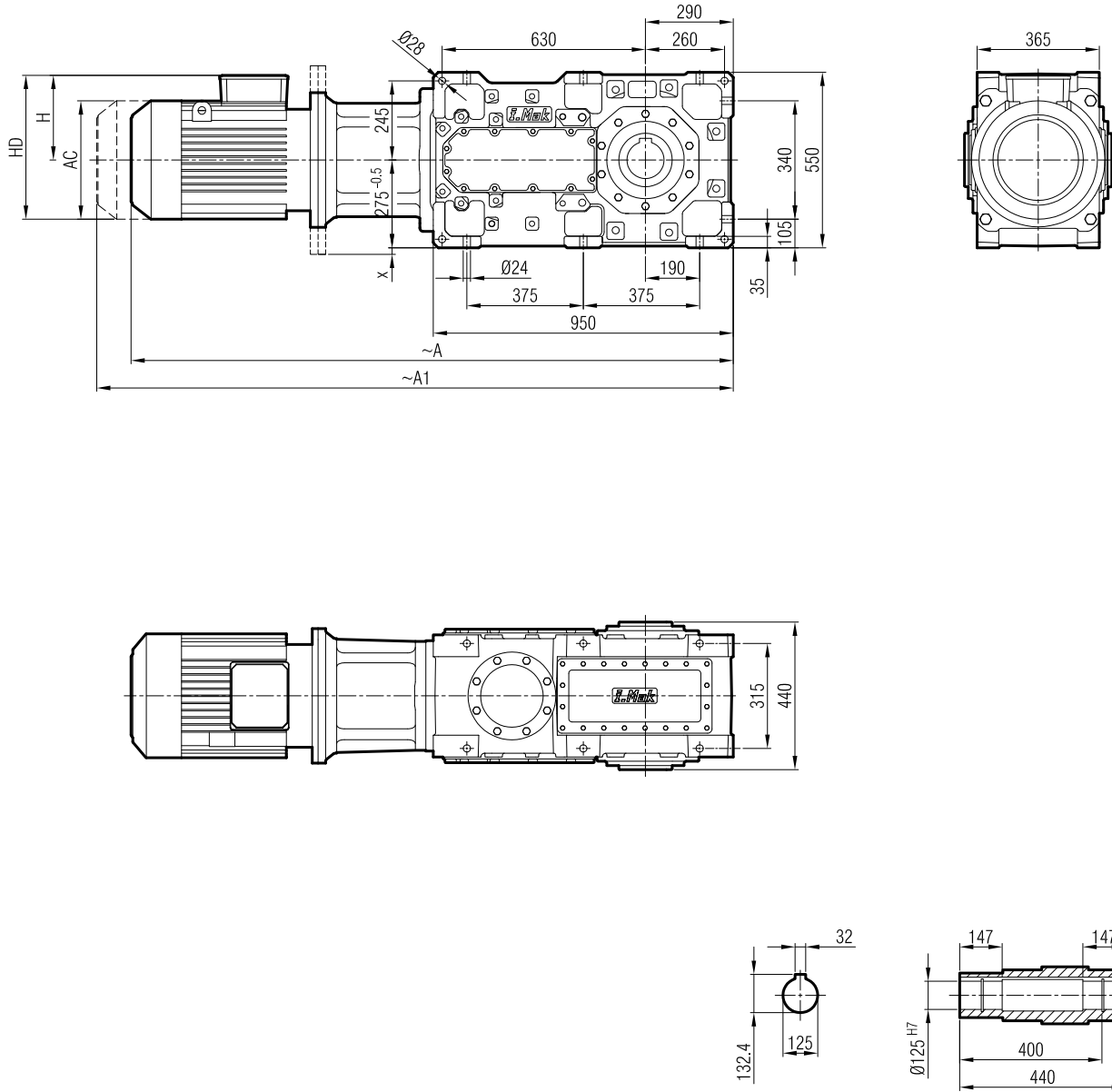


...-H



...-SDL / SDR




MKM 803-G09


	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	1840	1916	1916	1984	2003	2063	2113	2203	2203
A1	1957	2052	2052	2131	2150	2210	2260	2451	2451
H	240	260	260	300	313	313	366	398	398
HD	400	440	440	500	538	538	618	678	678
AC	315	357	357	394	456	456	489	548	548
x	-	-	-	-	-	-	0	0	0

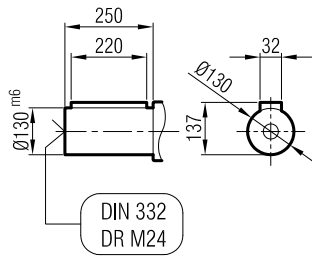
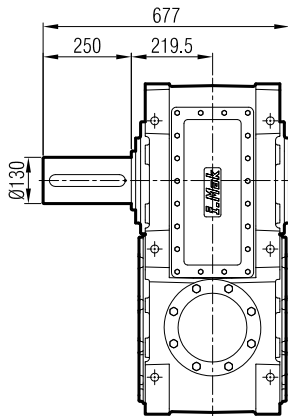
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

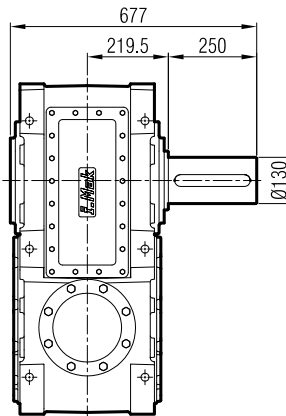
Le dimensions "A1" correspond aux moteurs équipés de freins.



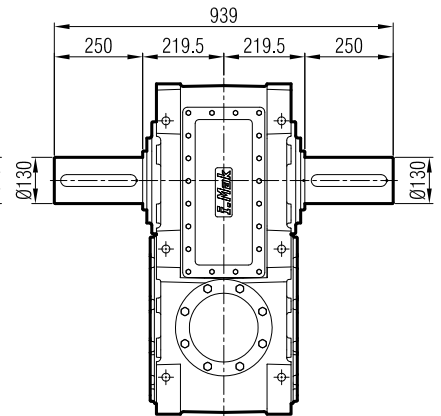
MA / MK 80_
...-SL



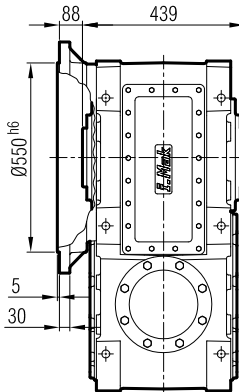
...-SR



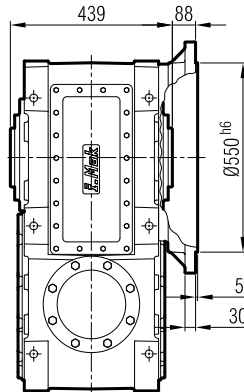
...-SD



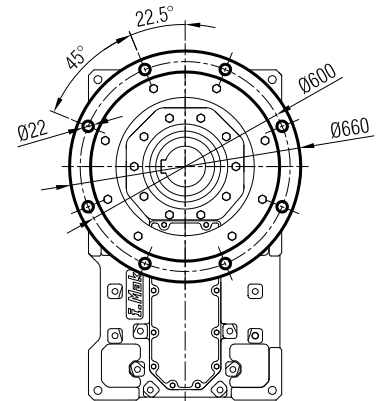
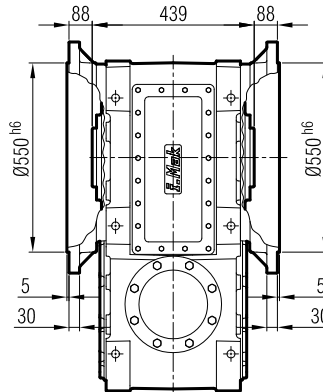
...-FL



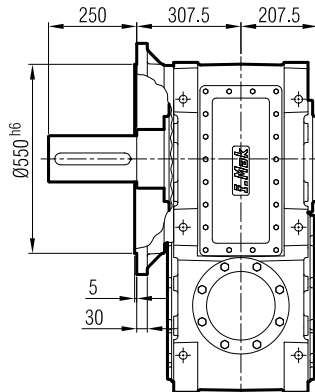
...-FR



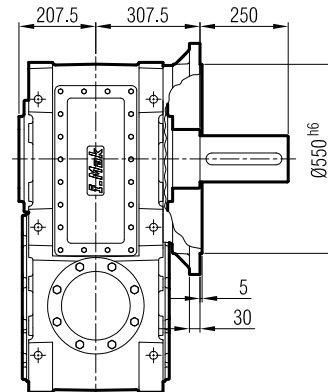
...-FD



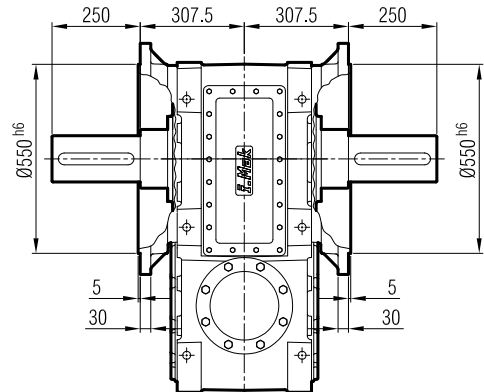
...-FL-SL



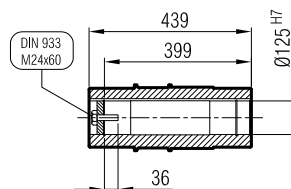
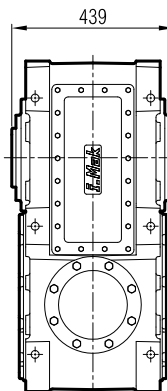
...-FR-SR



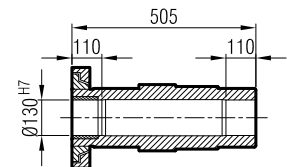
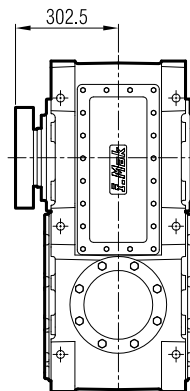
...-FD-SD



...-H

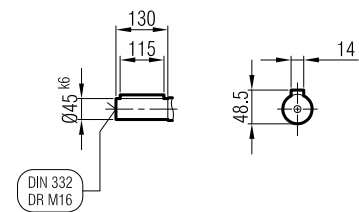
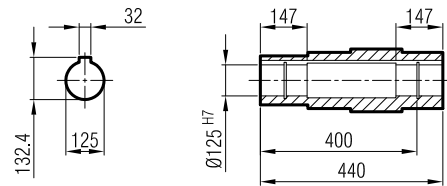
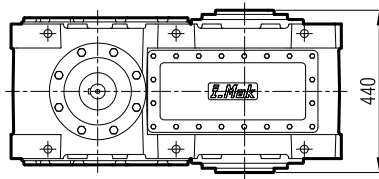
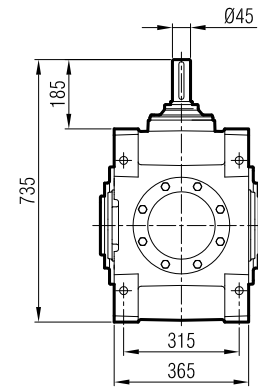
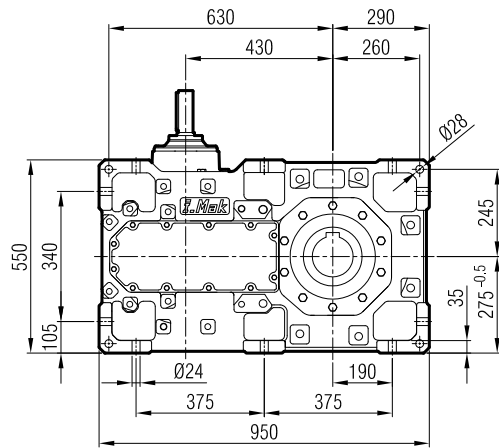


...-SDL / SDR



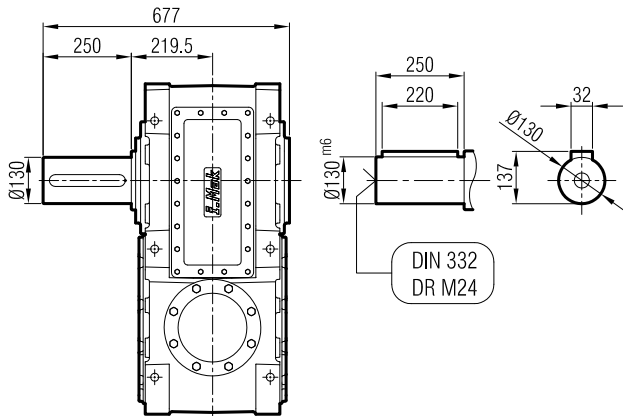


MK 803-G08

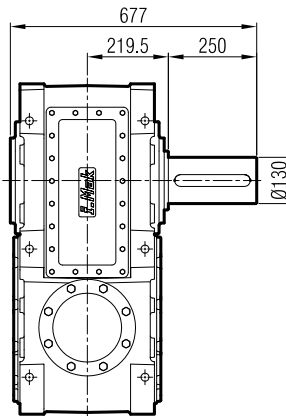




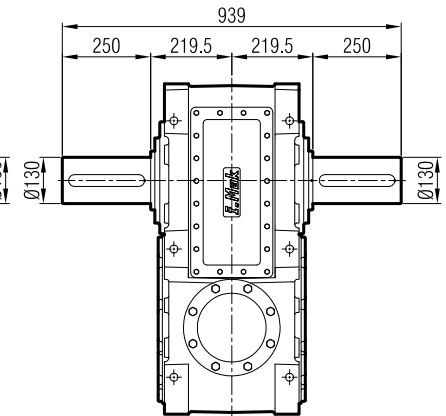
MA / MK 80_
...-SL



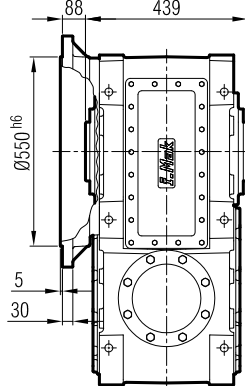
...-SR



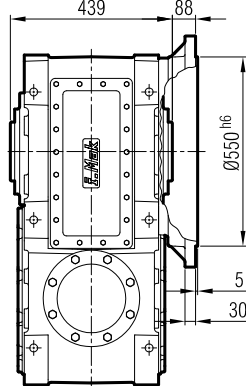
...-SD



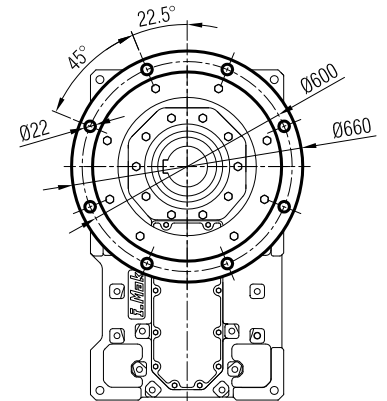
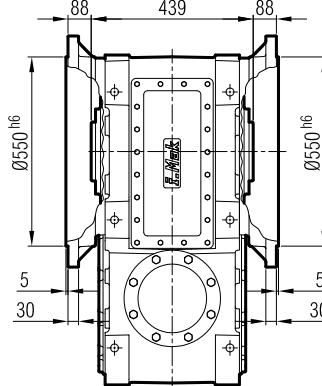
...-FL



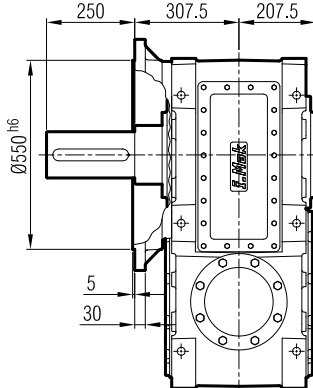
...-FR



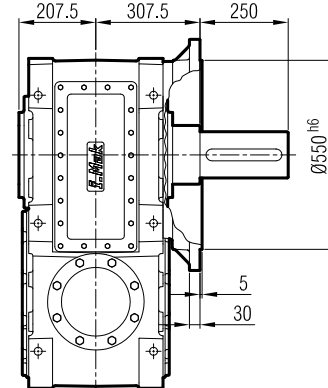
...-FD



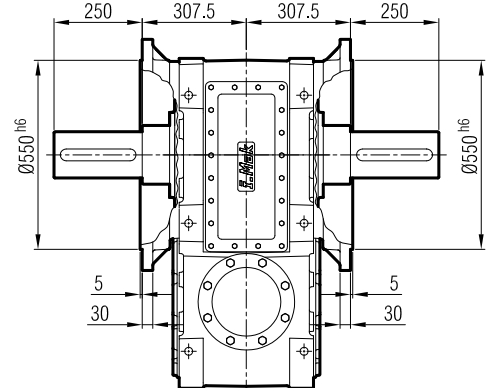
...-FL-SL



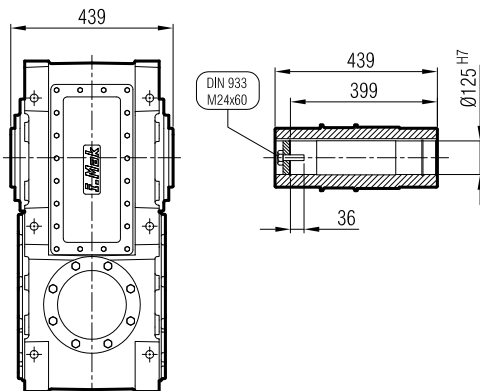
...-FR-SR



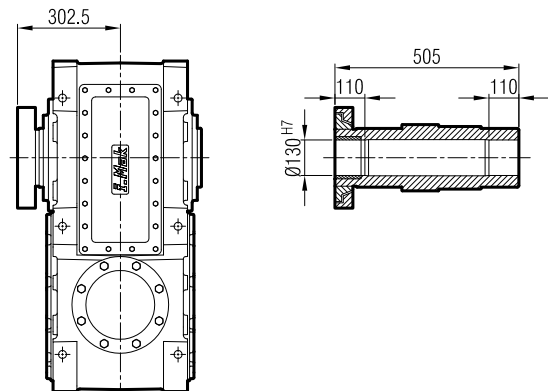
...-FD-SD

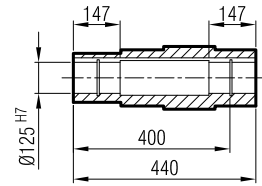
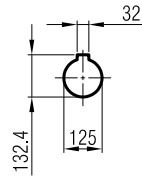
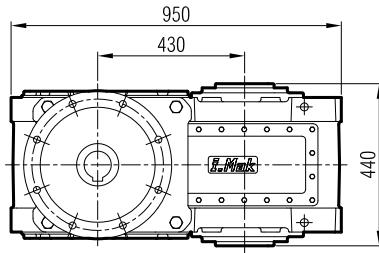
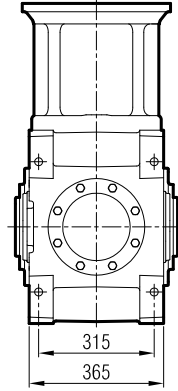
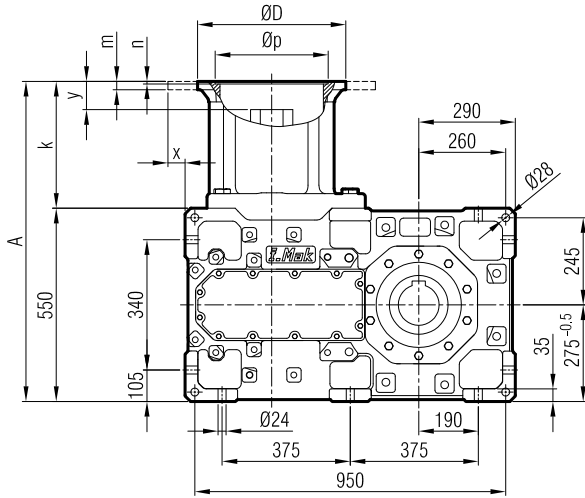


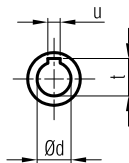
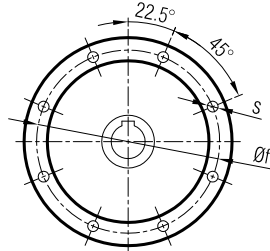
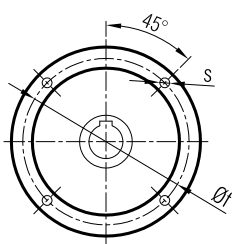
...-H



...-SDL / SDR



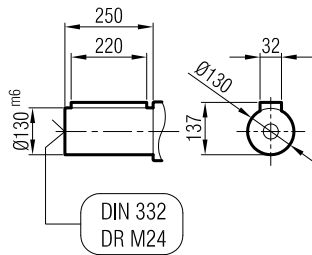
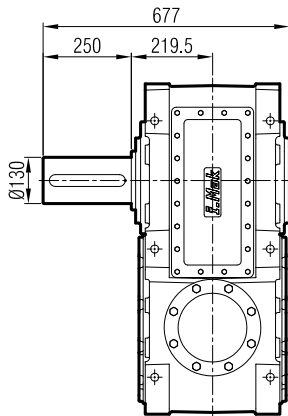

MKP 803-G10

 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


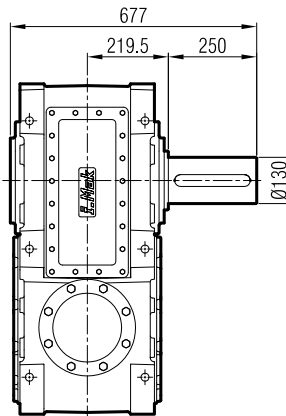
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	850	250	300	350	M14	300	20	6	42	45.3	12	-	48
180/B5	850	250	300	350	M14	300	20	6	48	51.8	14	-	48
200/B5	850	300	350	400	M16	300	22	6	55	59.3	16	-	48
225/B5	893	350	400	450	M16	343	22	6	60	64.4	18	-	80
250/B5	893	450	500	550	M16	343	25	6.5	65	69.4	18	45	75
280/B5	893	450	500	550	M16	343	25	6.5	75	75.9	20	45	65



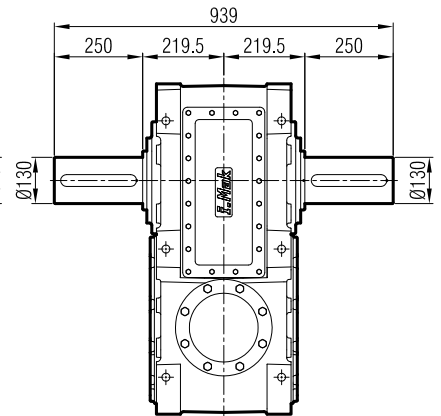
MA / MK 80_
...-SL



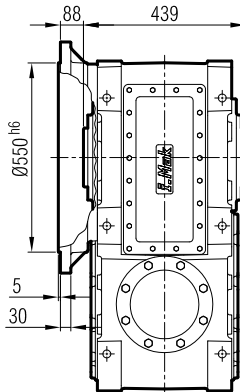
...-SR



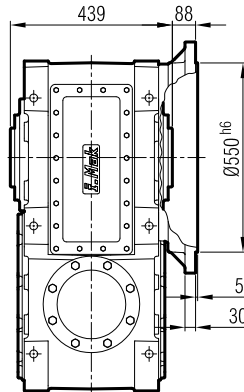
...-SD



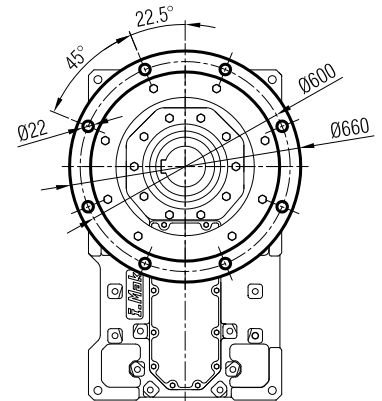
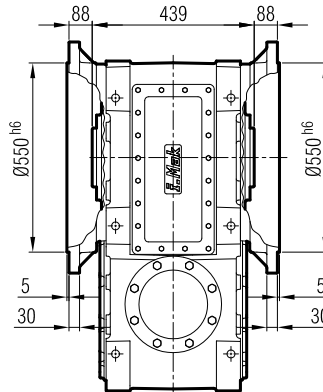
...-FL



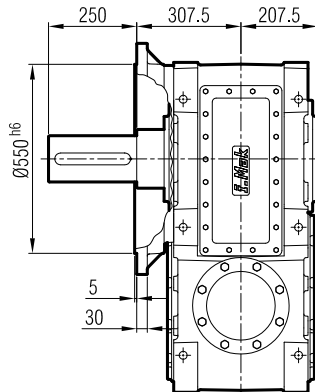
...-FR



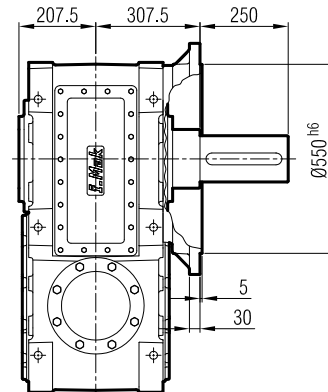
...-FD



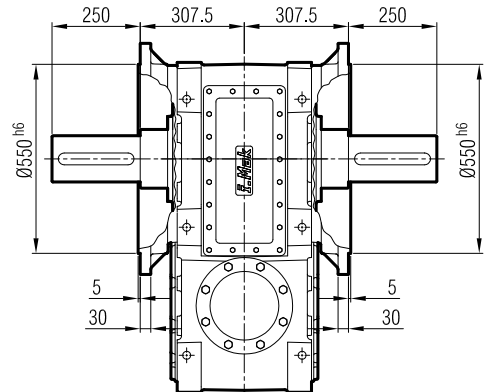
...-FL-SL



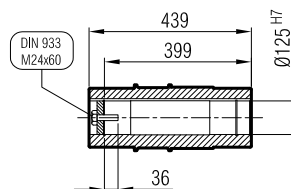
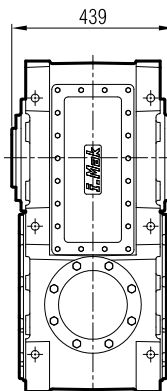
...-FR-SR



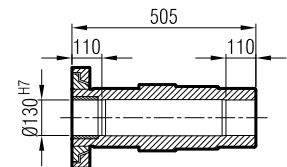
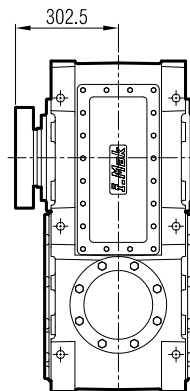
...-FD-SD



...-H

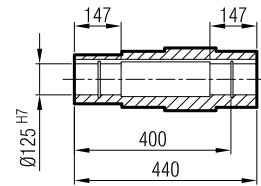
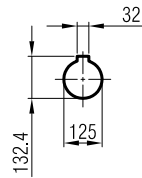
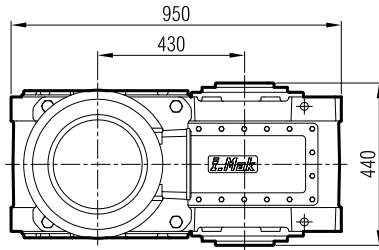
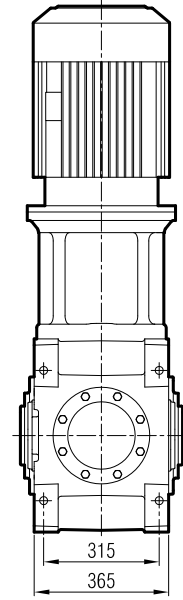
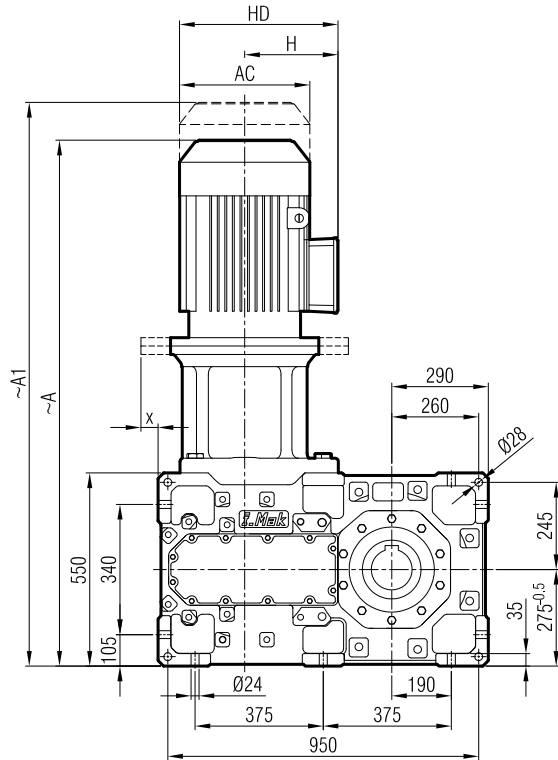


...-SDL / SDR





MKM 803-G10



	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	1415	1491	1491	1559	1578	1638	1688	1778	1778
A1	1532	1627	1627	1706	1725	1785	1835	2036	2036
H	240	260	260	300	313	313	366	398	398
HD	400	440	440	500	538	538	618	678	678
AC	315	357	357	394	456	456	489	548	548
x	-	-	-	-	-	-	45	45	45

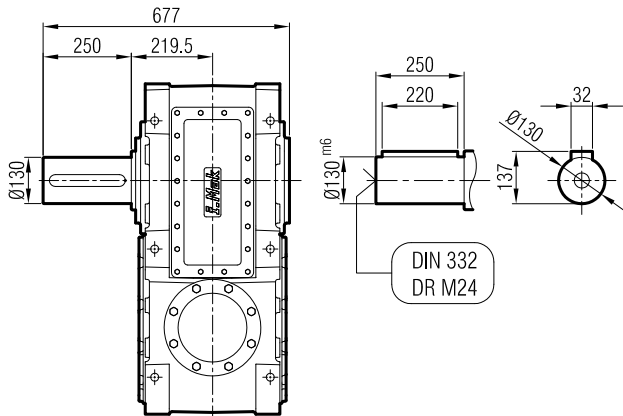
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

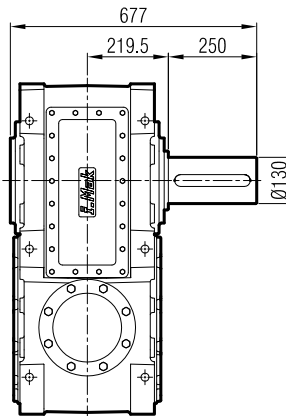
Le dimensions "A1" correspond aux moteurs équipés de freins.



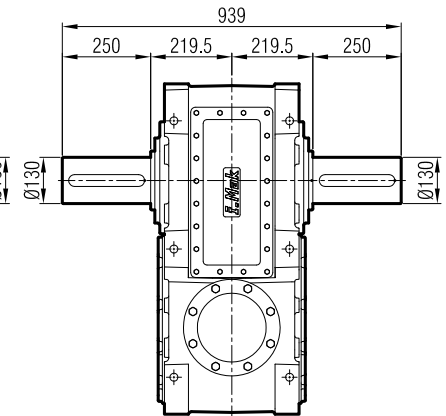
MA / MK 80_
...-SL



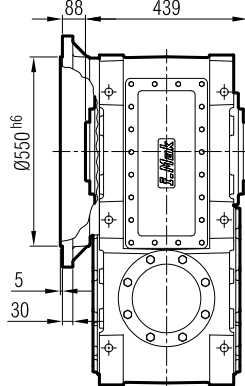
...-SR



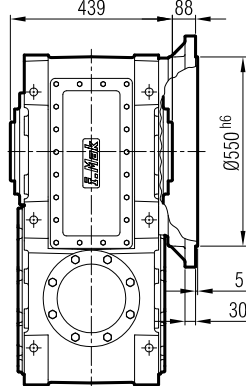
...-SD



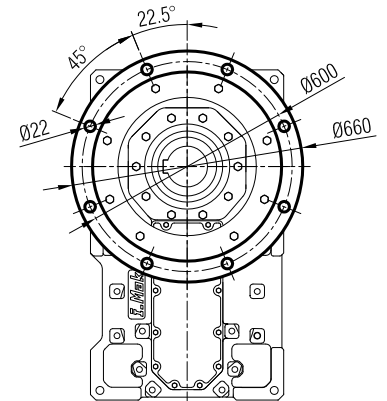
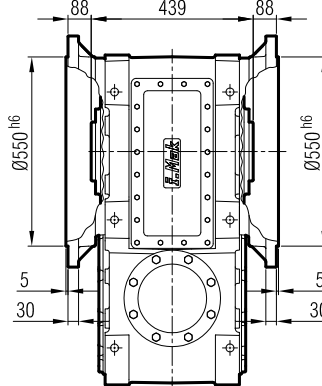
...-FL



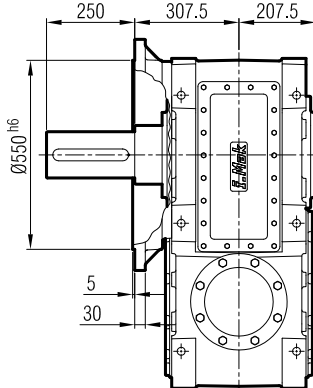
...-FR



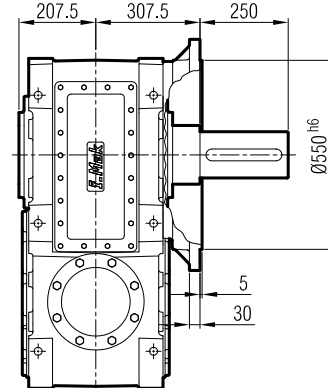
...-FD



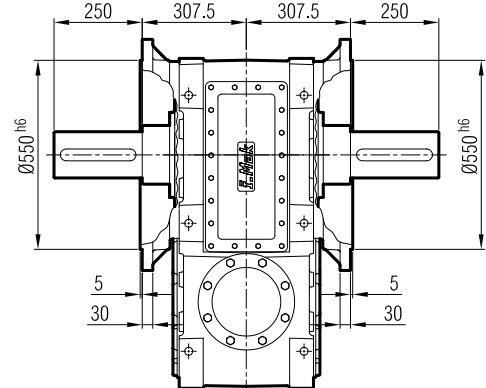
...-FL-SL



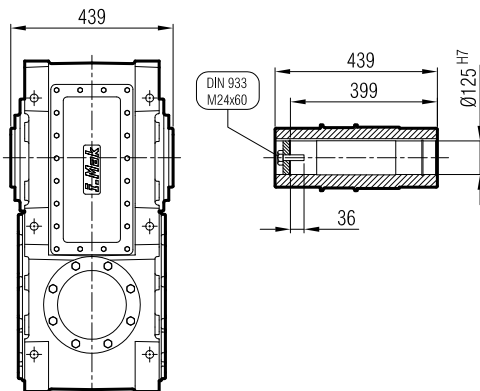
...-FR-SR



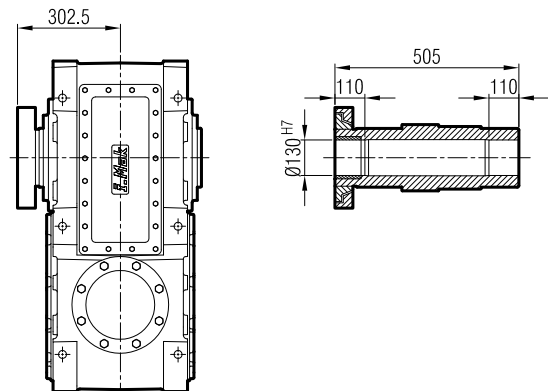
...-FD-SD



...-H

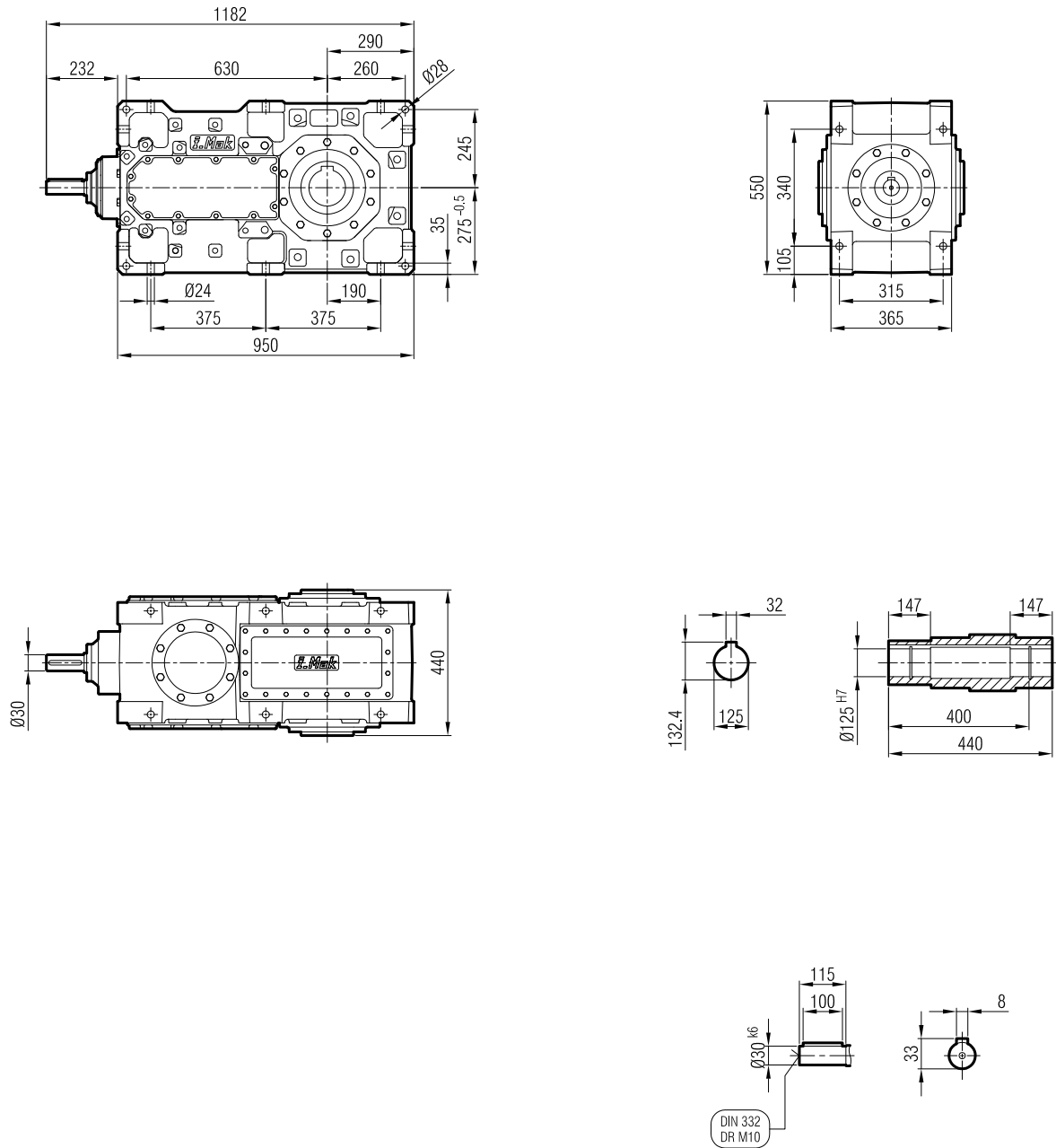


...-SDL / SDR



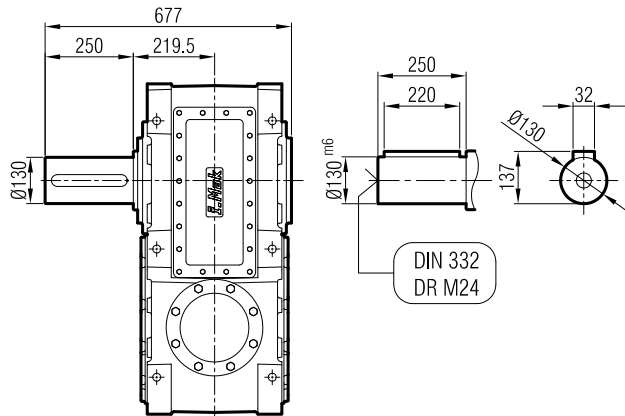


MK 804-G07

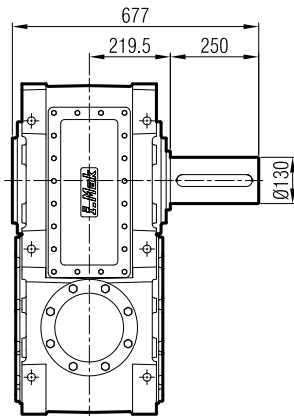




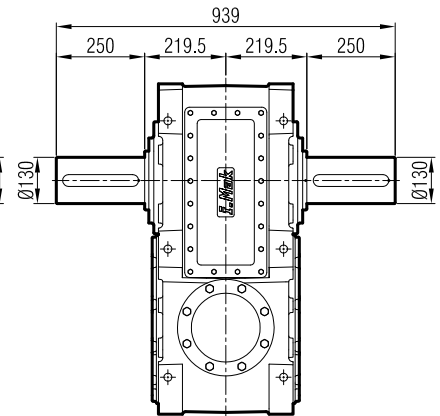
MA / MK 80_
...-SL



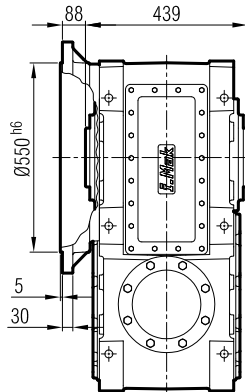
...-SR



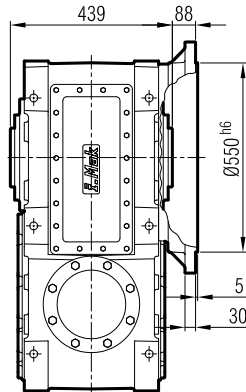
...-SD



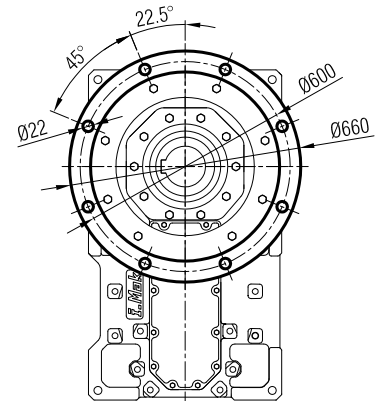
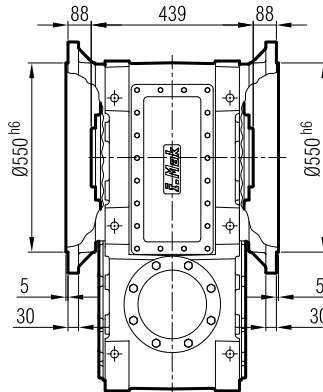
...-FL



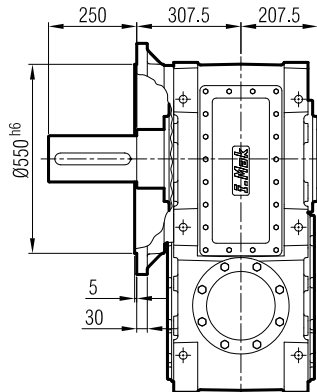
...-FR



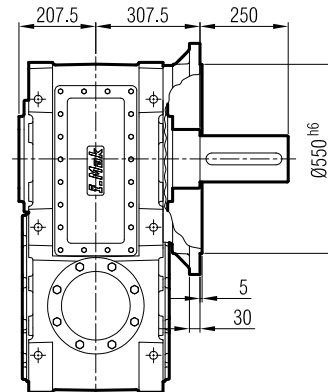
...-FD



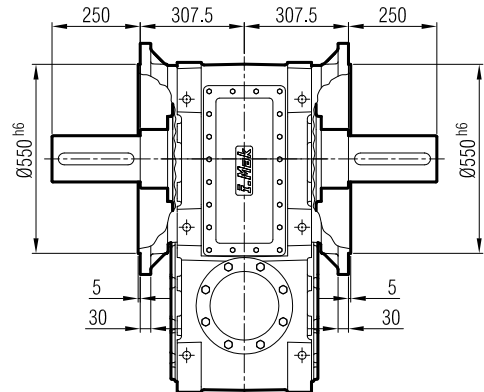
...-FL-SL



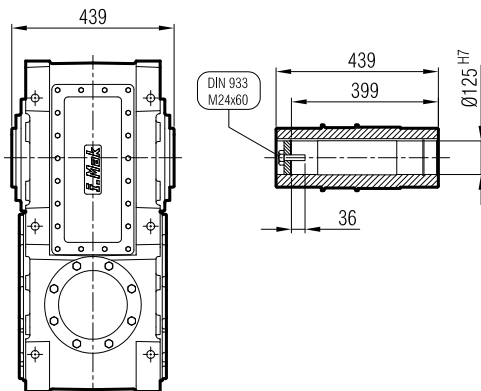
...-FR-SR



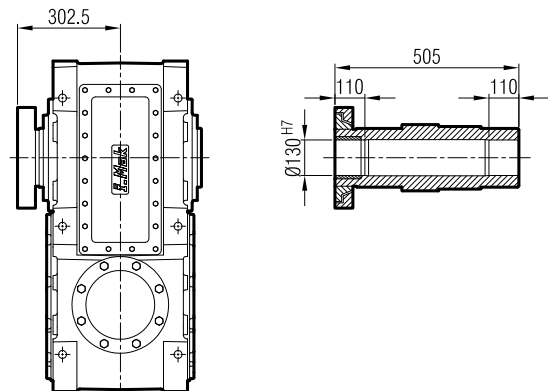
...-FD-SD



...-H

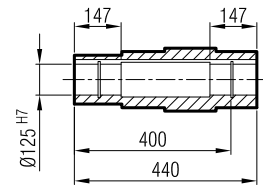
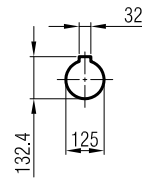
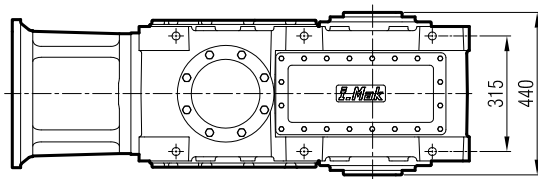
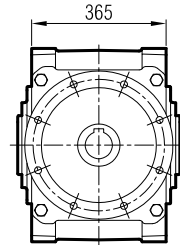
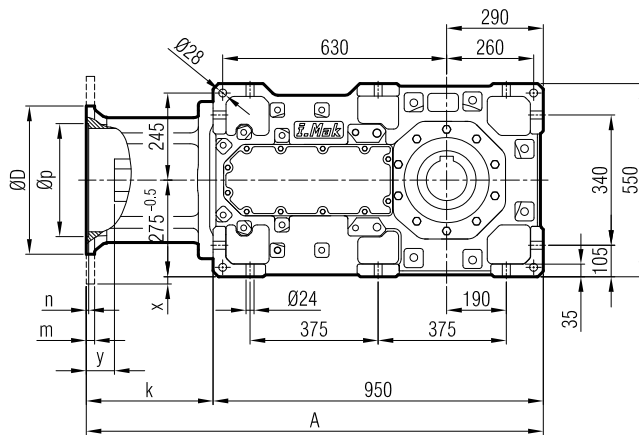


