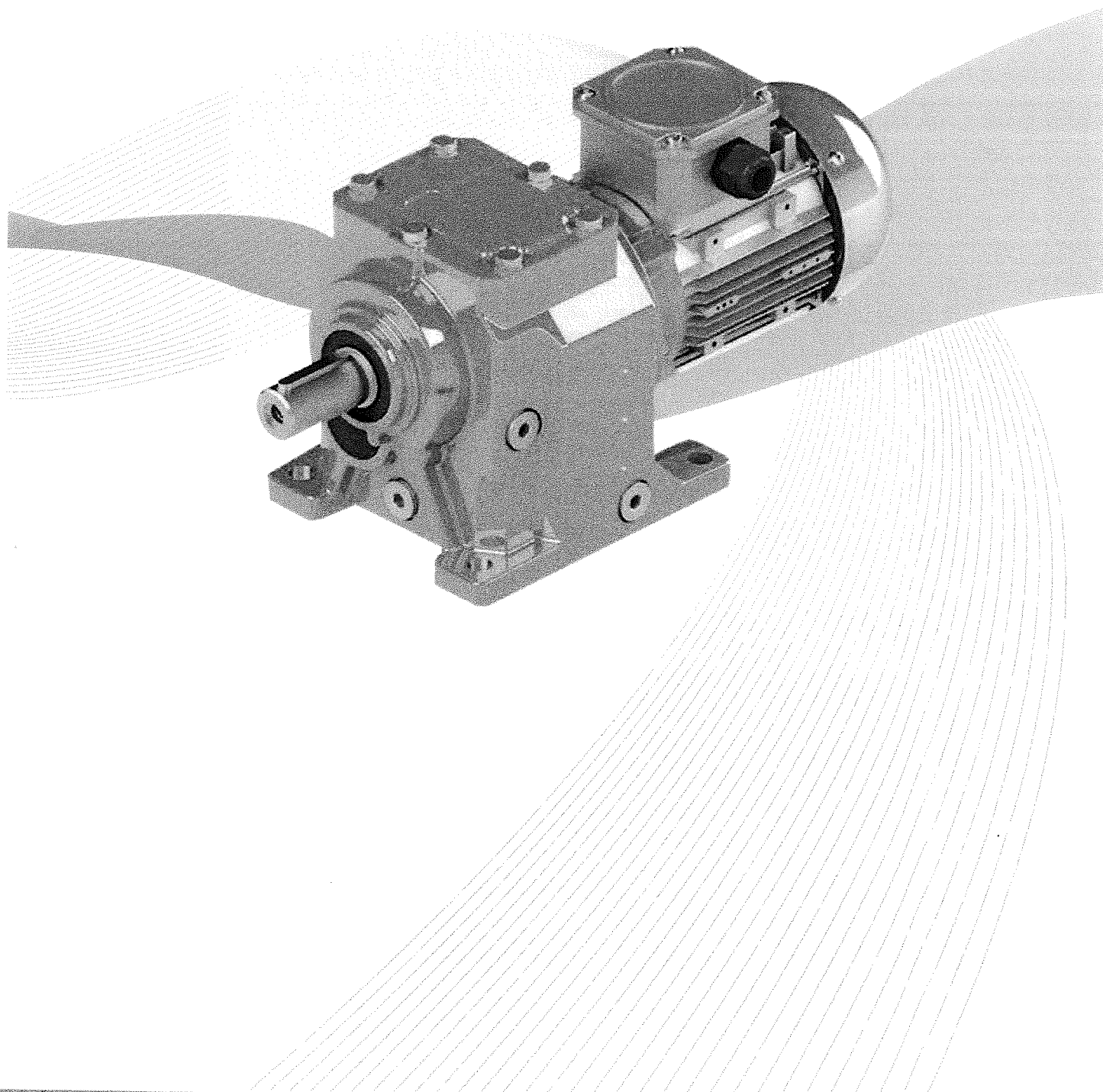


CHG - A/F SERIES



EN MOUNTING POSITIONS

DE EINBAULAGE

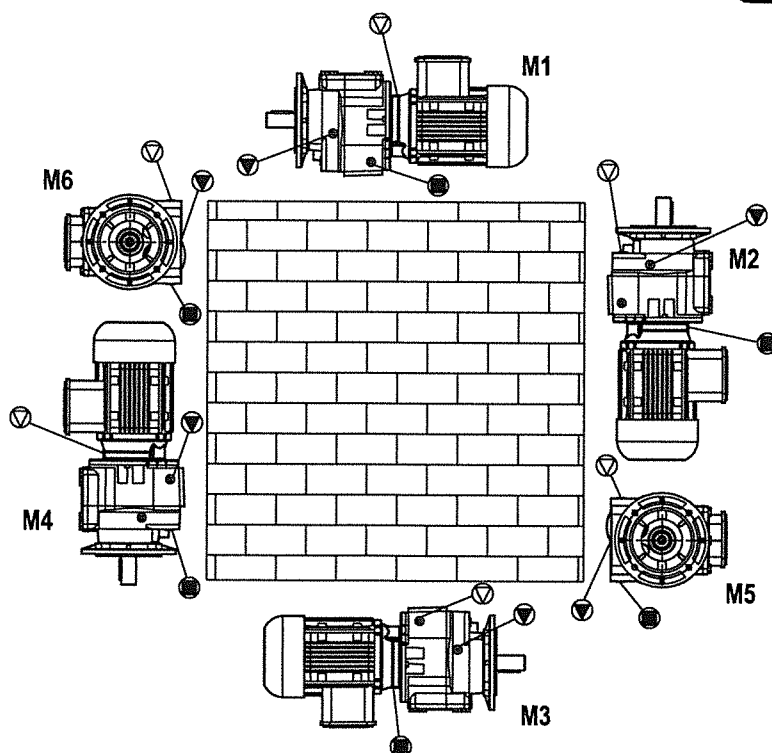
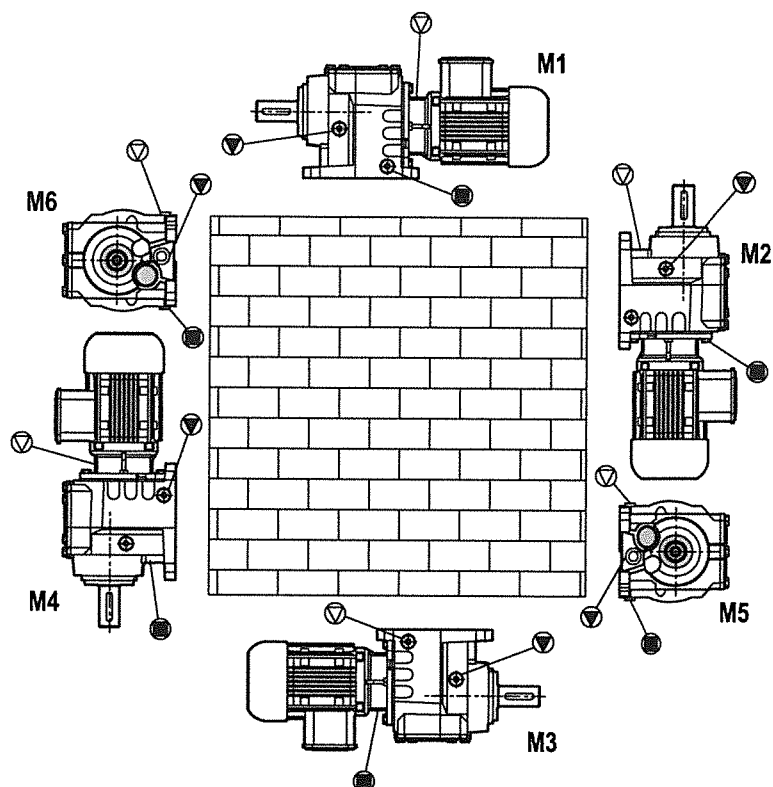
IT PIAZZAMENTO

EN POS. DE MONTAGE

DE POS. DE MONTAJE

A...

202
202 G
252 - 253
302 - 303
352 - 353
402 - 403
502 - 503
602 - 603
702 - 703
902 - 903



F...

AF...

202
202 G
252 - 253
302 - 303
352 - 353
402 - 403
502 - 503
602 - 603
702 - 703
902 - 903

202
202 G
252 - 253
302 - 303
352 - 353
402 - 403
502 - 503
602 - 603
702 - 703
902 - 903

⌚ Vent plug / Entlüftung
Tappo di sfiato / Évent / Ventilación

● Drain plug / Ölablass / Tappo di scarico dell'olio
Vidange d'huile / Vaciado de aceite

⬇ Oil level / Ölstand / Tappo di livello dell'olio
Niveau d'huile / Nivel de aceite

EN MOUNTING POSITIONS

- For vertical positions, check with pages 78-79.
- Unless specified otherwise, the standard positions are M1.
- For positions not envisaged, it is necessary to call our Technical Service.

DE EINBAULAGE

- Für die vertikalen einbaulagen siehe seite 78-79.
- Falls nicht anders angegeben, sind M1 die standardeinbaulagen.
- Für nicht angegebene einbaulagen setzen sie sich bitte mit unserem kundendienst in verbindung.

IT PIAZZAMENTO

- Per le posizioni di piazzamento verticali verificare quanto detto a pag. 78-79.
- Se non diversamente specificato le posizioni standard sono M1.
- Per le posizioni di piazzamento non previste occorre rivolgersi al ns. Servizio tecnico.

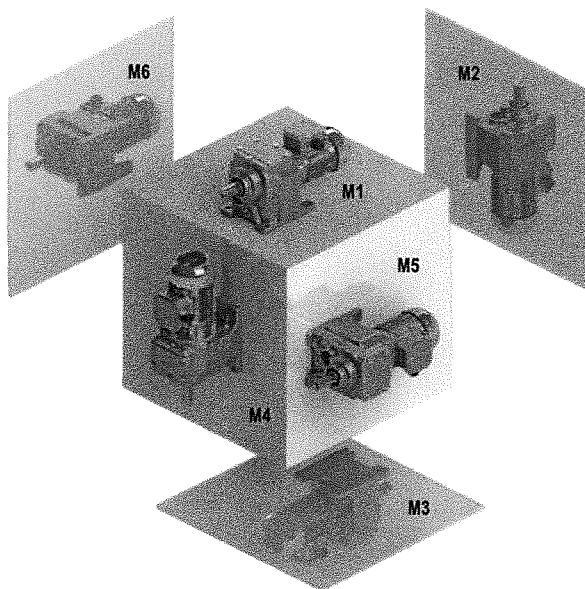
FR POS. DE MONTAGE

- Pour les positions de montage verticales, voir pages 78-79.
- Si non spécifié, les positions standard sont M1.
- Pour les positions de montage non prévues, contacter notre S.cé technique.

