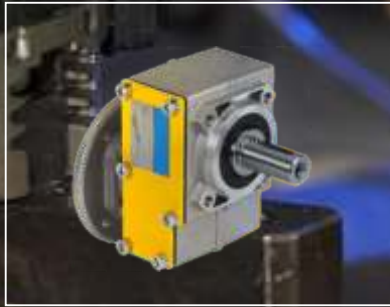


Coaxial - *Gears*

Cat.: CT-RCM-WO-HM009

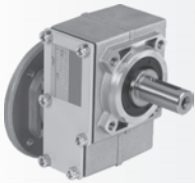
Coaxial gearboxes
Riduttori Coassiali



Made in Italy

HYDRO · MEC

One Step-Gear



Compact aluminum in line gearboxes with one stage of reduction.

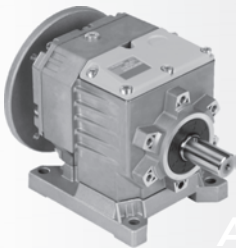
Riduttori coassiali in alluminio con uno stadio di riduzione.

See technical data table.

Vedi tabelle dati tecnici.

Paragraph 4

Coaxial-Gear



Aluminum

Compact aluminum in line gearboxes with two or three stages of reduction.

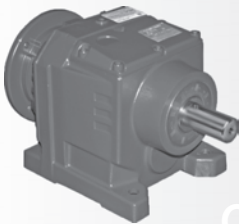
Riduttori coassiali in alluminio con due o tre stadi di riduzione.

See technical data table.

Vedi tabelle dati tecnici.

Paragraph 5

Coaxial-Gear



Cast iron

Cast iron in line gearboxes with two or three stages of reduction.

Riduttori coassiali in ghisa con due o tre stadi di riduzione.

See technical data table.

Vedi tabelle dati tecnici.

Paragraph 6

Compact-Gear



Aluminum and cast iron shaft mounted gearboxes with two or three stages of reduction.

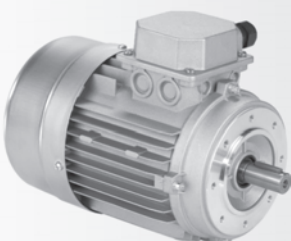
Riduttori pendolari in alluminio e ghisa con due e tre stadi di riduzione.

See technical data table.

Vedi tabelle dati tecnici.

Paragraph 7

Aluminum electric motors



Metric electric motors are in aluminum. On request they can be supplied with different Level of protection and painted with 2 or 3 level of anticorrosive paint.

I motori metrici sono in alluminio, su richiesta possono essere forniti con differenti livelli di protezione e verniciati con vernice anticorrosiva.