...-SDL / SDR



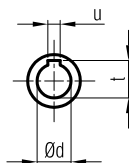
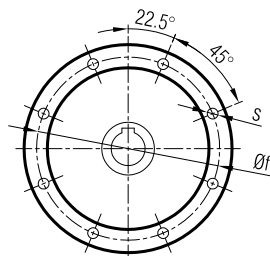
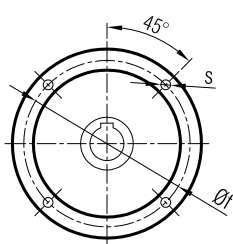


MKP 804-G09



≤ 200 B5 **Tip**/Type/*Typ*

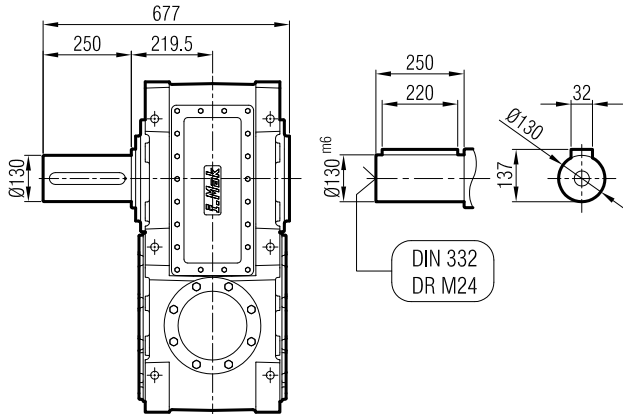
≥ 225 B5 **Tip**/Type/Typ



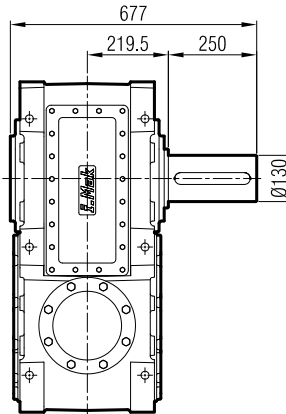
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
100/B5	1238	180	215	250	M12	314	15	5	28	31.3	8	-	30
112/B5	1238	180	215	250	M12	314	15	5	28	31.3	8	-	30
132/B5	1258	230	265	300	M12	334	18	6	38	41.3	10	-	45
160/B5	1275	250	300	350	M14	345	20	6	42	45.3	12	-	70
180/B5	1275	250	300	350	M14	345	20	6	48	51.8	14	-	60
200/B5	1275	300	350	400	M16	345	22	6	55	59.3	16	-	60
225/B5	1318	350	400	450	M16	388	22	6	60	64.4	18	-	80



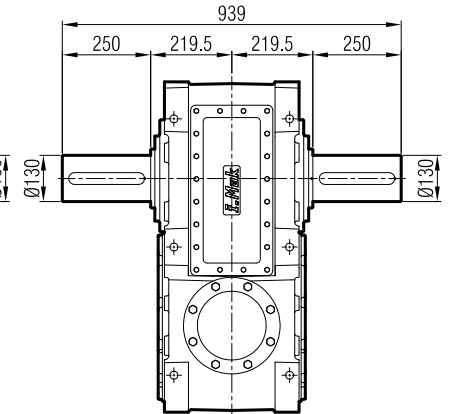
MA / MK 80_
...-SL



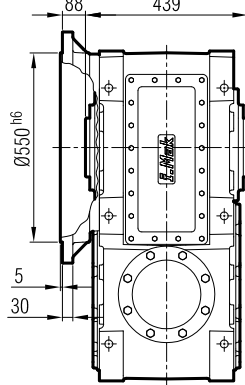
...-SR



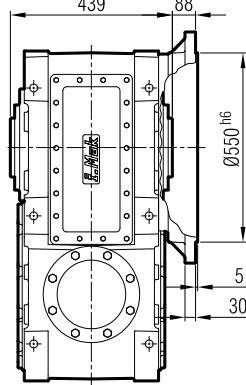
...-SD



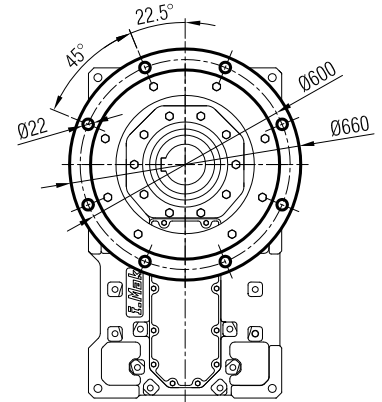
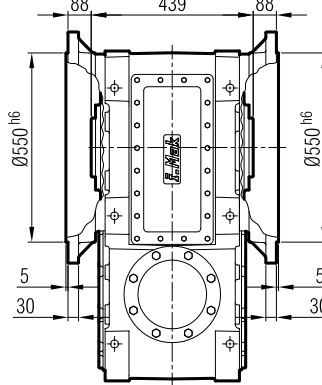
...-FL



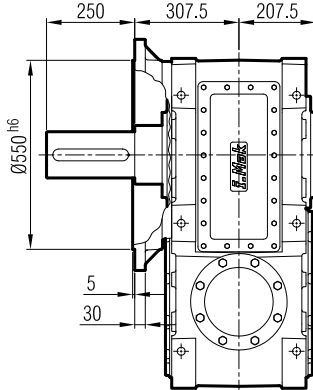
...-FR



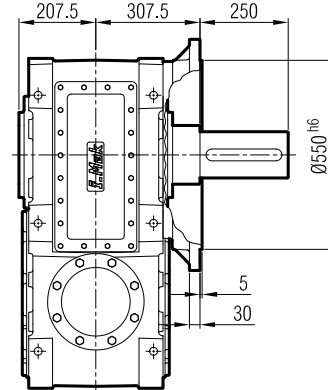
...-FD



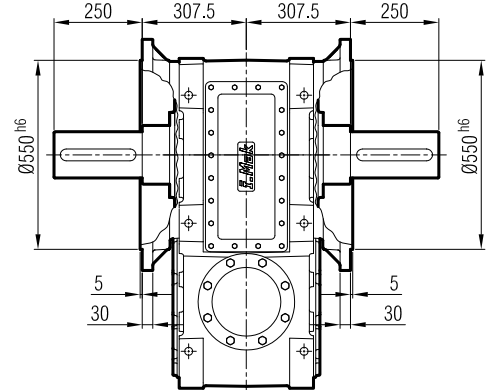
...-FL-SL



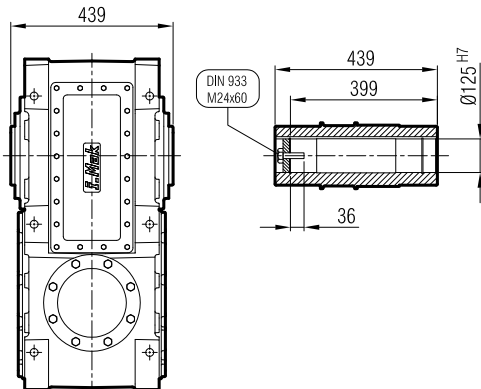
...-FR-SR



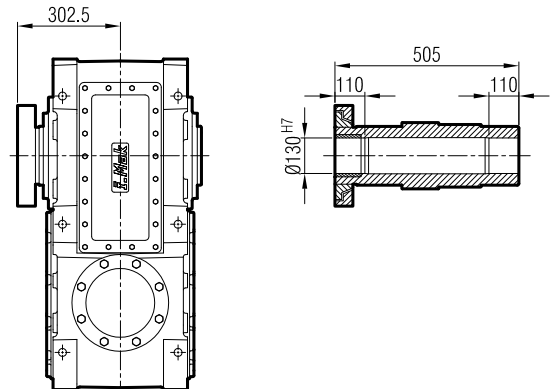
...-FD-SD

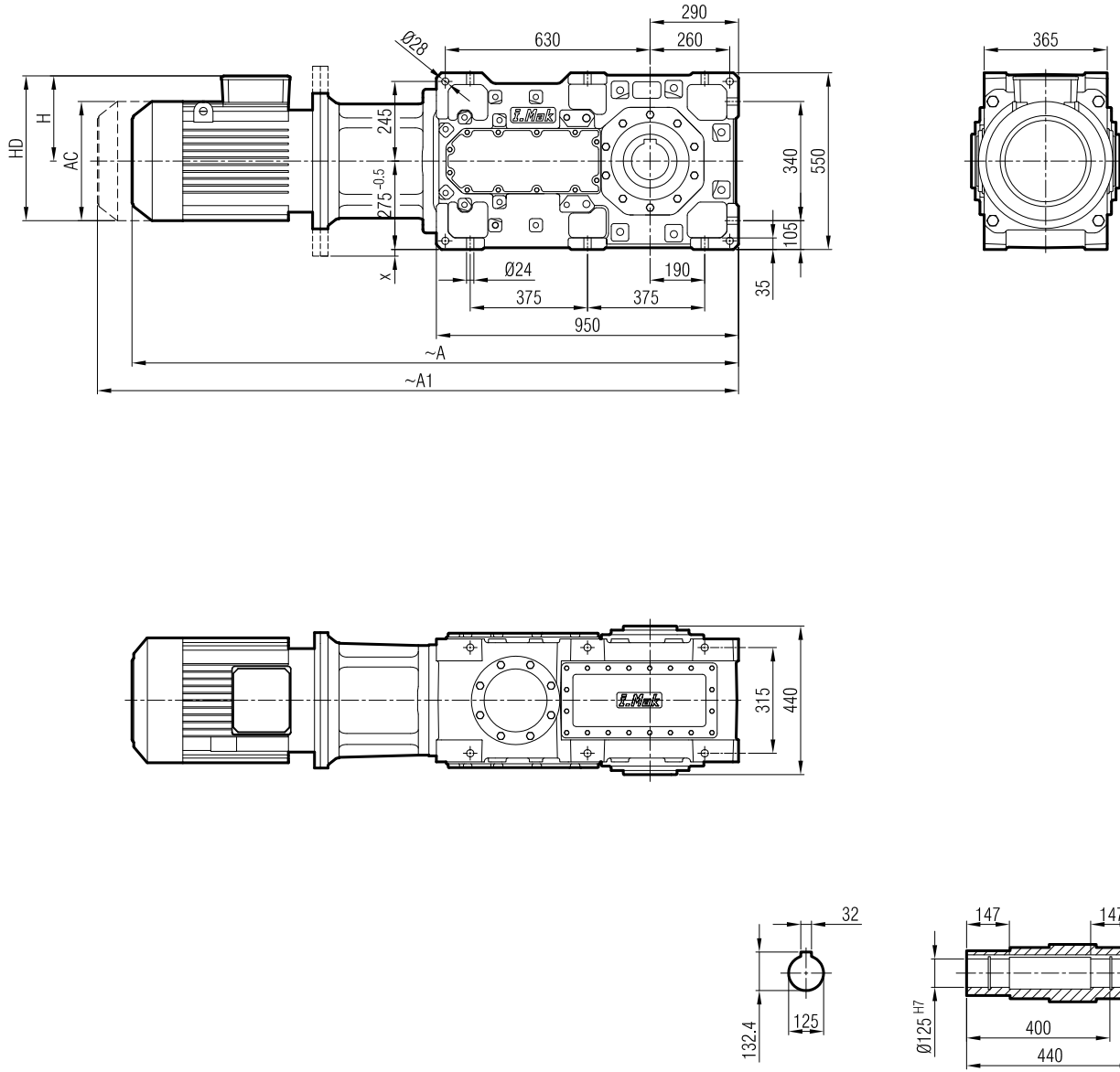


...-H



...-SDL / SDR



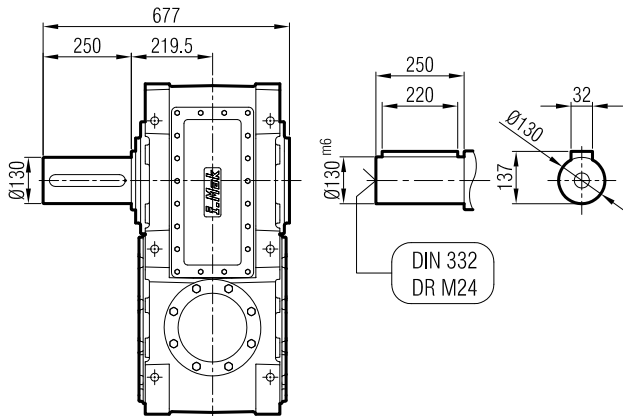
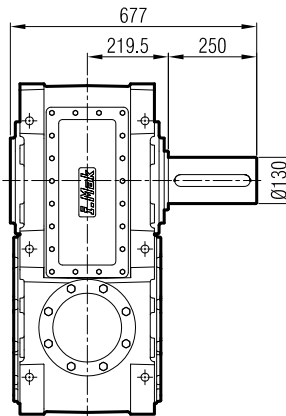
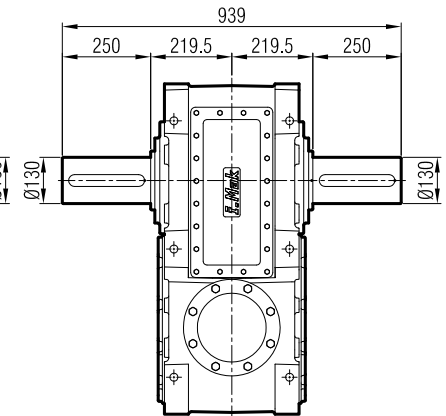
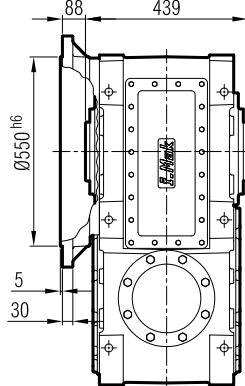
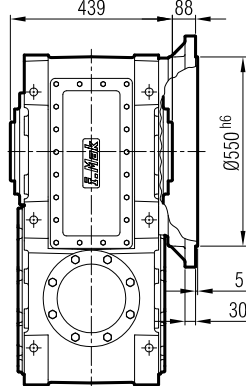
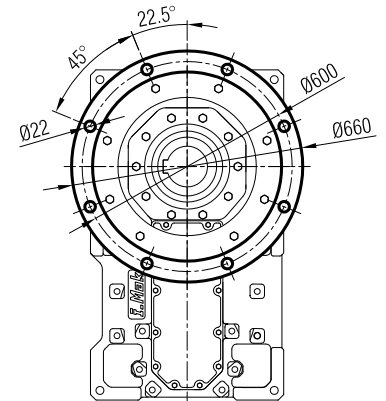
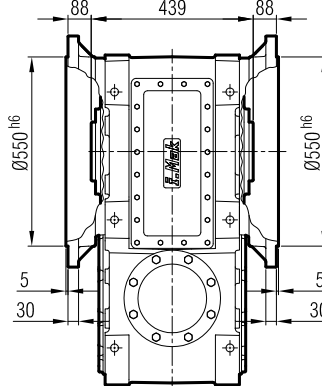
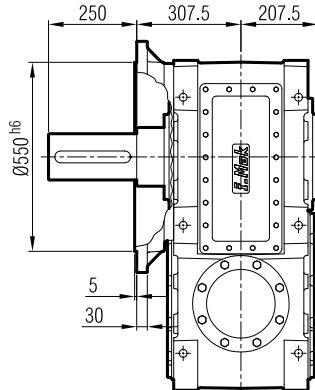
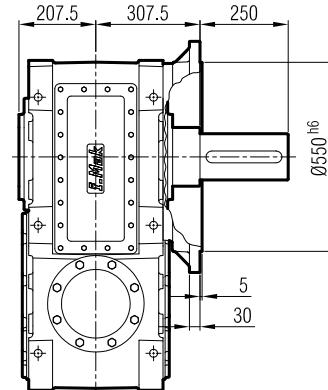
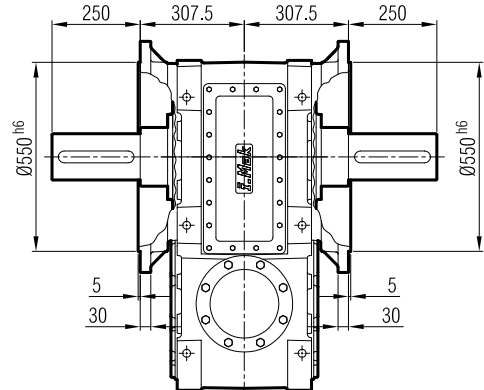
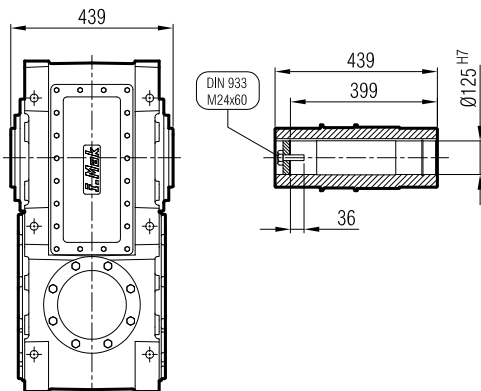
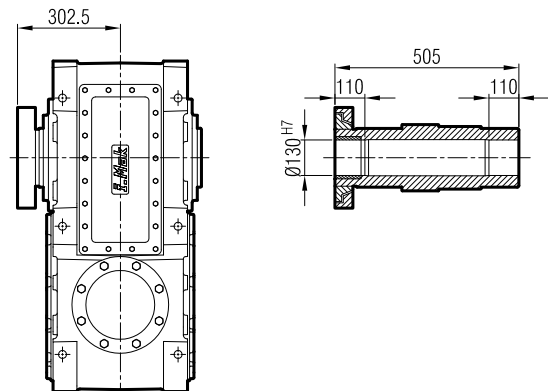

MKM 804-G09


	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
A	1610	1582	1659	1700	1795	1840	1916	1916	1984	2003
A1	1687	1677	1763	1804	1912	1957	2052	2052	2131	2150
H	161	170	193	193	240	240	260	260	300	313
HD	261	282	325	325	400	400	440	440	500	538
AC	195	220	262	262	315	315	357	357	394	456
X	-	-	-	-	-	-	-	-	-	-

"A1" Ölçüsü Frenli Motorlar içindir.

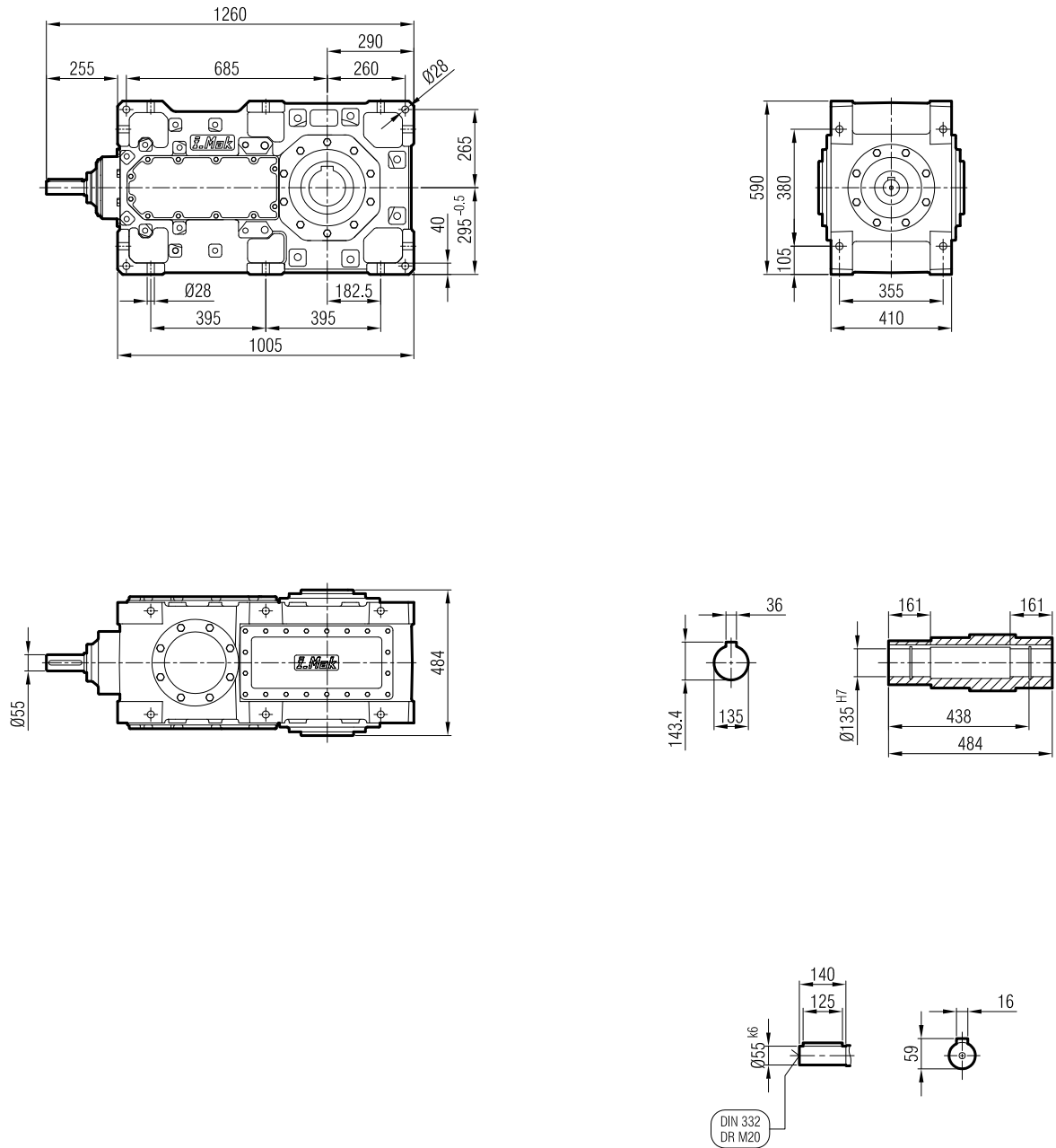
Dimension "A1" is for motors with brake.

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


MA / MK 80_
...-SL

...-SR

...-SD

...-FL

...-FR

...-FD

...-FL-SL

...-FR-SR

...-FD-SD

...-H

...-SDL / SDR


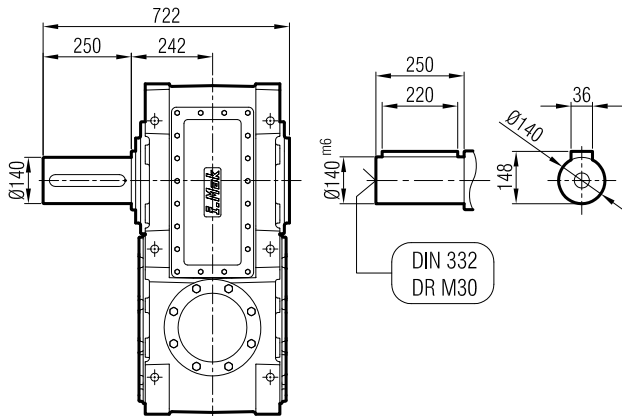


MK 903-G07

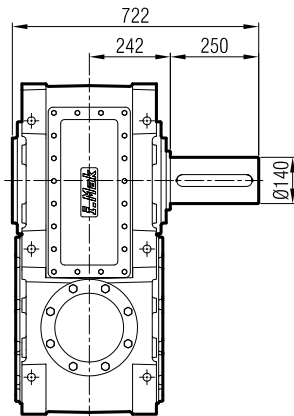




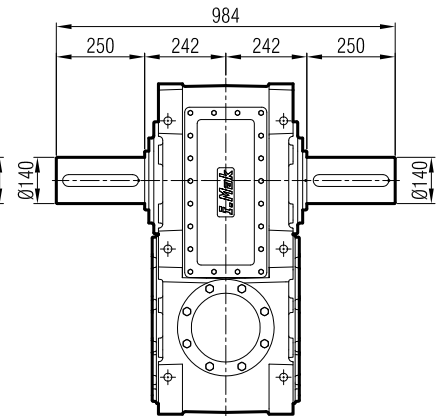
MA / MK 90_
...-SL



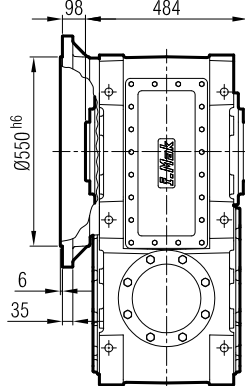
...-SR



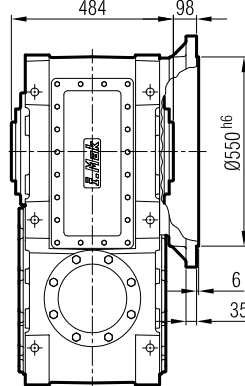
...-SD



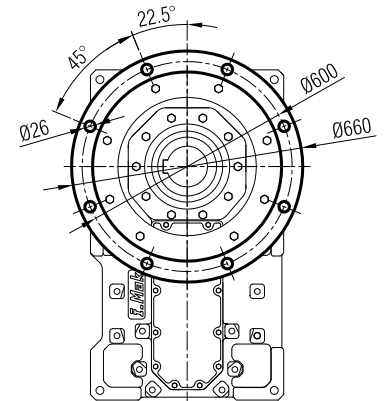
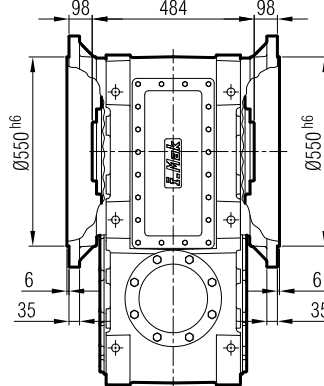
...-FL



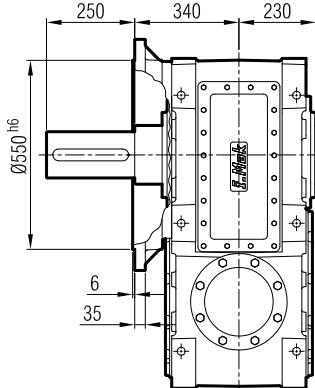
...-FR



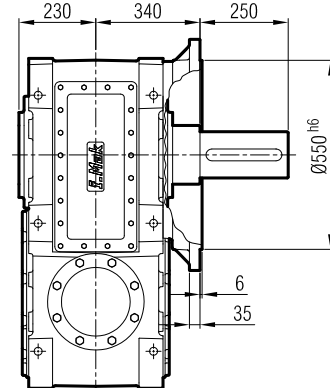
...-FD



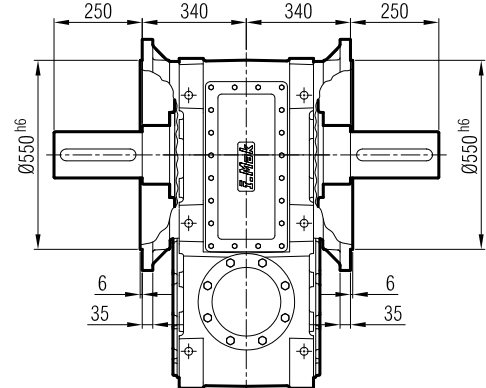
...-FL-SL



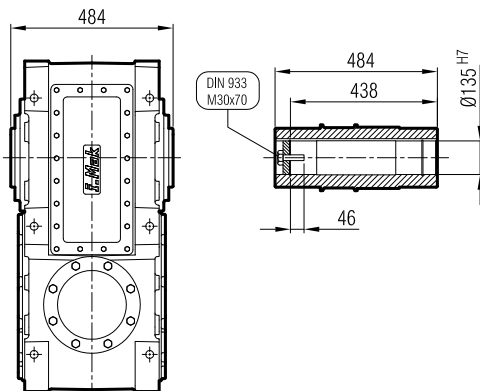
...-FR-SR



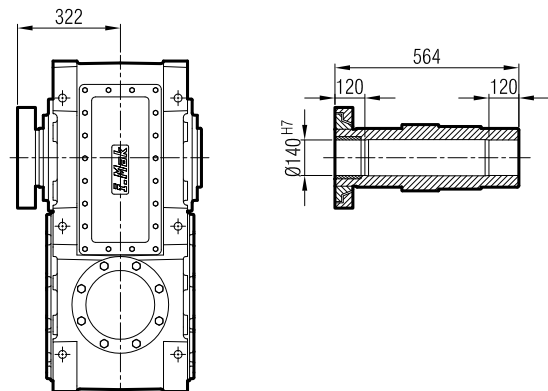
...-FD-SD



...-H

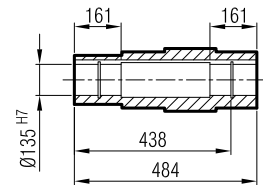
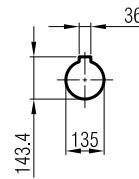
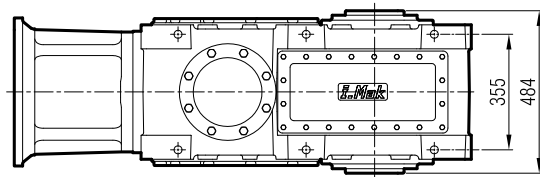
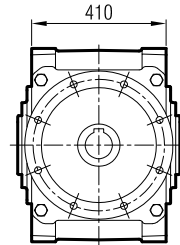
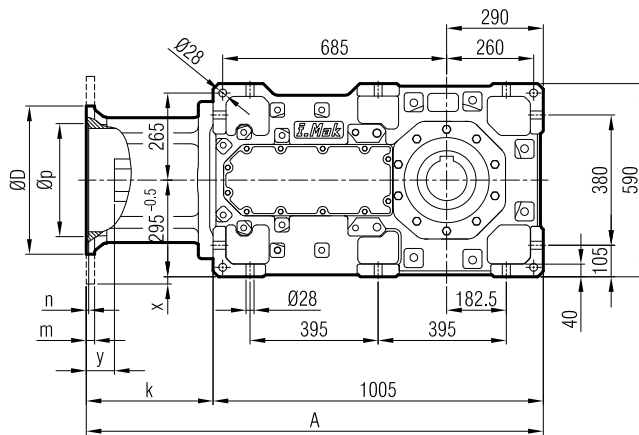


...-SDL / SDR

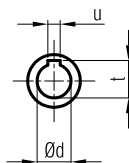
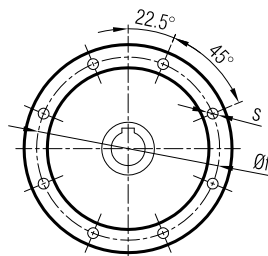
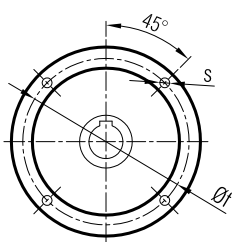




MKP 903-G09


$$\leq 200 \text{ B5 Tip/Type/Typ}$$

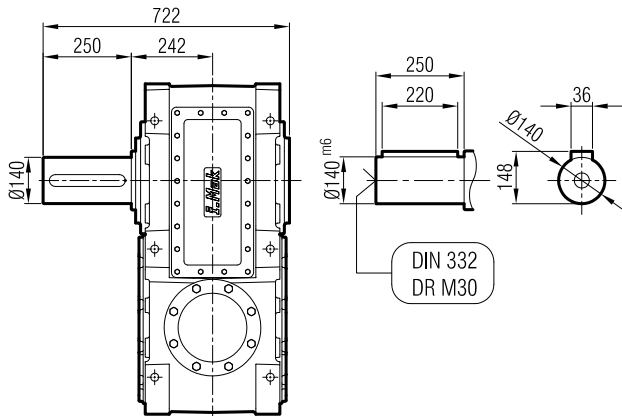
≥ 225 B5 **Tip**/Type/Typ



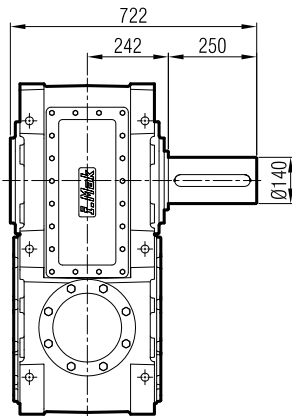
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
180/B5	1380	250	300	350	M14	370	20	6	48	51.8	14	-	38
200/B5	1380	300	350	400	M16	370	22	6	55	59.3	16	-	38
225/B5	1423	350	400	450	M16	413	22	6	60	64.4	18	-	75
250/B5	1423	450	500	550	M16	413	25	6.5	65	69.4	18	-	75
280/B5	1423	450	500	550	M16	413	25	6.5	75	75.9	20	-	65
315/B5	1453	550	600	660	M24	443	30	7	85	90.4	22	35	90



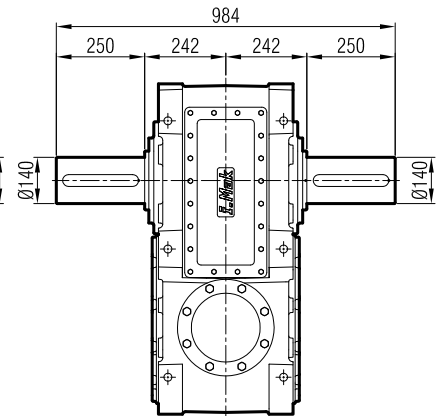
MA / MK 90_
...-SL



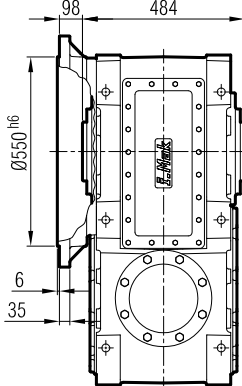
...-SR



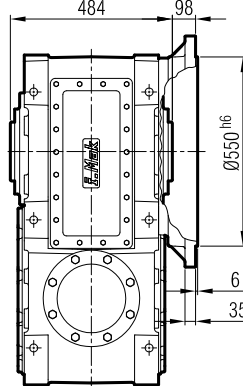
...-SD



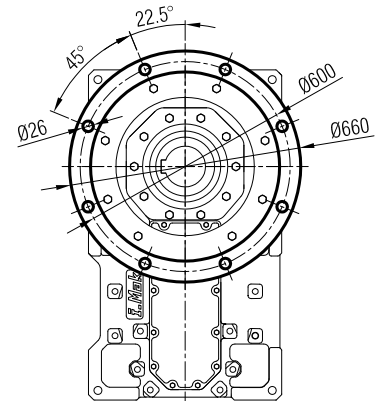
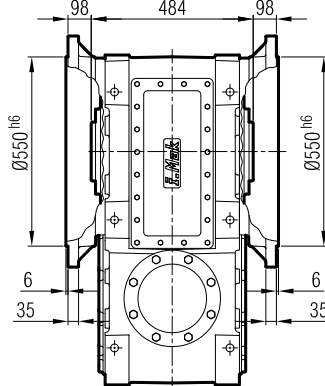
...-FL



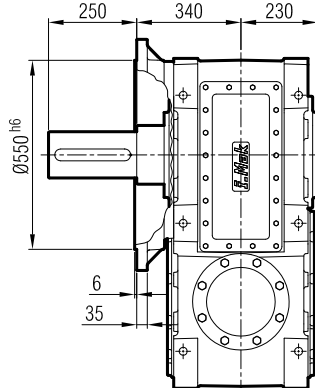
...-FR



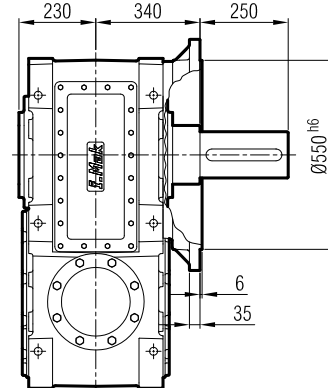
...-FD



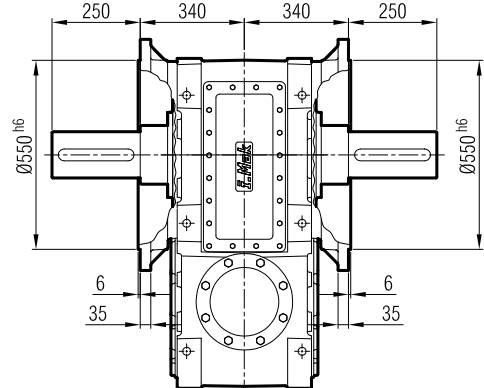
...-FL-SL



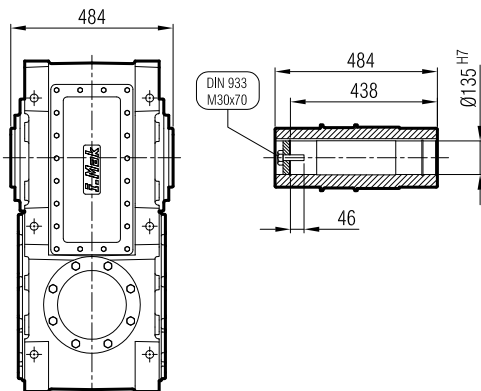
...-FR-SR



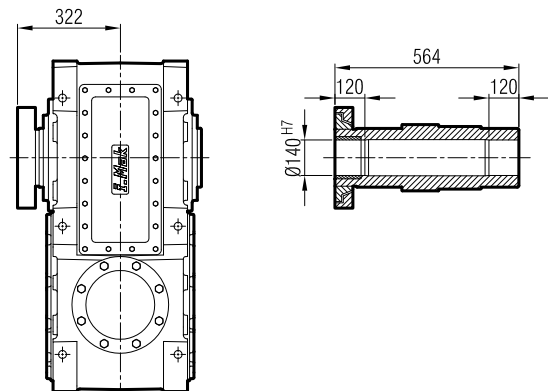
...-FD-SD



...-H

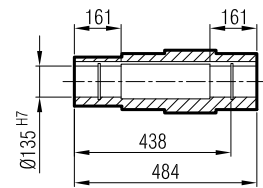
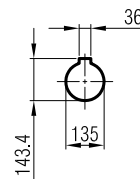
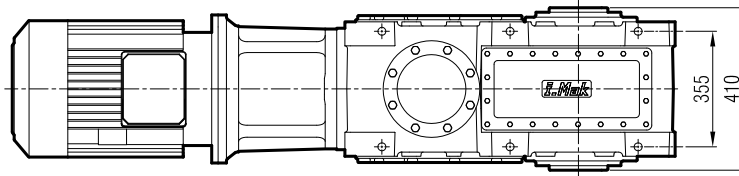
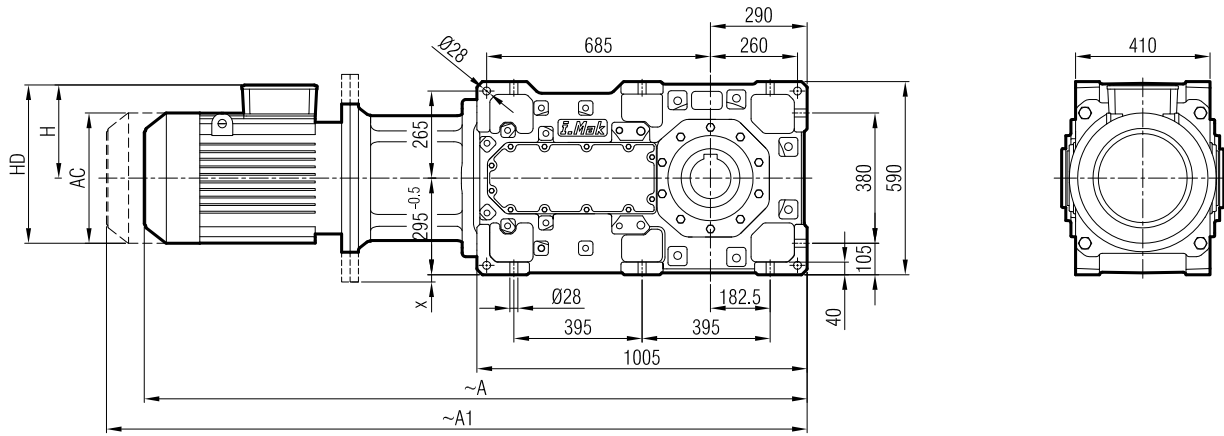


...-SDL / SDR





MKM 903-G09



	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5
A	2021	2021	2089	2108	2168	2218	2308	2308	2489	2489
A1	2157	2157	2236	2255	2315	2365	2556	2556	2737	2737
H	260	260	300	313	313	366	398	398	518	518
HD	440	440	500	538	538	618	678	678	833	833
AC	357	357	394	456	456	489	548	548	652	652
x	-	-	-	-	-	-	-	-	35	35

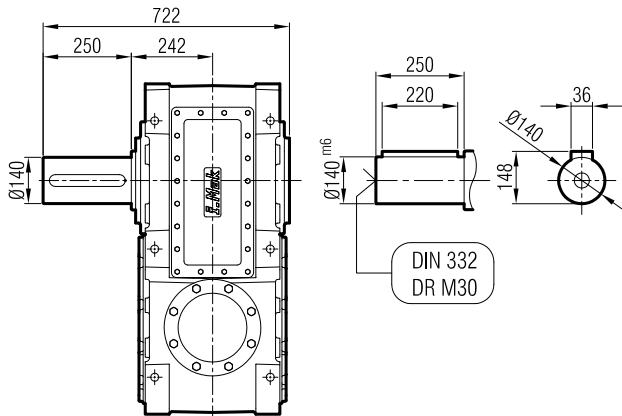
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

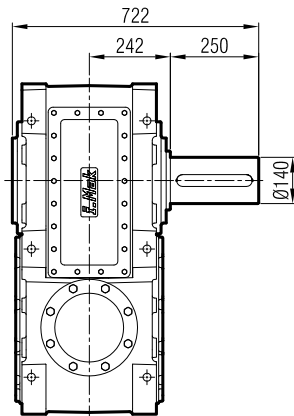
Le dimensions "A1" correspond aux moteurs équipés de freins.