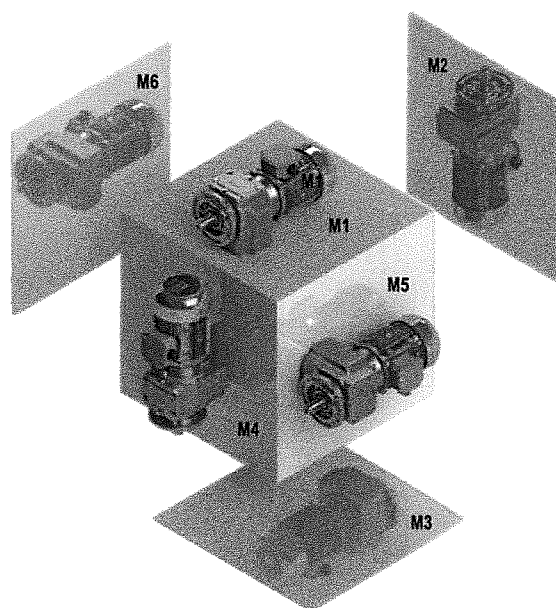
ES POS. DE MONTAJE

- Para las posiciones de montaje verticales, ver las páginas 78-79.
- Si non se especifica el contrario, las posiciones estándar son M1.
- Para las posiciones demontajenoprevistas, es necesario ponerse en contacto con nuestro Servicio técnico.

**A301...701
A202...902
A253...903**



**F301...701
F202...902
F253...903**



EN

MOUNTING POSITIONS

- In the case of specific requirements, when ordering, specify the position of the terminal box as shown in the diagram.
- Unless otherwise specified, the gear reducer is supplied with terminal box in position 1.
- Unless specified otherwise, the standard positions are M1.
- For positions not envisaged, it is necessary to call our Technical Service.

DE

EINBAULAGE

- Im Falle von Sonderanforderungen ist bei Auftragserteilung die Lage des Klemmkastens gemäß dem Schema genau anzugeben.
- Sofern nichts Gegenteiliges angegeben, wird der schneckengetriebemotor mit klemmkastenlage 1 geliefert.
- Falls nicht anders angegeben, sind M1 die Standardeinbaulagen.
- Für nicht angegebene Einbaulagen setzen sie sich bitte mit unserem kundendienst in verbindung.

IT

PIAZZAMENTO

- Nel caso di particolari esigenze specificare in fase di ordine la posizione della morsetteria come da schema.
- Se non diversamente specificato, il gruppo viene fornito con morsetteria in pos.1.
- Se non diversamente specificato le posizioni standard sono M1.
- Per le posizioni di piazzamento non previste contattare Ufficio Tecnico.

FR

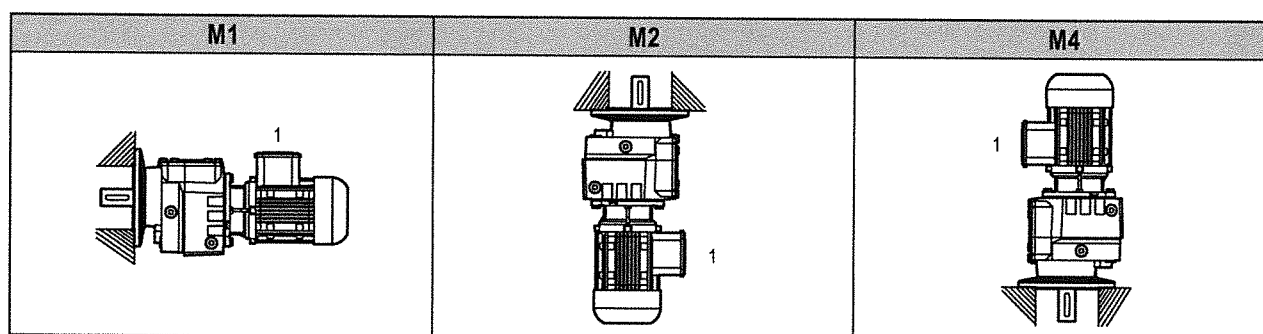
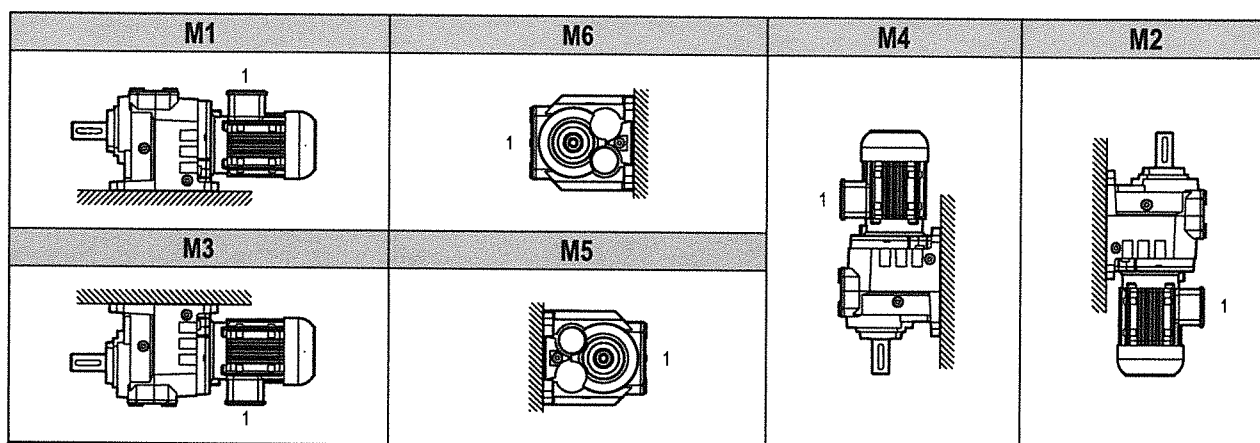
POS. DE MONTAGE

- En cas d'exigences particulières, spécifier, lors de la commande, la position du bornier comme d'après le schéma.
- Sauf indications contraires, le réducteur est fourni avec boîte à borne en position 1.
- Si non spécifié, les positions standard sont M1.
- Pour les positions de montage non prévues, contacter notre S.ce technique.

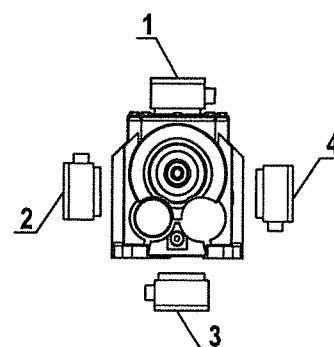
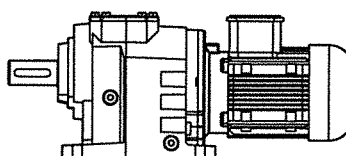
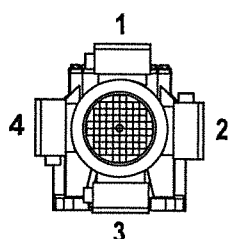
ES

POS. DE MONTAJE

- En caso de exigencias particulares, detallar en el pedido, la posición de la caja de bornes según el esquema.
- Si no está diferentemente especificado, el motorreductor se monta con la caja de bornes en posición 1.
- Si no se especifica el contrario, las posiciones estándar son M1.
- Para las posiciones de montaje no previstas, es necesario ponerse en contacto con nuestro Servicio técnico.



Position of terminal box
Klemmkastenlage
Posizione morsettieria
Position du bornier
Posición caja de bornes



Grey cast iron series / Serie in ghisa grigia / Serie aus GG. / Série en fonte grise / Serie en fundición gris

A / F...PAM 100

- Fitted for motor coupling version (PAM).
- Ausführungen zum anbau von PAM - Motoren.
- Versione con predisposizione per attacco motore PAM.
- Version avec prédisposition pour moteur PAM.
- Versión motorreductor (PAM).

A / F...100L/4A

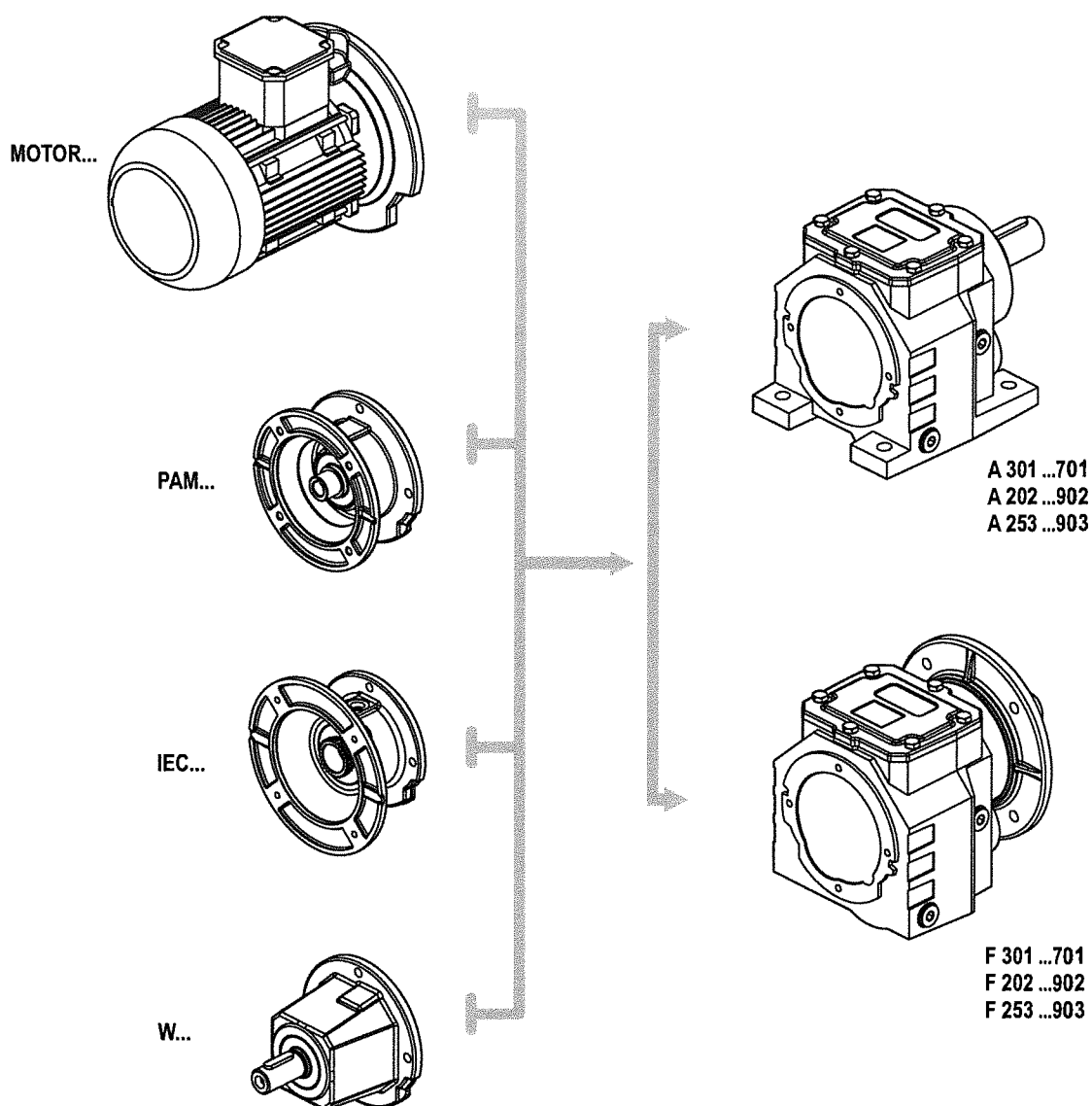
- Compact electric motor versions.
- Ausführungen mit kompakt elektro motoren.
- Versioni con motore elettrico compatto.
- Version avec moteur électrique compact.
- Versión motorreductor compacto.