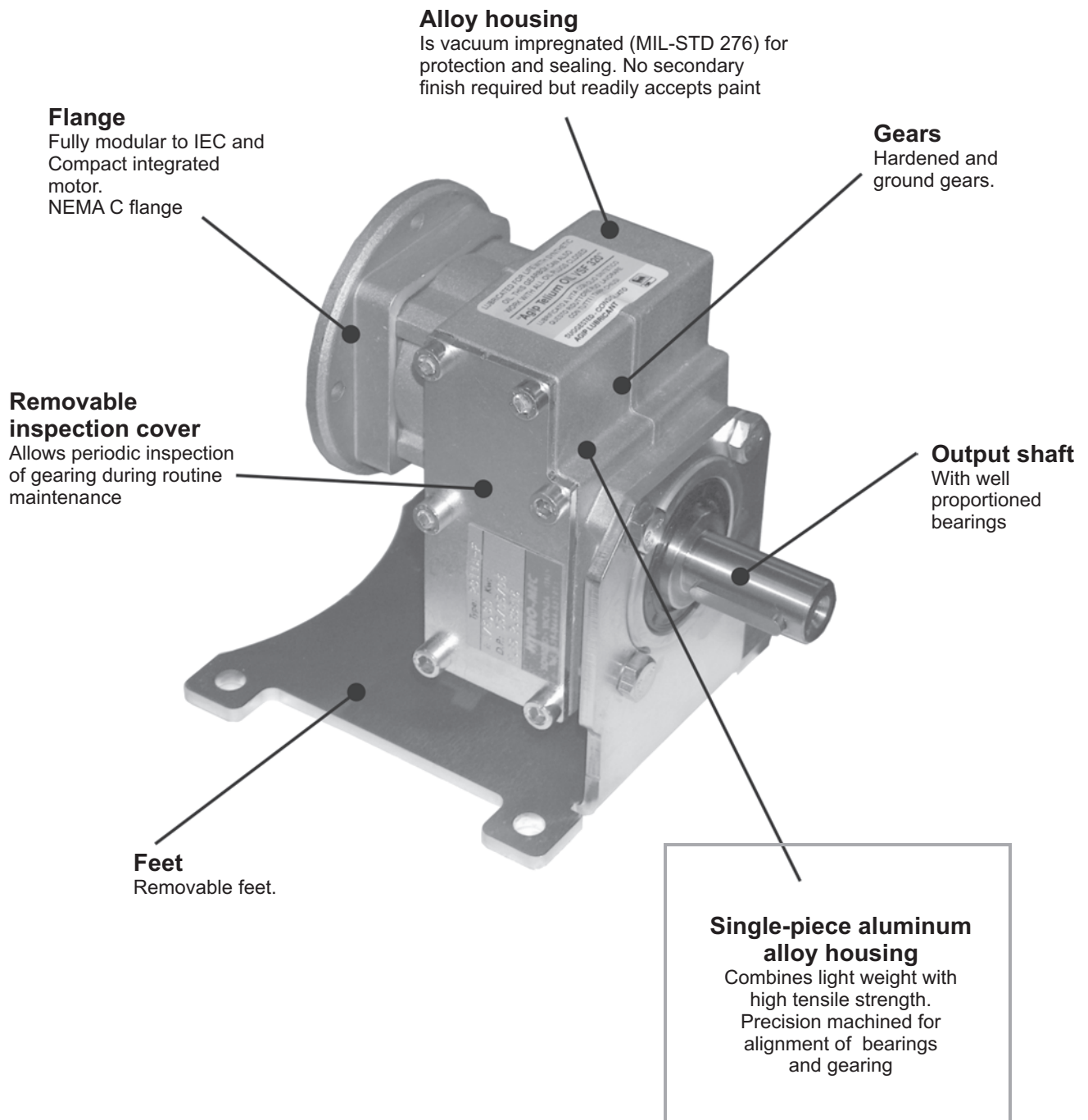
See technical data table.

Vedi tabelle dati tecnici.

Pag. M-1 ÷ M-2

Aluminum one step gearboxes

A modular and compact product

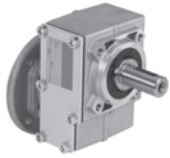


World wide sales network.

Lubricated for life with synthetic oil with operative range from -15° to $+130^{\circ}\text{C}$



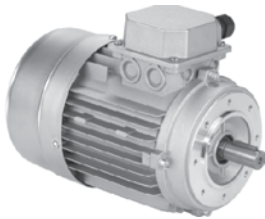
On page / A pagina / Auf Seite / En la página



Types / Tipi /
Arten / Tipos →

4-5	4-7	4-9	4-11
211A 20Nm	311A 30Nm	411A 38Nm	511A 118Nm

On page / A pagina / Auf Seite / En la página



Types / Tipi /
Arten / Tipos →

M-1														
56A	56B	63A	63B	71A	71B	80A	80B	90S	90L	100LA	100LB	112M	132S	132M

For : / Per : / Für : / Para :

Selection guide - fs
Guida alla selezione

Mounting pos. - Lubrication
Pos. di montaggio - lubrificazione

2 - 6 poles selection
Selezione 2 - 6 poli

Radial - axial loads
Carichi radiali e assiali

Reversibility
Reversibilità

Thermal limit
Limite termico

Atex certification
Certificazione Atex

Accessories
Accessori

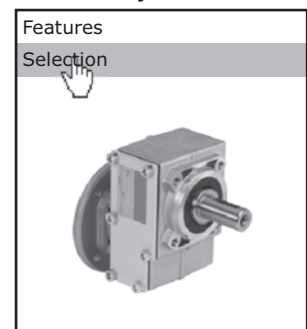
Download 3D drawings
Download disegni 3D

Interchangeability
Intercambiabilità

Installation and maintenance
Installazione, uso e manutenzione

Spare parts list
Liste parti di ricambio

See on our web site
www.hydromec.com
just click on the product
family button



Type - Tipo - Typ - Tipo

Size - Grandezza
Grösse - Tomaño

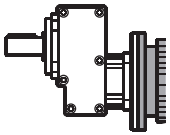
Mounting - Montaggio - Montage - Tipo de montaje