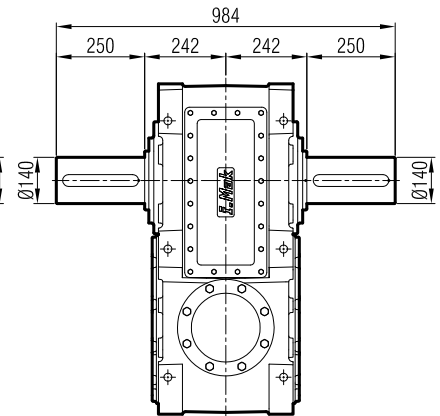
MA / MK 90_
...-SL



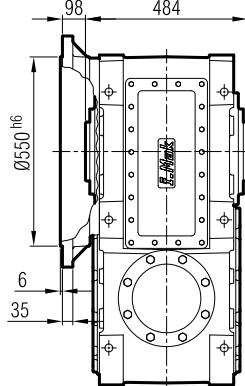
...-SR



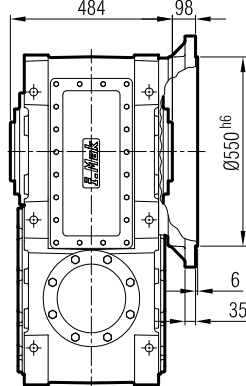
...-SD



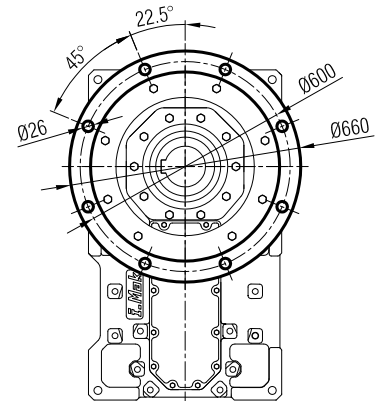
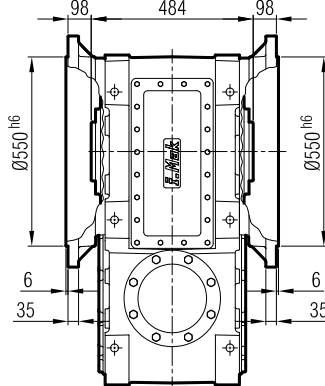
...-FL



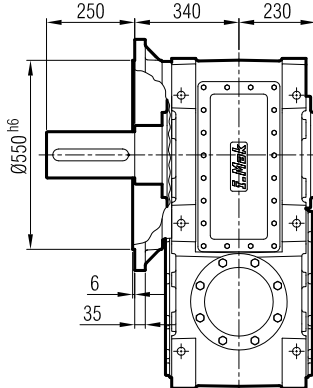
...-FR



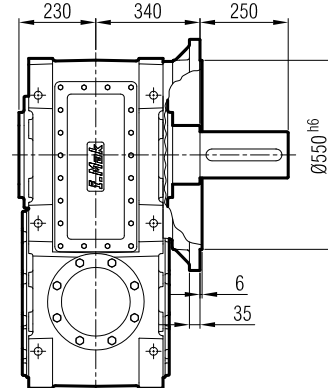
...-FD



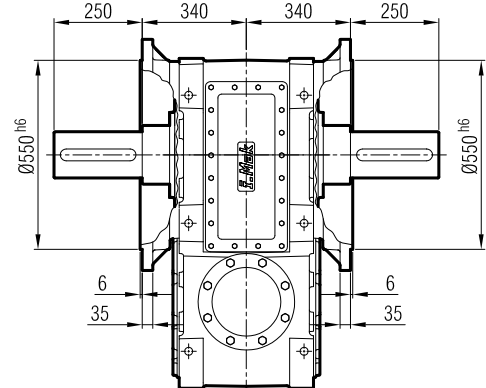
...-FL-SL



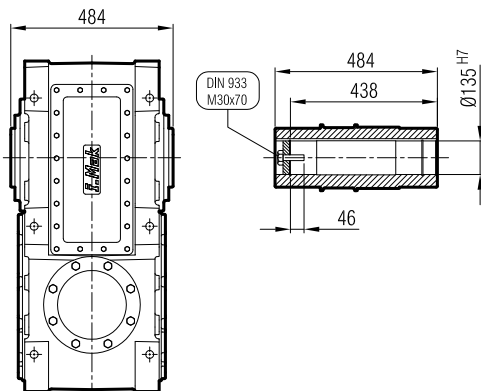
...-FR-SR



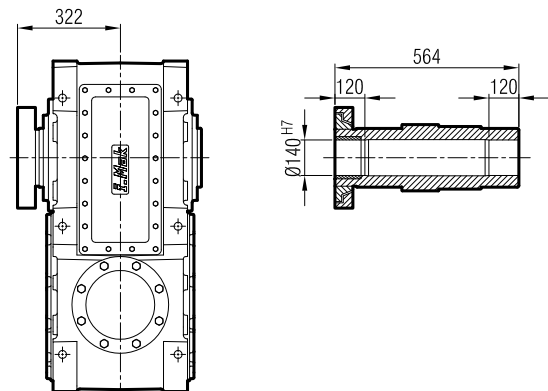
...-FD-SD



...-H

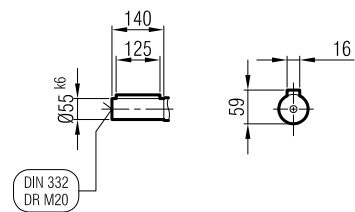
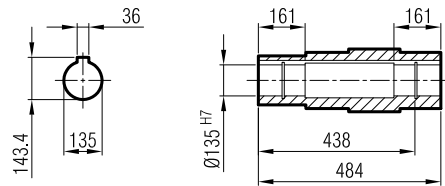
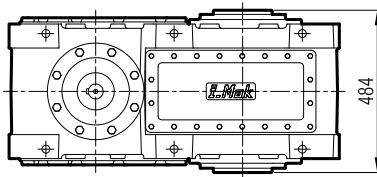
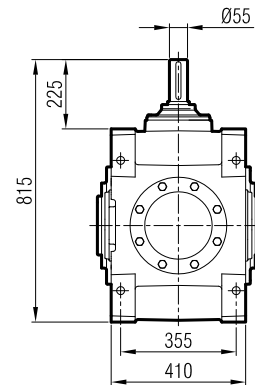
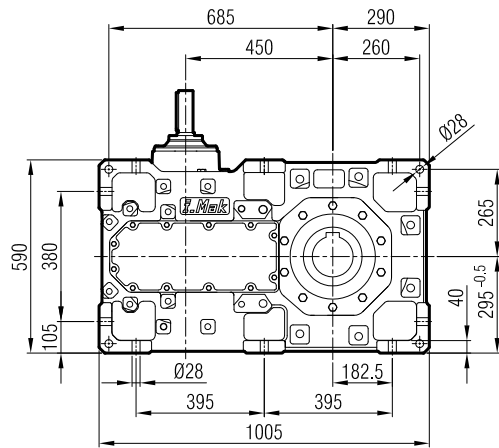


...-SDL / SDR



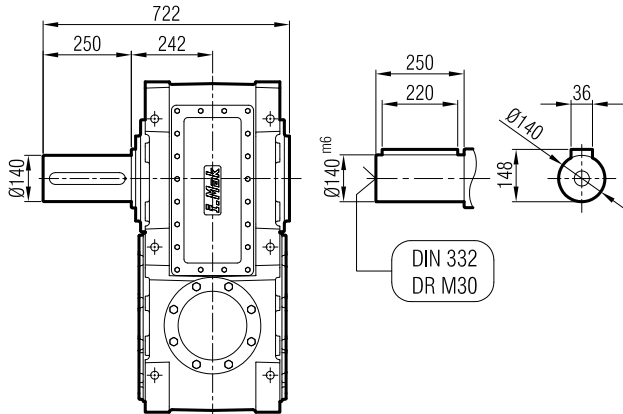


MK 903-G08

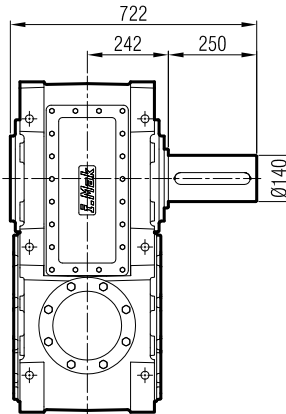




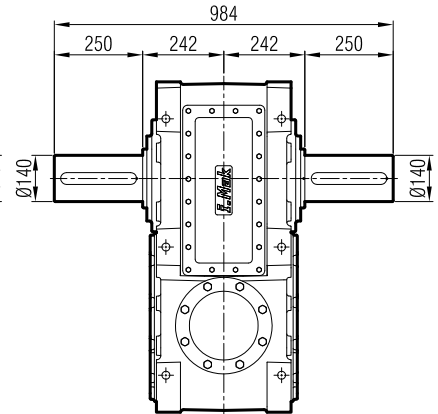
MA / MK 90_
...-SL



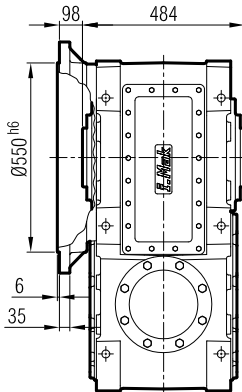
...-SR



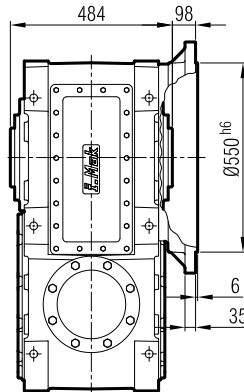
...-SD



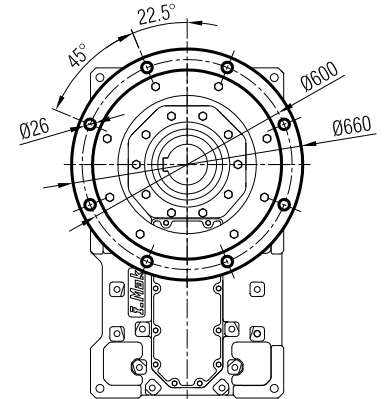
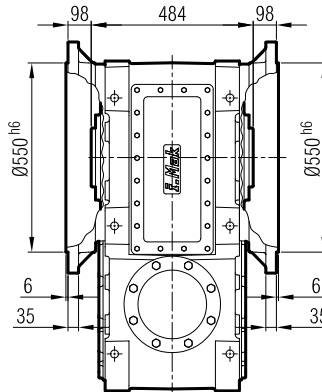
...-FL



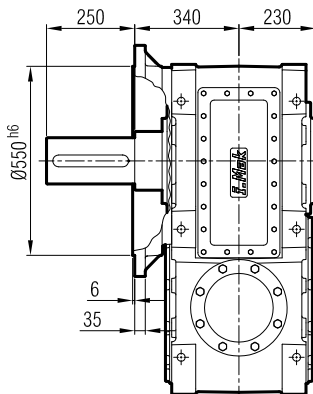
...-FR



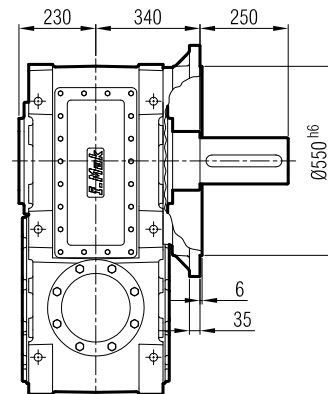
...-FD



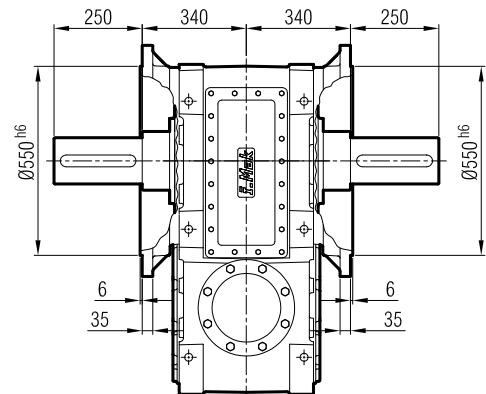
...-FL-SL



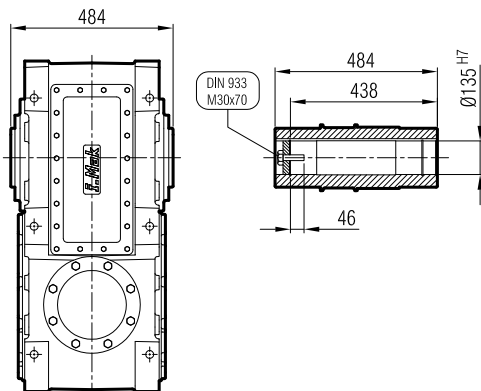
...-FR-SR



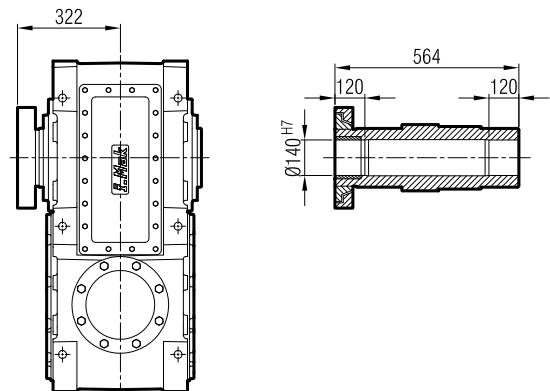
...-FD-SD

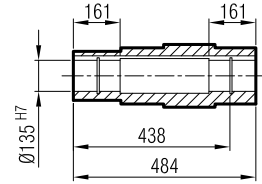
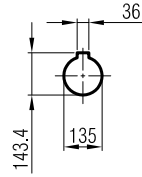
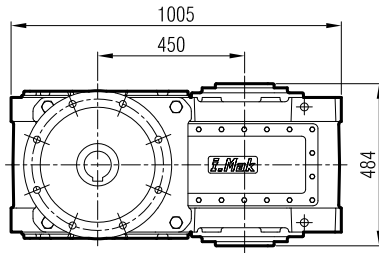
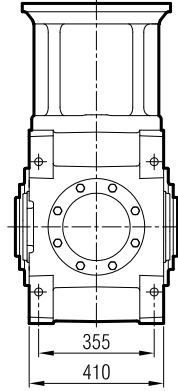
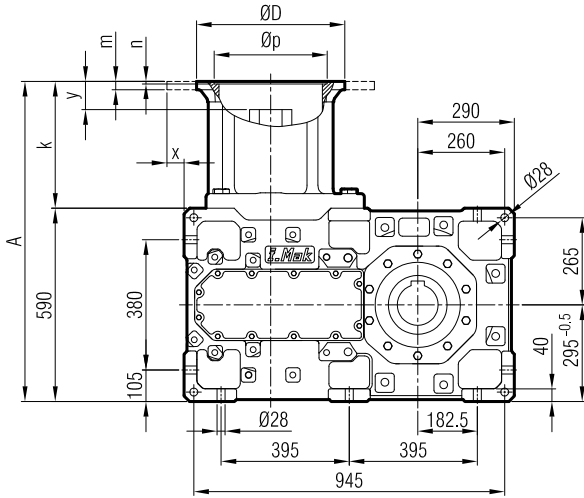


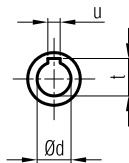
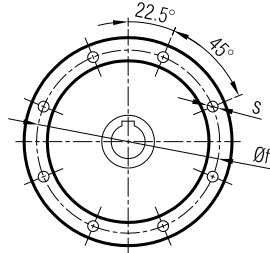
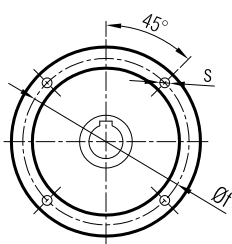
...-H



...-SDL / SDR



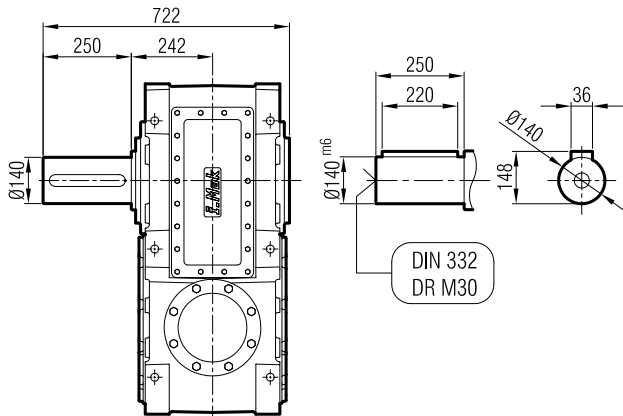

MKP 903-G10

 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


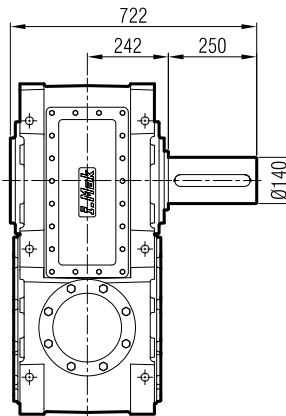
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
180/B5	930	250	300	350	M14	340	20	6	48	51.8	14	-	38
200/B5	930	300	350	400	M16	340	22	6	55	59.3	16	-	38
225/B5	973	350	400	450	M16	383	22	6	60	64.4	18	-	75
250/B5	973	450	500	550	M16	383	25	6.5	65	69.4	18	10	75
280/B5	973	450	500	550	M16	383	25	6.5	75	75.9	20	10	65
315/B5	1003	550	600	660	M24	413	30	7	85	90.4	22	65	90



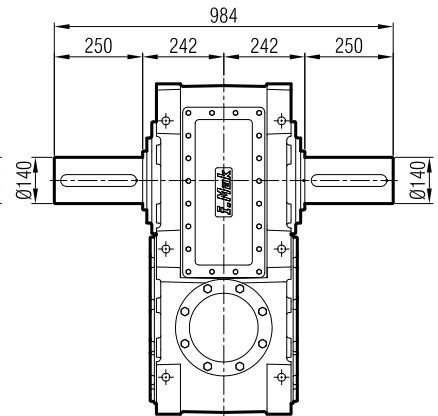
MA / MK 90_
...-SL



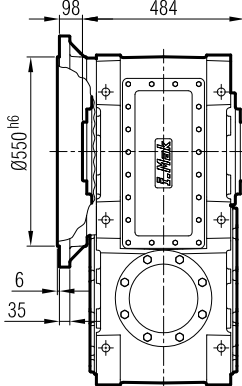
...-SR



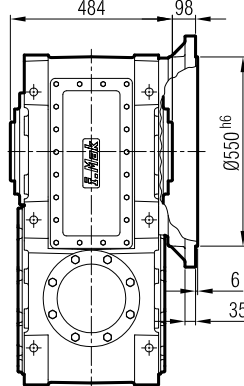
...-SD



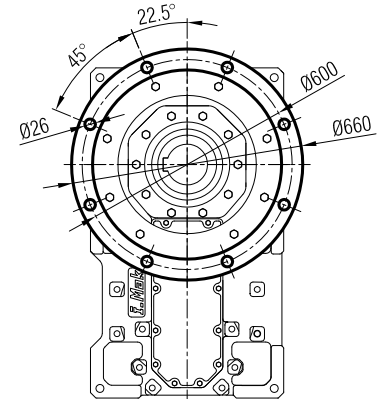
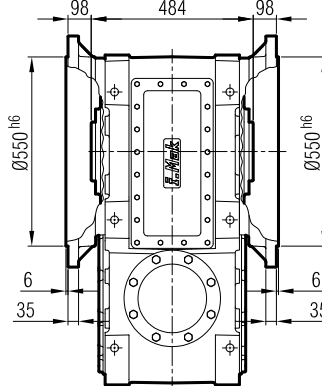
...-FL



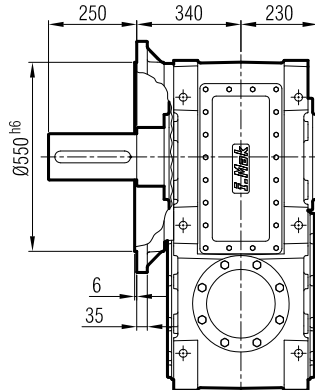
...-FR



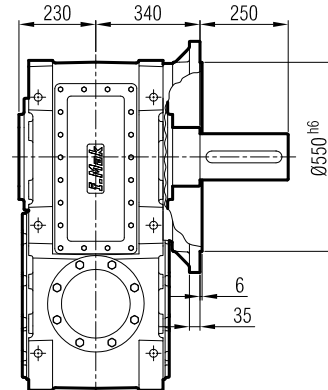
...-FD



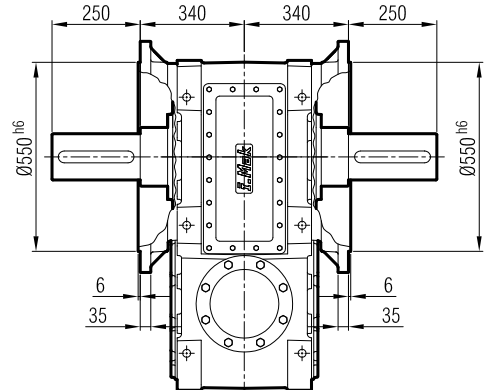
...-FL-SL



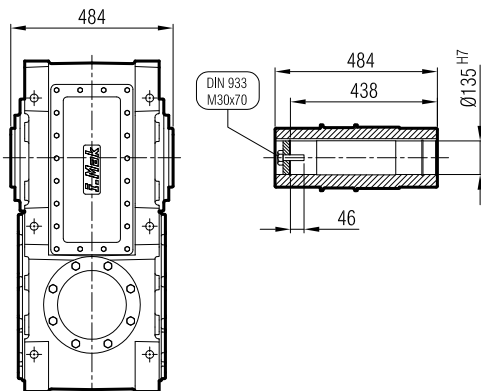
...-FR-SR



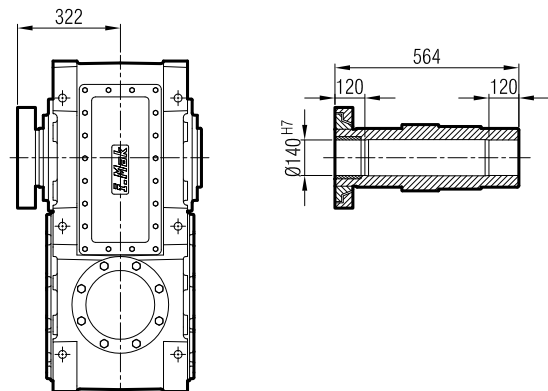
...-FD-SD



...-H

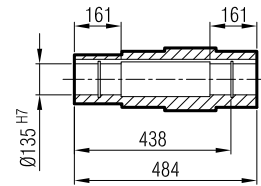
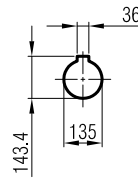
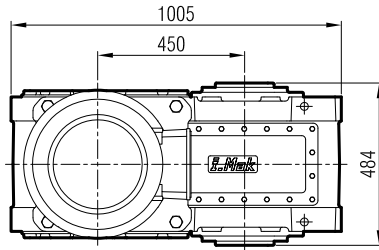
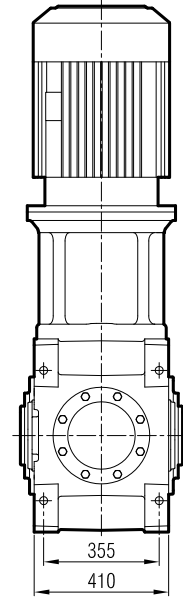
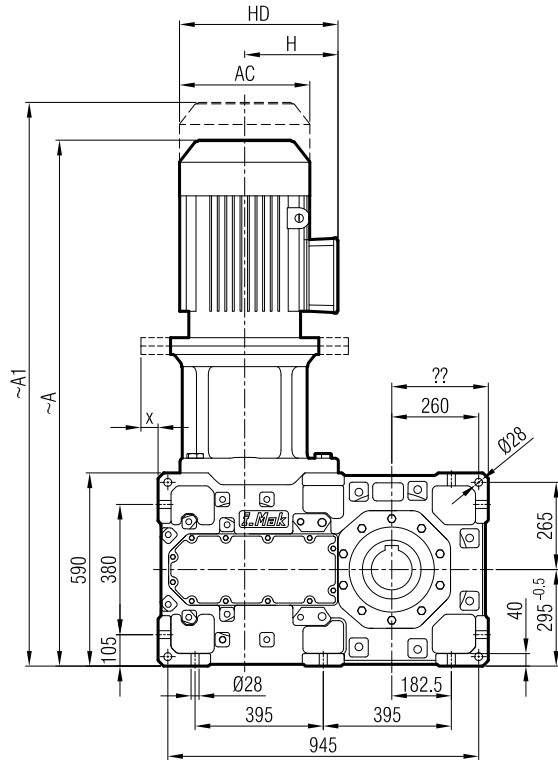


...-SDL / SDR





MKM 903-G10



	180 M/B5	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5
A	1571	1571	1639	1658	1718	1768	1858	1858	2039	2039
A1	1707	1707	1786	1805	1865	1915	2106	2106	2287	2287
H	260	260	300	313	313	366	398	398	518	518
HD	440	440	500	538	538	618	678	678	833	833
AC	357	357	394	456	456	489	548	548	652	652
x	-	-	-	-	-	10	10	10	65	65

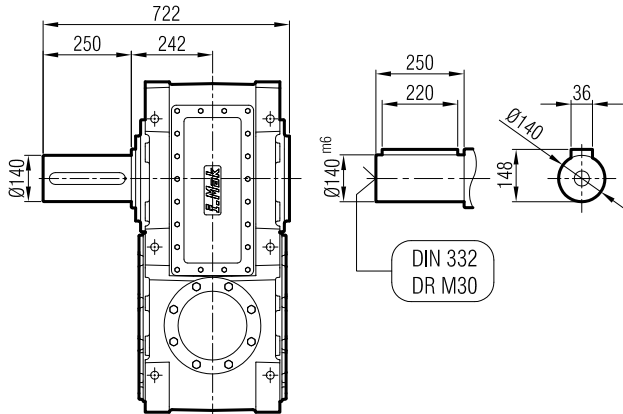
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

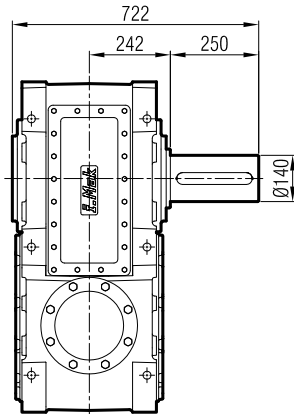
Le dimensions "A1" correspond aux moteurs équipés de freins.



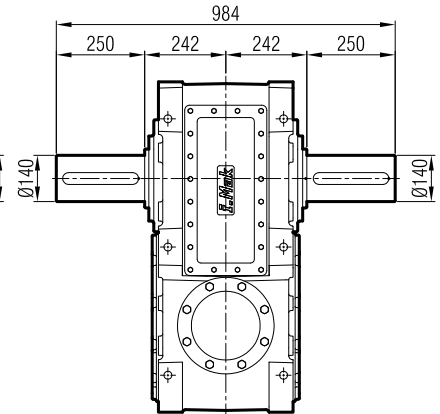
MA / MK 90_
...-SL



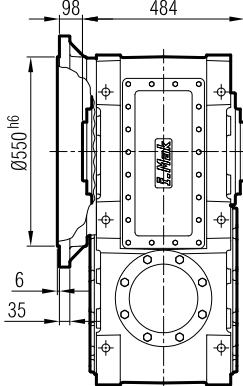
...-SR



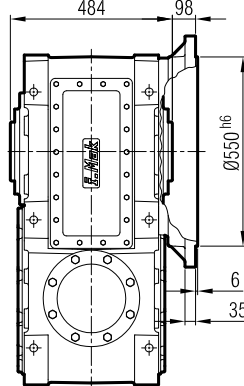
...-SD



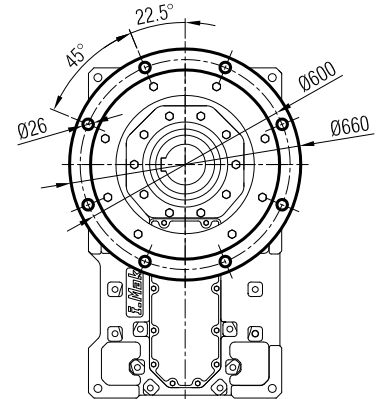
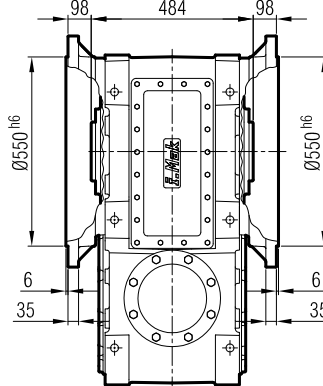
...-FL



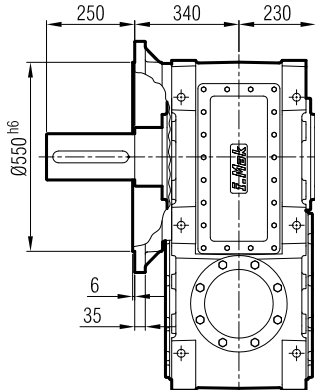
...-FR



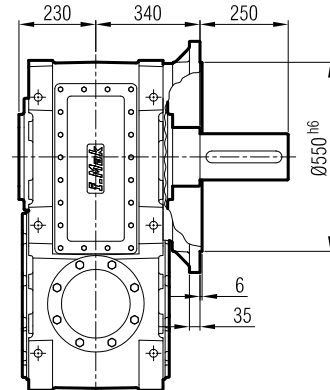
...-FD



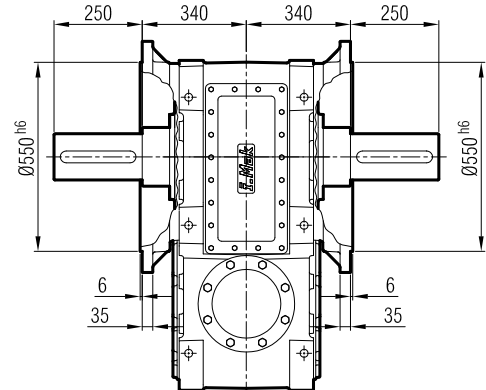
...-FL-SL



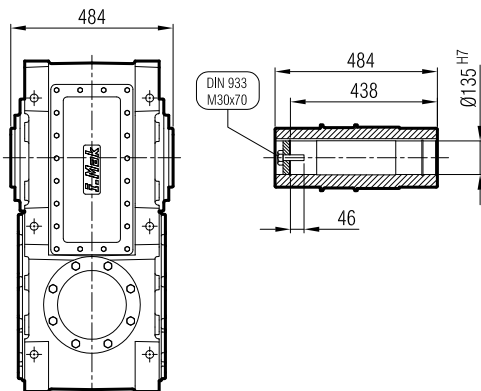
...-FR-SR



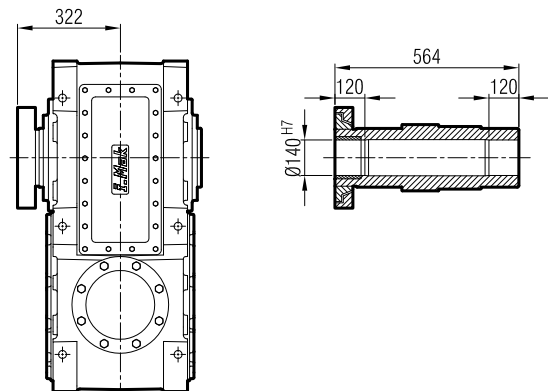
...-FD-SD



...-H

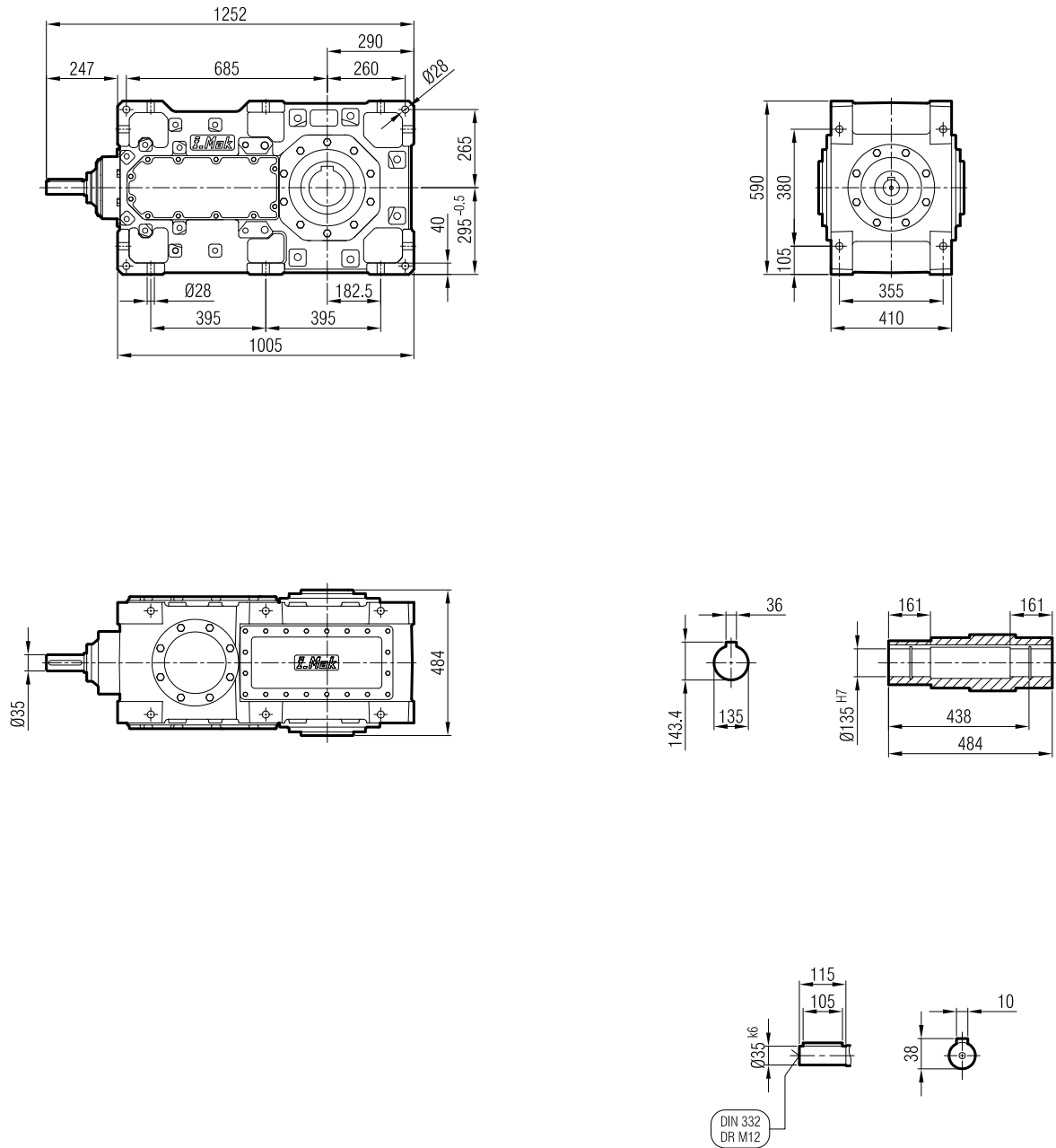


...-SDL / SDR



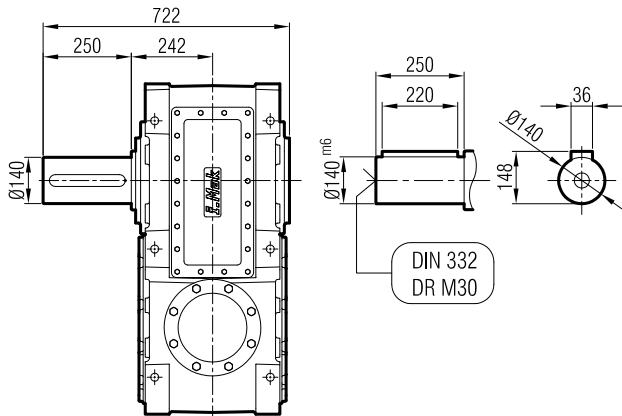


MK 904-G07

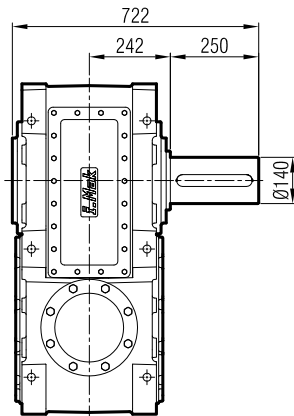




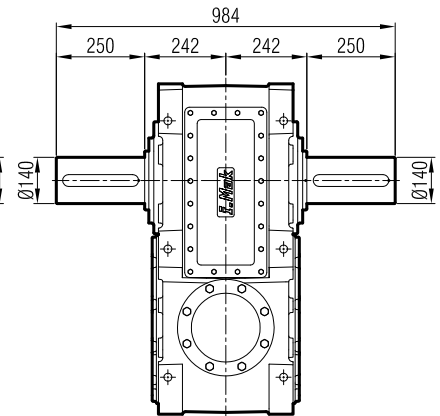
MA / MK 90_
...-SL



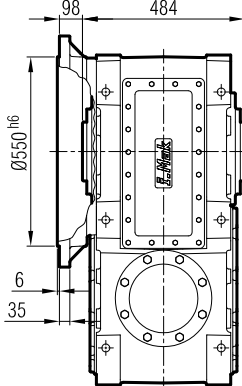
...-SR



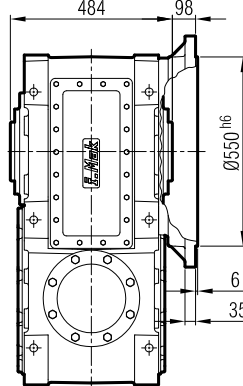
...-SD



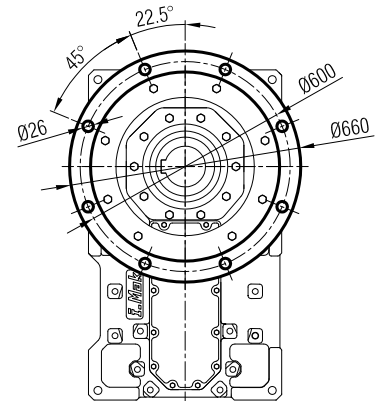
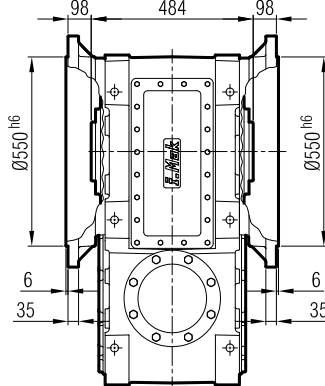
...-FL



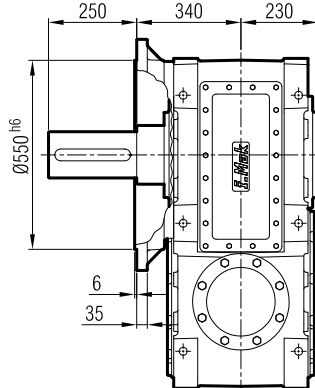
...-FR



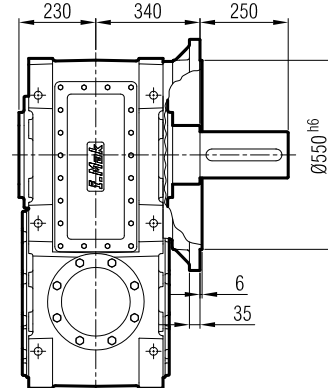
...-FD



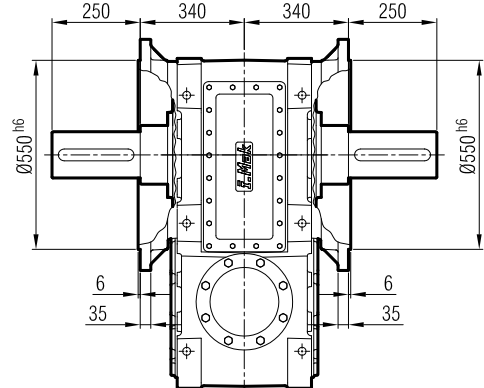
...-FL-SL



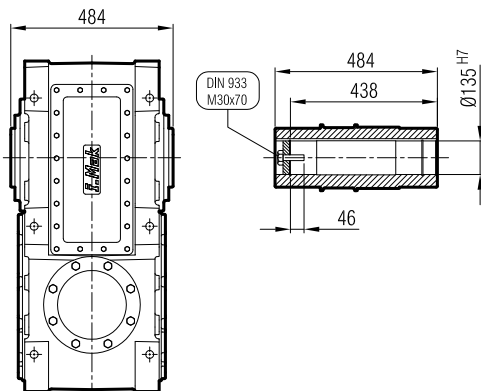
...-FR-SR



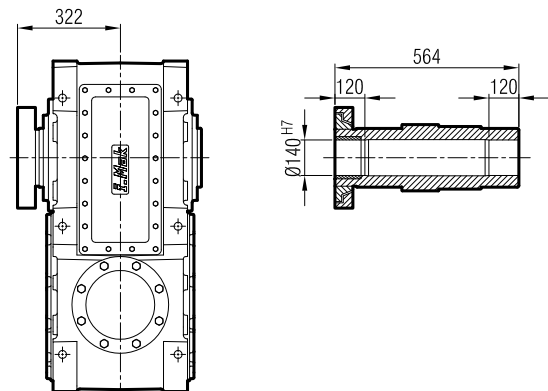
...-FD-SD



...-H

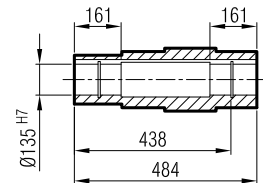
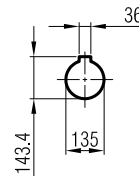
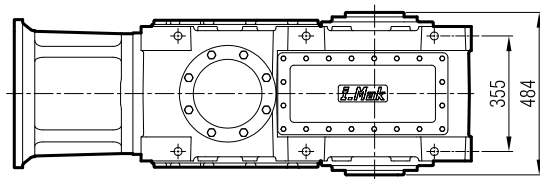
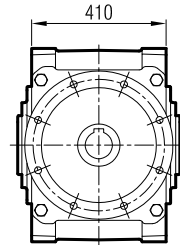
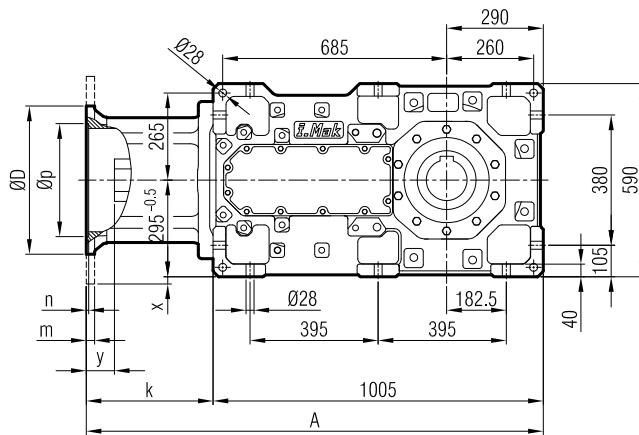


...-SDL / SDR

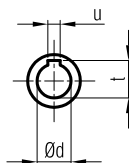
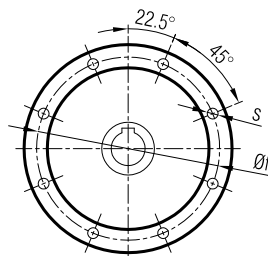
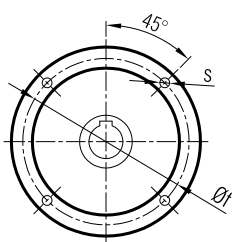




MKP 904-G09


$$\leq 200 \text{ B5 Tip/Type/Typ}$$

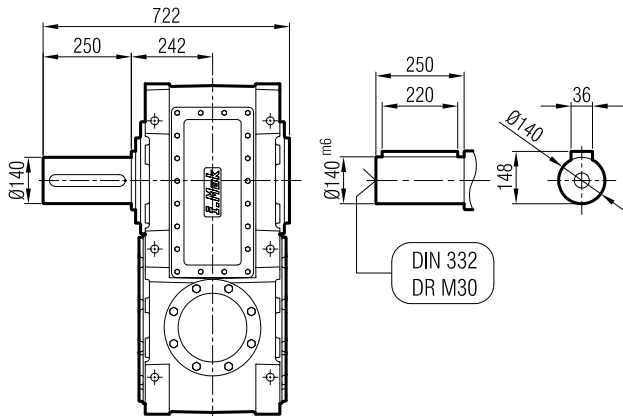
≥ 225 B5 **Tip**/Type/Typ



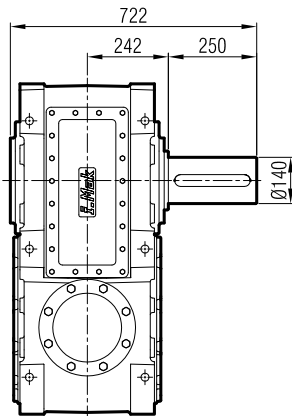
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	1328	180	215	250	M12	325	15	5	28	31.3	8	-	23
132/B5	1348	230	265	300	M12	345	18	6	38	41.3	10	-	28
160/B5	1380	250	300	350	M14	370	20	6	42	45.3	12	-	60
180/B5	1380	250	300	350	M14	370	20	6	48	51.8	14	-	60
200/B5	1380	300	350	400	M16	370	22	6	55	59.3	16	-	60
225/B5	1423	350	400	450	M16	413	22	6	60	64.4	18	-	80



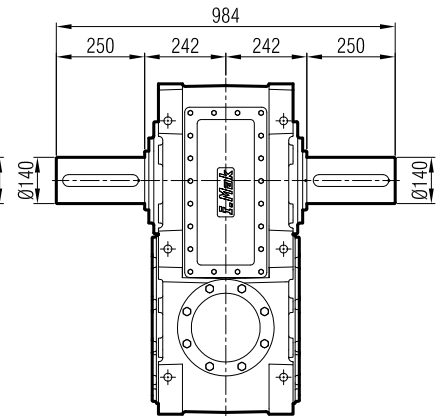
MA / MK 90_
...-SL



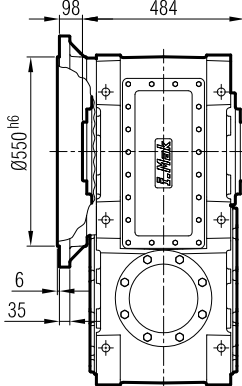
...-SR



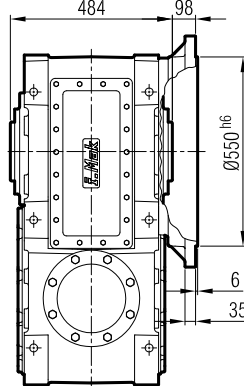
...-SD



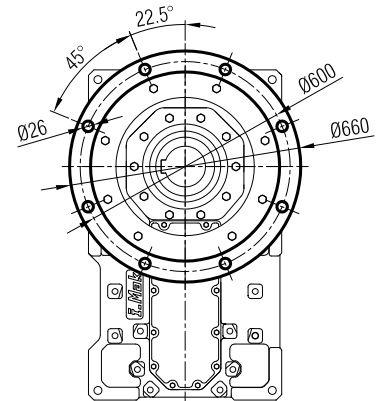
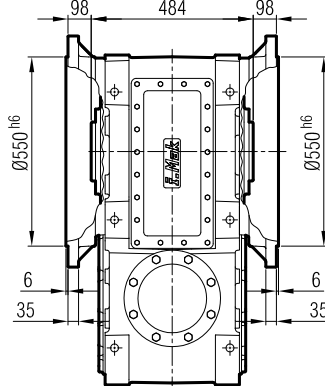
...-FL