A / F...W

- Input shaft versions.
- Ausführungen mit antriebsvollwelle.
- Versioni con albero maschio in ingresso.
- Version avec arbre en entrée.
- Versión con eje macho de entrada.

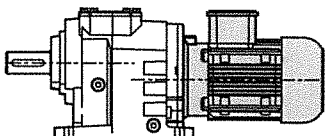
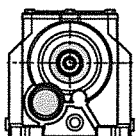
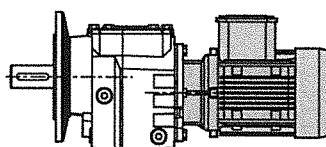
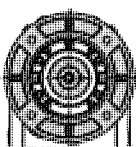
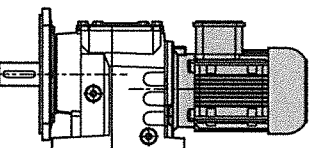
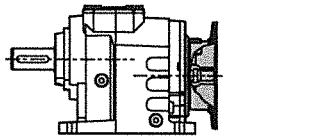
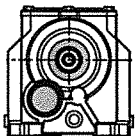
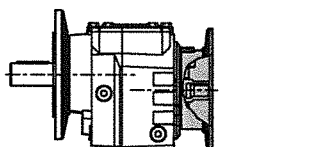
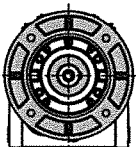
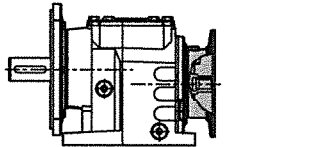
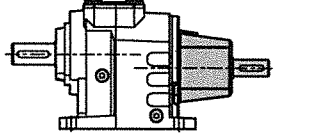
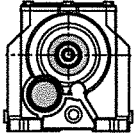
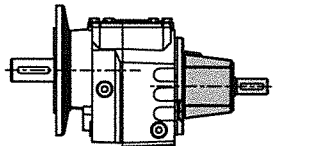
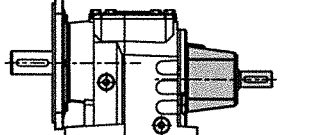
A / F...IEC 100

- Fitted for motor mounting with flexible coupling.
- Prédisposé pour montage moteur avec joint.
- Predisposto per attacco motore con giunto.
- Predisposto para montaje motor con acoplamiento.
- Die Verbindung motor getriebe erfolgt über kupplung.



EN	PRODUCTS	DE	PRODUKTE
IT	PRODOTTI	FR	PRODUITS
ES	PRODUCTOS		

202 - 202 G - 252, 253 - 301, 302, 303 - 351, 352, 353 - 401, 402, 403 - 501, 502, 503 - 601, 602, 603 - 701, 702, 703 - 902, 903

		A... / MOTOR Foot mounting Fußbefestigung Fissaggio piede Fixation à pattes Fijación por patas ON REQUEST
		F... / MOTOR Flange mounting Flanschbefestigung Fissaggio flangia Fixation à bride Fijación por brida ON REQUEST
		AF... / MOTOR Foot-flange mounting Fuß-Flanschbefestigung Fissaggio piede-flangia Fixation à paaes et bride Fijación patas-brida ON REQUEST
		A... / PAM Foot mounting Fußbefestigung Fissaggio piede Fixation à pattes Fijación por patas AVAILABLE IN STOCK
		F... / PAM Flange mounting Flanschbefestigung Fissaggio flangia Fixation à bride Fijación por brida ON REQUEST
		AF... / PAM Foot-flange mounting Fuß-Flanschbefestigung Fissaggio piede-flangia Fixation à paaes et bride Fijación patas-brida ON REQUEST
		A... / W Foot mounting Fußbefestigung Fissaggio piede Fixation à pattes Fijación por patas ON REQUEST
		F... / W Flange mounting Flanschbefestigung Fissaggio flangia Fixation à bride Fijación por brida ON REQUEST
		AF... / W Foot-flange mounting Fuß-Flanschbefestigung Fissaggio piede-flangia Fixation à paaes et bride Fijación patas-brida ON REQUEST

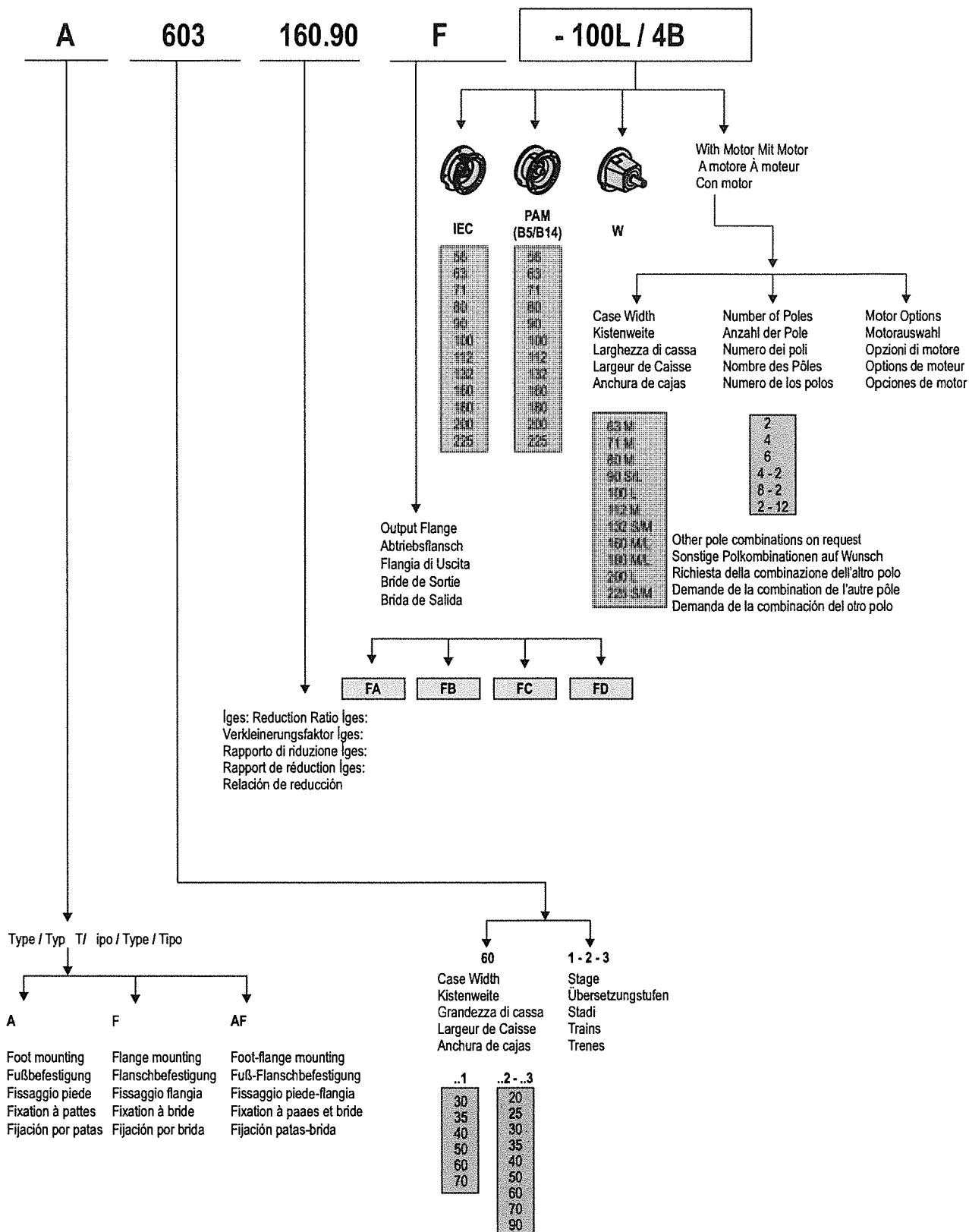
EN EXAMPLE FOR ORDERING

DE BEISPIEL BESTELLBESCHREIBUNG

IT ESEMPIO DI ORDINAZIONE

FR EXEMPLE DE COMMANDE

ES EJEMPLO ORDEN DE COMPRA



EN

DESIGNATION

DE

BEZEICHNUNG

IT

DESIGNAZIONE

FR

DESIGNATION

ES

DESIGNACIÓN

A / F

A / F	Compact geared motor with helical gears (supplied complete with motor) Kompakter stirnradgetriebemotor (mit motor geliefert) Motoriduttore ad ingranaggi cilindrici compatto (fornito completo di motore) Motoréducteur à engrenages cylindriques compact (livré avec moteur) Motorreductor de engranajes cilíndricos compacto (motor y reductor compacto)		
252	Size 25, 2 reduction stages, cast iron series Baugröße 25 - 2 Übersetzungsstufen - Ausführung in grauguss Grandezza 25, 2 stadi di riduzione, serie in ghisa Grandeur 25, 2 trains d'engrenages, série en fonte Tamaño 25, 2 trenes de engranajes, gama de fundición		
FA - FB FC - FD	Output flange Abtriebsflansch Flangia di uscita Bride de sortie Brida de salida		
44.7	Reduction ratio Übersetzungsverhältnis Rapporto di riduzione Rapport de réduction Relación de reducción		
M1	Mounting position Einbaulage Posizione di piazzamento Position de montage Posición de montaje		
Input dimensions / Abmessungen antriebsseitig / Dimensioni di entrata / Dimensions d'entrée / Dimensiones de entrada			
PAM	Fitted for motor coupling Für motoranbau vorbereitet Predisposto per attacco motore Prédisposé pour montage moteur standard Predispuesto para montaje motor		
160	Motor flange diameter Motorflansch - Durchmesser Diametro flangia motore Diamètre bride moteur Diámetro brida motor	14	Drive - shaft diameter Motorwellen - Durchmesser Diametro albero motore Diamètre arbre moteur Diámetro eje motor
Output dimensions / Abmessungen abtriebsseitig / Dimensioni di uscita / Dimensions de sortie / Dimensiones de salida			
200	Output flange diameter Durchmesser Abtriebsflansch Diametro flangia uscita Diamètre de la bride de sortie Diámetro brida de salida	25	Output shaft diameter Durchmesser abtriebswelle Diametro albero uscita Diamètre de l'arbre de sortie Diámetro eje de salida