P

311A

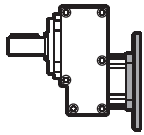
H1

Aluminum one step gear
Riduttori in alluminio a uno stadio



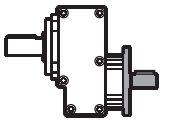
With IEC motor

M



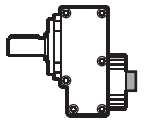
With motor flange

P



With male input shaft

R

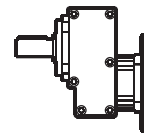


Modular Base

B

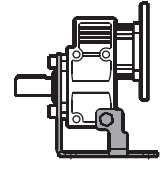
1 Stages
Riduzioni
Stufen
Etapas

211A
311A
411A
511A



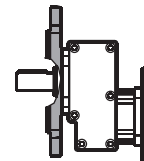
Without flange / feet

-N



Mounted feet

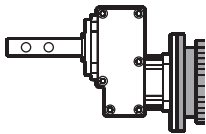
H1



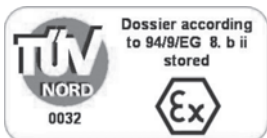
Output flange mounted

-F

Special output shaft
Albero uscita speciale



Only on request for Q.ty
A richiesta per quantità



A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Ratio - Rapporto
Untersetzung
Relación

Output shaft
Albero uscita
Abtriebswelle
Eje en salida

Output flange
Flangia uscita
Ausgangsflansch
Brida en salida

Motor size
Grandezza motore
Motor Grösse
Tamaño motor

Terminal box position
Posizione morsetti
Klemmkastenlage
Posición caja de bornes

Mounting position
Posizione montaggio
Einbaulage
Position de montaje

2.84

S

2

C

B

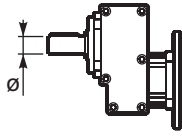
B3

See technical
data table

Vedi tabelle dati
tecnici.

Technisches
Datenblatt
beachten.

Ver tabla datos
técnicos



→ STANDARD

211A

S → **∅14**

311A

S → **∅14**

C → **∅19**

E → **∅24**

411A

S → **∅14**

C → **∅19**

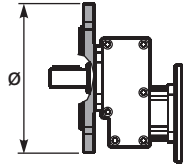
E → **∅24**

511A

C → **∅19**

E → **∅24**

G → **∅28**



N Senza flangia
Without flange

311A

1 → **∅120**

2 → **∅140**

3 → **∅160**

4 → **∅200**

411A

1 → **∅120**

2 → **∅140**

3 → **∅160**

4 → **∅200**

511A

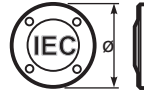
2 → **∅140**

3 → **∅160**

4 → **∅200**

5 → **∅250**

Standard Flange
Flangia Standard



B5

A=56
(∅120)

B=63
(∅140)

C=71
(∅160)

D=80
(∅200)

E=90
(∅200)

F=100+112
(∅250)

B14

O=56
(∅80)

P=63
(∅90)

Q=71
(∅105)

R=80
(∅120)

T=90
(∅140)

U=100+112
(∅160)

V=132
(∅200)

Reduced flange / Flangia ridotta

411A

1 → **∅19**
(71B5)

2 → **∅24**
(80B5)

211A
311A

5 → **∅11**
(56B5)

6 → **∅14**
(63B5)

7 → **∅19**
(63B5)

3 → **∅28**
(90B5)

511A

5 → **∅24**
(80B5)

6 → **∅28**
(90B5)

Type R / Tipo R

211A
311A

1 → **∅14**

411A

2 → **∅19**

Without flange / Senza flangia

211A
311A

Z → **∅9**
(56B5)

0 → **∅11**
(63B5)

1 → **∅14**
(71B5)

511A

2 → **∅19**
(80B5)

3 → **∅24**
(90B5)

4 → **∅28**
(100B5)

→ STANDARD



A



B

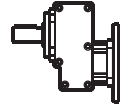
STANDARD



C



D



B3

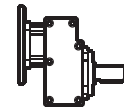
STANDARD



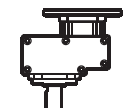
B6



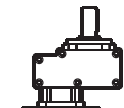
B7



B8



V5



V6

Specify only for
vertical positions

Specificare solo per
posizione verticale

POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / elevación

$$P \text{ [KW]} = \frac{M \text{ [Kg]} \cdot g \text{ [9.81]} \cdot v \text{ [m / s]}}{1000}$$