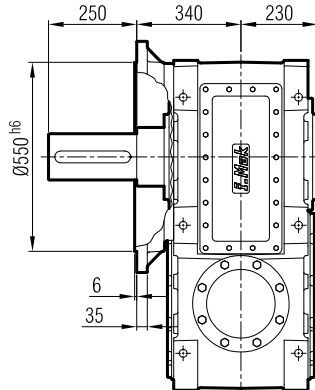
...-FR



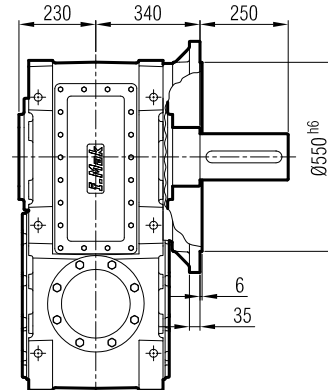
...-FD



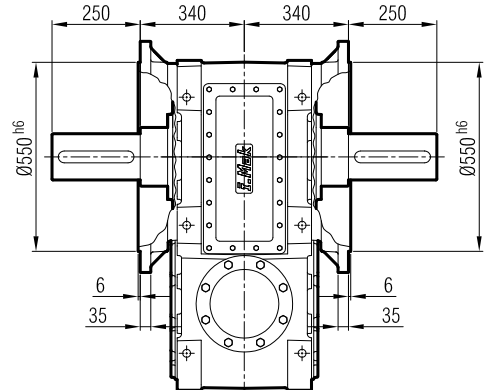
...-FL-SL



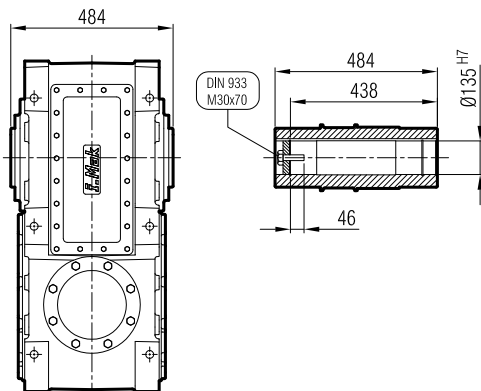
...-FR-SR



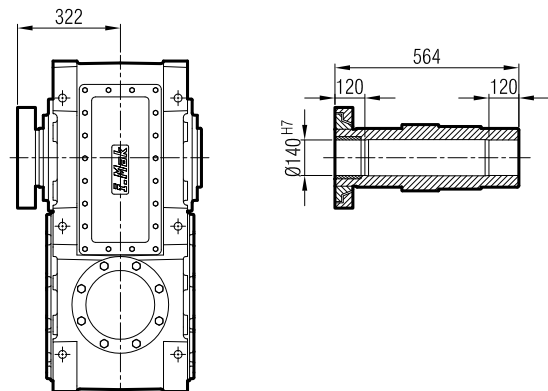
...-FD-SD

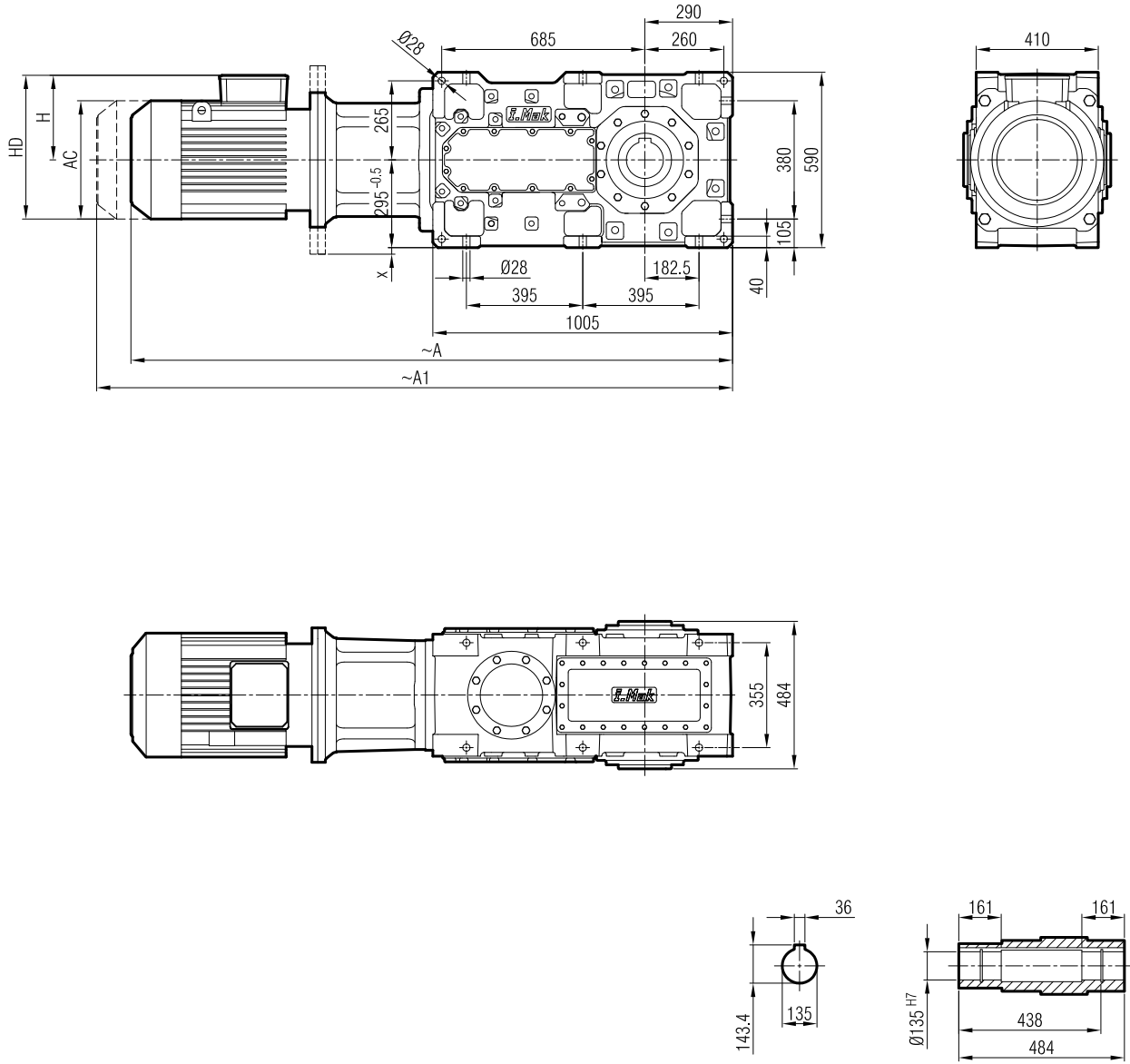


...-H



...-SDL / SDR




MKM 904-G09


	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	1672	1749	1790	1900	1945	2021	2021	2089	2108	2168
A1	1767	1853	1894	2017	2062	2157	2157	2236	2255	2315
H	170	193	193	240	240	260	260	300	313	313
HD	282	325	325	400	400	440	440	500	538	538
AC	220	262	262	315	315	357	357	394	456	456
X	-	-	-	-	-	-	-	-	-	-

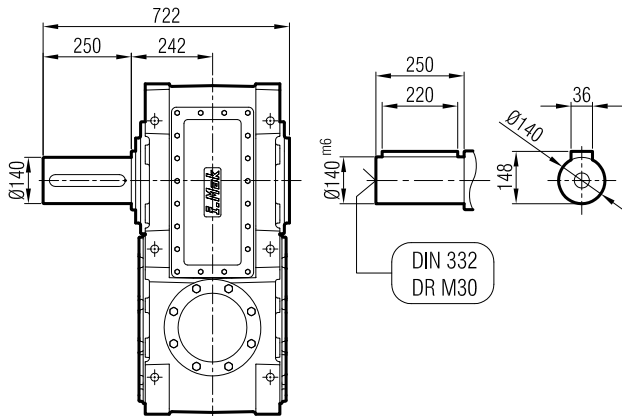
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

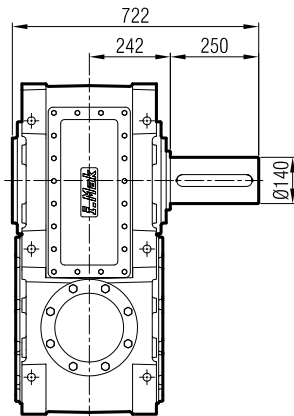
Le dimensions "A1" correspond aux moteurs équipés de freins.



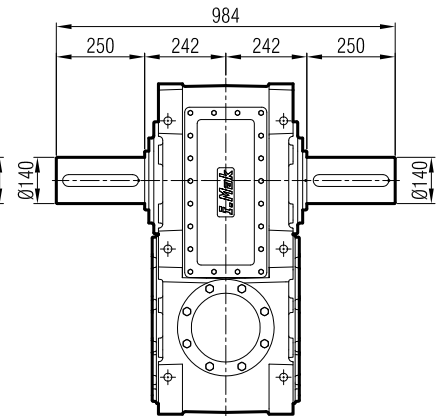
MA / MK 90_
...-SL



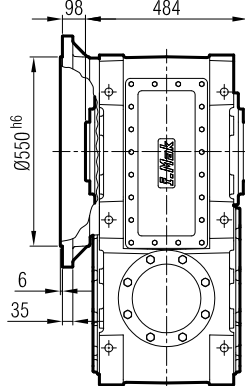
...-SR



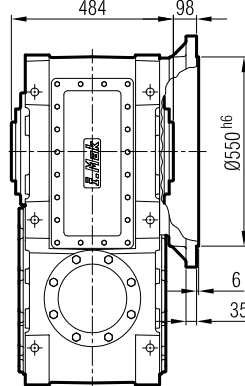
...-SD



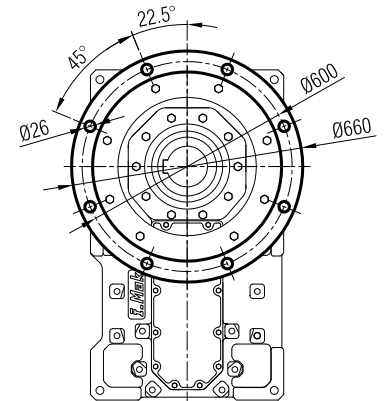
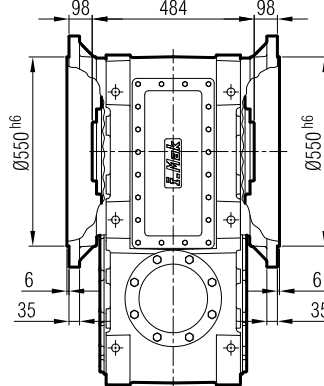
...-FL



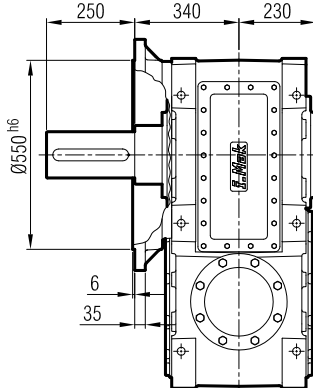
...-FR



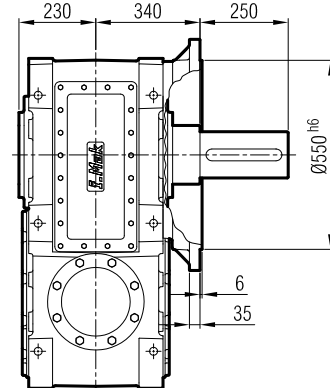
...-FD



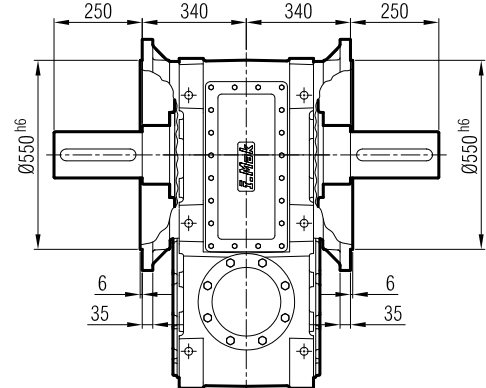
...-FL-SL



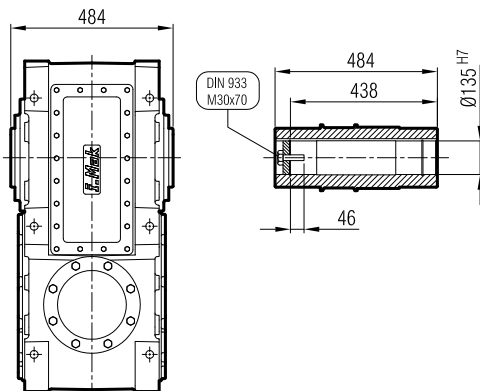
...-FR-SR



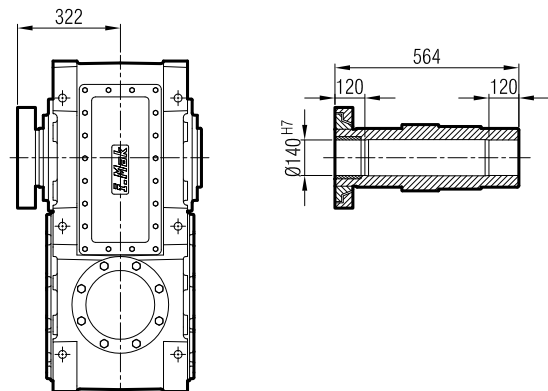
...-FD-SD



...-H

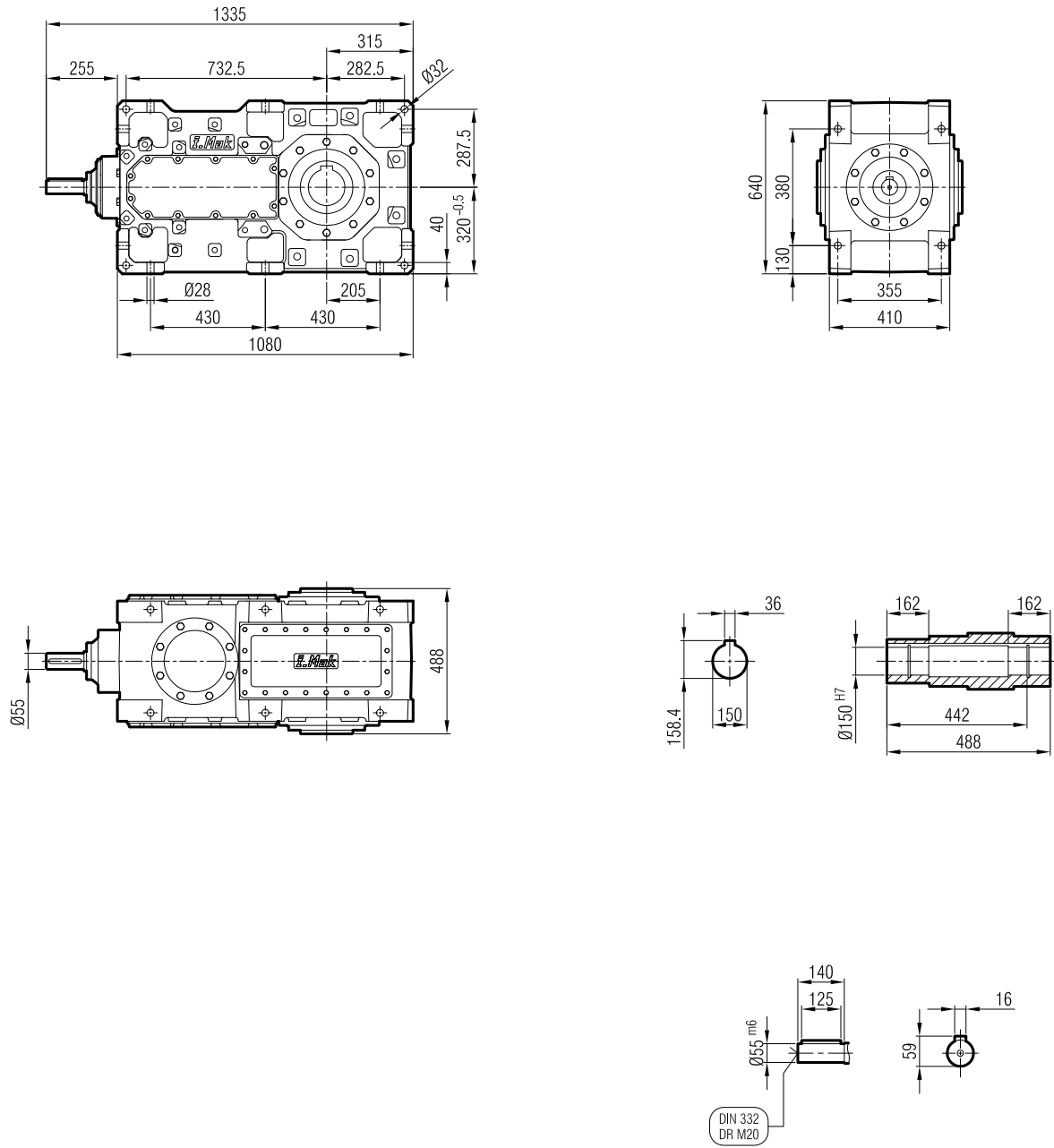


...-SDL / SDR



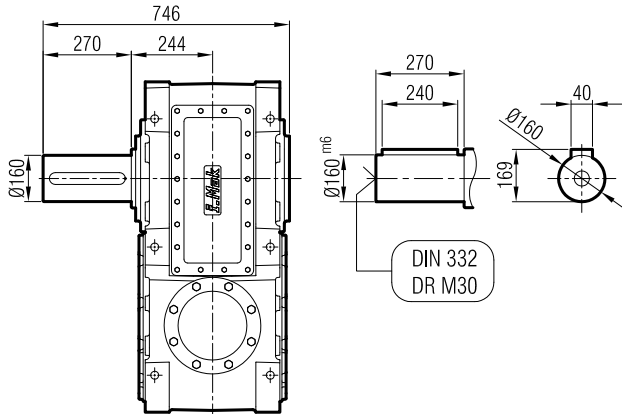


MK 1003-G07

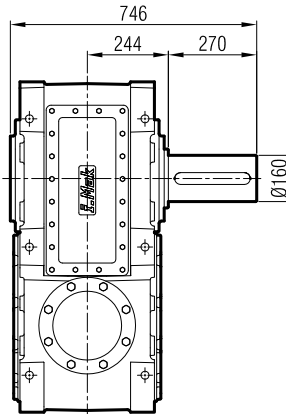




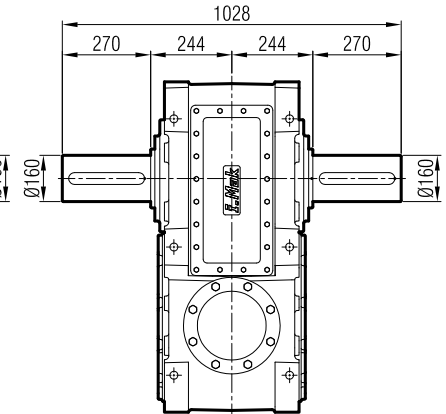
MA / MK 100_
...-SL



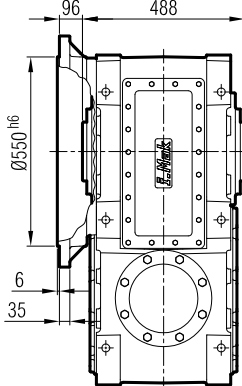
...-SR



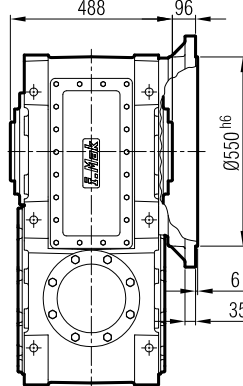
...-SD



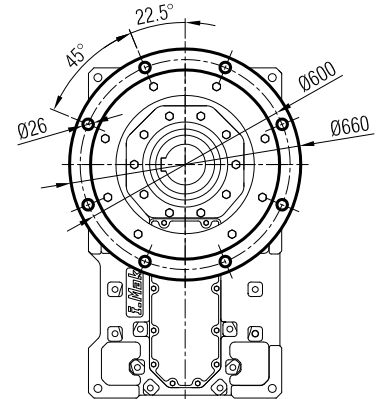
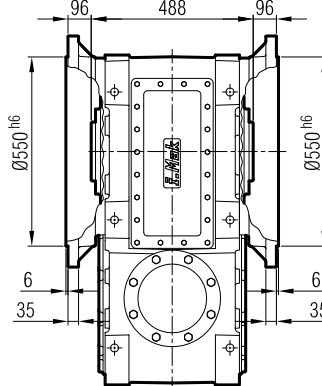
...-FL



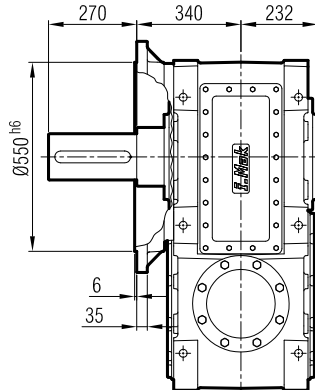
...-FR



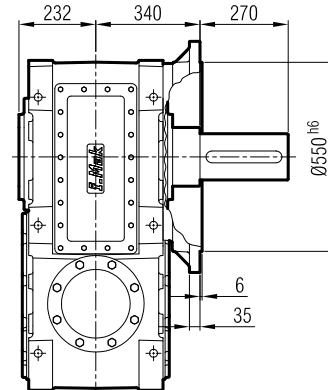
...-FD



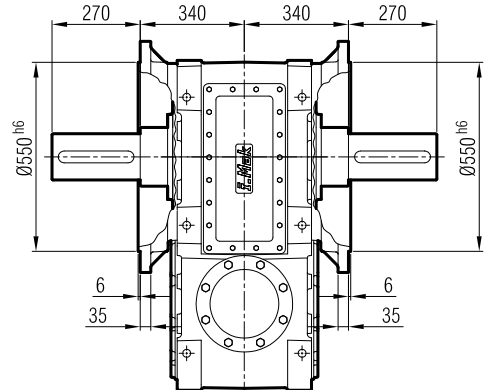
...-FL-SL



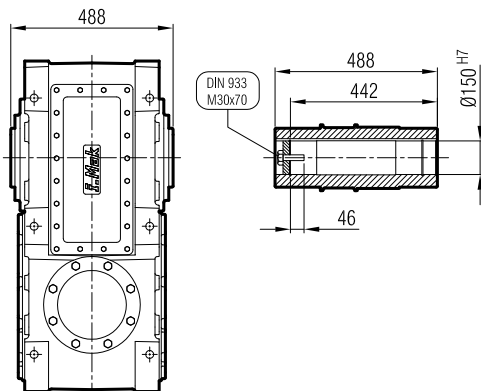
...-FR-SR



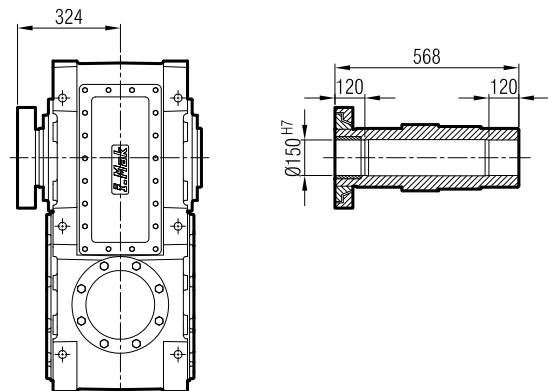
...-FD-SD

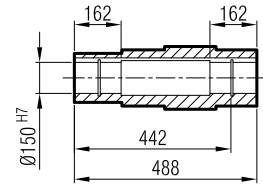
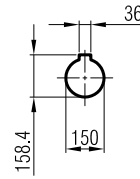
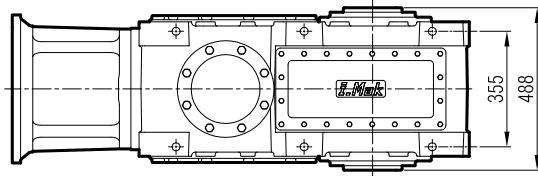
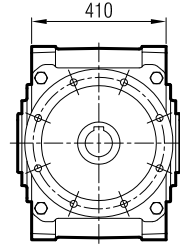
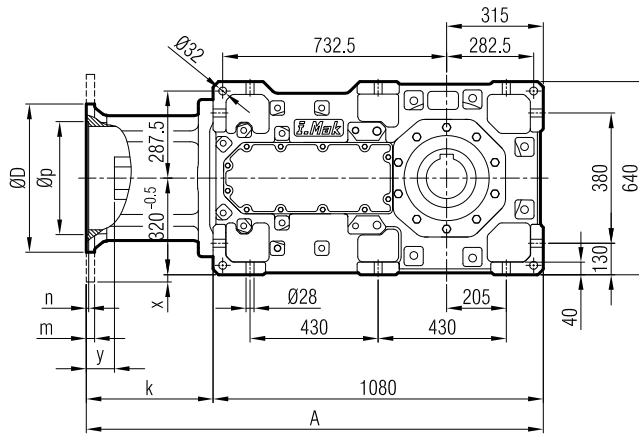


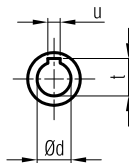
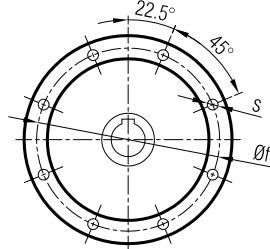
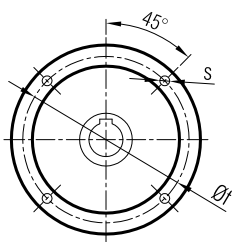
...-H



...-SDL / SDR



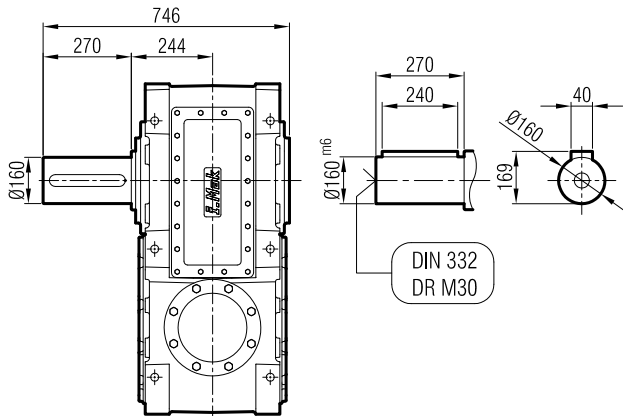

MKP 1003-G09

 ≤ 200 B5 Tip/Type/Typ

 ≥ 225 B5 Tip/Type/Typ


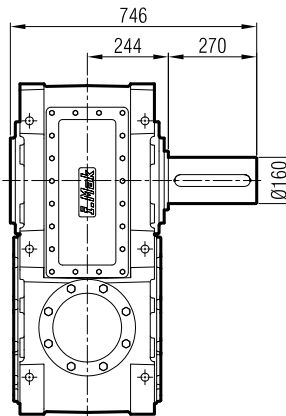
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
180/B5	1450	250	300	350	M14	370	20	6	48	51.8	14	-	38
200/B5	1450	300	350	400	M16	370	22	6	55	59.3	16	-	40
225/B5	1493	350	400	450	M16	413	22	6	60	64.4	18	-	75
250/B5	1493	450	500	550	M16	413	25	6.5	65	69.4	18	-	75
280/B5	1493	450	500	550	M16	413	25	6.5	75	75.9	20	-	65
315/B5	1523	550	600	660	M24	443	30	7	85	90.4	22	10	90



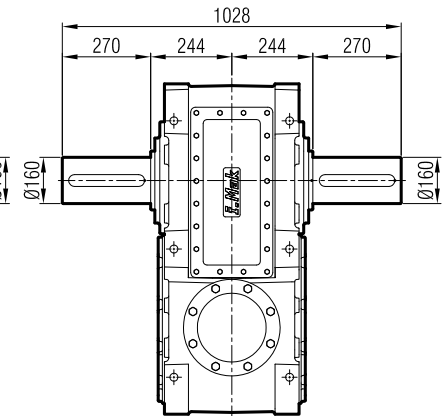
MA / MK 100_
...-SL



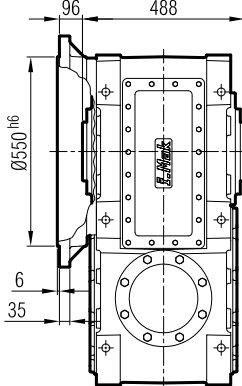
...-SR



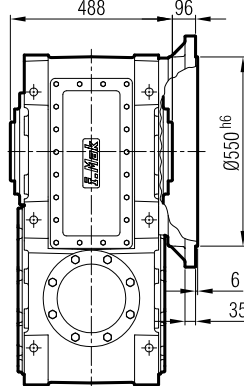
...-SD



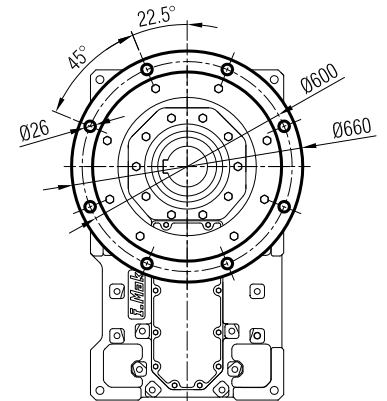
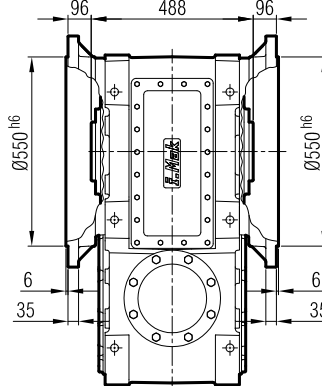
...-FL



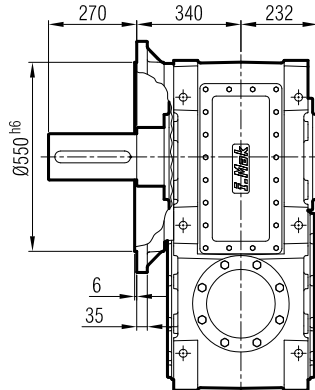
...-FR



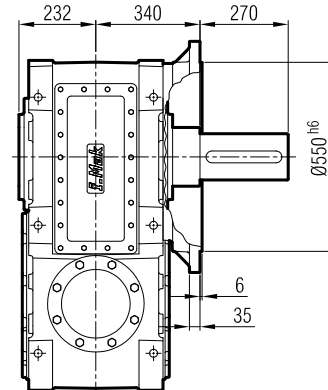
...-FD



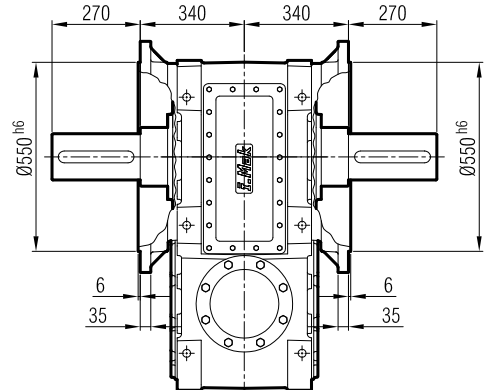
...-FL-SL



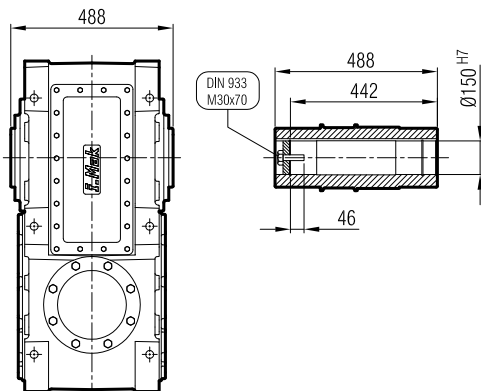
...-FR-SR



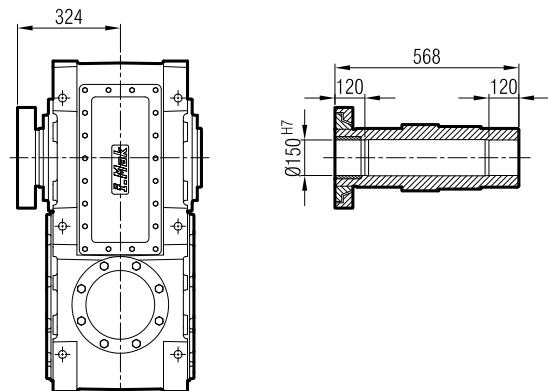
...-FD-SD

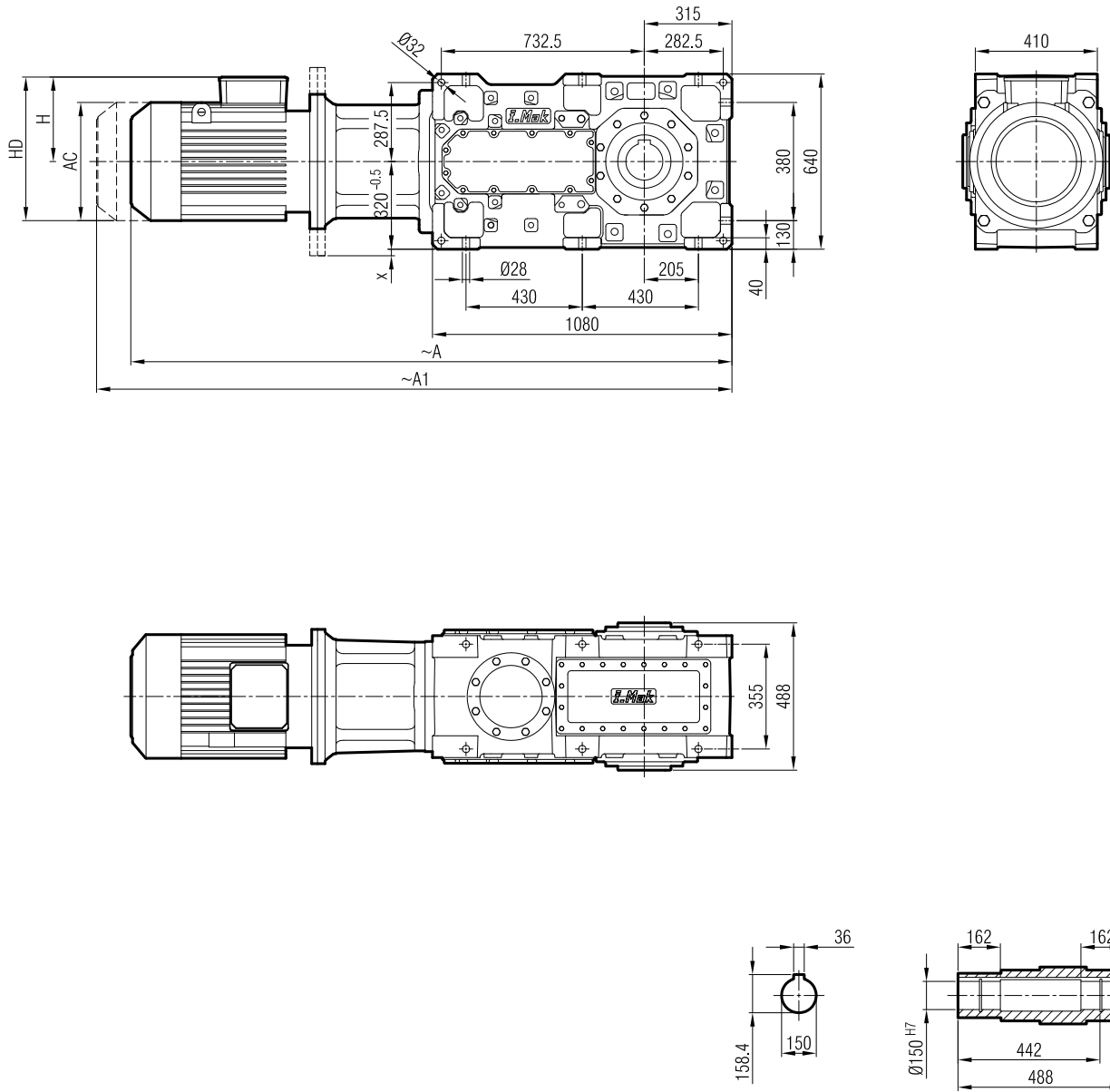


...-H



...-SDL / SDR




MKM 1003-G09


	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5
A	2091	2159	2178	2238	2288	2378	2378	2559	2559
A1	2227	2306	2325	2385	2435	2626	2626	2807	2807
H	260	300	313	313	366	398	398	518	518
HD	440	500	538	538	618	678	678	833	833
AC	357	394	456	456	489	548	548	652	652
x	-	-	-	-	-	-	-	10	10

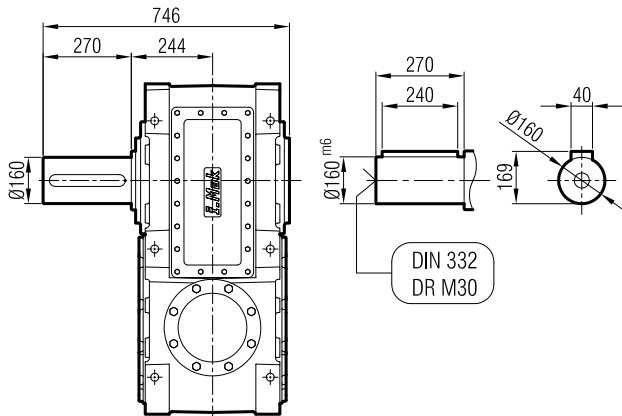
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

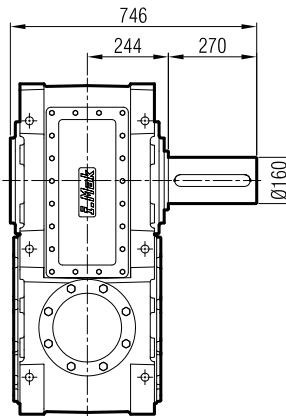
Le dimensions "A1" correspond aux moteurs équipés de freins.