EN NOMENCLATURE

DE NOMENKLATUR

IT NOMENCLATURA

FR NOMENCLATURE

ES NOMENCLATURA

Input Options Eingabeoptionen opzioni di ingresso options d'entrée opciones de entrada	W = Input shaft versions / Ausführungen mit antriebsvollwelle / Versioni con albero maschio in ingresso / Version avec arbre en entrée / Versión con eje macho de entrada. IEC = Fitted for motor mounting with flexible coupling. Die Verbindung Motor Getriebe erfolgt über Kupplung. / Predisposto per attacco motore con giunto. Prédisposé pour montage moteur avec joint. / Predisposto para montaje motor con acoplamiento. PAM = Fitted for motor coupling / Für motoranbau vorbereitet / Predisposto per attacco motore Prédisposé pour montage moteur standard / Predisposto para montaje motor
Motor Motor Motore Moteur Motor	Three phase motor Motor size 63 - 225 / Drehstrommotor Motorgröße 63 - 225 / Motori trifase, Grandezze 63 - 225 Motore thriphasé, taille moteur 63 - 225 / Motores trifásicos, Tamaño de carcasas 63 - 225
	Per la scelta dei motori vedere specifica catalogo Chiaravalli Group SpA.

EN ACCESSORIES

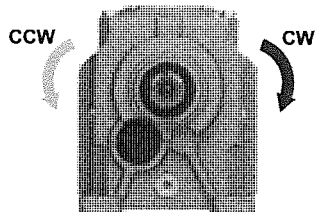
DE ZUBEHÖR

IT ACCESSORI

FR ACCESSOIRES

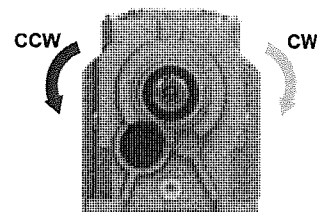
ES ACCESORIOS

1-3 Stage / 1-3 Übersetzungsstufen / 1-3 Stadi
1-3 Trains / 1-3 Trenes



Output side / Ausgangseite / Lato uscita
Côté sortie / Lado de salida

2 Stage / 2 Übersetzungsstufen / 2 Stadi
2 Trains / 2 Trenes



Output side / Ausgangseite / Lato uscita
Côté sortie / Lado de salida

Backstop device

The gear reducer can be supplied with backstop device on input shaft. Backstop device allows output shaft rotation in only one sense of direction; according to the size, it is available in the input flange or in the motor with the same dimensions. It is important to specify the required sense of direction on the order.

Rücklaufsperre

Das Getriebe ist mit Rücklaufsperre auf der Antriebswelle erhältlich. Die Rücklaufsperre verhindert die Rotation in die falsche Drehrichtung. Entsprechend der Größe ist sie im Antriebsflansch oder dem Motor integriert. Wichtig ist die Angabe der gewünschten abtriebsdrehrichtung.

Dispositivo antiretro

Il riduttore può essere fornito munito di dispositivo antiretro sull'asse veloce. L'antiretro permette la rotazione degli alberi in un solo senso, a seconda della grandezza è disponibile nella flangia PAM oppure nel motore, senza ingombri aggiuntivi. E' molto importante, in fase di ordine, specificare il senso di rotazione richiesto.

Système antidéviour

Le réducteur de vitesse peut être fourni avec le dispositif anti-retour sur l'axe d'entrée. Le dispositif anti retour permet la rotation des arbres de sortie dans un seul sens; selon la taille, il est disponible dans la bride d'entrée ou dans le moteur avec les mêmes dimensions. Il est important de spécifier le sens de la direction demandé sur l'ordre.

Dispositivo antirretomo

El reductor puede suministrarse con un dispositivo antirretomo en el eje veloz. El antirretomo permite la rotación de los ejes en un solo sentido, según el tamaño está disponible en la brida PAM o en el motor, sin incremento de dimensiones. Es muy importante especificar en el pedido el sentido de rotación requerido.

Motor	063	071	080	090	100 - 112	132	160	180	200	225
Size Grösse Grandezza Taille Tamaño	140x11	160x14	200x19	200x24	250x28	300x38	350x42	350x48	400x55	450x60
202	B5/B14	B5/B14								
202 G	B5/B14	B5/B14	B5/B14	B5/B14						
252		B5/B14	B5/B14	B5/B14	B5/B14					
253	B5/B14	B5/B14	B5/B14	B5/B14						
302		B5/B14	B5/B14	B5/B14	B5/B14					
303	B5/B14	B5/B14	B5/B14	B5/B14						
352		B5/B14	B5/B14	B5/B14	B5/B14					
353	B5/B14	B5/B14	B5/B14	B5/B14						
402			B5/B14	B5/B14	B5/B14	B5/B14				
403		B5/B14	B5/B14	B5/B14	B5/B14					
502			B5/B14	B5/B14	B5/B14	B5/B14	B5			
503			B5/B14	B5/B14	B5/B14	B5/B14				
602					B5/B14	B5/B14	B5	B5		
603				B5/B14	B5/B14	B5/B14	B5			
702						B5/B14	B5	B5	B5	
703					B5/B14	B5/B14	B5	B5	B5	
902							B5	B5	B5	B5
903						B5/B14	B5	B5	B5	

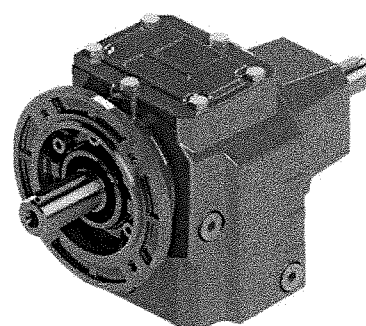
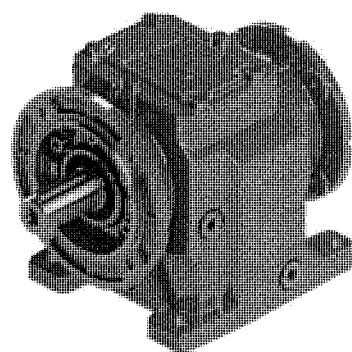
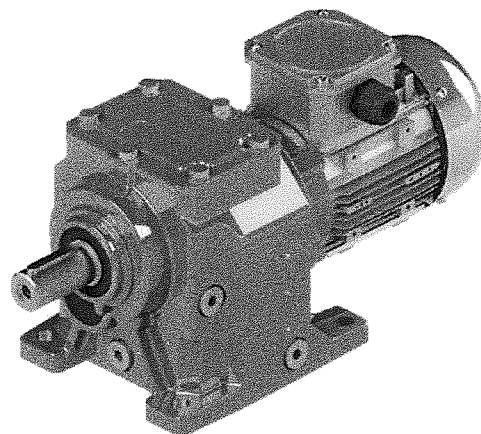
Dimension Tables

Maßtabellen

Tabelle Dimensionali

Tables De Dimension

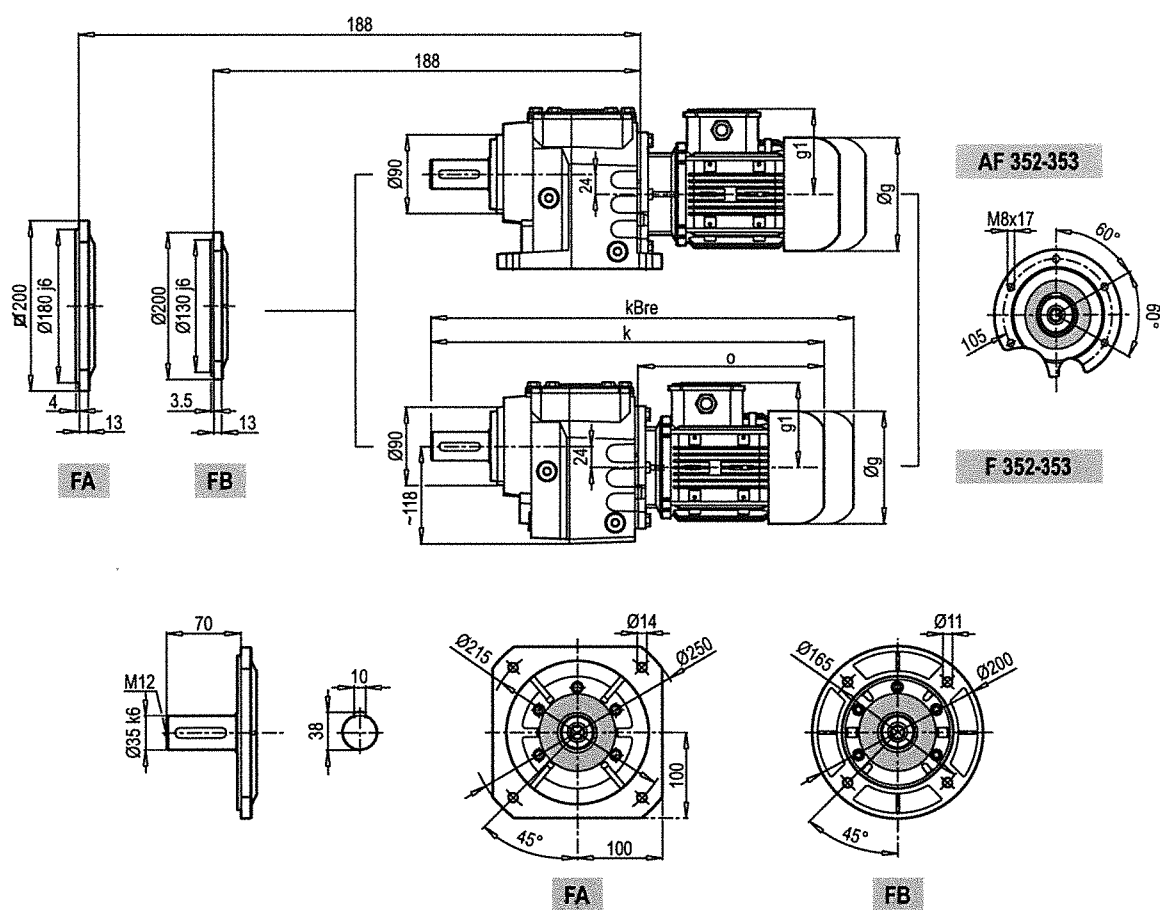
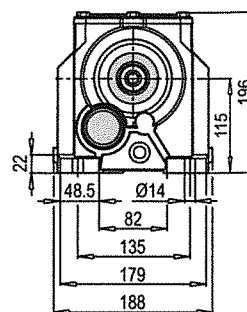
Tablas De Dimensiones