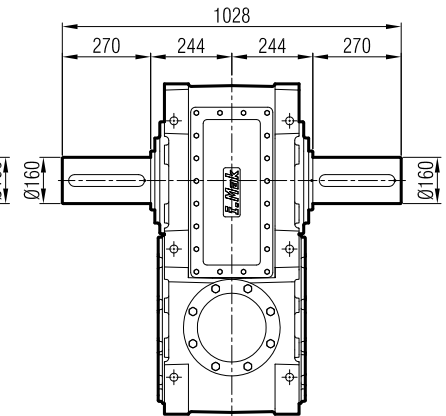
MA / MK 100_
...-SL



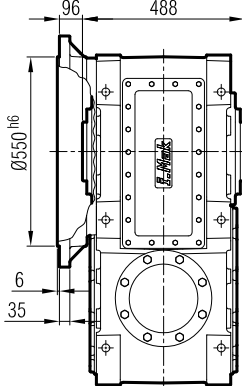
...-SR



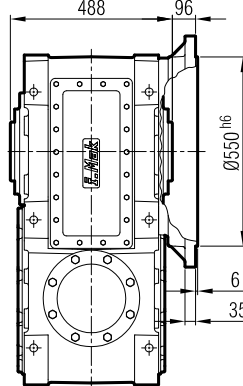
...-SD



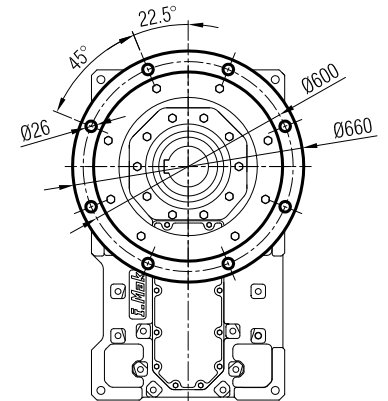
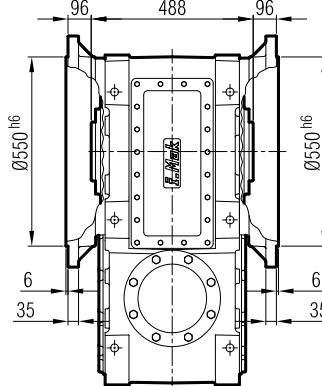
...-FL



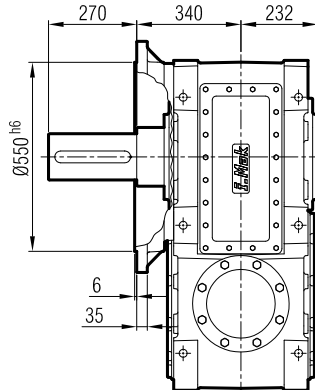
...-FR



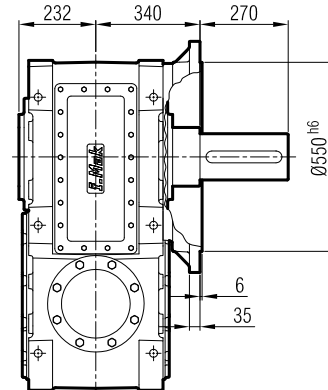
...-FD



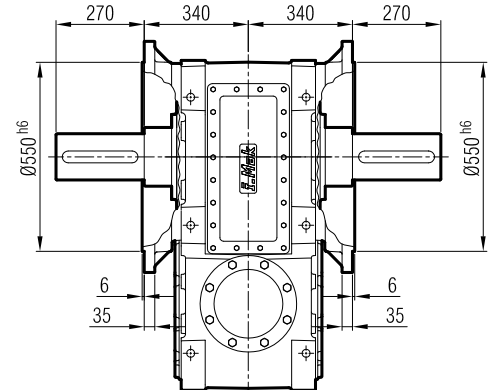
...-FL-SL



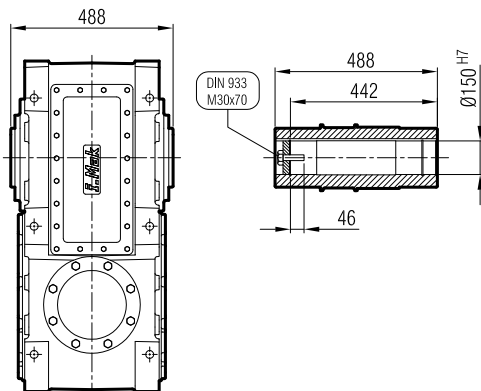
...-FR-SR



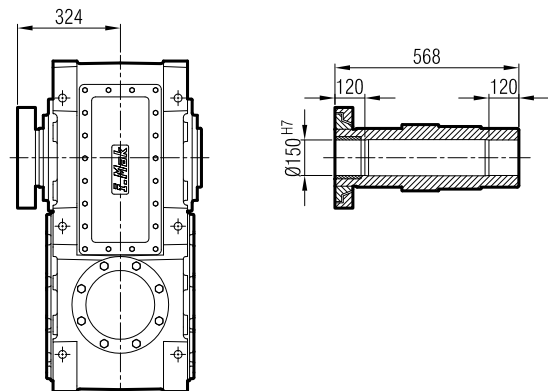
...-FD-SD



...-H

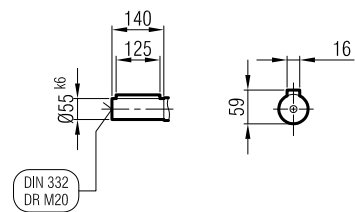
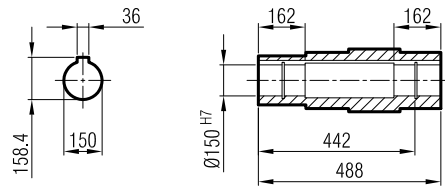
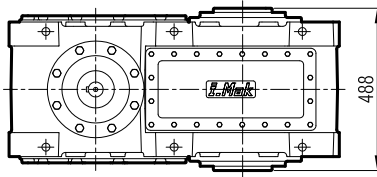
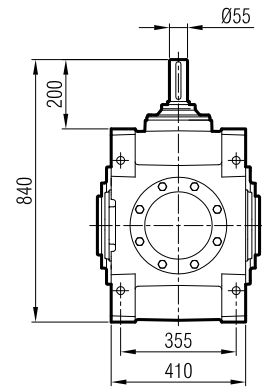
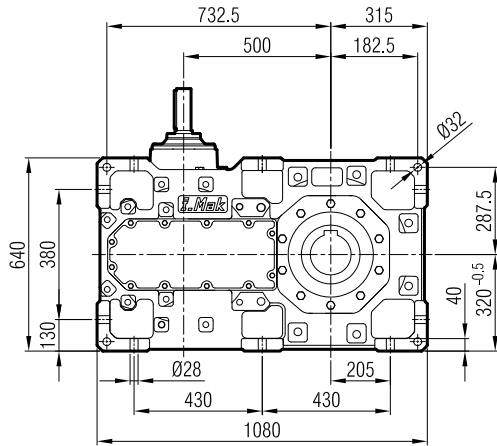


...-SDL / SDR





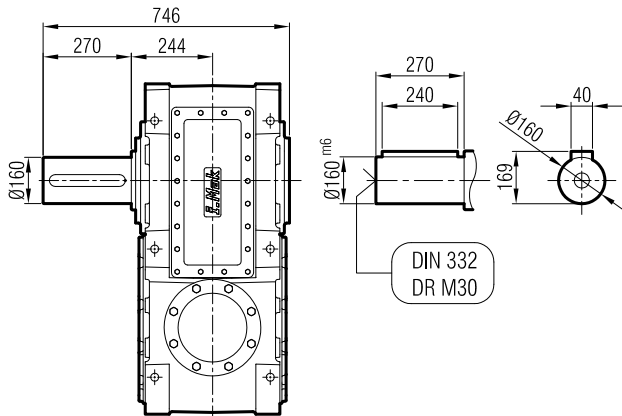
MK 1003-G08



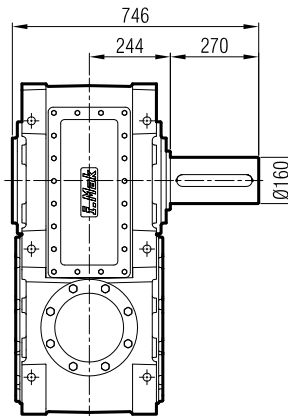
DIN 332
DR M20



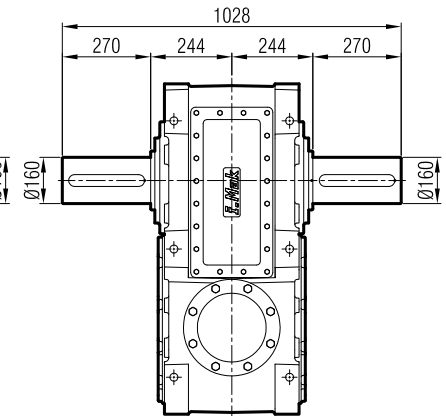
MA / MK 100_
...-SL



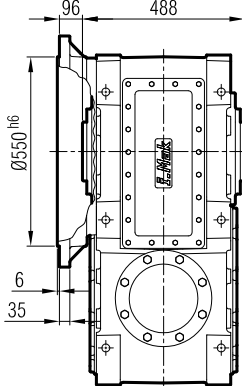
...-SR



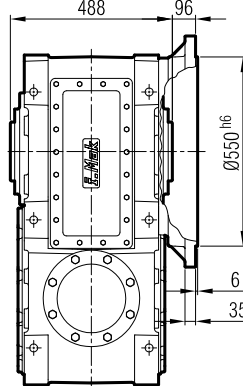
...-SD



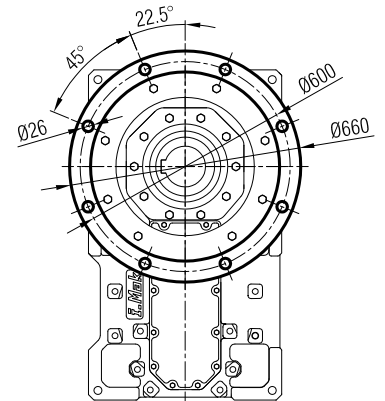
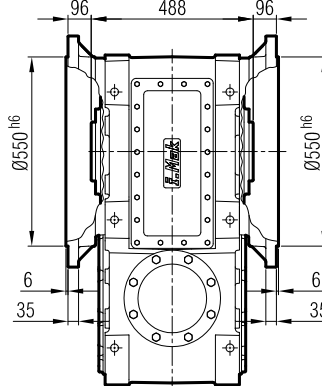
...-FL



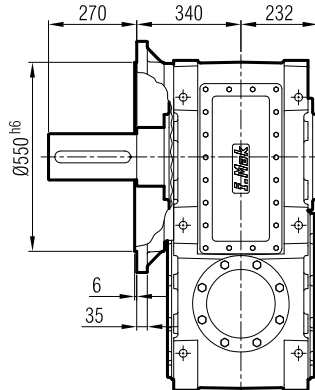
...-FR



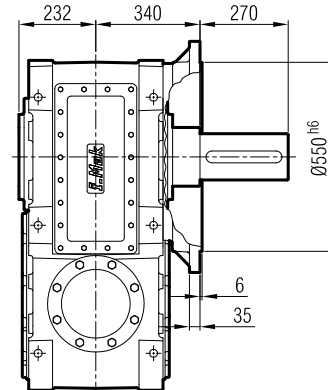
...-FD



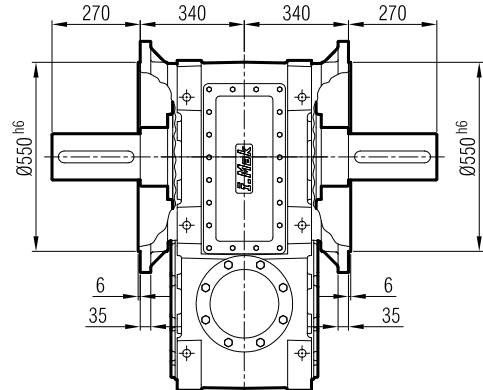
...-FL-SL



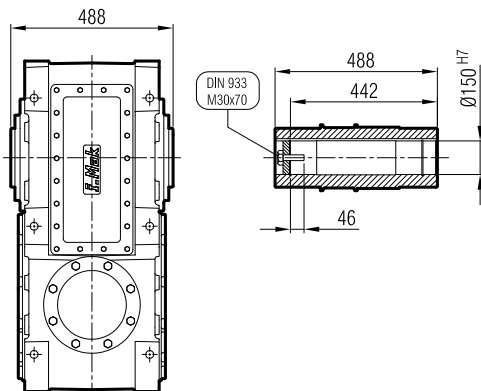
...-FR-SR



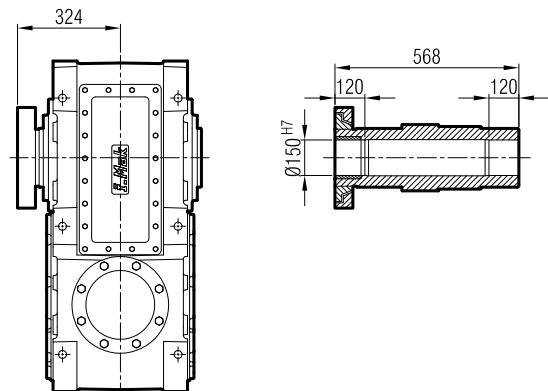
...-FD-SD



...-H

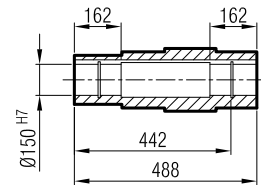
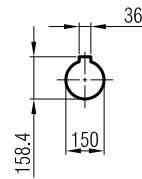
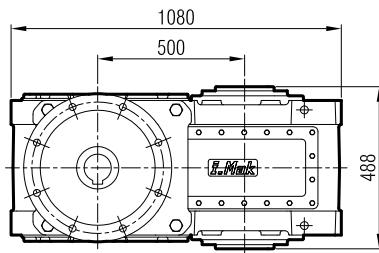
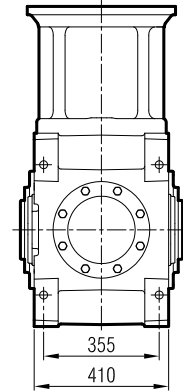
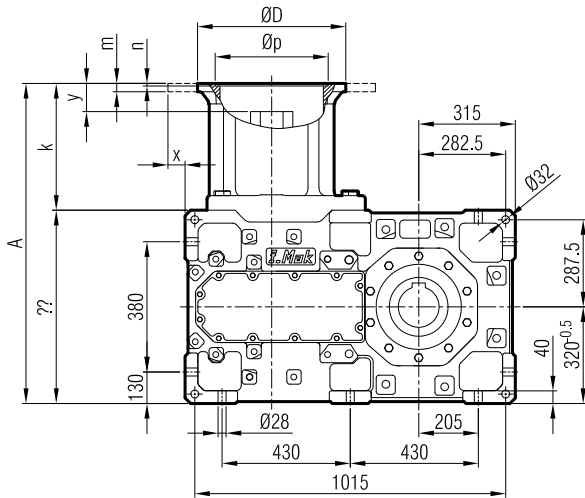


...-SDL / SDR

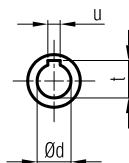
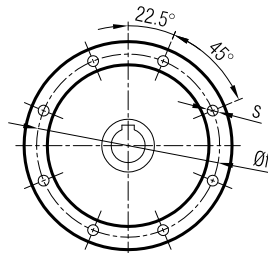
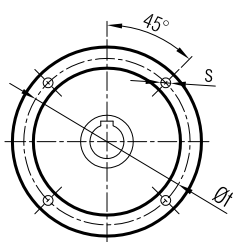




MKP 1003-G10

 ≤ 200 B5 **Tip**/Type/*Typ*

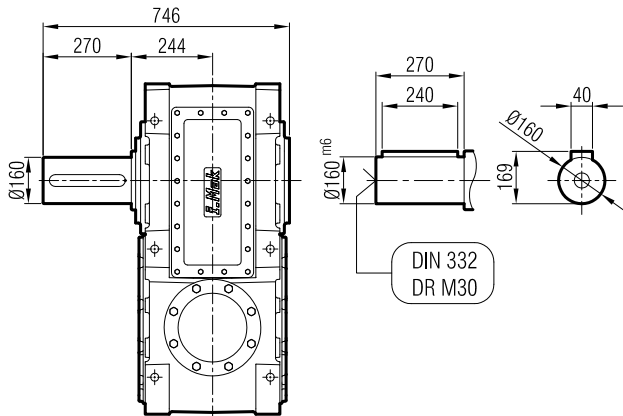
≥ 225 B5 **Tip**/Type/*Typ*



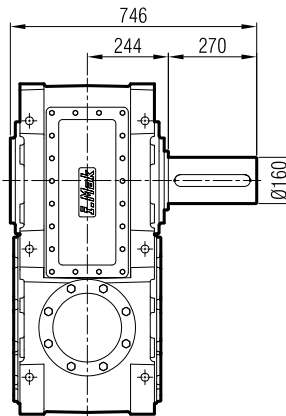
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
180/B5	955	250	300	350	M14	315	20	6	48	51.8	14	-	38
200/B5	955	300	350	400	M16	358	22	6	55	59.3	16	-	38
225/B5	998	350	400	450	M16	358	22	6	60	64.4	18	-	75
250/B5	998	450	500	550	M16	358	25	6.5	65	69.4	18	10	75
280/B5	998	450	500	550	M16	358	25	6.5	75	75.9	20	10	65
315/B5	1028	550	600	660	M24	388	30	7	85	90.4	22	65	90



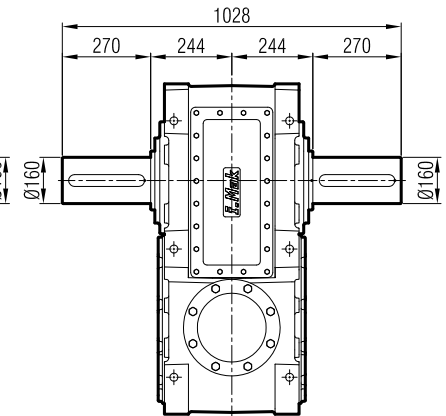
MA / MK 100_
...-SL



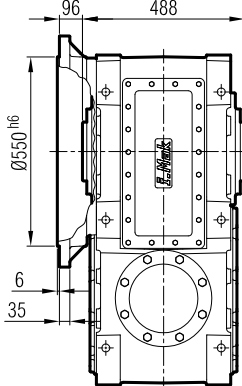
...-SR



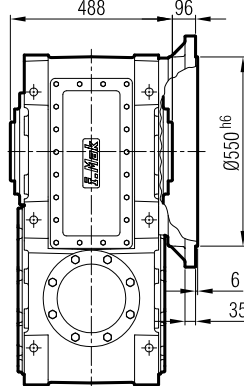
...-SD



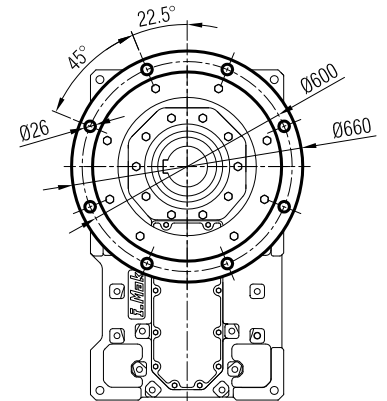
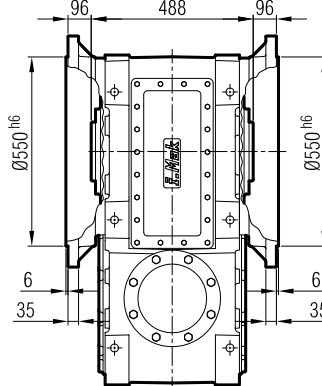
...-FL



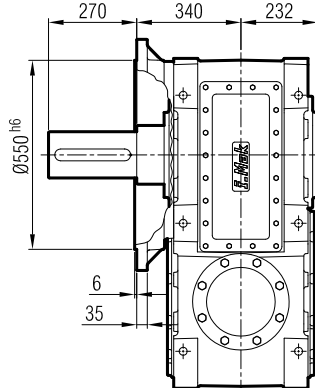
...-FR



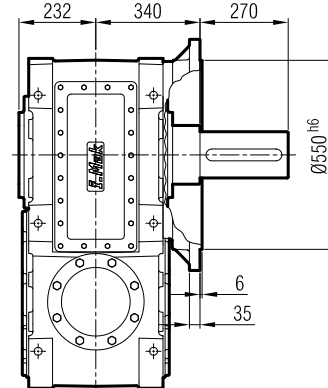
...-FD



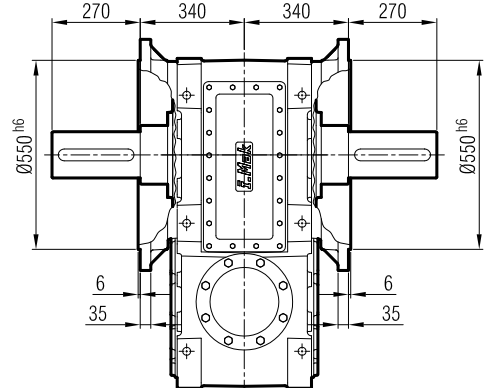
...-FL-SL



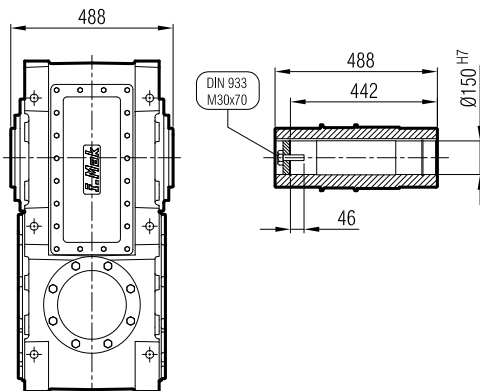
...-FR-SR



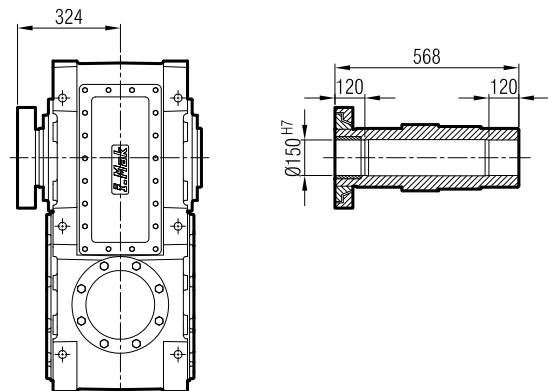
...-FD-SD



...-H

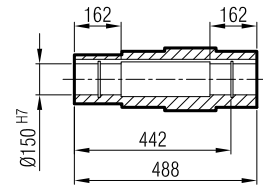
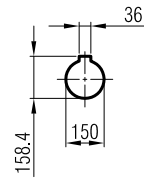
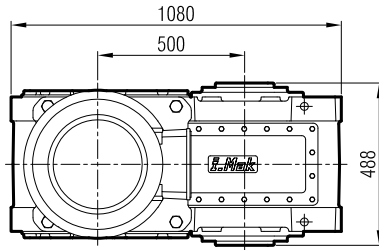
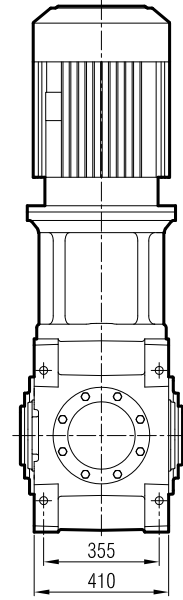
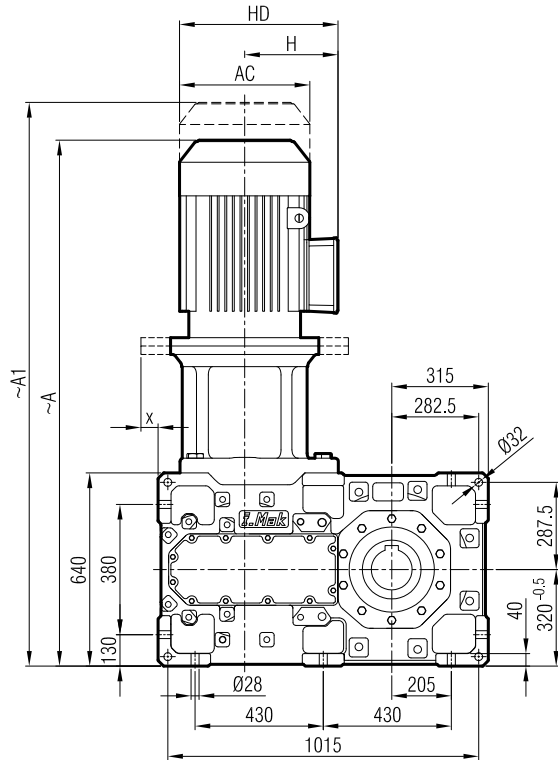


...-SDL / SDR





MKM 1003-G10



	180 L/B5	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5
A	1596	1664	1683	1743	1793	1883	1883	2064	2064
A1	1732	1811	1830	1890	1940	2131	2131	2312	2312
H	260	300	313	313	366	398	398	518	518
HD	440	500	538	538	618	678	678	833	833
AC	357	394	456	456	489	548	548	652	652
x	-	-	-	-	10	10	10	65	65

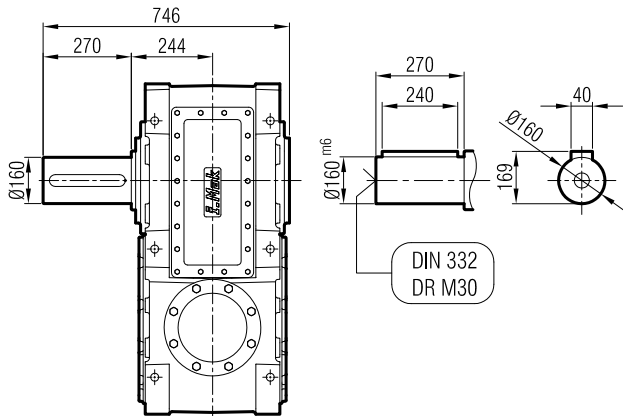
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

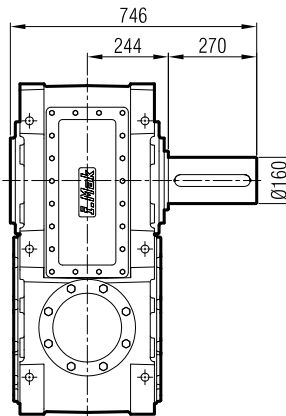
Le dimensions "A1" correspond aux moteurs équipés de freins.



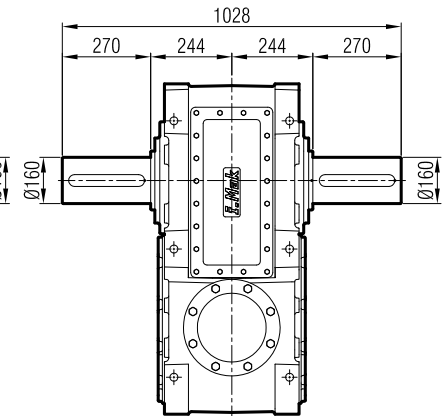
MA / MK 100_
...-SL



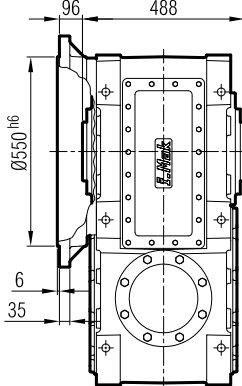
...-SR



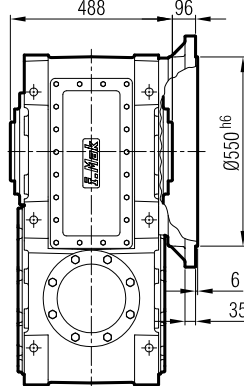
...-SD



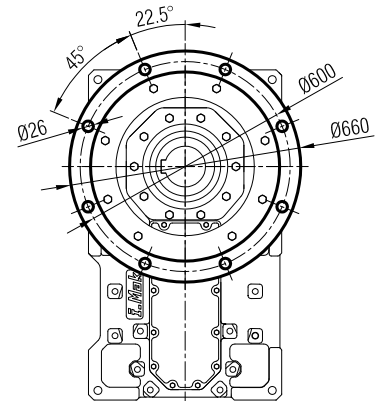
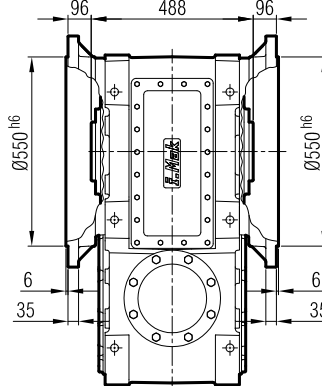
...-FL



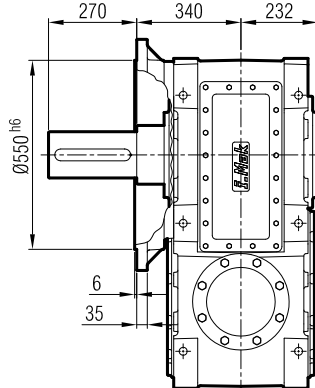
...-FR



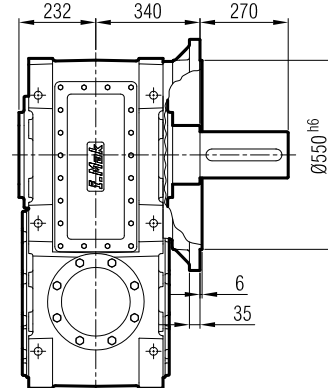
...-FD



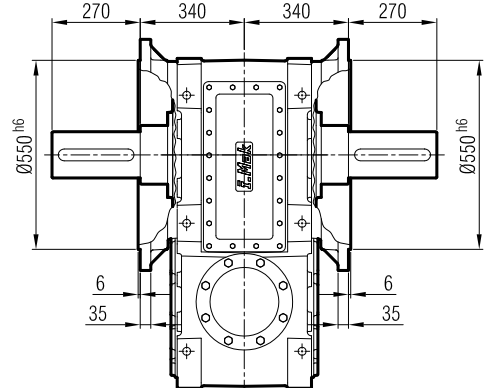
...-FL-SL



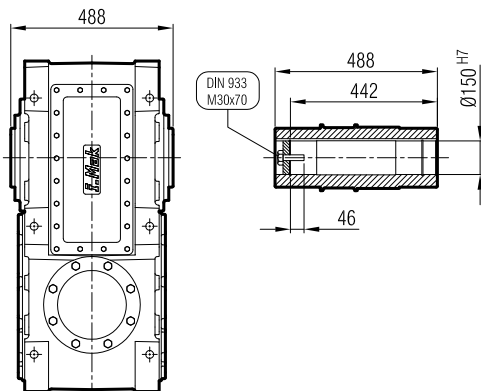
...-FR-SR



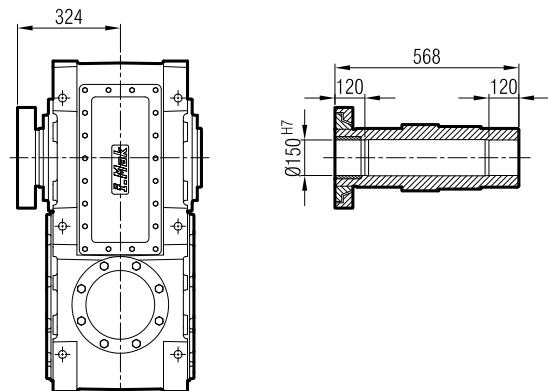
...-FD-SD



...-H

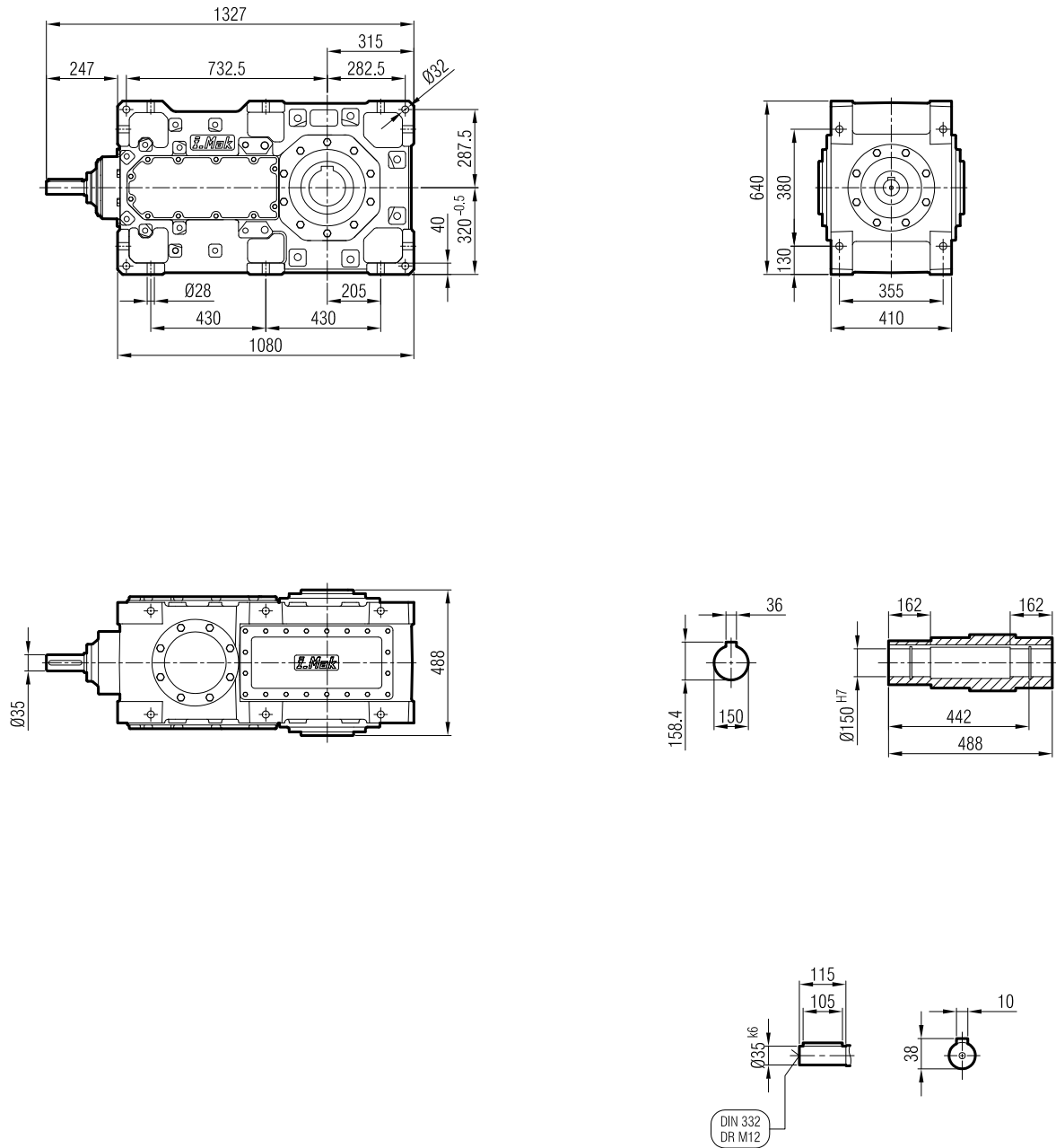


...-SDL / SDR



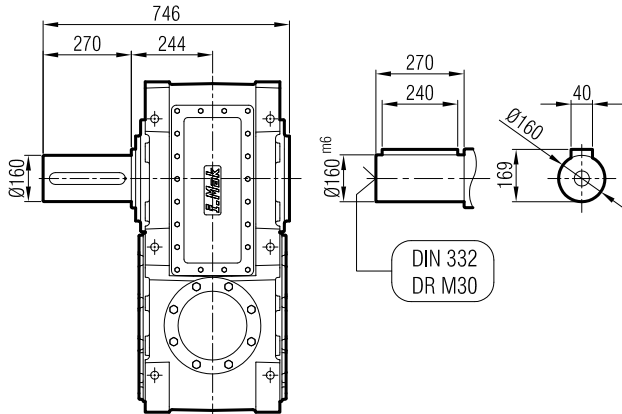


MK 1004-G07

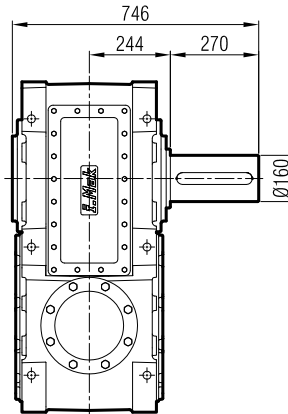




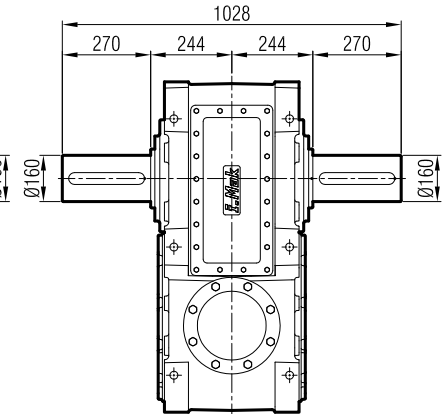
**MA / MK 100_
...-SL**



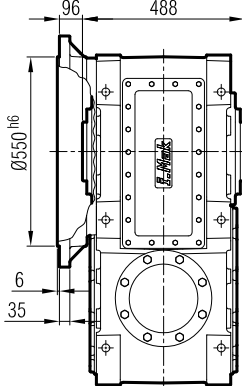
...-SR



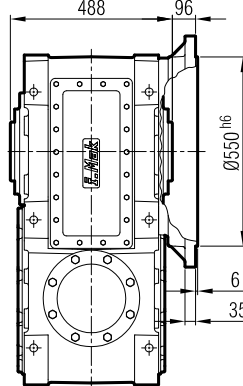
...-SD



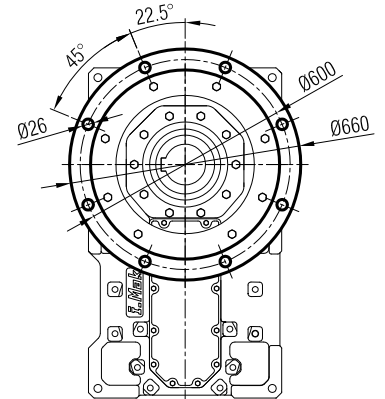
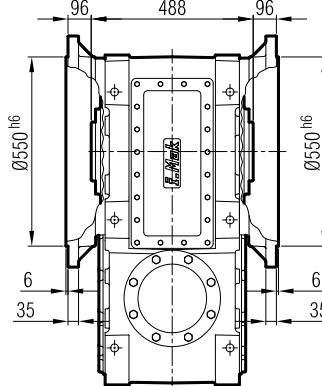
...-FL



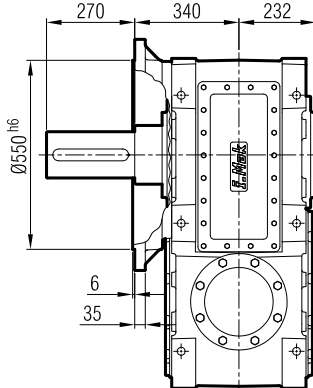
...-FR



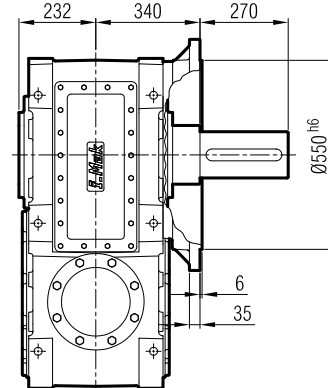
...-FD



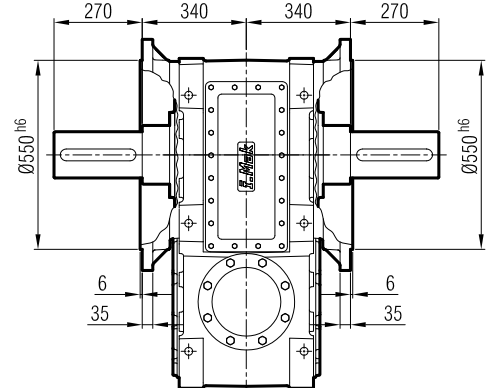
...-FL-SL



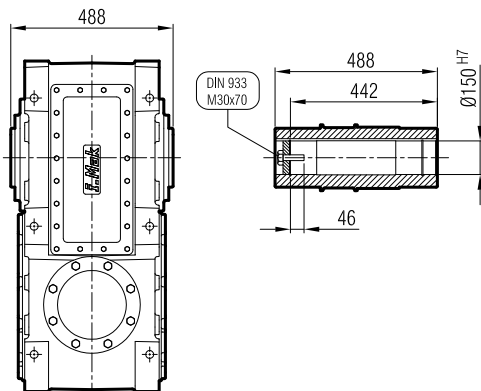
...-FR-SR



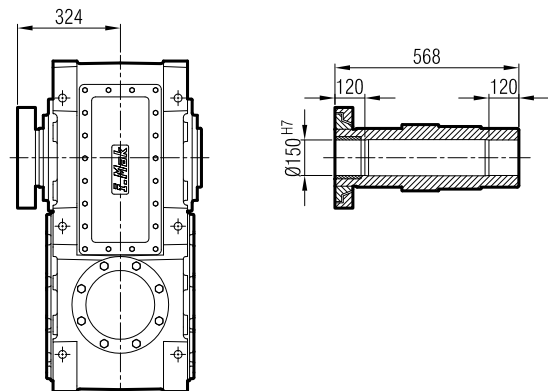
...-FD-SD



...-H

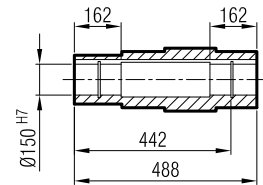
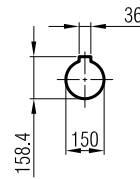
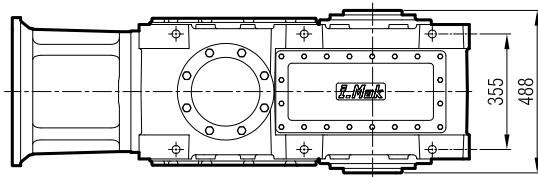
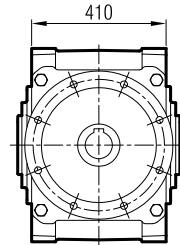
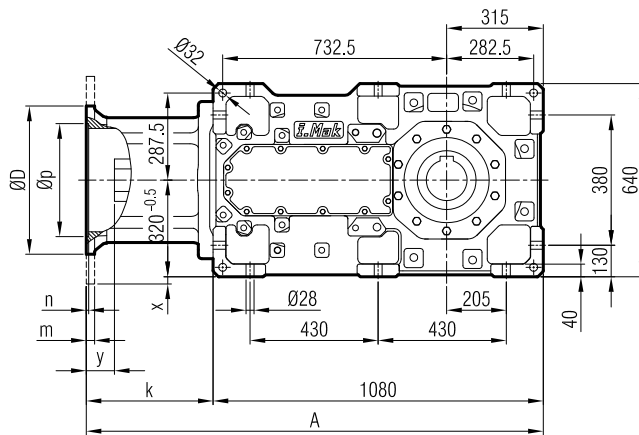


...-SDL / SDR



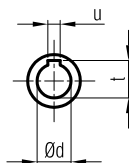
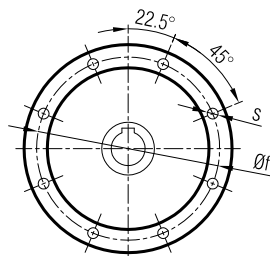
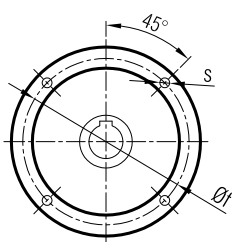


MKP 1004-G09



≤ 200 B5 **Tip/Type/Typ**

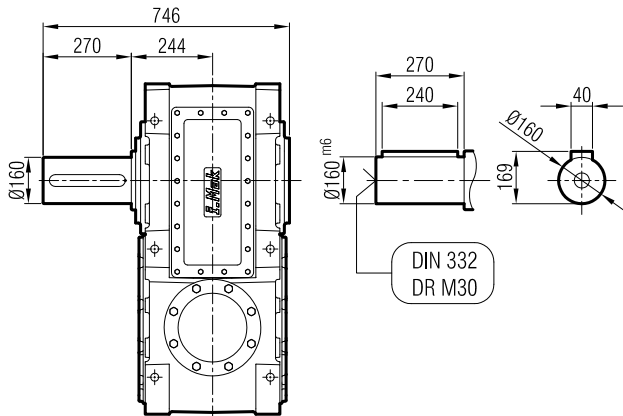
≥ 225 B5 **Tip/Type/Typ**



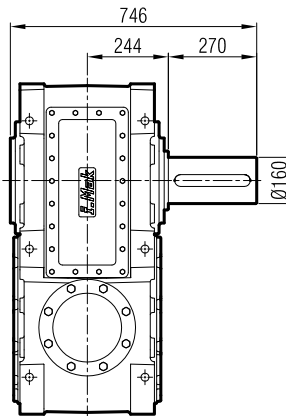
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
112/B5	1398	180	215	250	M12	325	15	5	28	31.3	8	-	23
132/B5	1418	230	265	300	M12	345	18	6	38	41.3	10	-	28
160/B5	1450	250	300	350	M14	370	20	6	42	45.3	12	-	60
180/B5	1450	250	300	350	M14	370	20	6	48	51.8	14	-	60
200/B5	1450	300	350	400	M16	370	22	6	55	59.3	16	-	60
225/B5	1493	350	400	450	M16	413	22	6	60	64.4	18	-	80



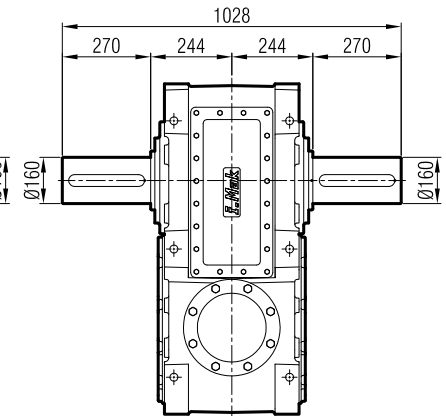
MA / MK 100_
...-SL



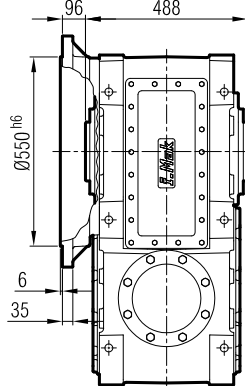
...-SR



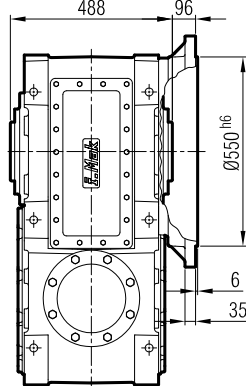
...-SD



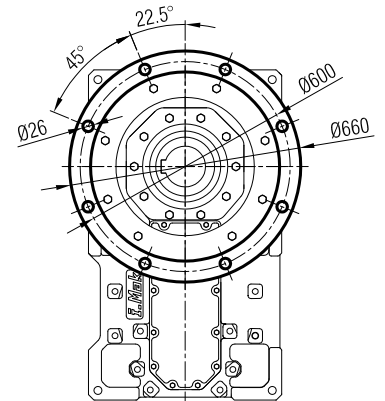
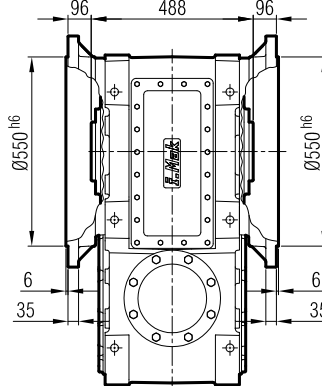
...-FL



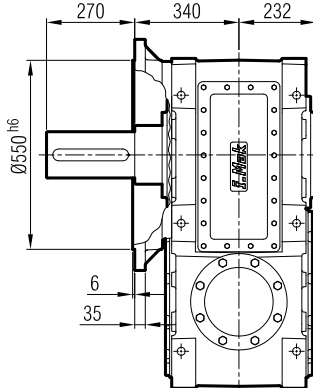
...-FR



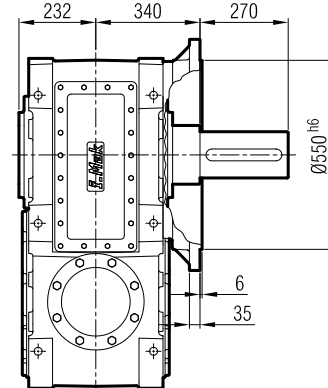
...-FD



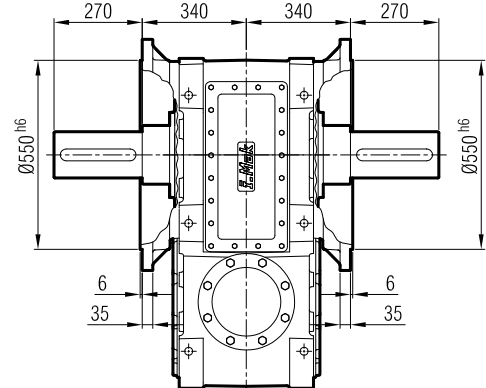
...-FL-SL



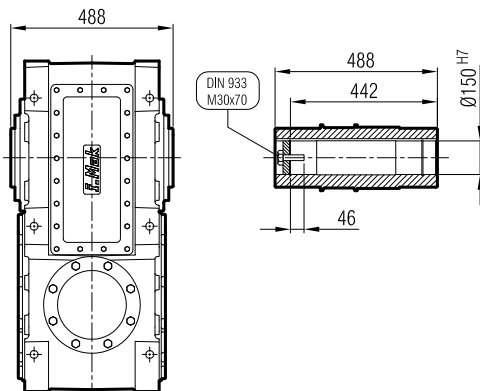
...-FR-SR



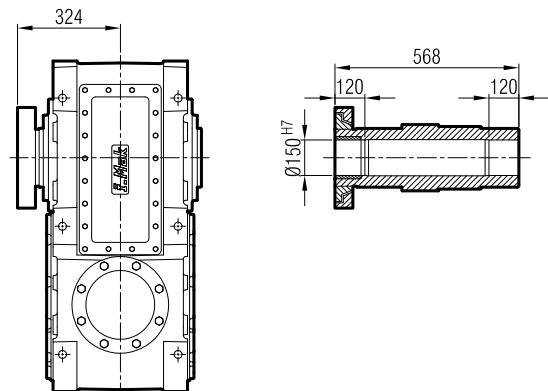
...-FD-SD



...-H

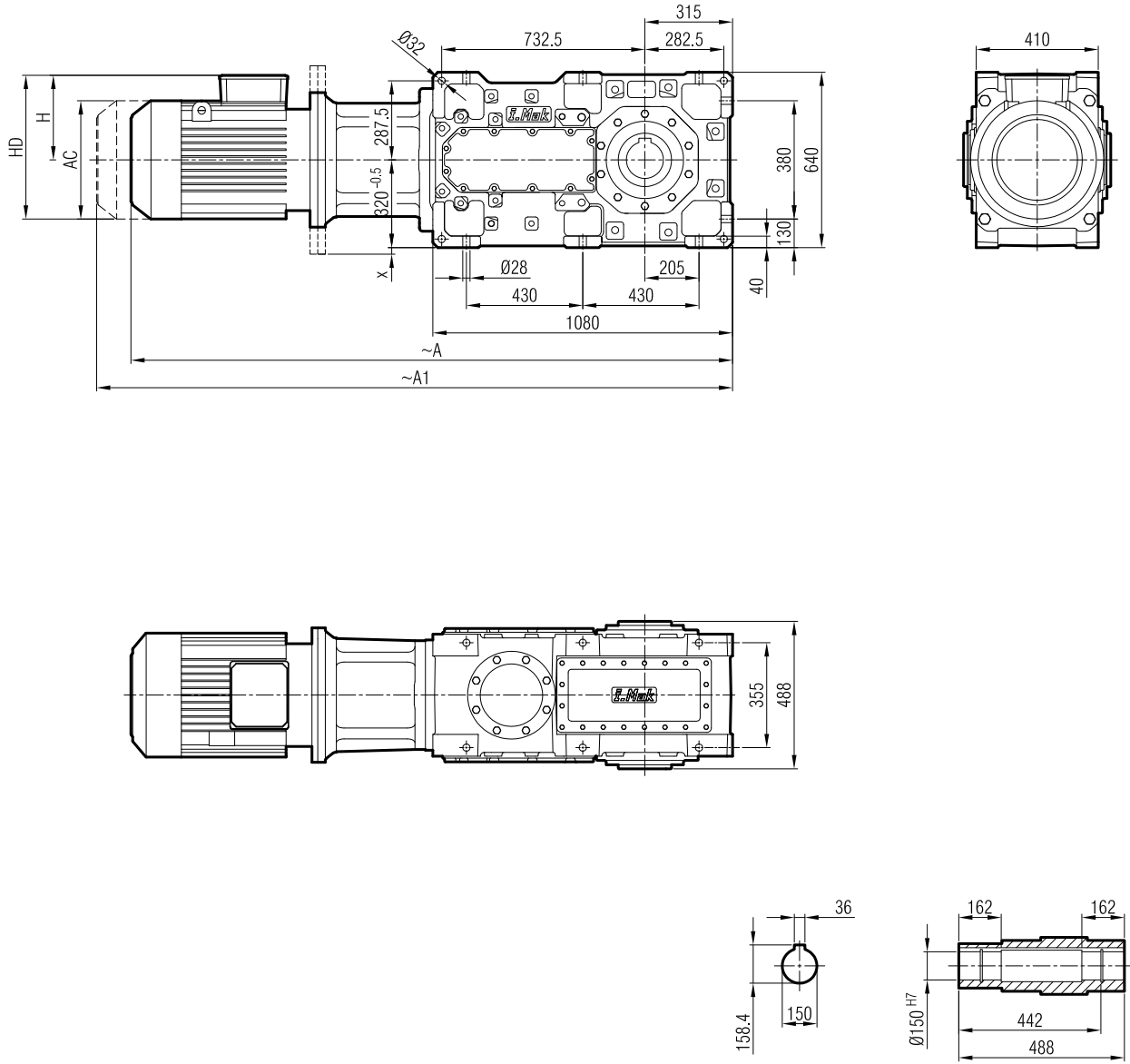


...-SDL / SDR





MKM 1004-G09



	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	1742	1819	1860	1970	2015	2091	2091	2159	2178	2238
A1	1837	1323	1964	2087	2132	2227	2227	2306	2325	2385
H	170	193	193	240	240	260	260	300	313	313
HD	282	325	325	400	400	440	440	500	538	538
AC	220	262	262	315	315	357	357	394	456	456
x	-	-	-	-	-	-	-	-	-	-

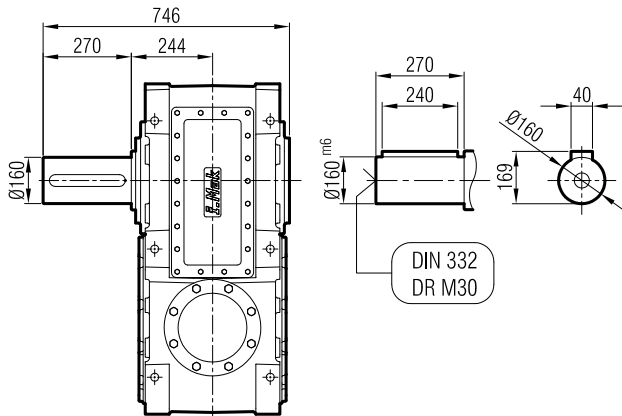
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

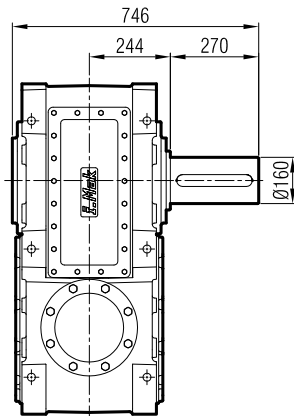
Le dimensions "A1" correspond aux moteurs équipés de freins.