A/F

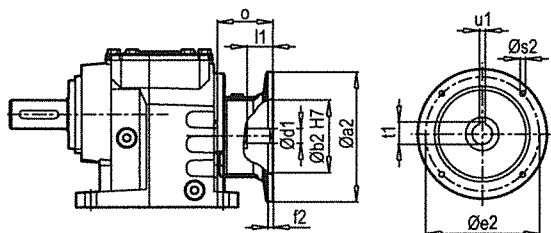
A/F 352 ... 902

A/F 353 ... 903

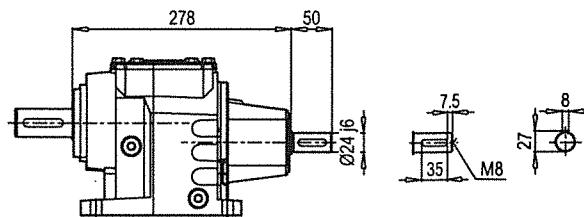


	63 M	71 M	80 M	90 S	90 L	100 L	112 M	
g	124	140	159	193	193	217	232	
g ¹	111	119	127	151	151	160	168	
k	470	499	525	571	591	592	651	
kBre	522	559	587	644	664	673	731	--
o	212	241	267	313	333	334	393	

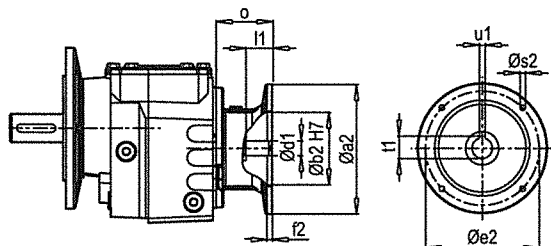
A 352-353 PAM B5/B14



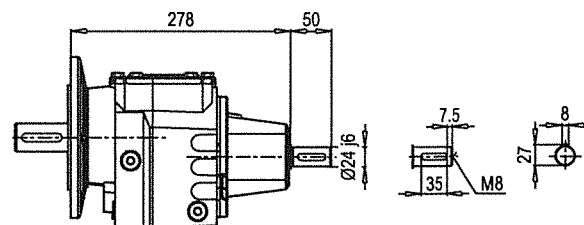
A 352-353 W



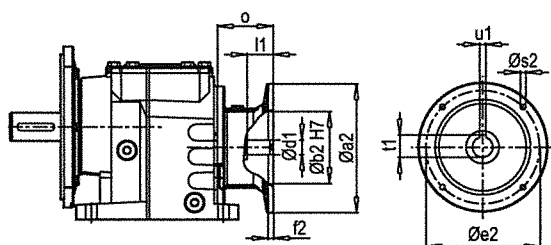
F 352-353 PAM B5/B14



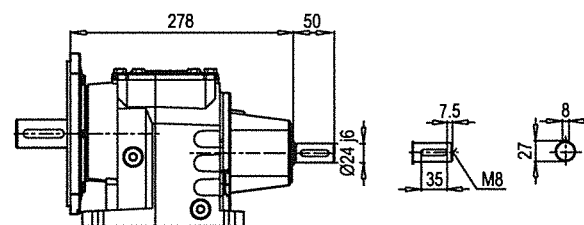
F 352-353 W



AF 352-353 PAM B5/B14



AF 352-353 W



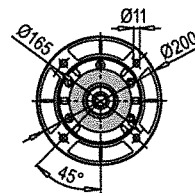
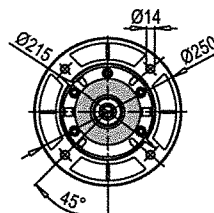
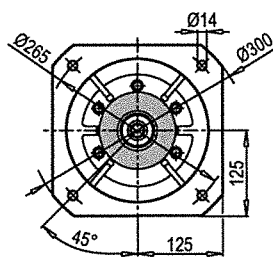
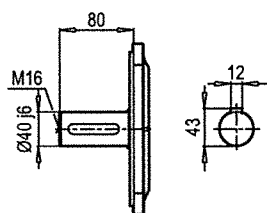
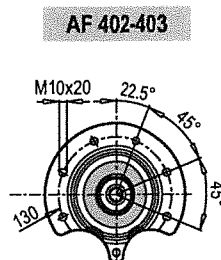
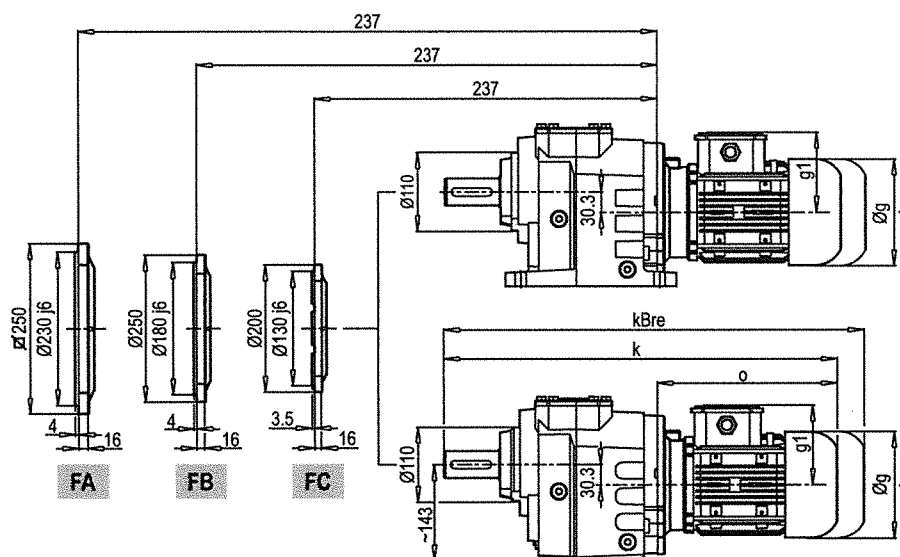
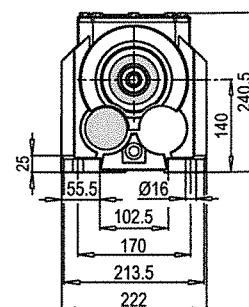
W ~ Kg	
A/F 352-353	22

Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 352 A/F 353	63	140	95	115	4.5	M8	11	25	12.8	4	57
	71	160	110	130	5	M8	14	32	16.3	5	69
	80	200	130	165	5	M10	19	42	21.8	6	90
	90	200	130	165	5	M10	24	52	27.3	8	90
	100	250	180	215	5.5	M12	28	62	31.3	8	105
	112	250	180	215	5.5	M12	28	62	31.3	8	105

~ Kg	
PAM B5	A/F 352-353
63	20
71	21
80	22
90	22
100	26
112	26

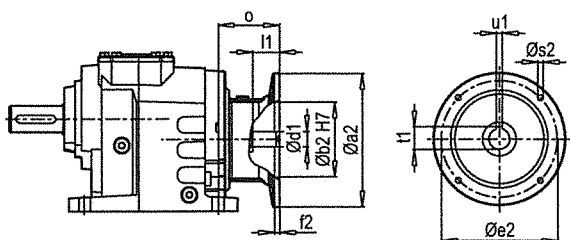
Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 352 A/F 353	63	90	60	75	2.5	6	11	25	12.8	4	57
	71	105	70	85	2.5	7	14	32	16.3	5	69
	80	120	80	100	3	7	19	42	21.8	6	90
	90	140	95	115	3	9	24	52	27.3	8	90
	100	160	110	130	3.5	9	28	62	31.3	8	105
	112	160	110	130	3.5	9	28	62	31.3	8	105

~ Kg	
PAM B14	A/F 352-353
63	19
71	20
80	21
90	21
100	23
112	23

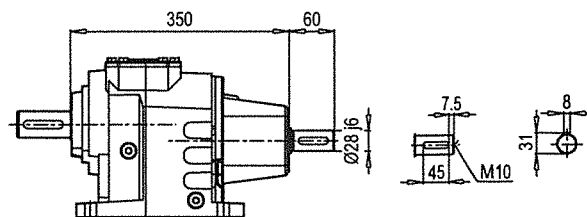
[illegible]

	71 M	80 M	90 S	90 L	100 L	112 M	132 S	132 M
g	140	159	193	193	217	232	279	279
g¹	119	127	151	151	160	168	182	182
k	538 (528)	564 (554)	610 (600)	630 (620)	653 (643)	706 (696)	713 (703)	748 (738)
kBre	598 (588)	626 (616)	683 (673)	703 (693)	734 (724)	786 (776)	821 (811)	889 (879)
o	221	247	293	313	336	389	396	431

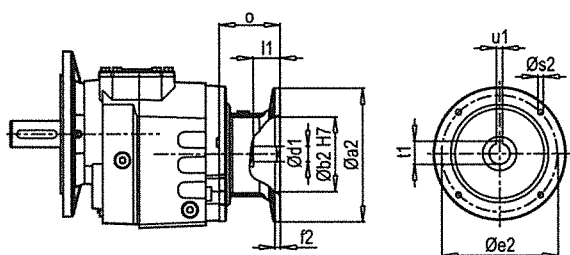
A 402-403 PAM B5/B14



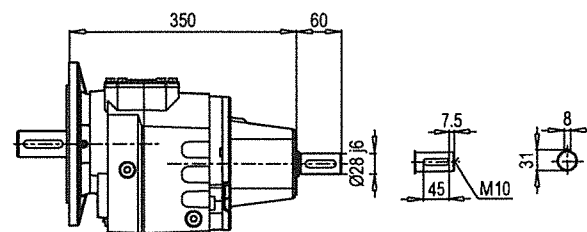
A 402-403 W



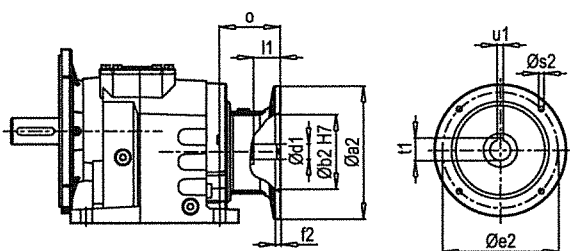
F 402-403 PAM B5/B14



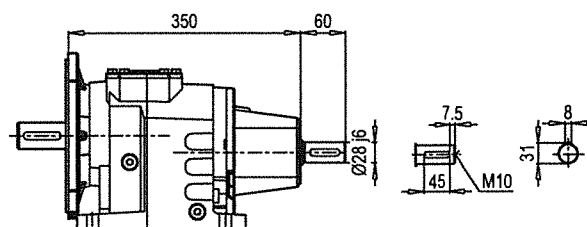
F 402-403 W



AF 402-403 PAM B5/B14



AF 402-403 W



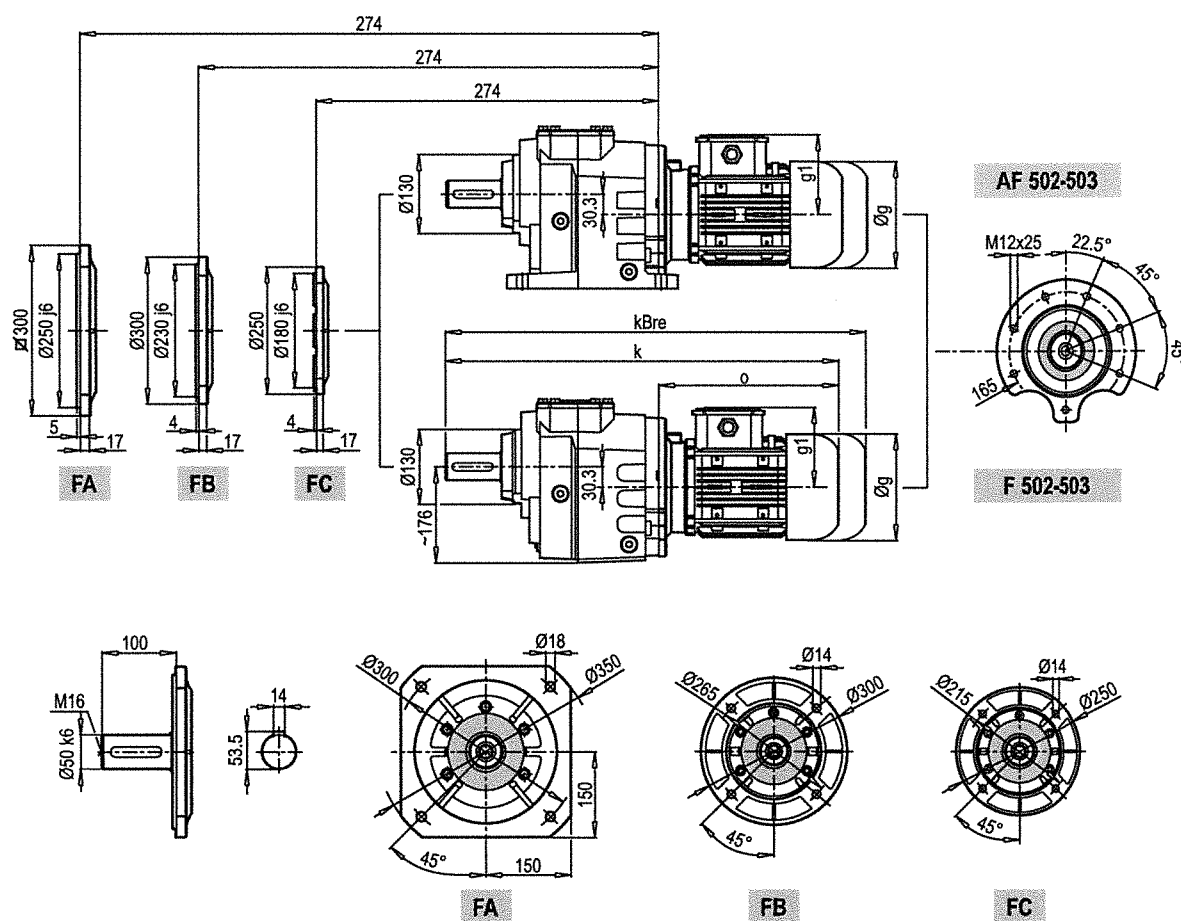
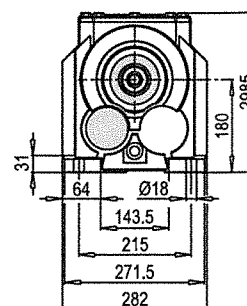
W ~ Kg	
A/F 402-403	37

Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 402 A/F 403	71	160	110	130	5	M8	14	32	16.3	5	49
	80	200	130	165	5	M10	19	42	21.8	6	70
	90	200	130	165	5	M10	24	52	27.3	8	70
	100	250	180	215	5.5	M12	28	62	31.3	8	85
	112	250	180	215	5.5	M12	28	62	31.3	8	85
	132	300	230	265	5.5	M12	38	82	41.3	10	110

~ Kg	
PAM B5	A/F 402-403
71	32
80	35
90	35
100	37
112	37
132	41

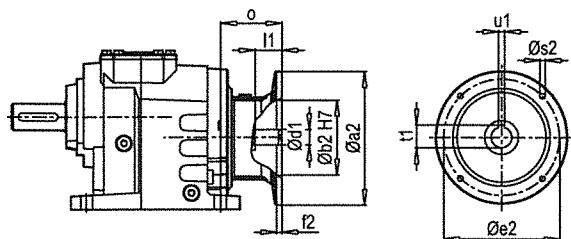
Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 402 A/F 403	71	105	70	85	2.5	7	14	32	16.3	5	49
	80	120	80	100	3	7	19	42	21.8	6	70
	90	140	95	115	3	9	24	52	27.3	8	70
	100	160	110	130	3.5	9	28	62	31.3	8	85
	112	160	110	130	3.5	9	28	62	31.3	8	85
	132	200	130	165	3.5	11	38	82	41.3	10	110

~ Kg	
PAM B14	A/F 402-403
71	30
80	31
90	31
100	32
112	32
132	38

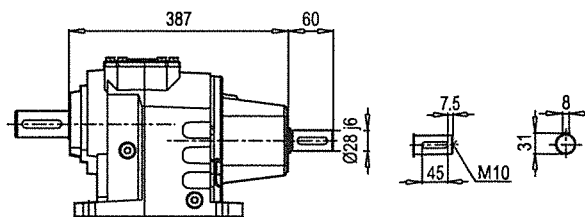
[illegible]

	80 M	90 S	90 L	100 L	112 M	132 S	132 M	160 M/L
g	159	193	193	217	232	279	279	323
g ¹	127	151	151	160	168	182	182	200
k	621 (601)	667 (647)	687 (667)	710 (690)	763 (743)	770 (750)	805 (785)	892 (872)
kBre	683 (663)	740 (720)	760 (740)	791 (771)	843 (823)	878 (858)	946 (926)	1044 (1024)
o	247	293	313	336	389	396	431	518