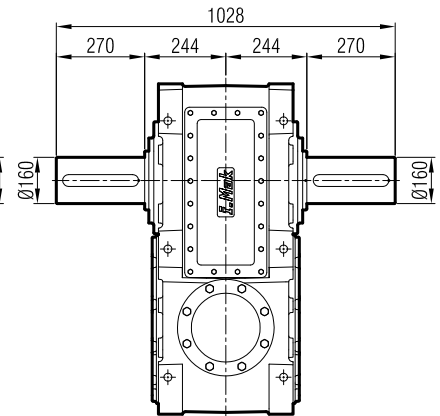
MA / MK 100_
...-SL



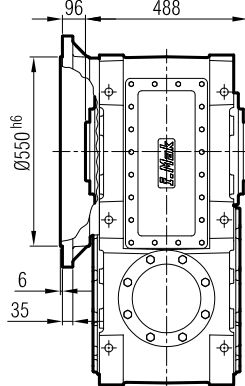
...-SR



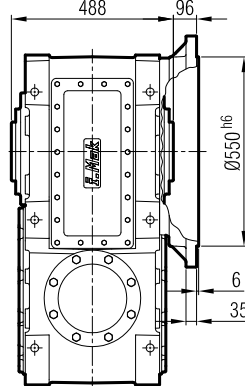
...-SD



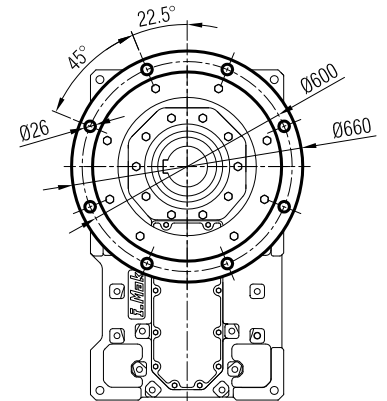
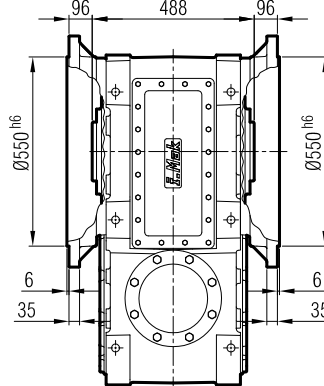
...-FL



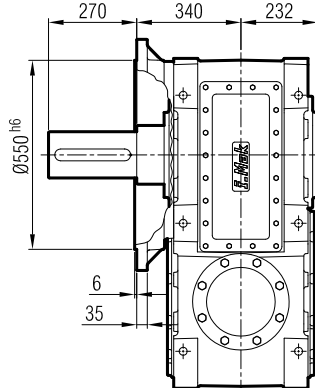
...-FR



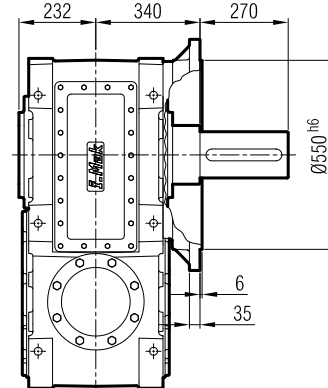
...-FD



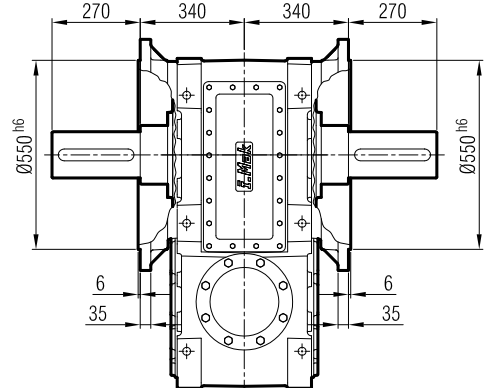
...-FL-SL



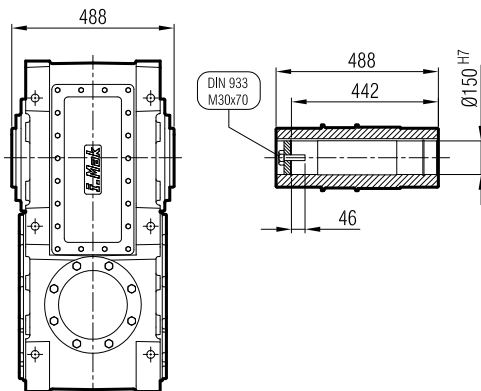
...-FR-SR



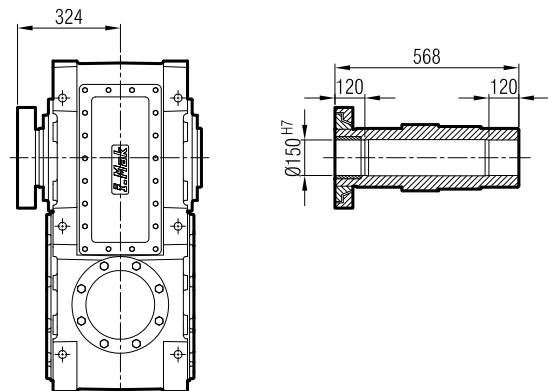
...-FD-SD

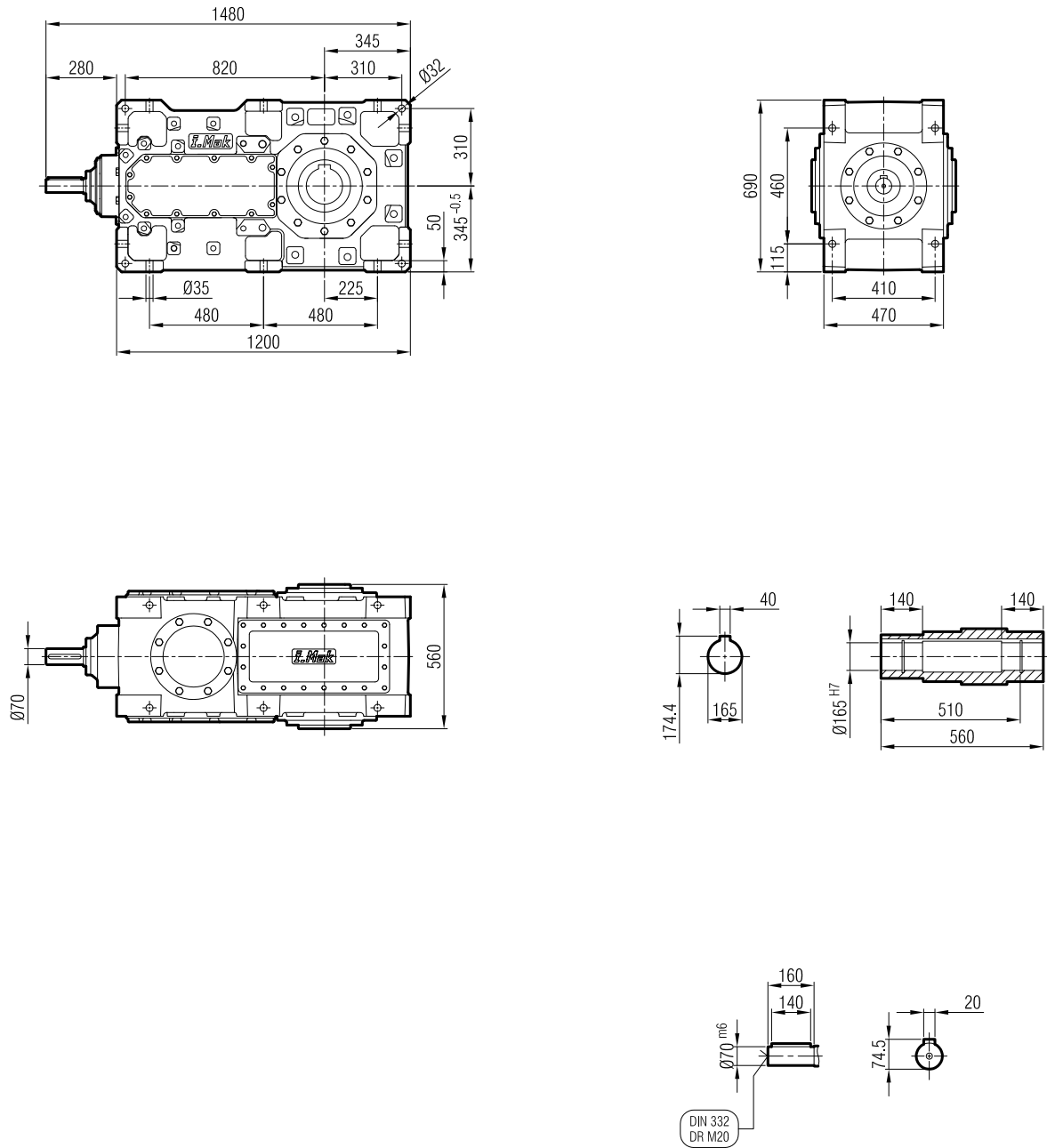


...-H



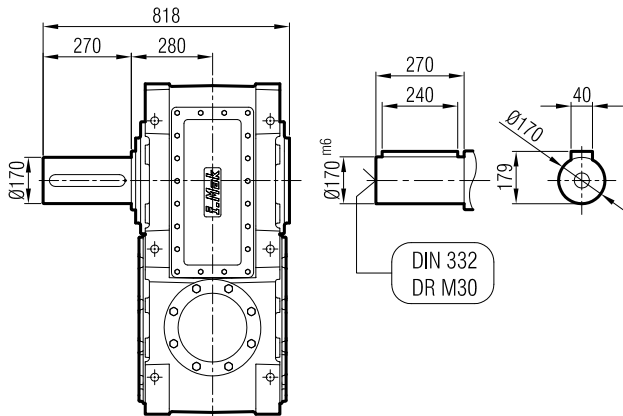
...-SDL / SDR



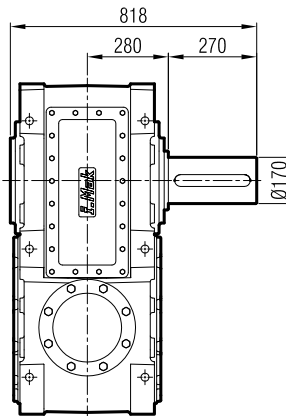
**MK 1103-G07**



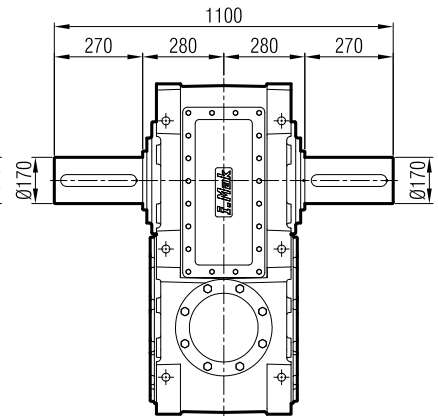
MA / MK 110_
...-SL



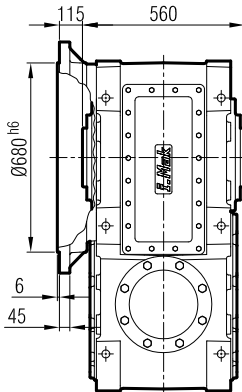
...-SR



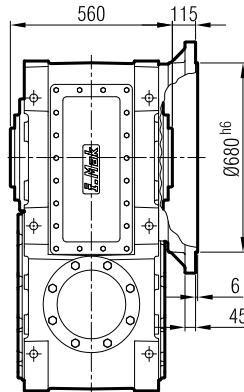
...-SD



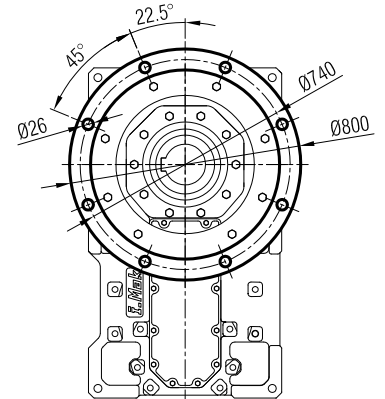
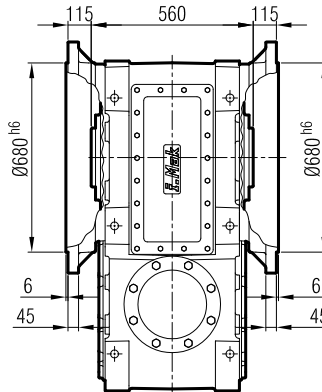
...-FL



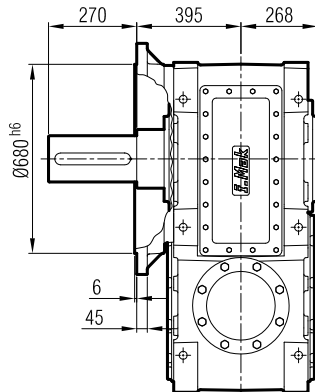
...-FR



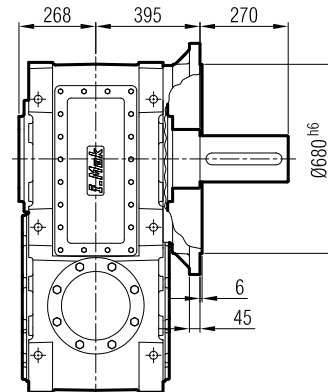
...-FD



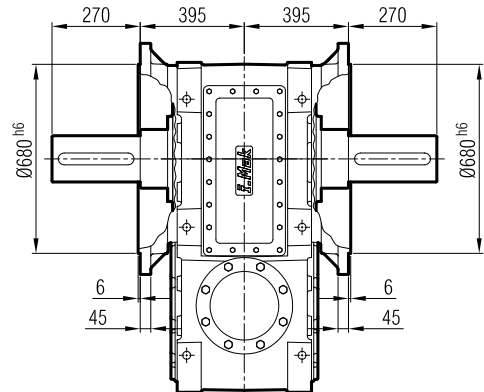
...-FL-SL



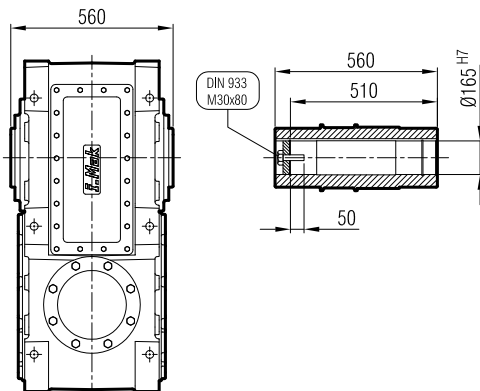
...-FR-SR



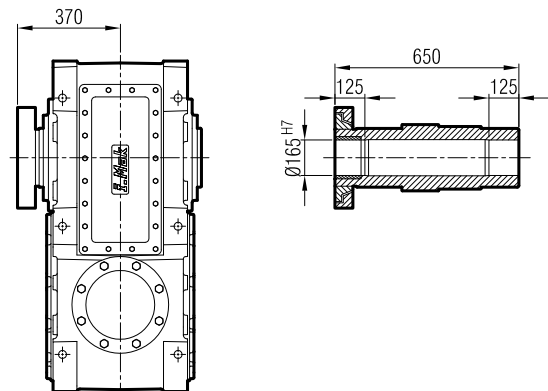
...-FD-SD



...-H

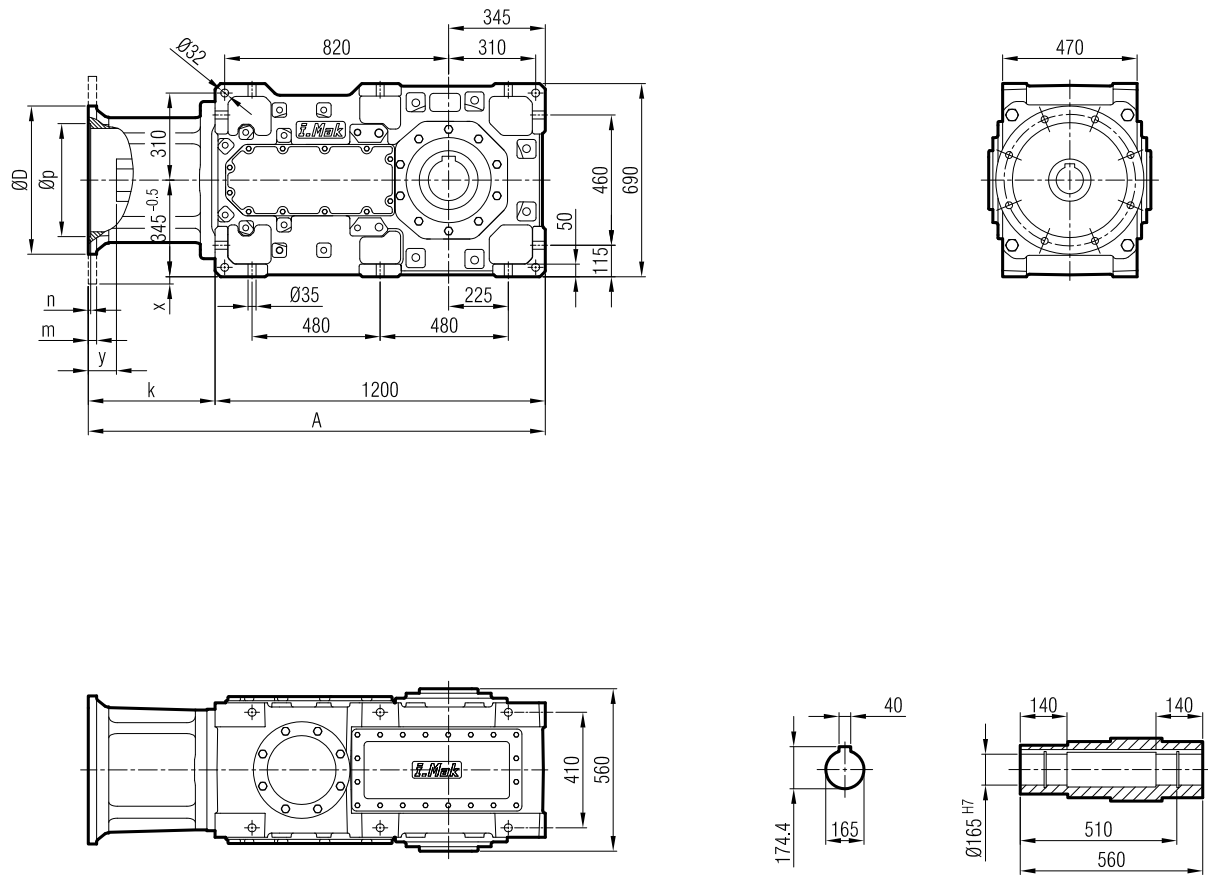


...-SDL / SDR

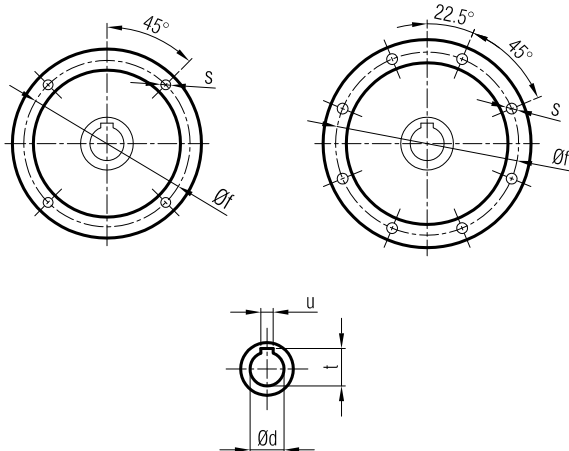




MKP 1103-G09

 ≤ 200 B5 **Tip**/Type/*Typ*

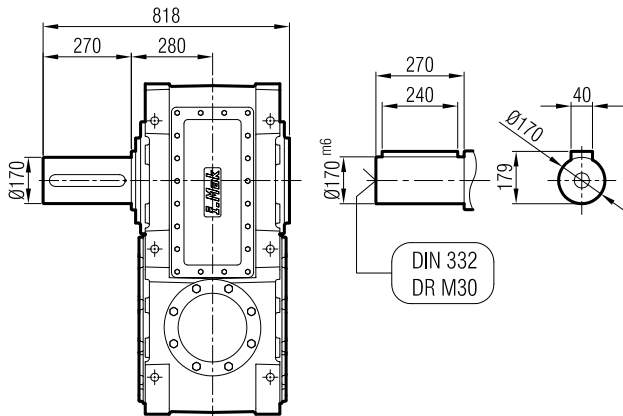
≥ 225 B5 **Tip**/Type/*Typ*



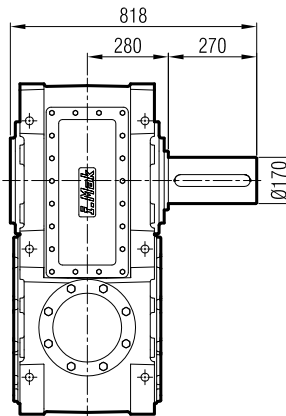
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
200/B5	1597	300	350	400	M16	397	22	6	55	59.3	16	-	14
225/B5	1640	350	400	450	M16	440	22	6	60	64.4	18	-	57
250/B5	1640	450	500	550	M16	440	25	6.5	65	69.4	18	-	52
280/B5	1640	450	500	550	M16	440	25	6.5	75	75.9	20	-	45
315/B5	1670	550	600	660	M24	470	30	7	85	90.4	22	-	75



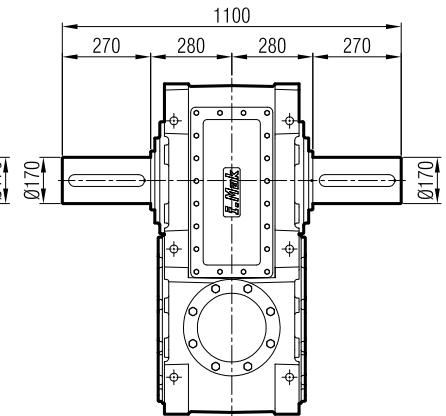
MA / MK 110_
...-SL



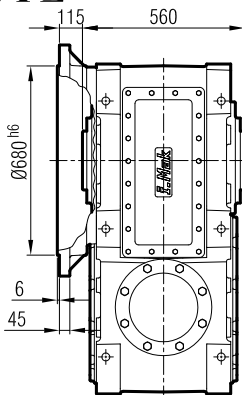
...-SR



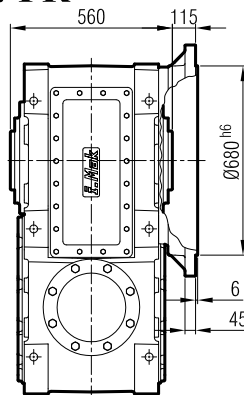
...-SD



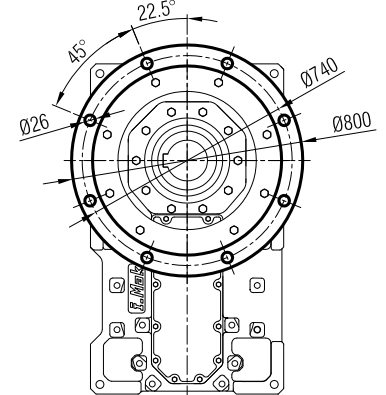
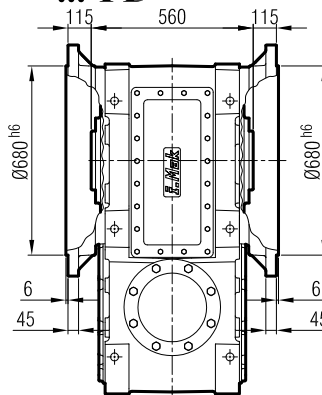
...-FL



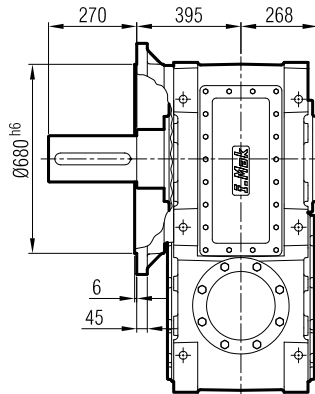
...-FR



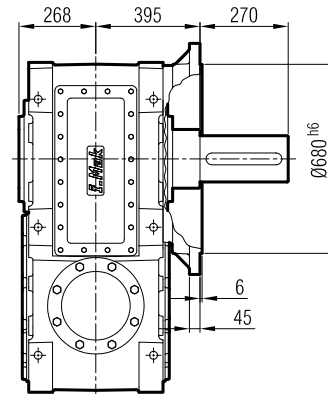
...-FD



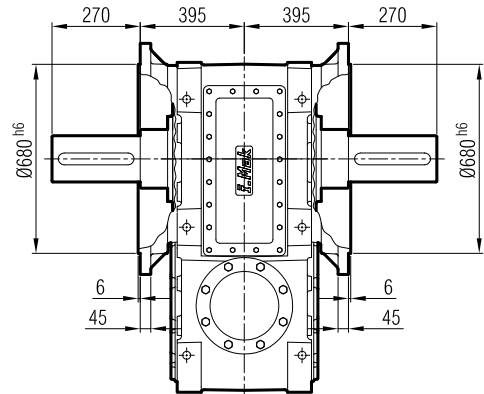
...-FL-SL



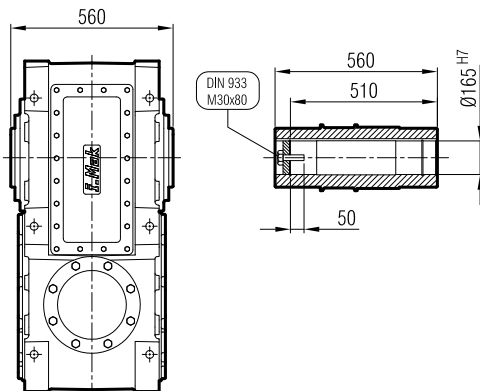
...-FR-SR



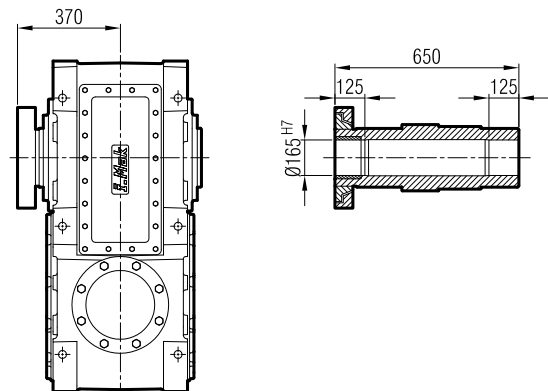
...-FD-SD

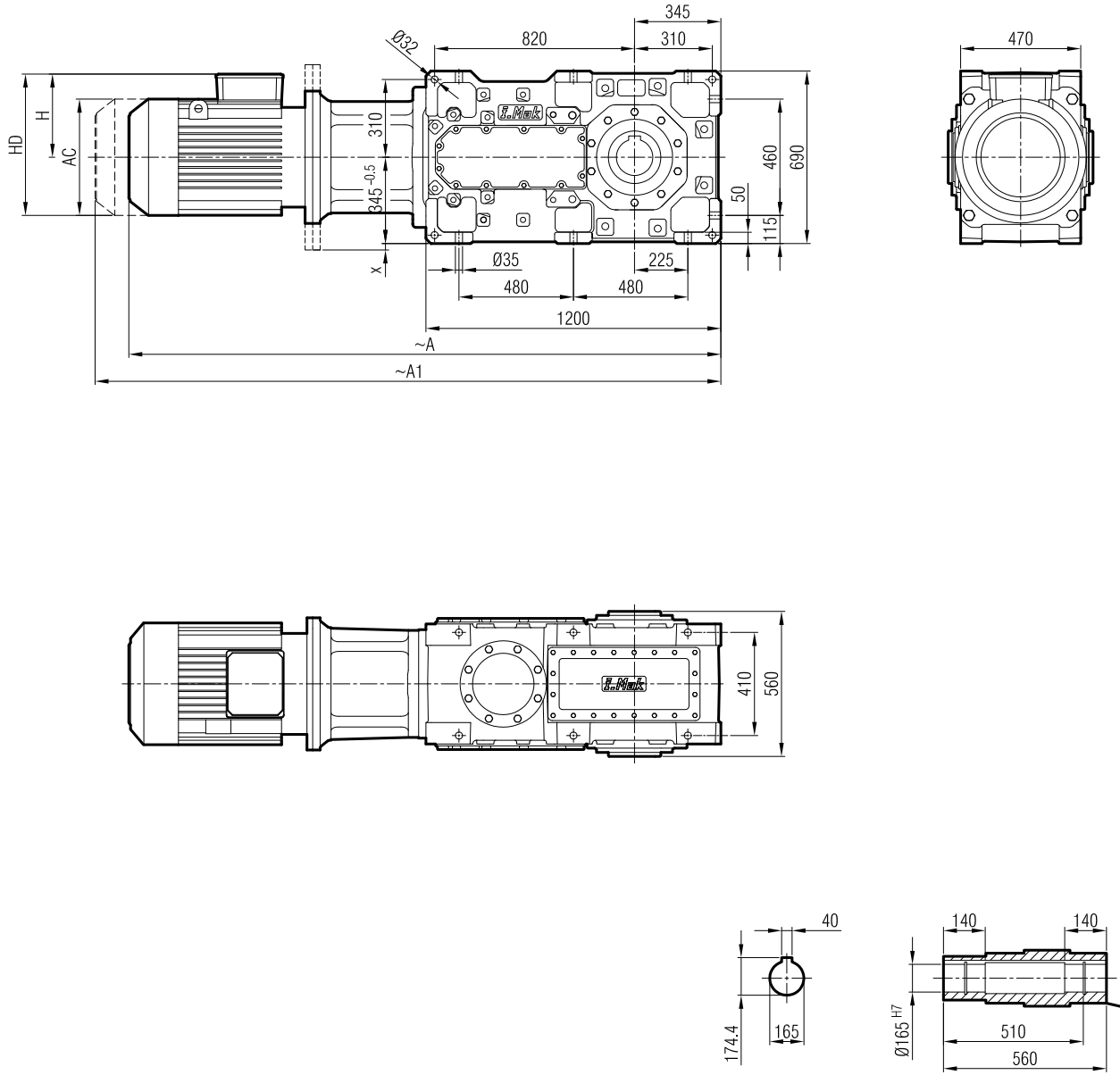


...-H



...-SDL / SDR




MKM 1103-G09


	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5	315 M/B5	315 L/B5	315 H/B5
A	2306	2325	2385	2435	2525	2525	2706	2706	2817	2817	2817
A1	2453	2472	2532	2582	2773	2773	2954	2954	3075	3075	3075
H	300	313	313	366	398	398	518	518	518	518	518
HD	500	538	538	616	678	678	833	833	833	833	833
AC	394	456	456	489	547.5	547.5	652	652	652	652	652
x	-	-	-	-	-	-	-	-	-	-	-

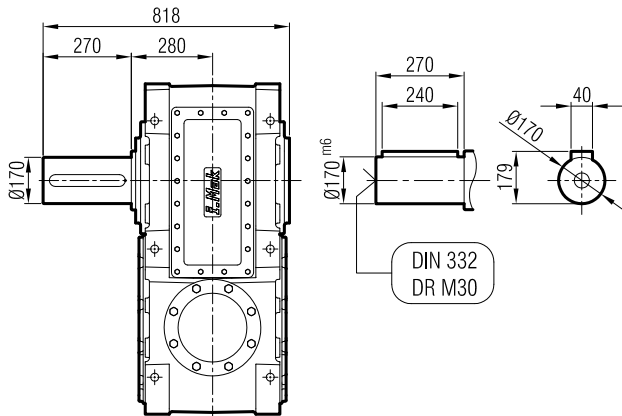
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

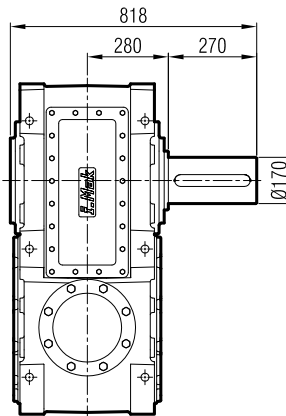
Le dimensions "A1" correspond aux moteurs équipés de freins.



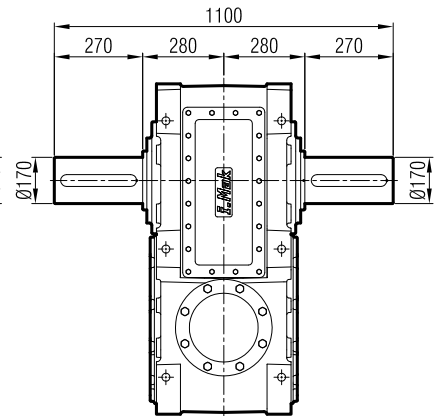
MA / MK 110_
...-SL



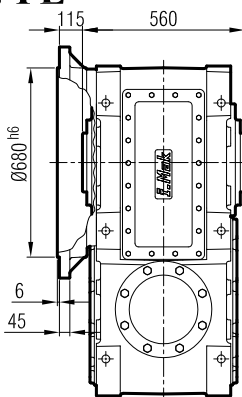
...-SR



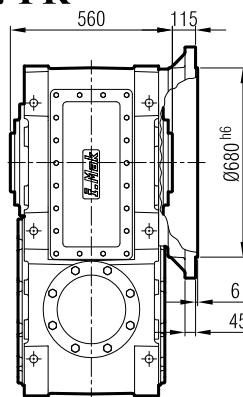
...-SD



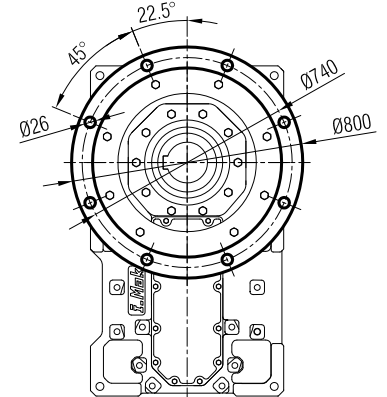
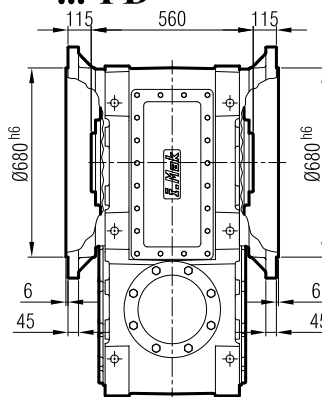
...-FL



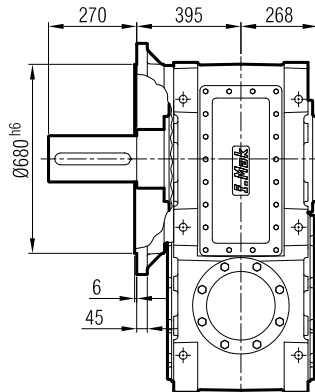
...-FR



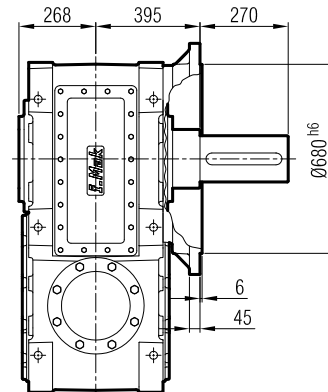
...-FD



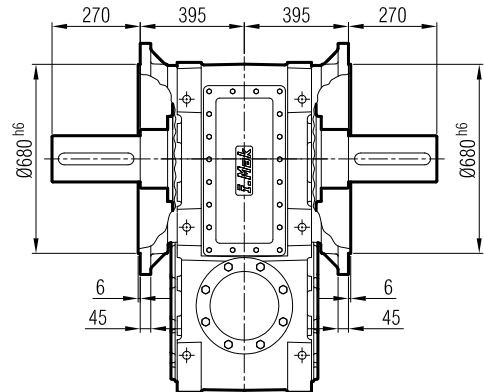
...-FL-SL



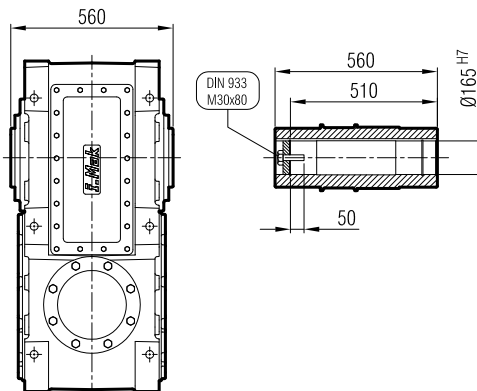
...-FR-SR



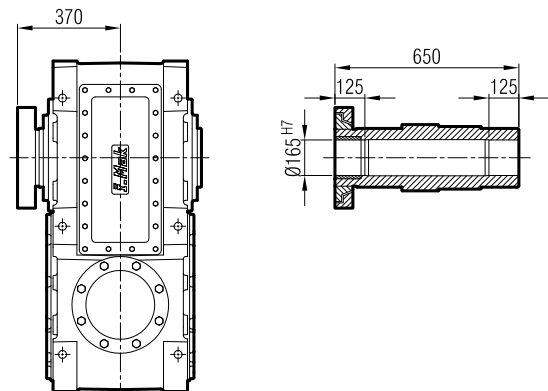
...-FD-SD



...-H

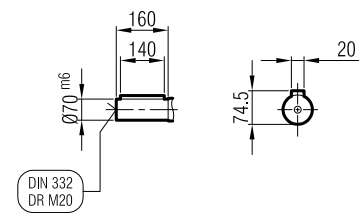
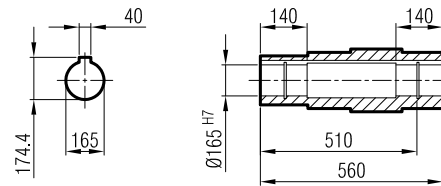
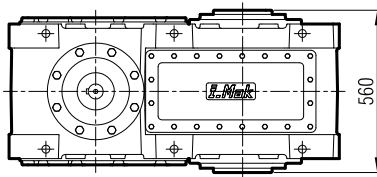
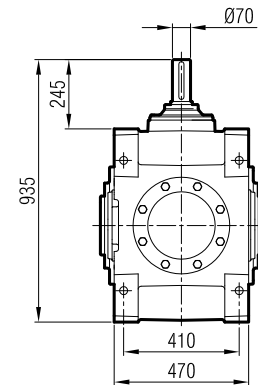
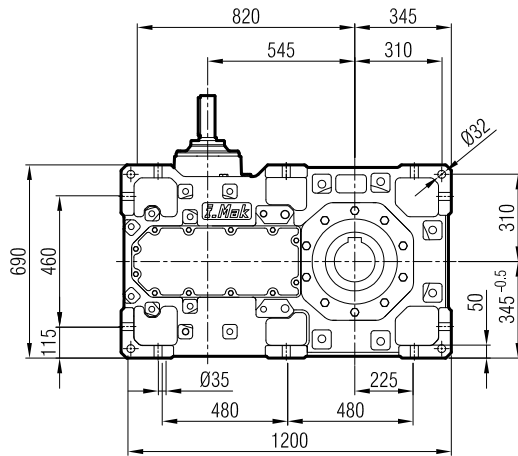


...-SDL / SDR



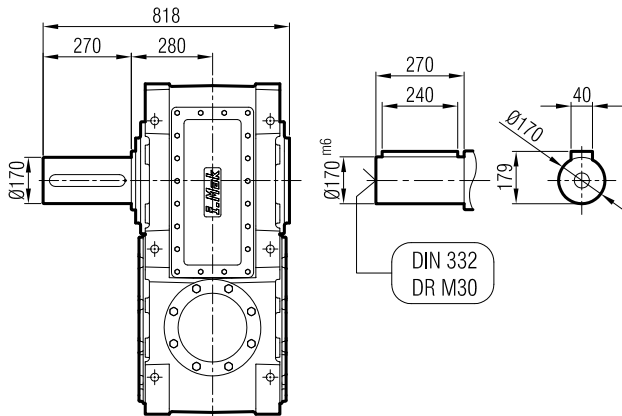


MK 1103-G08

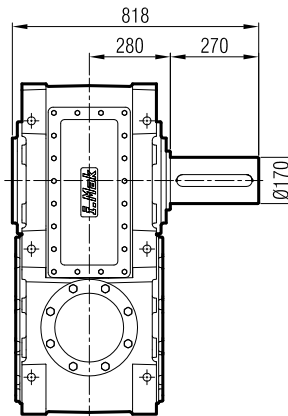




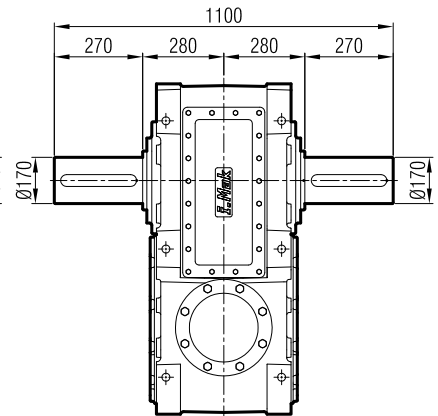
**MA / MK 110_
...-SL**



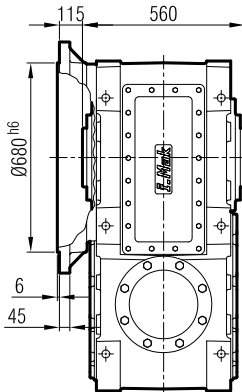
...-SR



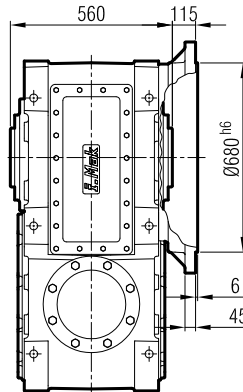
...-SD



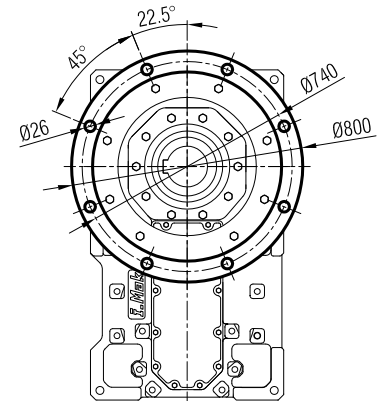
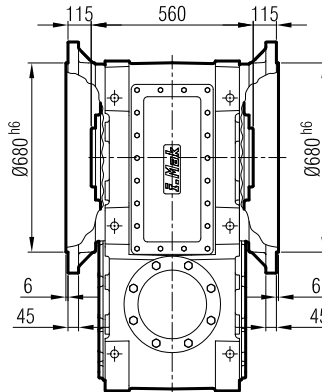
...-FL