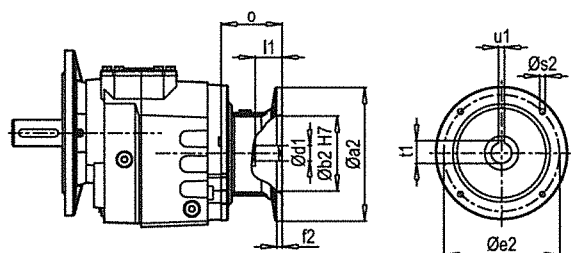
A 502-503 PAM B5/B14



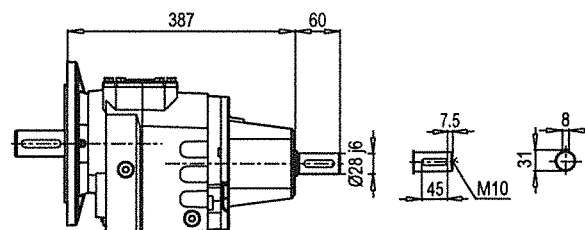
A 502-503 W



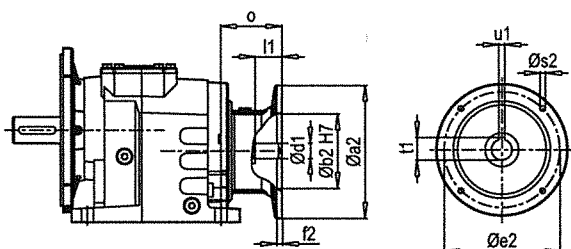
F 502-503 PAM B5/B14



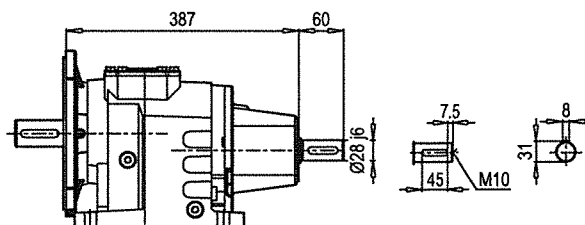
F 502-503 W



AF 502-503 PAM B5/B14



AF 502-503 W



W ~ Kg	
A/F 502-503	54

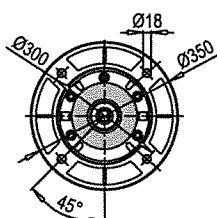
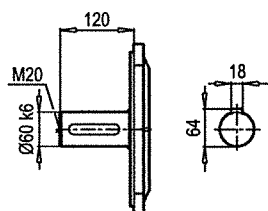
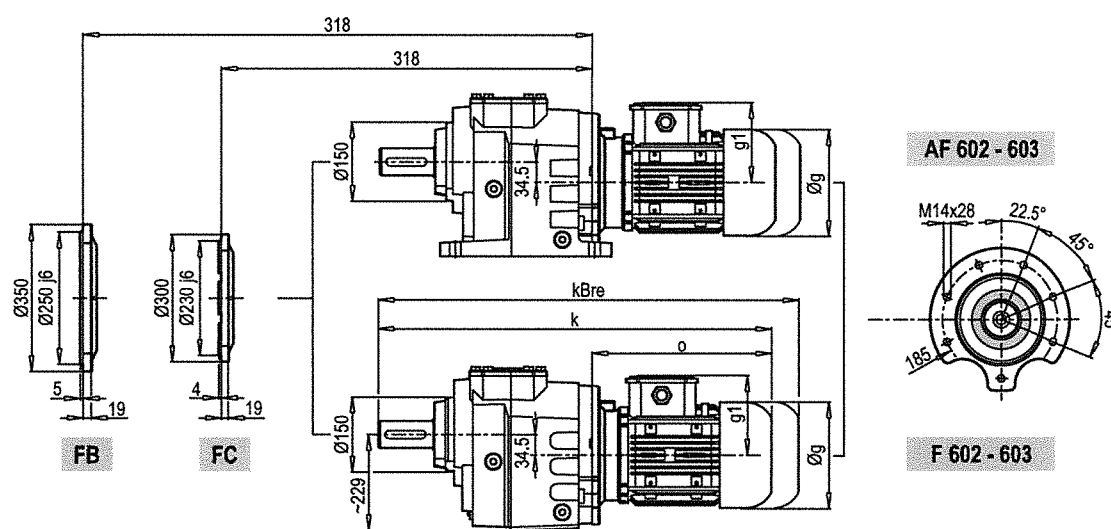
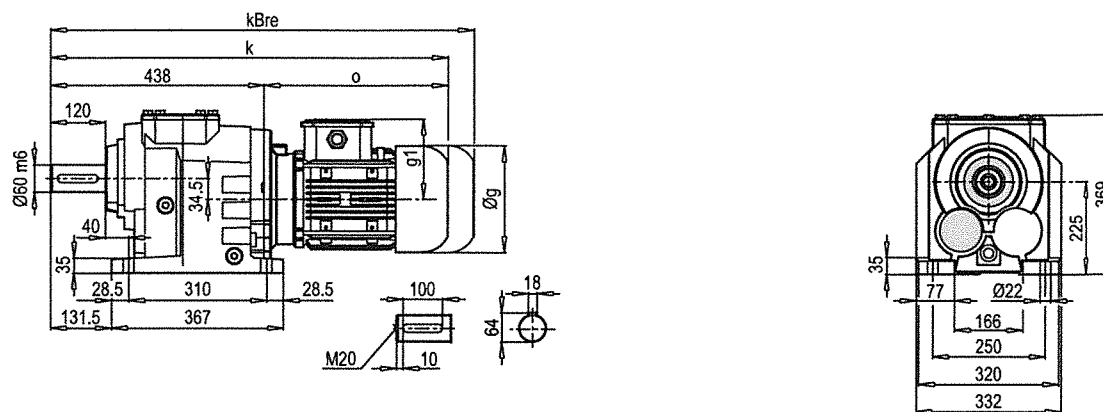
Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 502 A/F 503	80	200	130	165	5	M10	19	42	21.8	6	70
	90	200	130	165	5	M10	24	52	27.3	8	70
	100	250	180	215	5.5	M12	28	62	31.3	8	85
	112	250	180	215	5.5	M12	28	62	31.3	8	85
	132	300	230	265	5.5	M12	38	82	41.3	10	110
	160	350	250	300	7	M16	42	112	45.3	12	158

~ Kg	
PAM B5	A/F 502-503
80	52
90	52
100	54
112	54
132	58
160	65

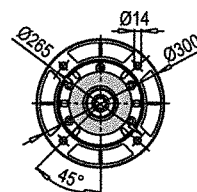
Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 502 A/F 503	80	120	80	100	3	7	19	42	21.8	6	70
	90	140	95	115	3	9	24	52	27.3	8	70
	100	160	110	130	3.5	9	28	62	31.3	8	85
	112	160	110	130	3.5	9	28	62	31.3	8	85
	132	200	130	165	3.5	11	38	82	41.3	10	110

~ Kg	
PAM B14	A/F 502-503
80	48
90	48
100	50
112	50
132	55

A 602 - 603



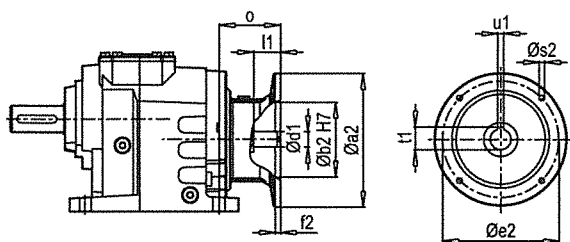
FB



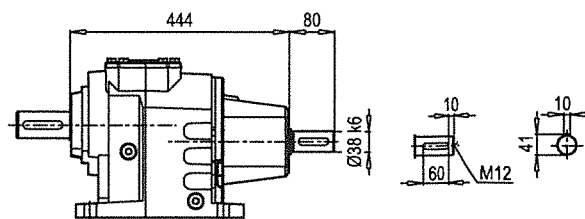
FC

	90 L	100 L	112 M	132 S	132 M	160 M/L	180 M/L	
g	193	217	232	279	279	323	370	
g1	151	160	168	182	182	200	248	
k	741	764	818	824	859	946	1011	
kBre	814	845	898	932	1000	1098	1173	
o	303	326	380	386	421	508	573	

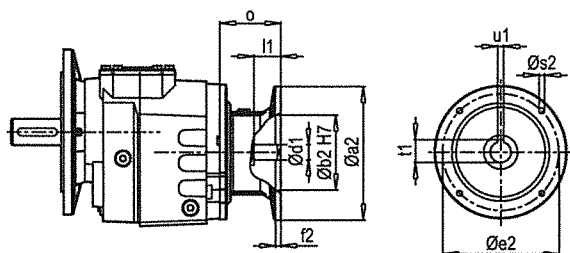
A 602-603 PAM B5/B14



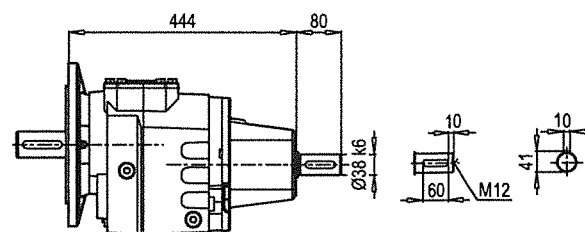
A 602-603 W



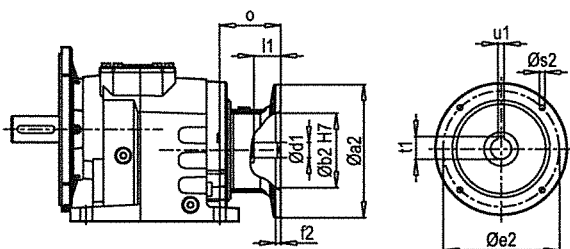
F 602-603 PAM B5/B14



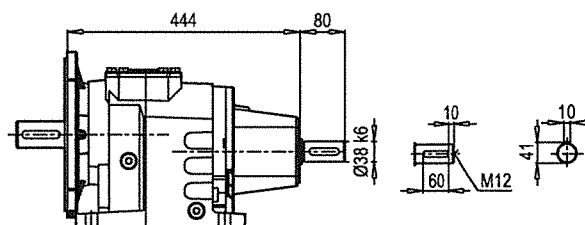
F 602-603 W



AF 602-603 PAM B5/B14



AF 602-603 W



W ~ Kg	
A/F 602-603	90

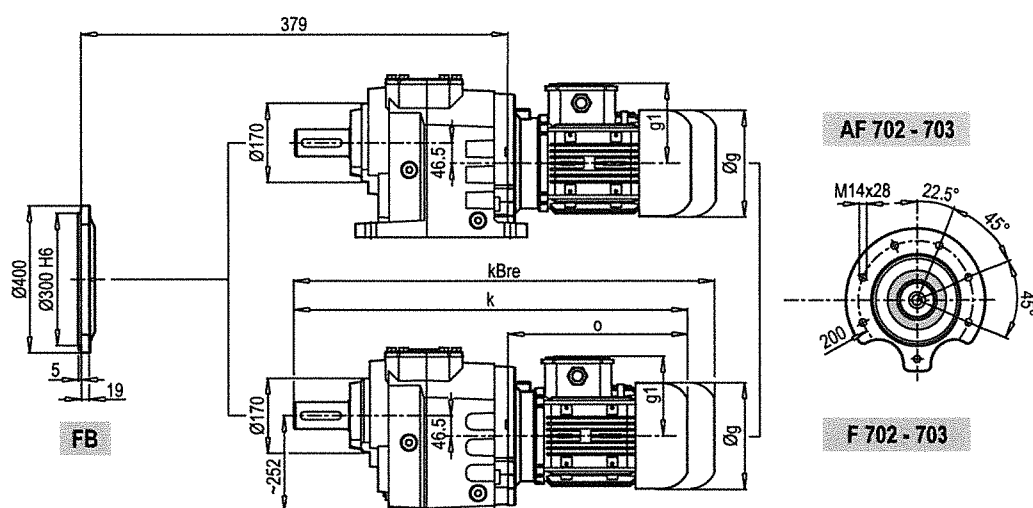
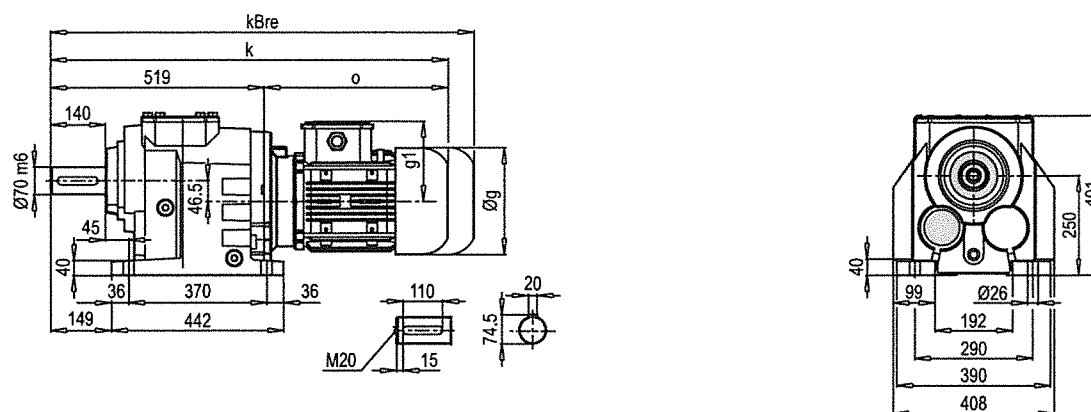
Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 602 A/F 603	90	200	130	165	5	M10	24	52	27.3	8	61
	100	250	180	215	5.5	M12	28	62	31.3	8	76
	112	250	180	215	5.5	M12	28	62	31.3	8	76
	132	300	230	265	5.5	M12	38	82	41.3	10	101
	160	350	250	300	7	M16	42	112	45.3	12	148
	180	350	250	300	7	M16	48	112	51.8	14	148

~ Kg	
PAM B5	A/F 602-603
90	81
100	85
112	85
132	88
160	94
180	94

Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 602 A/F 603	90	140	95	115	3	9	24	52	27.3	8	61
	100	160	110	130	3.5	9	28	62	31.3	8	76
	112	160	110	130	3.5	9	28	62	31.3	8	76
	132	200	130	165	3.5	11	38	82	41.3	10	101

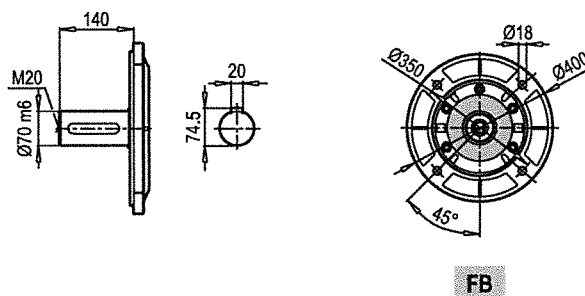
~ Kg	
PAM B14	A/F 602-603
90	78
100	80
112	80
132	86

A 702 - 703



AF 702 - 703

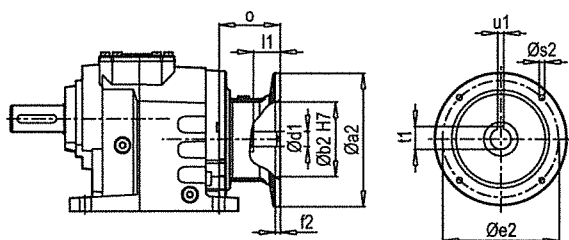
F 702 - 703



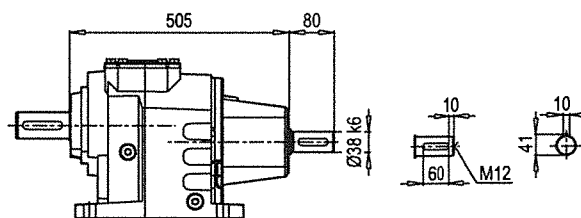
FB

	100 L	112 M	132 S	132 M	160 M/L	180 M/L	200 L	
g	217	232	279	279	323	370	415	
g1	160	168	182	182	200	248	260	
k	845	899	905	940	1027	1092	1129	
kBre	926	979	1013	1081	1179	1254	1276	
o	326	380	386	421	508	573	610	

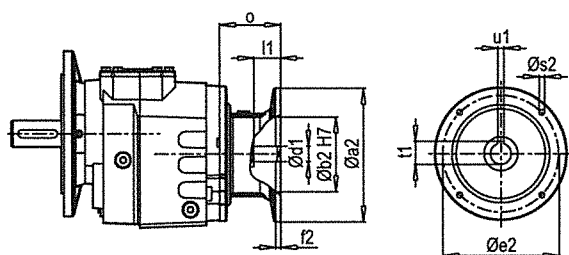
A 702-703 PAM B5/B14



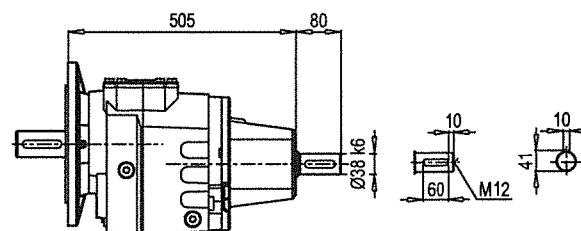
A 702-703 W



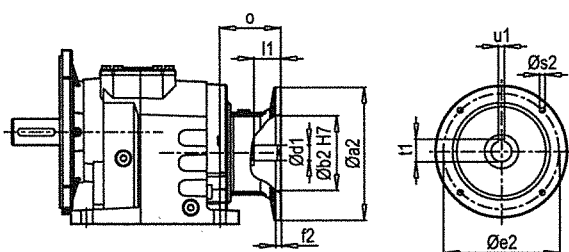
F 702-703 PAM B5/B14



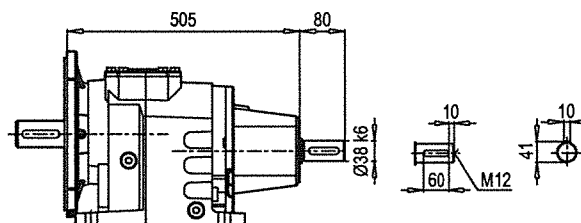
F 702-703 W



AF 702-703 PAM B5/B14



AF 702-703 W



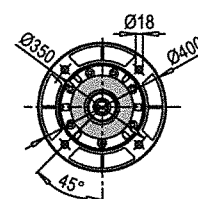
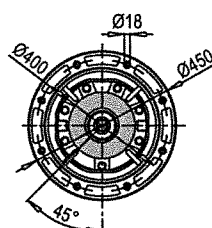
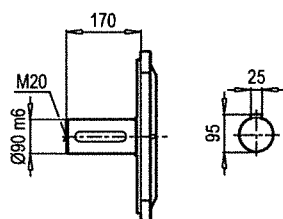
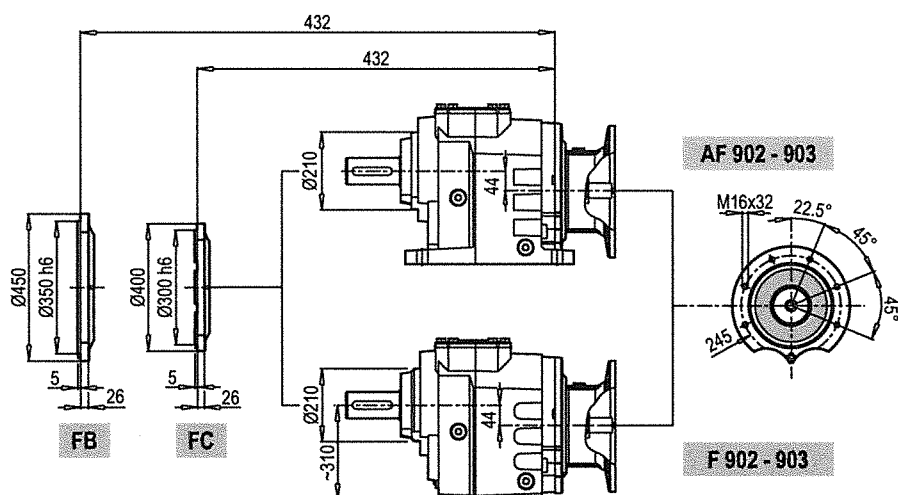
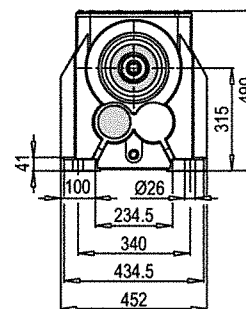
W ~ Kg	
A/F 702-703	119

Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 702 A/F 703	100	250	180	215	5.5	M12	28	62	31.3	8	76
	112	250	180	215	5.5	M12	28	62	31.3	8	76
	132	300	230	265	5.5	M12	38	82	41.3	10	101
	160	350	250	300	7	M16	42	112	45.3	12	148
	180	350	250	300	7	M16	48	112	51.8	14	148
	200	400	300	350	7	M16	55	112	59.3	16	185

~ Kg	
PAM B5	A/F 702-703
100	114
112	114
132	117
160	123
180	123
200	139

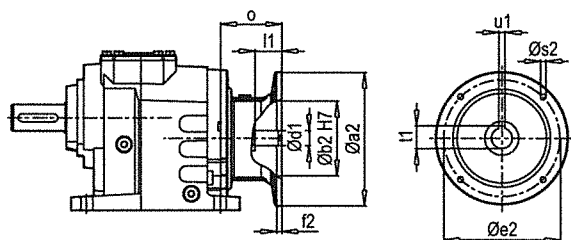
Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 702 A/F 703	100	160	110	130	3.5	9	28	62	31.3	8	76
	112	160	110	130	3.5	9	28	62	31.3	8	76
	132	200	130	165	3.5	11	38	82	41.3	10	101

~ Kg	
PAM B14	A/F 702-703
100	100
112	100
132	115

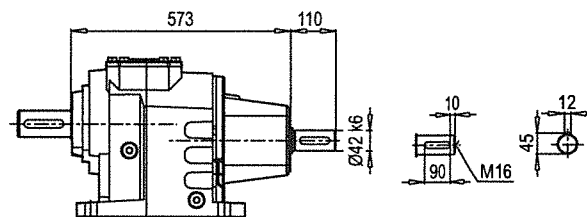
[illegible]

	132	160	180	200	225			
a2	300	350	350	400	450			
b2	230	250	250	300	350			
d1	38	42	48	55	60			
f2	5.5	7	7	7	7			
L	82	112	112	112	142			
u1	10	12	14	16	18			
t1	41.3	45.3	51.8	59.3	64.4			
o	76	124	124	161	161			

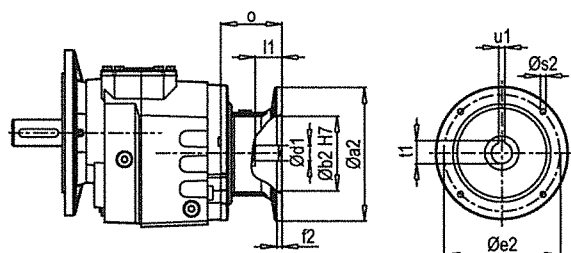
A 902-903 PAM B5/B14



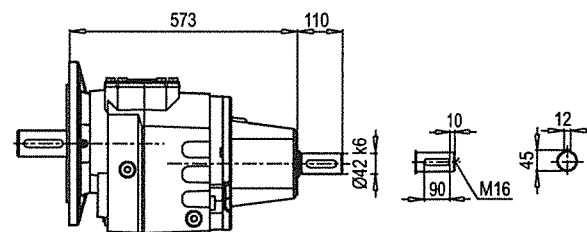
A 902-903 W



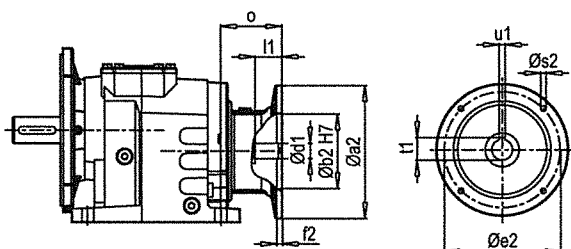
F 902-903 PAM B5/B14



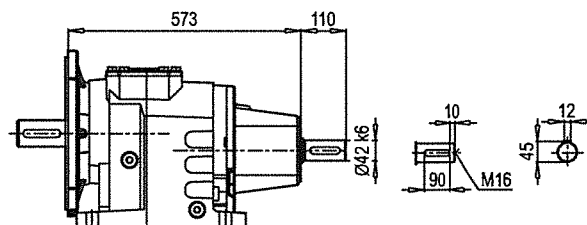
F 902-903 W



AF 902-903 PAM B5/B14



AF 902-903 W



W ~ Kg	
A/F 902-903	195

Typ / Type Tip / Tipo Type / Tipo	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 902 A/F 903	132	300	230	265	5.5	M12	38	82	41.3	10	76
	160	350	250	300	7	M16	42	112	45.3	12	124
	180	350	250	300	7	M16	48	112	51.8	14	124
	200	400	300	350	7	M16	55	112	59.3	16	161
	225	450	350	400	7	M16	60	142	64.4	18	161

~ Kg	
PAM B5	A/F 902-903
132	182
160	190
180	190
200	205
225	208

Typ / Type Tip / Tipo Type / Tipo	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
A/F 903	132	200	130	165	3.5	11	38	82	41.3	10	76

~ Kg	
PAM B14	A/F 903
132	175