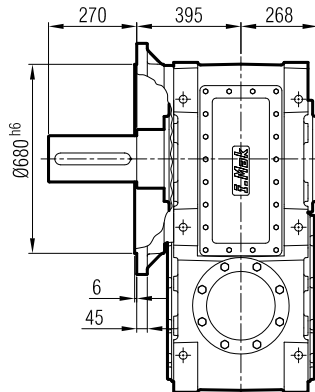
...-FR



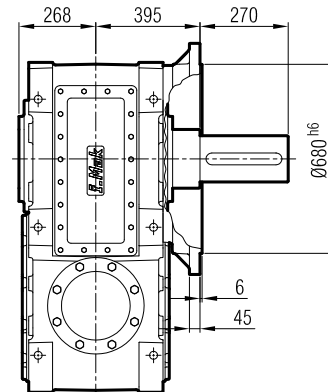
...-FD



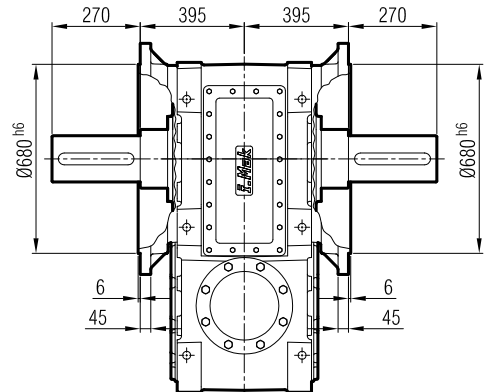
...-FL-SL



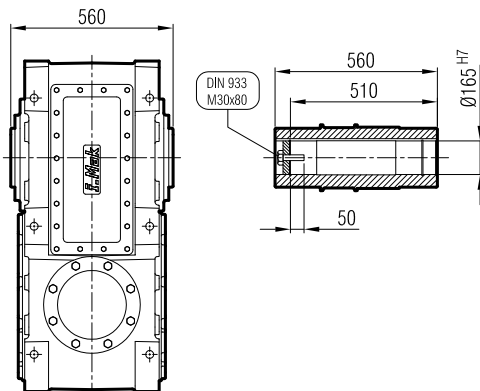
...-FR-SR



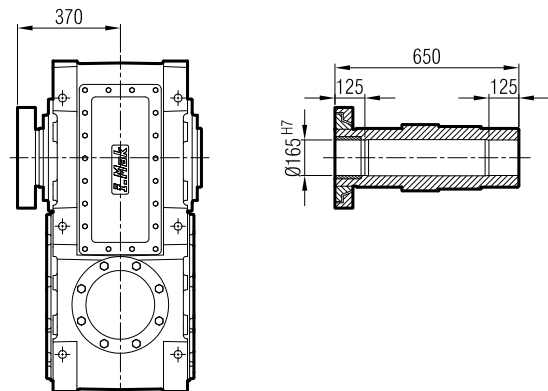
...-FD-SD



...-H

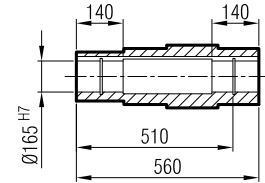
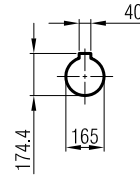
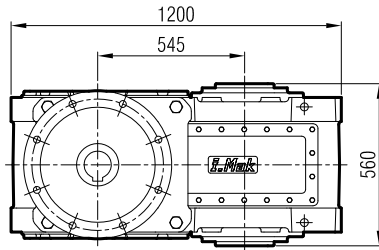
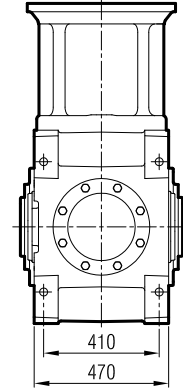
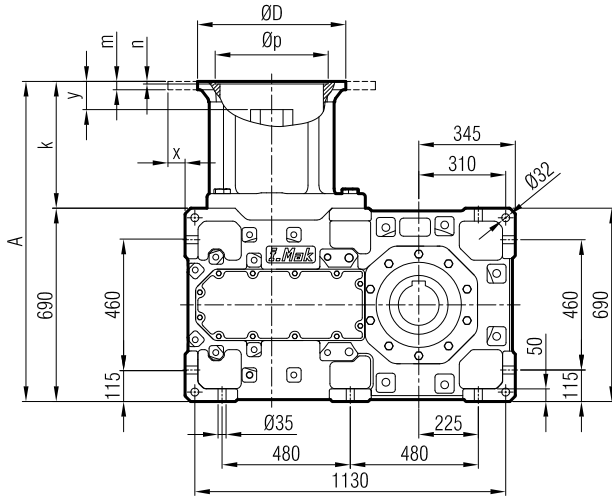


...-SDL / SDR



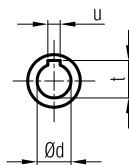
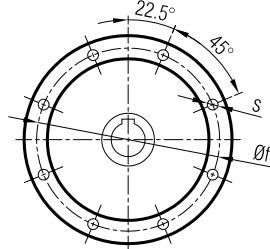
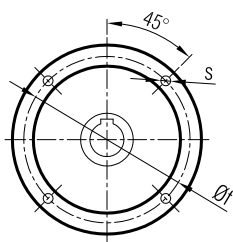


MKP 1103-G10



≤ 200 B5 **Tip/Type/Typ**

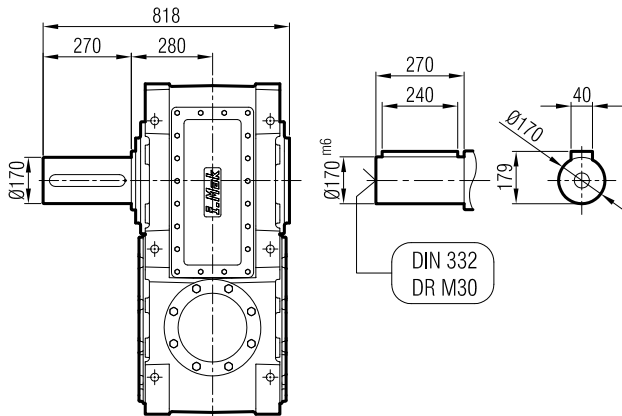
≥ 225 B5 **Tip/Type/Typ**



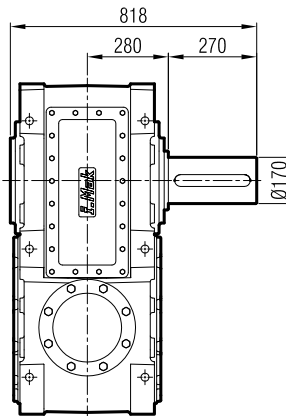
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
200/B5	1052	300	350	400	M16	362	22	6	55	59.3	16	-	14
225/B5	1095	350	400	450	M16	405	22	6	60	64.4	18	-	57
250/B5	1095	450	500	550	M16	405	25	6.5	65	69.4	18	-	52
280/B5	1095	450	500	550	M16	405	25	6.5	75	75.9	20	-	45
315/B5	1125	550	600	660	M24	435	30	7	85	90.4	22	20	75



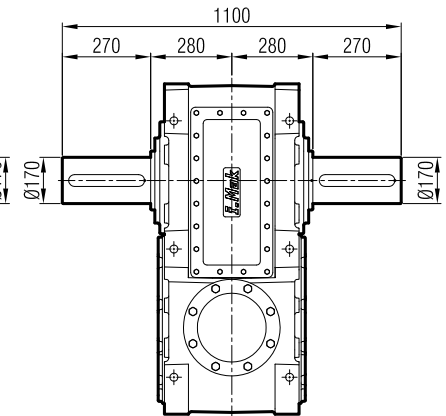
MA / MK 110_
...-SL



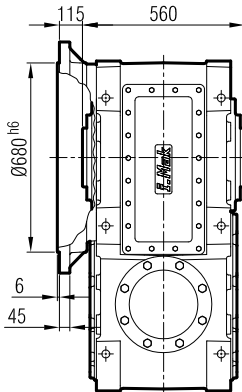
...-SR



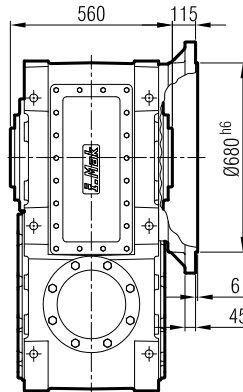
...-SD



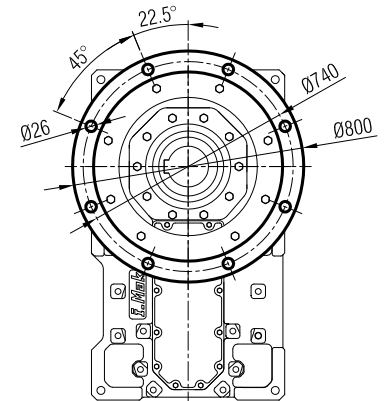
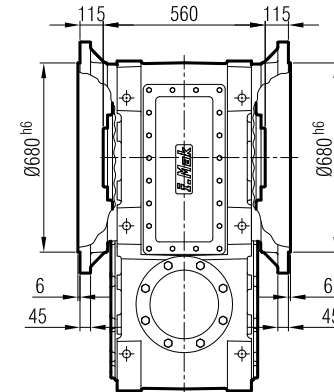
...-FL



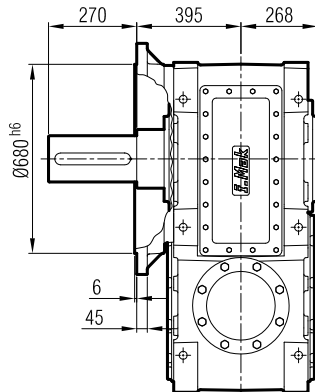
...-FR



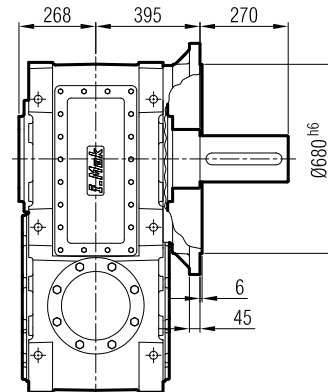
...-FD



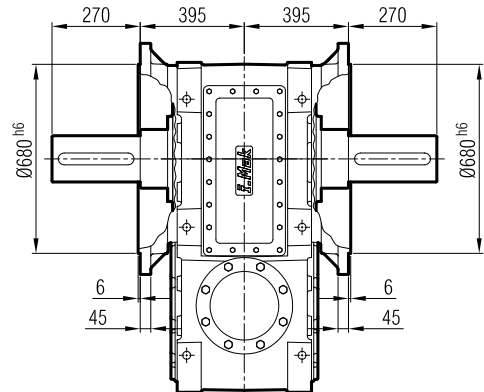
...-FL-SL



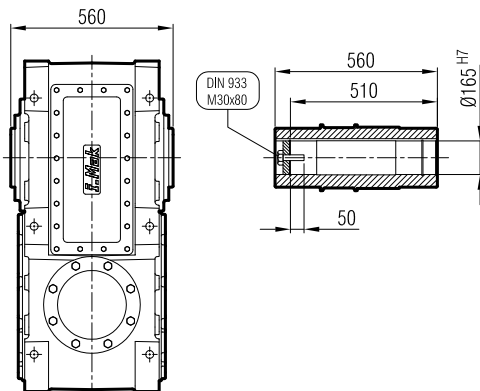
...-FR-SR



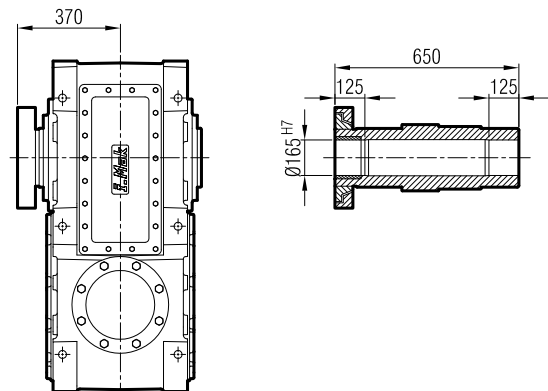
...-FD-SD



...-H

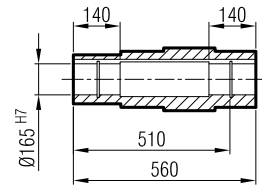
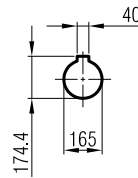
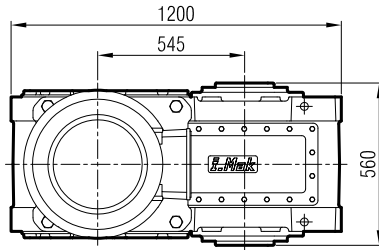
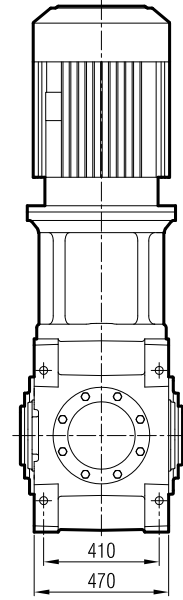
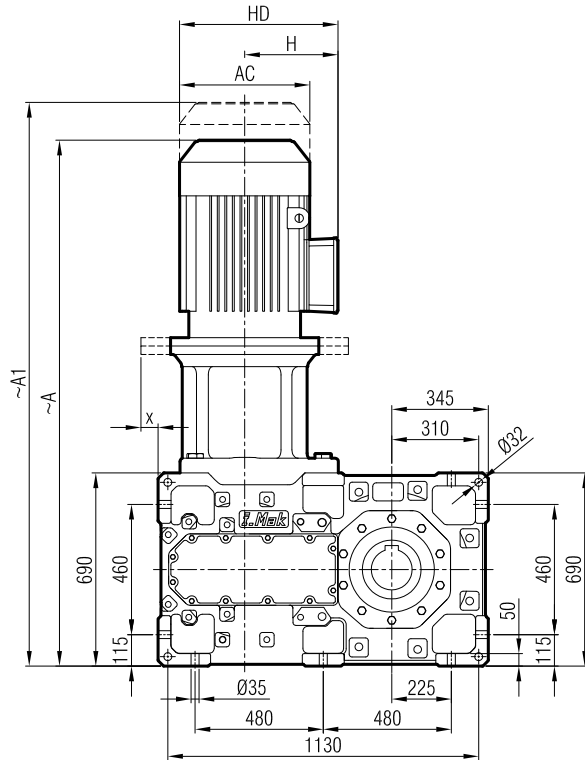


...-SDL / SDR





MKM 1103-G10



	200 L/B5	225 S/B5	225 M/B5	250 M/B5	280 S/B5	280 M/B5	315 S/B5	315 M/B5	315 M/B5	315 L/B5	315 H/B5
A	1761	1780	1840	1890	1980	1980	2161	2161	2272	2272	2272
A1	1908	1927	1987	2037	2228	2228	2409	2409	2530	2530	2530
H	300	313	313	366	398	398	518	518	518	518	518
HD	500	538	538	616	678	678	833	833	833	833	833
AC	394	456	456	489	547.5	547.5	652	652	652	652	652
x	-	-	-	-	-	-	20	20	20	20	20

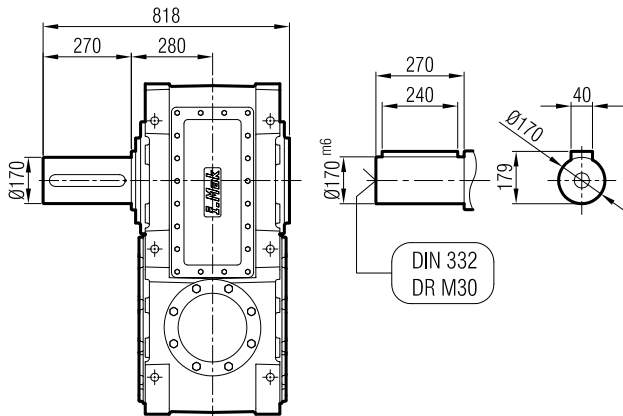
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

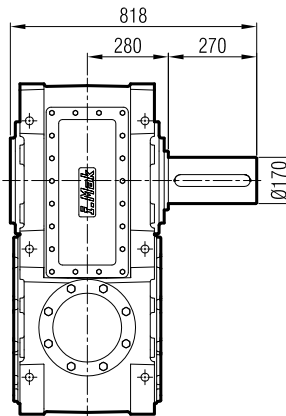
Le dimensions "A1" correspond aux moteurs équipés de freins.



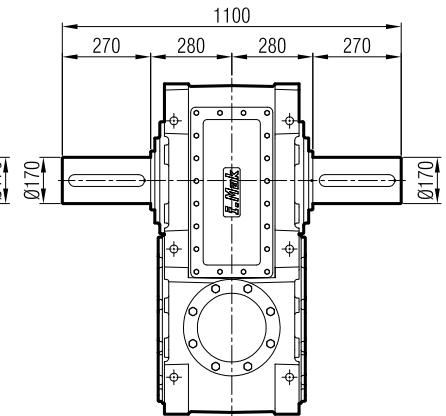
MA / MK 110_
...-SL



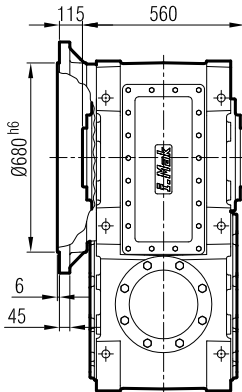
...-SR



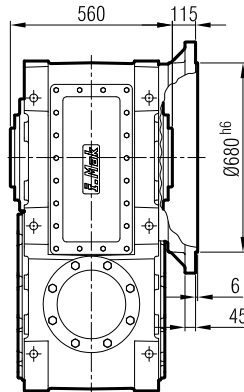
...-SD



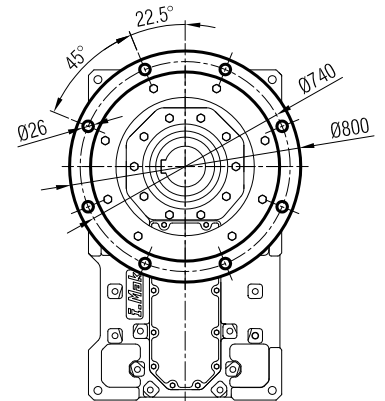
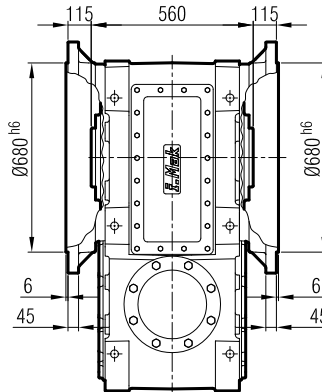
...-FL



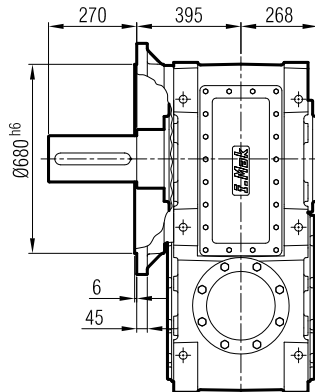
...-FR



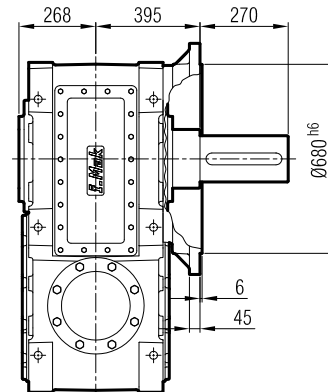
...-FD



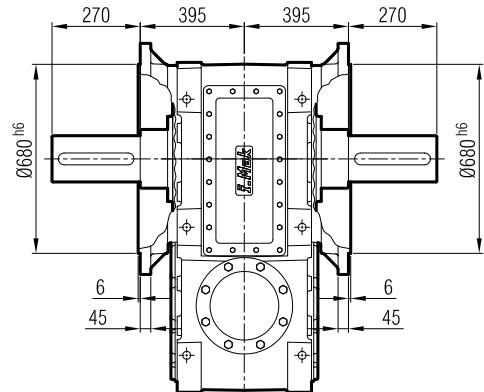
...-FL-SL



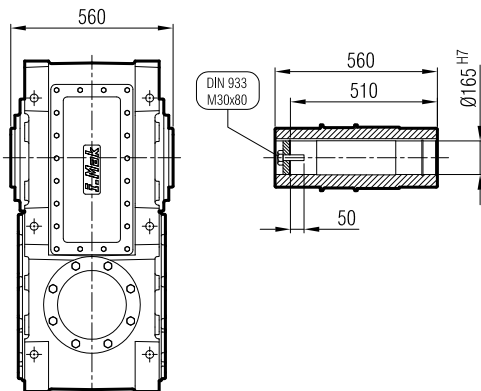
...-FR-SR



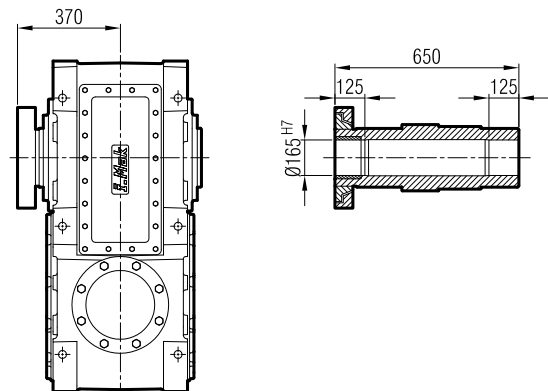
...-FD-SD

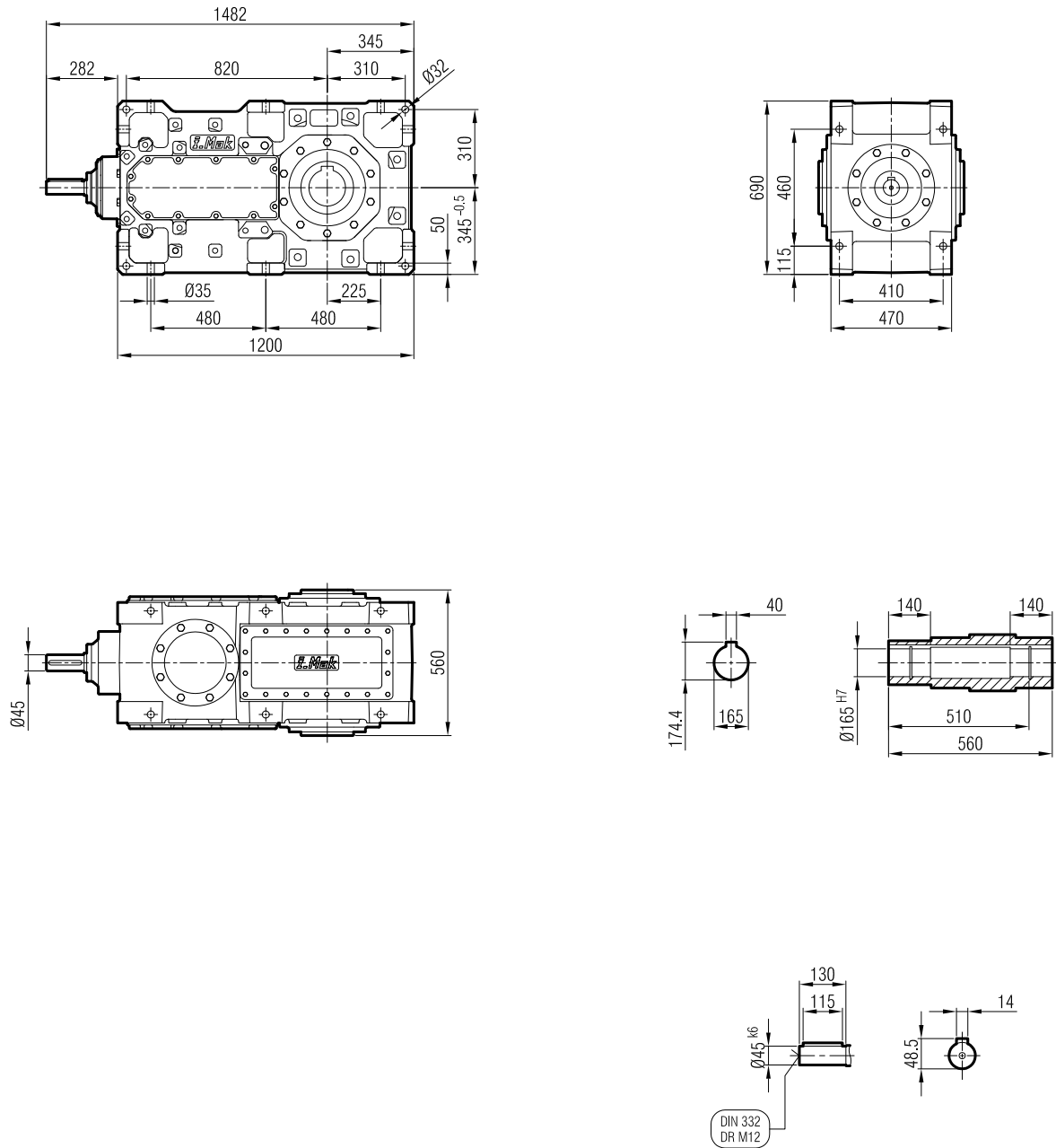


...-H



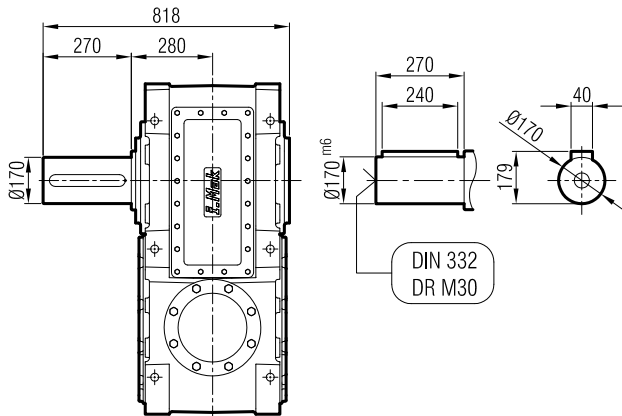
...-SDL / SDR



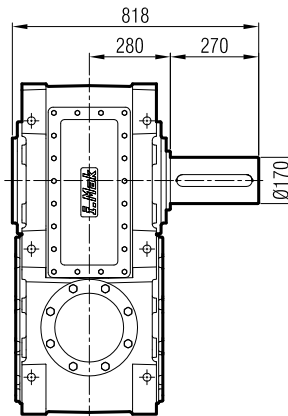
**MK 1104-G07**



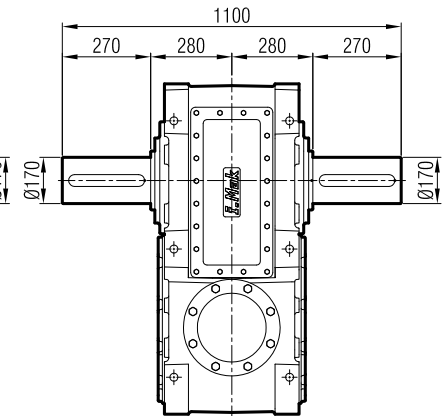
MA / MK 110_
...-SL



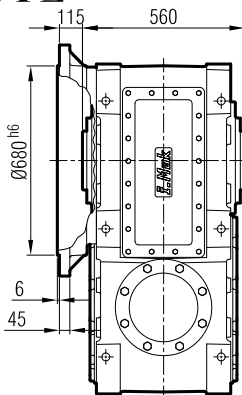
...-SR



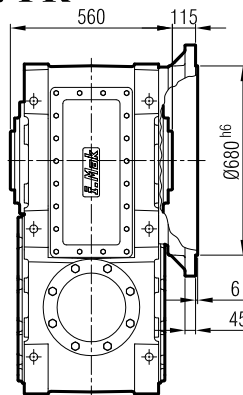
...-SD



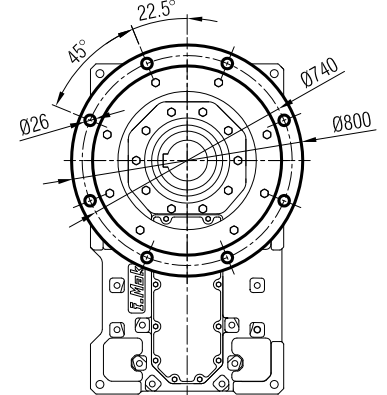
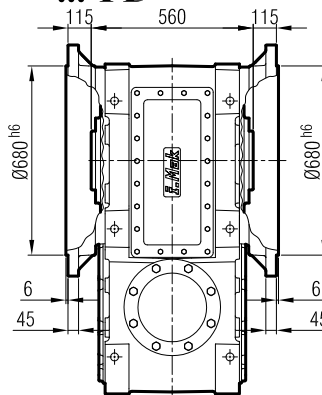
...-FL



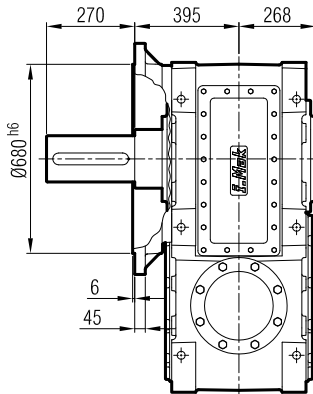
...-FR



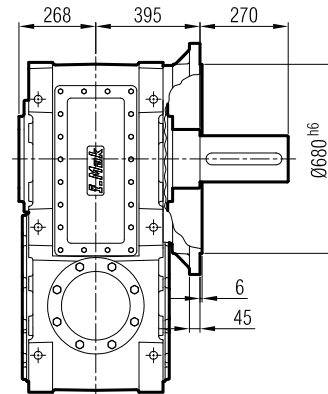
...-FD



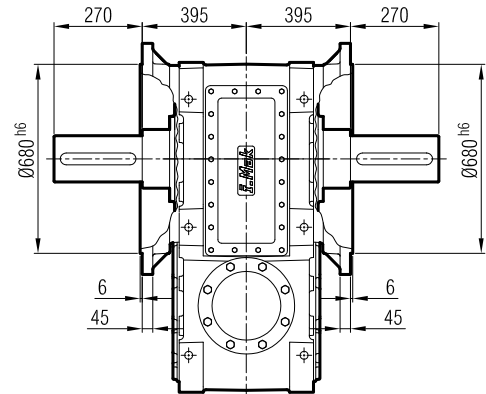
...-FL-SL



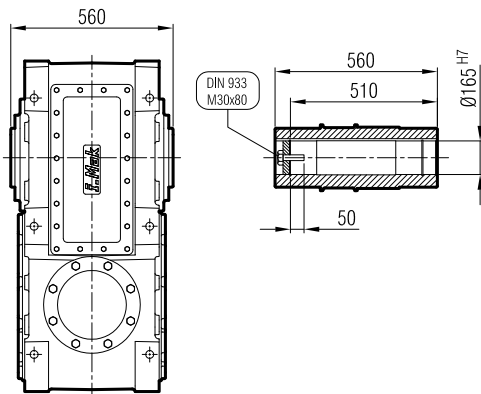
...-FR-SR



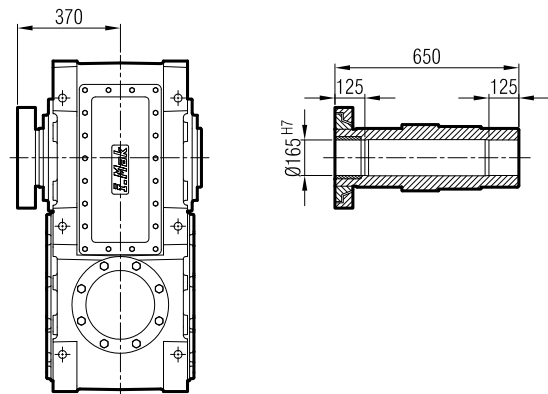
...-FD-SD



...-H

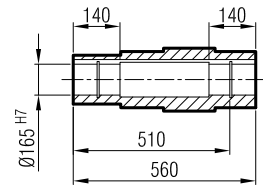
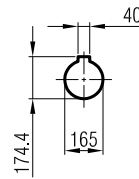
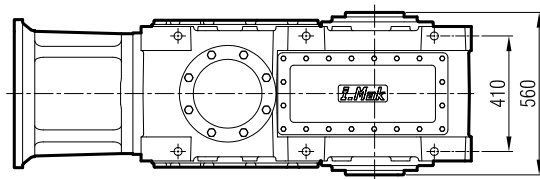
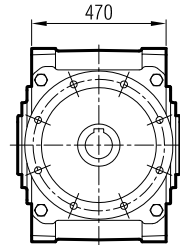
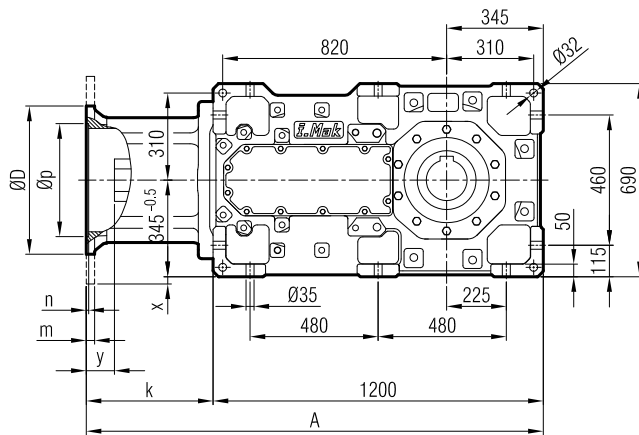


...-SDL / SDR

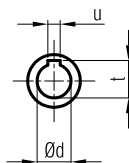
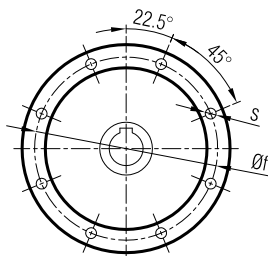
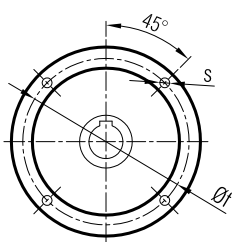




MKP 1104-G09


$$\leq 200 \text{ B5 Tip/Type/Typ}$$

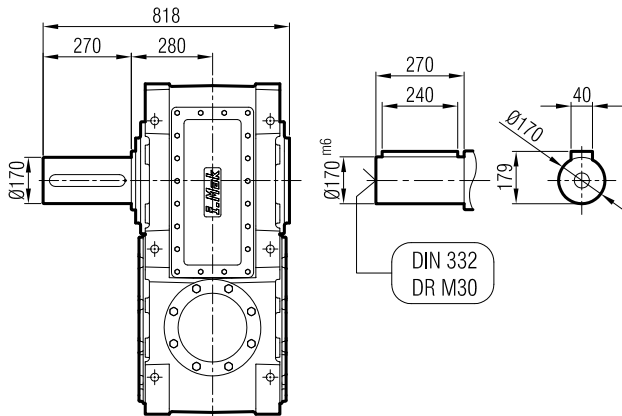
≥ 225 B5 **Tip**/Type/Typ



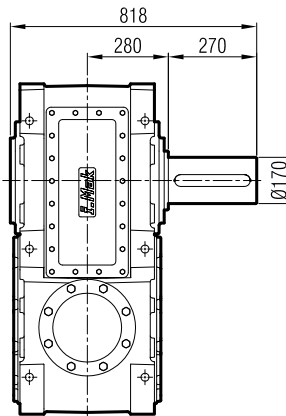
	A	Øp	Øf	ØD	s	k	m	n	Ød	t	u	x	y
160/B5	1597	250	300	350	M14	397	20	6	42	45.3	12	-	48
180/B5	1597	250	300	350	M14	397	20	6	48	51.8	14	-	48
200/B5	1597	300	350	400	M16	397	22	6	55	59.3	16	-	48
225/B5	1640	350	400	450	M16	440	22	6	60	64.4	18	-	80
250/B5	1640	450	500	550	M16	440	25	6.5	65	69.4	18	-	75
280/B5	1640	450	500	550	M16	440	25	6.5	75	75.9	20	-	65



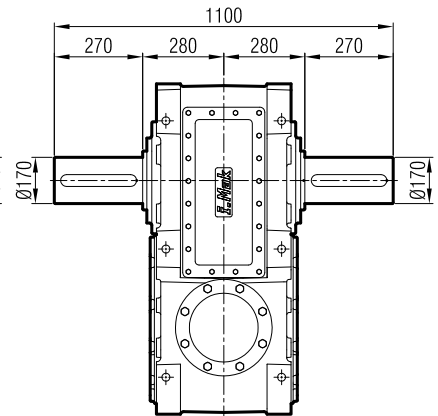
MA / MK 110_
...-SL



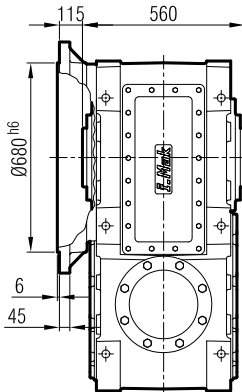
...-SR



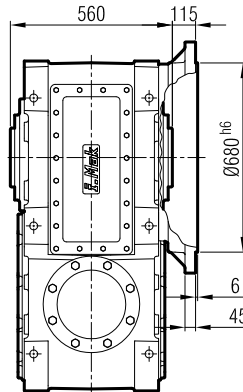
...-SD



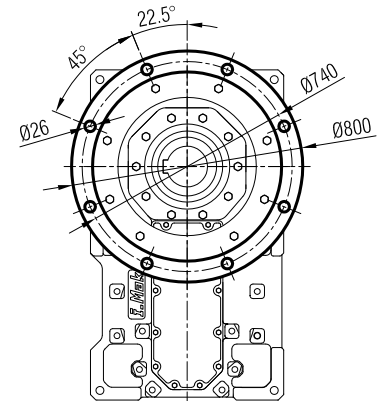
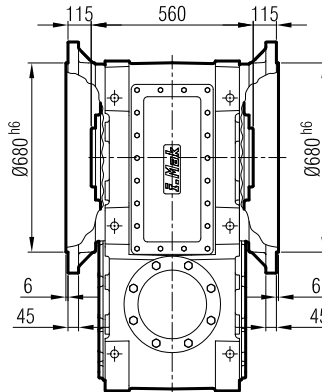
...-FL



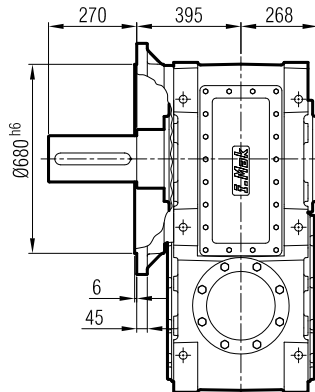
...-FR



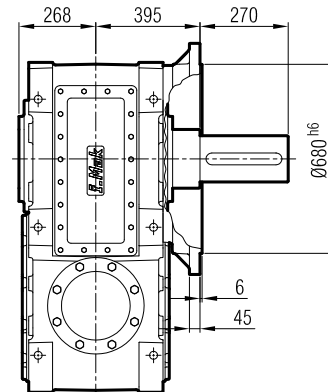
...-FD



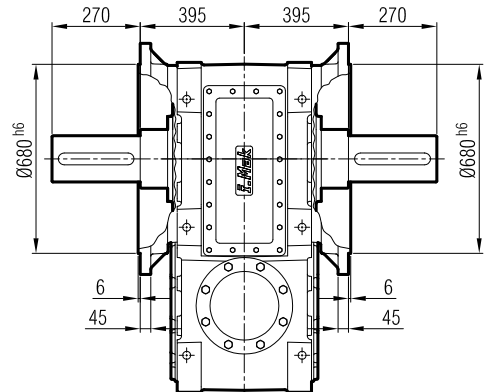
...-FL-SL



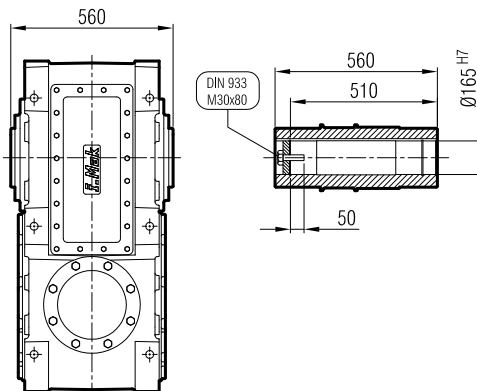
...-FR-SR



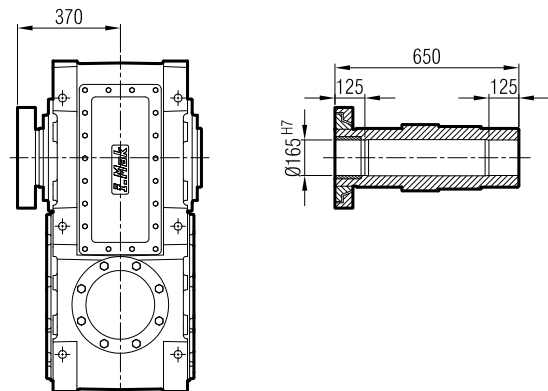
...-FD-SD



...-H

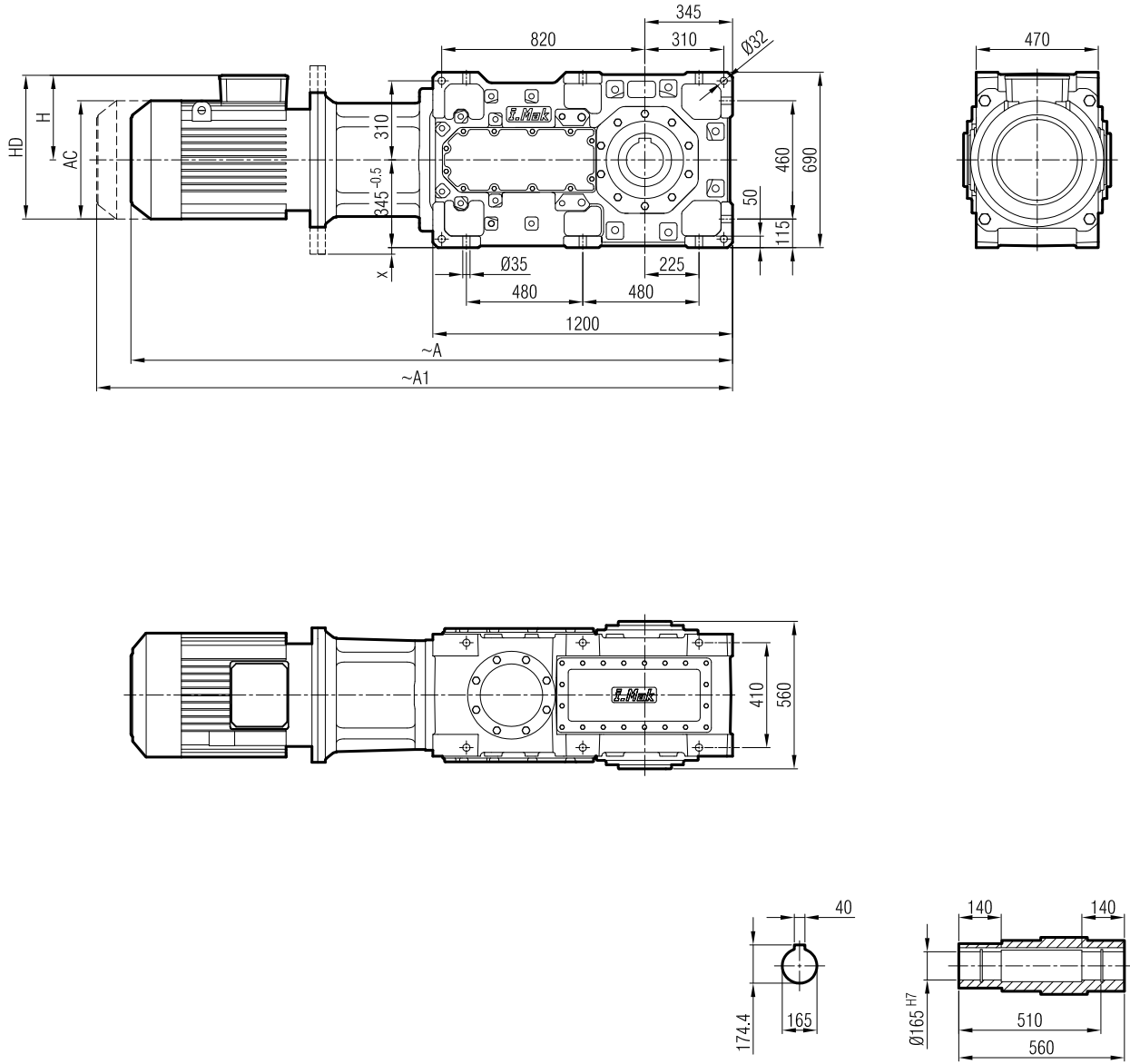


...-SDL / SDR





MKM 1104-G09



	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	2117	2162	2238	2238	2306	2325	2385	2435	2525	2525
A1	2234	2279	2374	2374	2453	2472	2532	2582	2773	2773
H	240	240	260	260	300	313	313	366	398	398
HD	400	400	440	440	500	538	538	616	678	678
AC	315	315	357	357	394	456	456	489	547.5	547.5
X	-	-	-	-	-	-	-	-	-	-

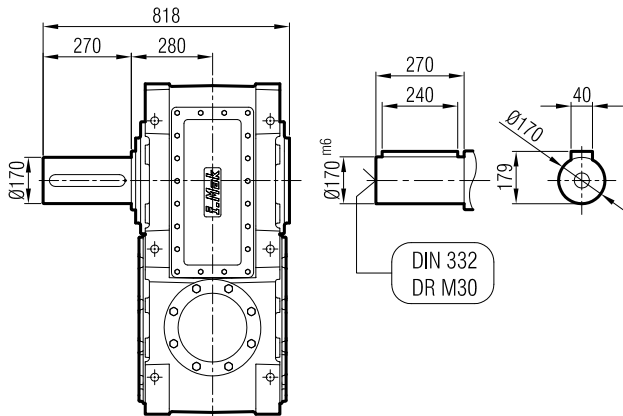
"A1" Ölçüsü Frenli Motorlar içindir.

Dimension "A1" is for motors with brake.

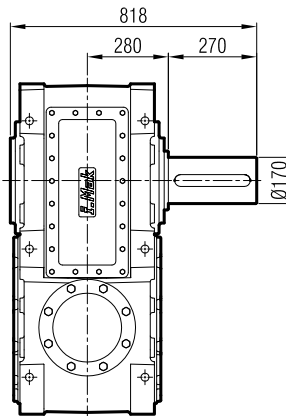
Le dimensions "A1" correspond aux moteurs équipés de freins.



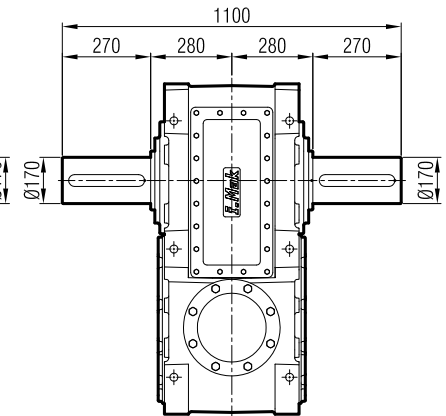
MA / MK 110_
...-SL



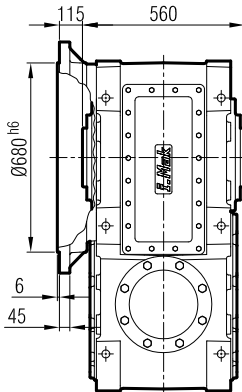
...-SR



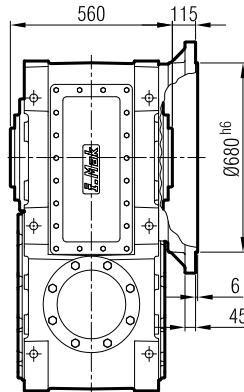
...-SD



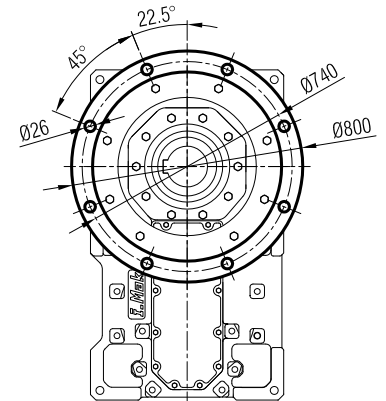
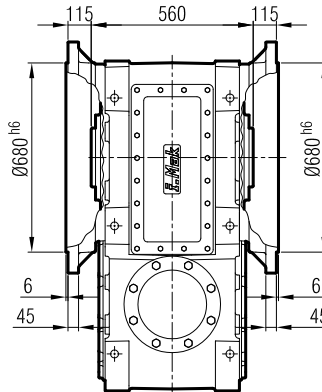
...-FL



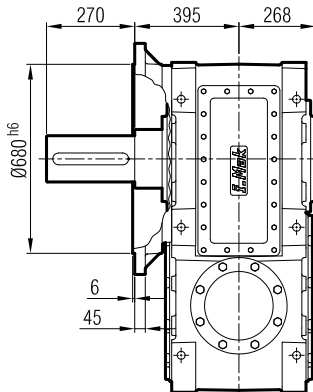
...-FR



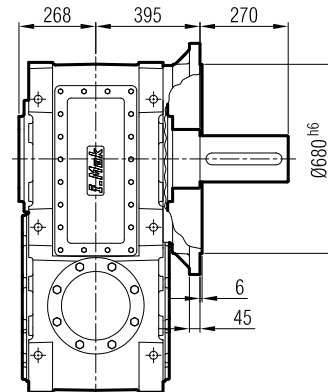
...-FD



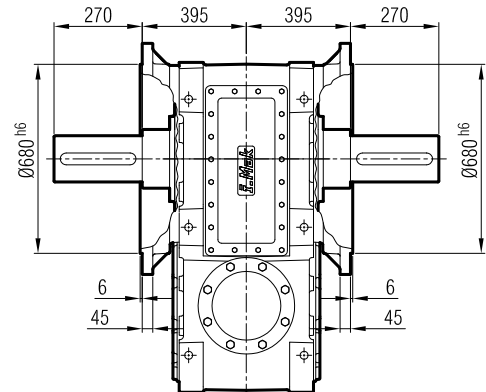
...-FL-SL



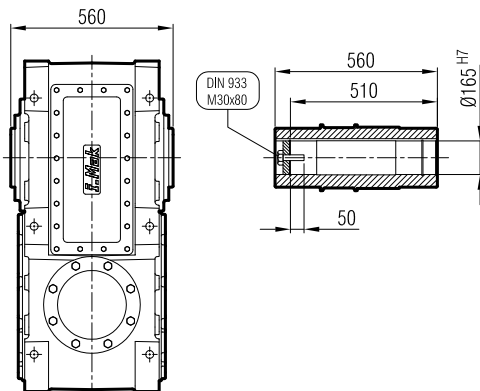
...-FR-SR



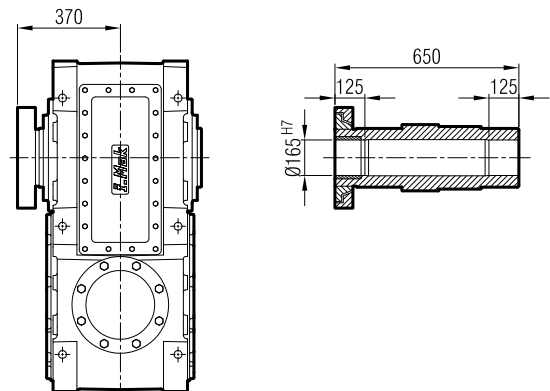
...-FD-SD



...-H

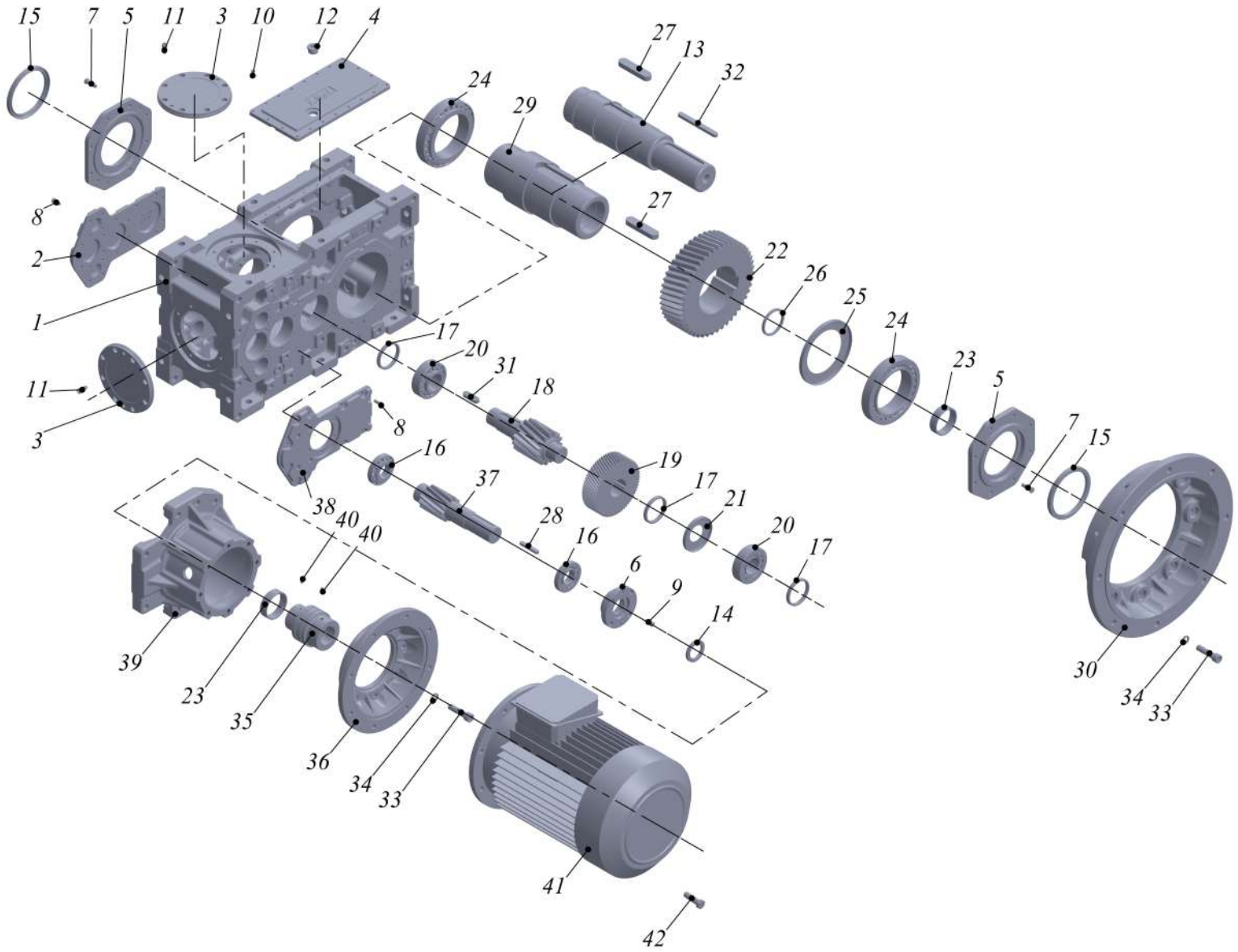


...-SDL / SDR



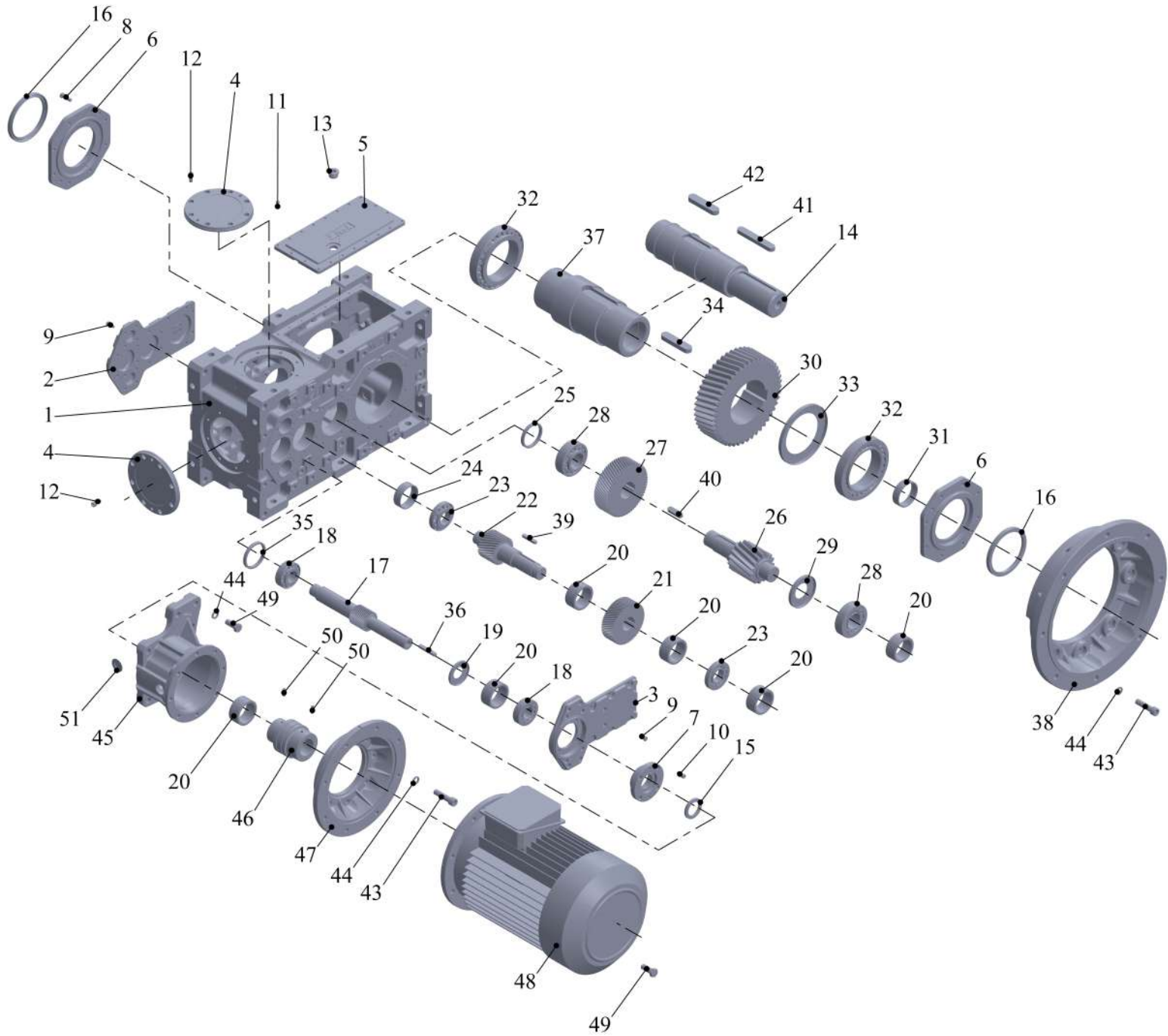
MA Serisi Redüktörler Yedek Parça Listeleri

General Parts List
Liste des pièces détachées

**TİP / TYPE / TYP****MA - MAP - MAM 402 - 502 - 602 - 702 - 802 - 902 - 1002 - 1102**

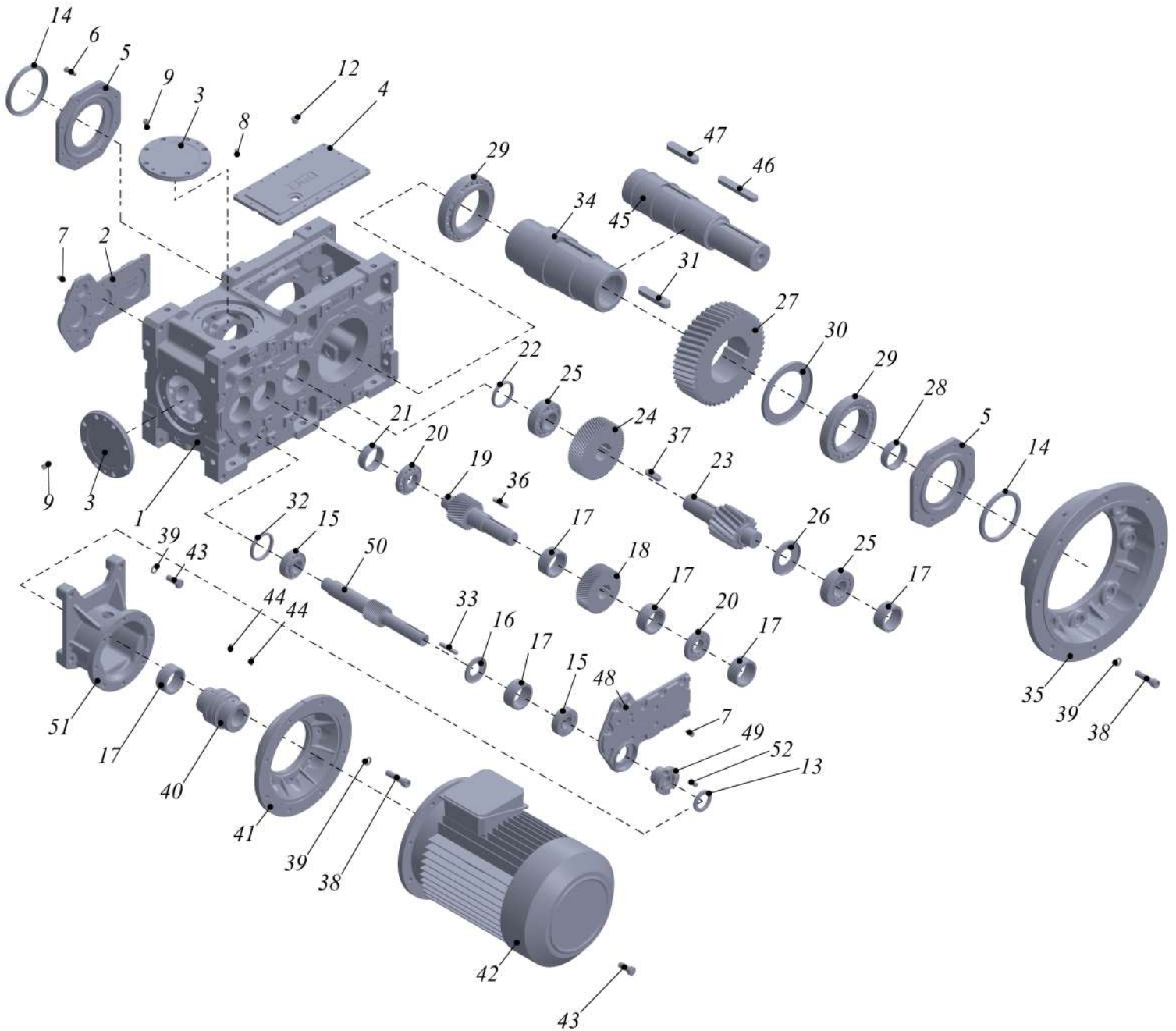
**TİP / TYPE / TYP****MA - MAP - MAM 402 - 502 - 602 - 702 - 802 - 902 - 1002 - 1102**

1 - Gövde	1 - Gear Case	1 - Carter
2 - Rulman Baskı Kapağı	2 - Bearing Cover	2 - Couvercle de Roulement
3 - Ön veya Üst Konik Kapağı	3 - Front or Top Conical Cover	3 - Couvercle conique avant ou supérieur
4 - Kapak	4 - Cover	4 - Couvercle
5 - Keçe Kapağı	5 - Seal Cover	5 - Couvercle de joint
6 - Keçe Kapağı	6 - Seal Cover	6 - Couvercle de joint
7 - Cıvata	7 - Bolt	7 - Vis
8 - Cıvata	8 - Bolt	8 - Vis
9 - Cıvata	9 - Bolt	9 - Vis
10 - Cıvata	10 - Bolt	10 - Vis
11 - Cıvata	11 - Bolt	11 - Vis
12 - Yağ Tapası	12 - Oil Plug	12 - Bouchon d'huile
13 - Çıkış Mili	13 - Output Shaft	13 - Arbre de sortie
14 - Keçe	14 - Seal	14 - Joint
15 - Keçe	15 - Seal	15 - Joint
16 - Rulman	16 - Bearing	16 - Roulement
17 - Burç	17 - Spacer	17 - Anneau d'espacement
18 - Dişli Z3	18 - Gear Z3	18 - Pignon Z3
19 - Dişli Z2	19 - Gear Z2	19 - Pignon Z2
20 - Rulman	20 - Bearing	20 - Roulement
21 - Nilos Ring	21 - Nilos Ring	21 - Nilos Ring
22 - Dişli Z4	22 - Gear Z4	22 - Pignon Z4
23 - Burç	23 - Spacer	23 - Anneau d'espacement
24 - Rulman	24 - Bearing	24 - Roulement
25 - Nilosring	25 - Nilos Ring	25 - Nilos Ring
26 - Burç	26 - Spacer	26 - Anneau d'espacement
27 - Kama	27 - Key	27 - Clavette
28 - Kama	28 - Key	28 - Clavette
29 - Kovan	29 - Hollow Shalt	29 - Arbre creux
30 - Flanş	30 - Flange	30 - Bridge
31 - Kama	31 - Key	31 - Clavette
32 - Kama	32 - Key	32 - Clavette
33 - Cıvata	33 - Bolt	33 - Vis
34 - Rondela	34 - Washer	34 - Machine à laver
35 - Kaplin	35 - Coupling	35 - Couplage
36 - Motor Bağlantı Flanşı	36 - Motor Mounting Flange	36 - Bride moteur
37 - Dişli Z1	37 - Gear Z1	37 - Pignon Z1
38 - Rulman Baskı Kapağı	38 - Bearing Cover	38 - Couvercle de Roulement
39 - Motor Bağlantı Boğazı	39 - Motor Mounting Adapter	39 - Bride moteur
40 - Setskur	40 - Setskur	40 - Setskur
41 - Elektrik Motoru	41 - Electric Motor	41 - Moteur électrique
42 - Cıvata	42 - Bolt	42 - Vis

**TİP / TYPE / TYP****MA - MAP - MAM 403 - 503 - 603 - 703 - 803 - 903 - 1003 - 1103**

**TİP / TYPE / TYP****MA - MAP - MAM****403 - 503 - 603 - 703 - 803 - 903 - 1003 - 1103**

1 - Gövde	1 - Gear Case	1 - Carter
2 - Rulman Baskı Kapağı	2 - Bearing Cover	2 - Couvercle de Roulement
3 - Rulman Baskı Kapağı	3 - Bearing Cover	3 - Couvercle de Roulement
4 - Ön veya Üst Konik Kapağı	4 - Front or Top Conical Cover	4 - Couvercle conique avant ou supérieur
5 - Kapak	5 - Cover	5 - Couvercle
6 - Keçe Kapağı	6 - Seal Cover	6 - Couvercle de joint
7 - Keçe Kapağı	7 - Seal Cover	7 - Couvercle de joint
8 - Cıvata	8 - Bolt	8 - Vis
9 - Cıvata	9 - Bolt	9 - Vis
10 - Cıvata	10 - Bolt	10 - Vis
11 - Cıvata	11 - Bolt	11 - Vis
12 - Cıvata	12 - Bolt	12 - Vis
13 - Yağ Tapası	13 - Oil Plug	13 - Bouchon d'huile
14 - Çıkış Mili	14 - Output Shaft	14 - Arbre de sortie
15 - Keçe	15 - Seal	15 - Joint
16 - Keçe	16 - Seal	16 - Joint
17 - Dişli Z1	17 - Gear Z1	17 - Pignon Z1
18 - Rulman	18 - Bearing	18 - Roulement
19 - Nilos Ring	19 - Nilos Ring	19 - Nilos Ring
20 - Burç	20 - Spacer	20 - Anneau d'espacement
21 - Dişli Z2	21 - Gear Z2	21 - Pignon Z2
22 - Dişli Z3	22 - Gear Z3	22 - Pignon Z3
23 - Rulman	23 - Bearing	23 - Roulement
24 - Burç	24 - Spacer	24 - Anneau d'espacement
25 - Burç	25 - Spacer	25 - Anneau d'espacement
26 - Dişli Z5	26 - Gear Z5	26 - Pignon Z5
27 - Dişli Z4	27 - Gear Z4	27 - Pignon Z4
28 - Rulman	28 - Bearing	28 - Roulement
29 - Nilosring	29 - Nilos Ring	29 - Nilos Ring
30 - Dişli Z6	30 - Gear Z6	30 - Pignon Z6
31 - Burç	31 - Spacer	31 - Anneau d'espacement
32 - Rulman	32 - Bearing	32 - Roulement
33 - Nilos Ring	33 - Nilos Ring	33 - Nilos Ring
34 - Kama	34 - Key	34 - Clavette
35 - Burç	35 - Spacer	35 - Anneau d'espacement
36 - Kama	36 - Key	36 - Clavette
37 - Kovan	37 - Hollow Shalt	37 - Arbre creux
38 - Flanş	38 - Flange	38 - Bridge
39 - Kama	39 - Key	39 - Clavette
40 - Kama	40 - Key	40 - Clavette
41 - Kama	41 - Key	41 - Clavette
42 - Kama	42 - Key	42 - Clavette
43 - Cıvata	43 - Bolt	43 - Vis
44 - Rondela	44 - Washer	44 - Machine à laver
45 - Motor Bağlantı Boğazı	45 - Motor Mounting Adapter	45 - Bride moteur
46 - Kaplin	46 - Coupling	46 - Couplage
47 - Motor Bağlantı Flanşı	47 - Motor Mounting Flange	47 - Bride moteur
48 - Elektrik Motoru	48 - Electric Motor	48 - Moteur électrique
49 - Cıvata	49 - Bolt	49 - Vis
50 - Setskur	50 - Setskur	50 - Setskur
51 - Kapak	51 - Cover	51 - Couvercle

**TİP / TYPE / TYP****MA - MAP - MAM 704 - 804 - 904 - 1004 - 1104**

**TİP / TYPE / TYP****MA - MAP - MAM 704 - 804 - 904 - 1004 - 1104**

1 - Gövde	1 - Gear Case	1 - Carter
2 - Rulman Baskı Kapağı	2 - Bearing Cover	2 - Couvercle de Roulement
3 - Ön veya Üst Konik Kapağı	3 - Front or Top Conical Cover	3 - Couvercle conique avant ou supérieur
4 - Kapak	4 - Cover	4 - Couvercle
5 - Keçe Kapağı	5 - Seal Cover	5 - Couvercle de joint
6 - Cıvata	6 - Bolt	6 - Vis
7 - Cıvata	7 - Bolt	7 - Vis
8 - Cıvata	8 - Bolt	8 - Vis
9 - Cıvata	9 - Bolt	9 - Vis
10 - Yağ Tapası	10 - Oil Plug	10 - Bouchon d'huile
11 - Çıkış Mili*	11 - Output Shaft	11 - Arbre de sortie
12 - Keçe	12 - Seal	12 - Joint
13 - Keçe	13 - Seal	13 - Joint
14 - Rulman	14 - Bearing	14 - Roulement
15 - Nilos Ring	15 - Nilos Ring	15 - Nilos Ring
16 - Burç	16 - Spacer	16 - Anneau d'espacement
17 - Dişli Z2	17 - Gear Z2	17 - Pignon Z2
18 - Dişli Z3	18 - Gear Z3	18 - Pignon Z3
19 - Rulman	19 - Bearing	19 - Roulement
20 - Burç	20 - Spacer	20 - Anneau d'espacement
21 - Burç	21 - Spacer	21 - Anneau d'espacement
22 - Dişli Z5	22 - Gear Z5	22 - Pignon Z5
23 - Dişli Z4	23 - Gear Z4	23 - Pignon Z4
24 - Rulman	24 - Bearing	24 - Roulement
25 - Nilosring	25 - Nilos Ring	25 - Nilos Ring
26 - Dişli Z6	26 - Gear Z6	26 - Pignon Z6
27 - Burç	27 - Spacer	27 - Anneau d'espacement
28 - Rulman	28 - Bearing	28 - Roulement
29 - Nilos Ring	29 - Nilos Ring	29 - Nilos Ring
30 - Kama	30 - Key	30 - Clavette
31 - Burç	31 - Spacer	31 - Anneau d'espacement
32 - Kama	32 - Key	32 - Clavette
33 - Kovan*	33 - Hollow Shalt	33 - Arbre creux
34 - Flanş	34 - Flange	34 - Bridge
35 - Kama	35 - Key	35 - Clavette
36 - Kama	36 - Key	36 - Clavette
37 - Kama	37 - Key	37 - Clavette
38 - Kama	38 - Key	38 - Clavette
39 - Cıvata	39 - Bolt	39 - Vis
40 - Rondela	40 - Washer	40 - Machine à laver
41 - Kaplin	41 - Coupling	41 - Couplage
42 - Motor Bağlantı Flanşı	42 - Motor Mounting Flange	42 - Bride moteur
43 - Elektrik Motoru	43 - Electric Motor	43 - Moteur électrique
44 - Cıvata	44 - Bolt	44 - Vis
45 - Setskur	45 - Setskur	45 - Setskur
46 - Rulman Baskı Kapağı	46 - Bearing Cover	46 - Couvercle de Roulement
47 - Keçe Kapağı	47 - Seal Cover	47 - Couvercle de joint
48 - Dişli Z1	48 - Gear Z1	48 - Pignon Z1
49 - Motor Bağlantı Boğazı	49 - Motor Mounting Adapter	49 - Bride moteur
50 - Cıvata	50 - Bolt	50 - Vis



MK Serisi Redüktörler Yedek Parça Listeleri

General Parts List
Liste des pièces détachées

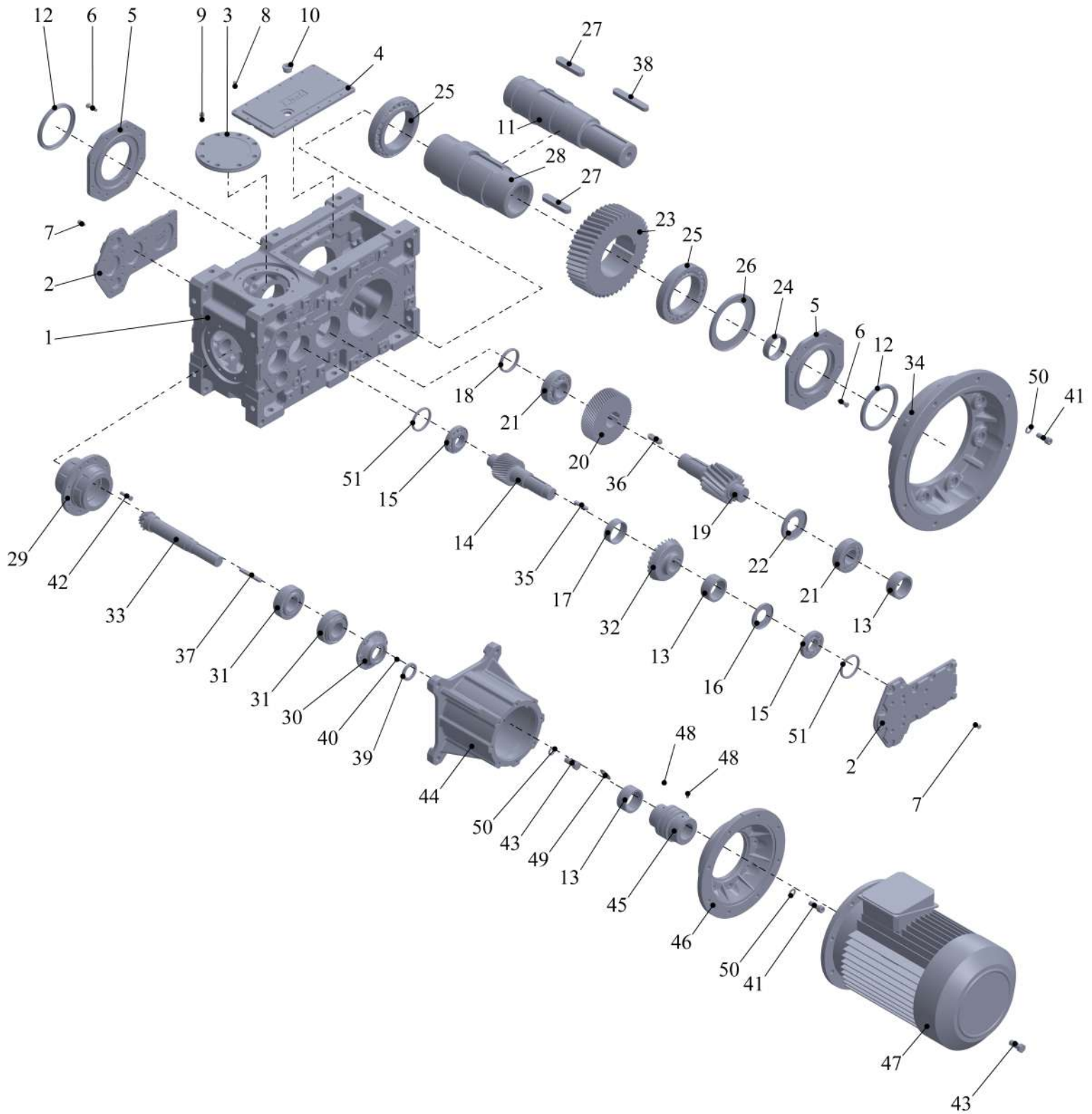


TIP / TYPE / *TYP*

MK - MKP - MKM

403 - 503 - 603 - 703 - 803 - 903 - 1003 - 1103 / G07 - G09

404 - 504 - 604 - 704 - 804 - 904 - 1004 - 1104 / G07 - G09



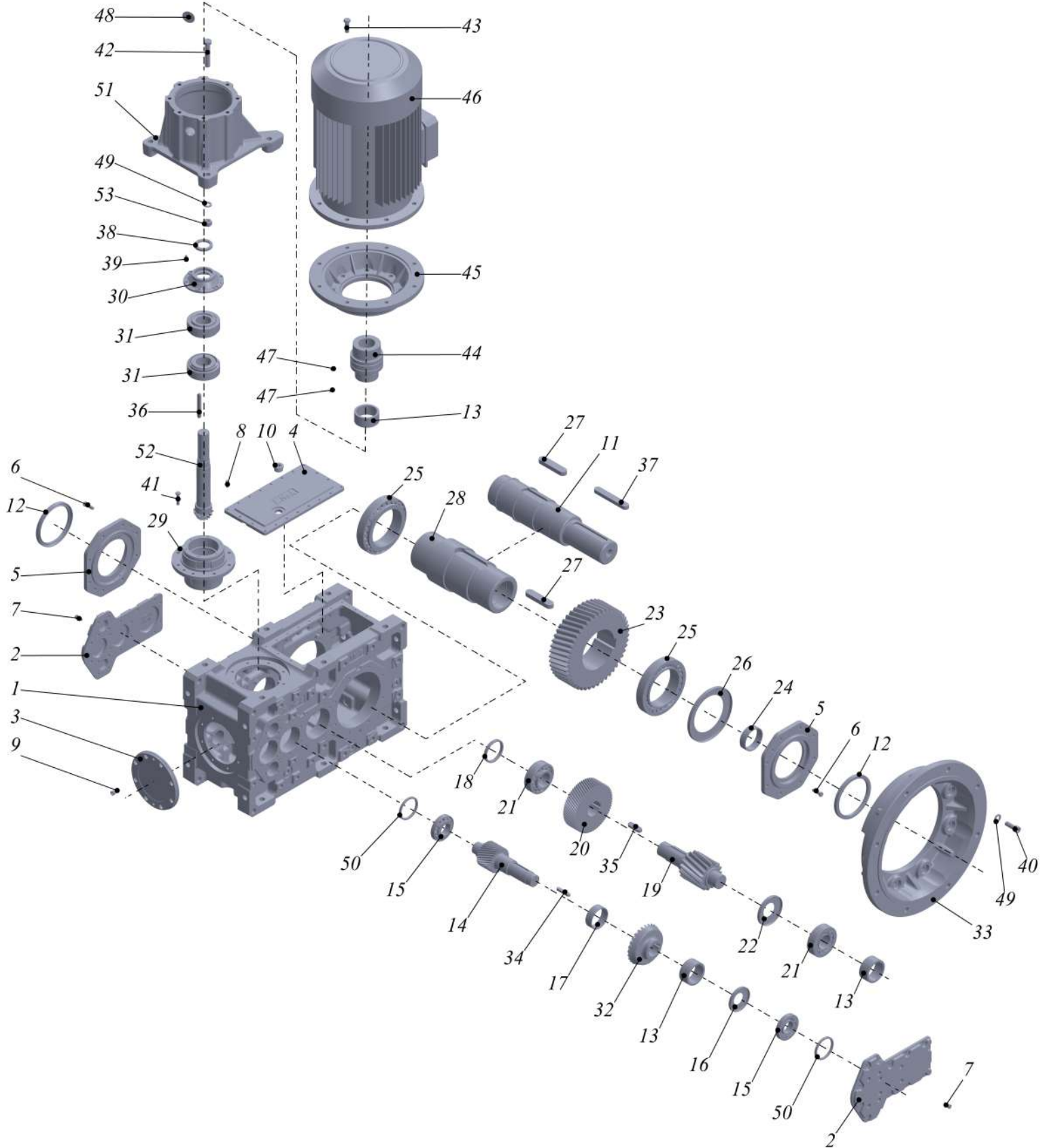
**TİP / TYPE / TYP****MK - MKP - MKM****403 - 503 - 603 - 703 - 803 - 903 - 1003 - 1103 / G07 - G09****404 - 504 - 604 - 704 - 804 - 904 - 1004 - 1104 / G07 - G09**

1 - Gövde	1 - Gear Case	1 - Carter
2 - Rulman Baskı Kapağı	2 - Bearing Cover	2 - Couvercle de Roulement
3 - Ön veya Üst Konik Kapağı	3 - Front or Top Conical Cover	3 - Couvercle conique avant ou supérieur
4 - Kapak	4 - Cover	4 - Couvercle
5 - Keçe Kapağı	5 - Seal Cover	5 - Couvercle de joint
6 - Civata	6 - Bolt	6 - Vis
7 - Civata	7 - Bolt	7 - Vis
8 - Civata	8 - Bolt	8 - Vis
9 - Civata	9 - Bolt	9 - Vis
10 - Yağ Tapası	10 - Oil Plug	10 - Bouchon d'huile
11 - Çıkış Mili	11 - Output Shaft	11 - Arbre de sortie
12 - Keçe	12 - Seal	12 - Joint
13 - Burç	13 - Spacer	13 - Anneau d'espacement
14 - Dişli Z3	14 - Gear Z3	14 - Pignon Z3
15 - Rulman	15 - Bearing	15 - Roulement
16 - Nilos Ring	16 - Nilos Ring	16 - Nilos Ring
17 - Burç	17 - Spacer	17 - Anneau d'espacement
18 - Burç	18 - Spacer	18 - Anneau d'espacement
19 - Dişli Z5	19 - Gear Z5	19 - Pignon Z5
20 - Dişli Z4	20 - Gear Z4	20 - Pignon Z4
21 - Rulman	21 - Bearing	21 - Roulement
22 - Nilos Ring	22 - Nilos Ring	22 - Nilos Ring
23 - Dişli Z6	23 - Gear Z6	23 - Pignon Z6
24 - Burç	24 - Spacer	24 - Anneau d'espacement
25 - Rulman	25 - Bearing	25 - Roulement
26 - Nilosring	26 - Nilos Ring	26 - Nilos Ring
27 - Kama	27 - Key	27 - Clavette
28 - Kovan	28 - Hollow Shaft	28 - Arbre creux
29 - Motorsuz Kapak	29 - Gear Case Cover	29 - Antriebsdeckel
30 - Keçe Kapağı	30 - Seal Cover	30 - Couvercle de joint
31 - Rulman	31 - Bearing	31 - Roulement
32 - Ayna Dişlisi Z4	32 - Gear Wheel Z4	32 - Pignon Z4
33 - Pinyon Z3	33 - Pinion Shaft Z3	33 - Pignon Z3
34 - Flanş	34 - Flange	34 - Bridge
35 - Kama	35 - Key	35 - Clavette
36 - Kama	36 - Key	36 - Clavette
37 - Kama	37 - Key	37 - Clavette
38 - Kama	38 - Key	38 - Clavette
39 - Keçe	39 - Seal	39 - Joint
40 - Civata	40 - Bolt	40 - Vis
41 - Civata	41 - Bolt	41 - Vis
42 - Civata	42 - Bolt	42 - Vis
43 - Civata	43 - Bolt	43 - Vis
44 - Motor Bağlantı Boğazı	44 - Motor Mounting Adapter	44 - Bride moteur
45 - Kaplin	45 - Coupling	45 - Couplage
46 - Motor Bağlantı Flanşı	46 - Motor Mounting Flange	46 - Bride moteur
47 - Elektrik Motoru	47 - Electric Motor	47 - Moteur électrique
48 - Setskur	48 - Setskur	48 - Setskur
49 - Kapak	49 - Cover	49 - Couvercle
50 - Rondela	50 - Washer	50 - Machine à laver
51 - Burç	51 - Spacer	51 - Anneau d'espacement



TİP / TYPE / TYP

MK - MKP - MKM 403 - 503 - 603 - 703 - 803 - 903 - 1003 - 1103 / G08 - G10



**TİP / TYPE / TYP****MK - MKP - MKM 403 - 503 - 603 - 703 - 803 - 903 - 1003 -- 1103 / G08 - G10**

1 - Gövde	1 - Gear Case	1 - Carter
2 - Rulman Baskı Kapağı	2 - Bearing Cover	2 - Couvercle de Roulement
3 - Ön veya Üst Konik Kapağı	3 - Front or Top Conical Cover	3 - Couvercle conique avant ou supérieur
4 - Kapak	4 - Cover	4 - Couvercle
5 - Keçe Kapağı	5 - Seal Cover	5 - Couvercle de joint
6 - Cıvata	6 - Bolt	6 - Vis
7 - Cıvata	7 - Bolt	7 - Vis
8 - Cıvata	8 - Bolt	8 - Vis
9 - Cıvata	9 - Bolt	9 - Vis
10 - Yağ Tapası	10 - Oil Plug	10 - Bouchon d'huile
11 - Çıkış Mili	11 - Output Shaft	11 - Arbre de sortie
12 - Keçe	12 - Seal	12 - Joint
13 - Burç	13 - Spacer	13 - Anneau d'espacement
14 - Dişli Z3	14 - Gear Z3	14 - Pignon Z3
15 - Rulman	15 - Bearing	15 - Roulement
16 - Nilos Ring	16 - Nilos Ring	16 - Nilos Ring
17 - Burç	17 - Spacer	17 - Anneau d'espacement
18 - Burç	18 - Spacer	18 - Anneau d'espacement
19 - Dişli Z5	19 - Gear Z5	19 - Pignon Z5
20 - Dişli Z4	20 - Gear Z4	20 - Pignon Z4
21 - Rulman	21 - Bearing	21 - Roulement
22 - Nilos Ring	22 - Nilos Ring	22 - Nilos Ring
23 - Dişli Z6	23 - Gear Z6	23 - Pignon Z6
24 - Burç	24 - Spacer	24 - Anneau d'espacement
25 - Rulman	25 - Bearing	25 - Roulement
26 - Nilosring	26 - Nilos Ring	26 - Nilos Ring
27 - Kama	27 - Key	27 - Clavette
28 - Kovan	28 - Hollow Shaft	28 - Arbre creux
29 - Motorsuz Kapak	29 - Gear Case Cover	29 - Antriebsdeckel
30 - Keçe Kapağı	30 - Seal Cover	30 - Couvercle de joint
31 - Rulman	31 - Bearing	31 - Roulement
32 - Ayna Dişlisi Z4	32 - Gear Wheel Z4	32 - Pignon Z4
33 - Flanş	33 - Flange	33 - Bridge
34 - Kama	34 - Key	34 - Clavette
35 - Kama	35 - Key	35 - Clavette
36 - Kama	36 - Key	36 - Clavette
37 - Kama	37 - Key	37 - Clavette
38 - Keçe	38 - Seal	38 - Joint
39 - Cıvata	39 - Bolt	39 - Vis
40 - Cıvata	40 - Bolt	40 - Vis
41 - Cıvata	41 - Bolt	41 - Vis
42 - Cıvata	42 - Bolt	42 - Vis
43 - Cıvata	43 - Bolt	43 - Vis
44 - Kaplin	44 - Coupling	44 - Couplage
45 - Motor Bağlantı Flanşı	45 - Motor Mounting Flange	45 - Bride moteur
46 - Elektrik Motoru	46 - Electric Motor	46 - Moteur électrique
47 - Setskur	47 - Setskur	47 - Setskur
48 - Kapak	48 - Cover	48 - Couvercle
49 - Rondela	49 - Washer	49 - Machine à laver
50 - Burç	50 - Spacer	50 - Anneau d'espacement
51 - Motor Bağlantı Boğazı	51 - Motor Mounting Adapter	51 - Bride moteur
52 - Pinyon Z3	52 - Pinion Shaft Z3	52 - Pignon Z3
53 - Somun	53 - Nut	53 - Noix

Notlar
Notes



Fabrika - Merkez Satış

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