Rotation / rotazione / drehung / rotation

$$P \text{ [KW]} = \frac{M \text{ [Nm]} \cdot n \text{ [rpm]}}{9550}$$

Linear movement / traslazione / linearbewegung / translacion

$$P \text{ [KW]} = \frac{F \text{ [N]} \cdot v \text{ [m / s]}}{1000}$$

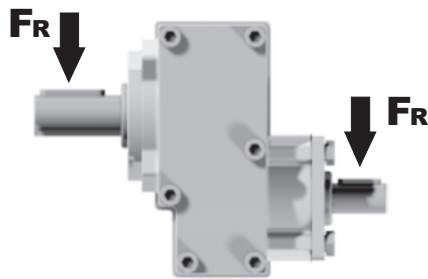
TORQUE / COPPIA / DREHMOMENT / PAR

$$M \text{ [Nm]} = \frac{9550 \cdot P \text{ [KW]}}{n \text{ [rpm]}}$$

$$M \text{ [lb in]} = \frac{63030 \cdot P \text{ [HP]}}{n \text{ [rpm]}}$$

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CARGA RADIAL Y AXIAL

- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



	$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$	$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$
M	Momento torcente / Output torque / Abtriebsdrehmoment / Par torsion	
d	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diámetro primitivo	
f_k	Coefficiente di trasformazione / Factor / Faktor / Coefficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Correa plana	

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

How to select a gearbox / Come selezionare un riduttore
Wie wählt man ein Getriebe / Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Abtriebsdrehzahl
Velocidad de salida

Nominal power
Potenza nominale
Max. mögliche Leistung
Potencia nominal

A Nominal torque
Momento torcente nominale
Nenn Drehmoment
Par de torsión nominal

Flange code
Codice flangia
Flanschtype
Código bridas

Input speed
Velocità in entrata
Eintriebsdrehzahl
Velocidad de entrada

Gear size
Grandezza riduttore
Getriebegröße
Tamaño reductor

Motor power
Potenza motore
Motorleistung
Potencia motor

311A

One step 49Nm

Rating - Alluminum ONE STEP GEARBOXES

QUICK SELECTION / Selezione velocità input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft			
							B	C	O	P	Q			Ratios code	
892	1.57	0.37	3.9	10.5	3.9	41									
493	2.84	0.37	7.0	6.1	2.2	43									
426	3.29	0.37	8.1	6.1	2.2	49			C	C		2844	standard ø14	-	
362	3.87	0.37	9.6	4.2	1.6	41			C	C		1954			
												1756			
												1558			

C Ratio
Rapporto
Untersetzung
Relación

Transmitted torque
Momento torcente trasmesso
Mögliche Drehmomente
Par transmitido

Service factor
Fattore di servizio
Betriebsfaktor
Factor de servicio

Output shaft diam.
Diam. albero uscita
Durchmesser abtriebswelle
Diámetro eje de salida

Notes
Note
Anmerkungen
Notas

D	Motor flange available Flange disponibili Erhältliche Motorflansche Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Reduzierhülsen Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-sockel Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Auch ohne Reduzierbuchse verfügbar Disponibile también sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Max. Drehmoment in Bezug zum Betriebsfaktor	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft \varnothing standard $\varnothing 14$	Ratios code
							B	C	D	E	O	P	Q	R		
							63	71	80	90	56	63	71	80		
682.1	2.05	0.37	5.2	4.1	1.53	21				B-C	C			1939	standard $\varnothing 14$	-
595.0	2.35	0.37	5.9	4.1	1.53	24			B-C	C			1740			
500.0	2.80	0.37	7.1	4.1	1.53	29			B-C	C			1542			
413.6	3.38	0.37	8.5	4.1	1.53	35			B-C	C			1344			
297.9	4.70	0.37	11.8	2.1	0.76	24			B-C	C			1047			
225.0	6.22	0.37	15.7	1.5	0.55	23			B-C	C			956			
169.0	8.28	0.37	20.9	1.0	0.37	21			B-C	C			758			
142.4	9.83	0.25	16.7	1.0	0.25	17			B-C	C			659			

The dynamic efficiency is **0.98** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **211A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **211A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione.
Vedi tab.1 per oli e quantità consigliati.
In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **211A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben.
In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt.
Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **211A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna.
Ver tabla 1, para cantidades y aceites recomendados.
En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

LUBRICATION 211A Oil Quantity 0.05 Lt.

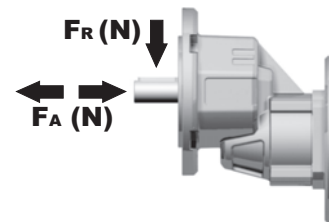
AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

RADIAL AND AXIAL LOADS

Output shaft

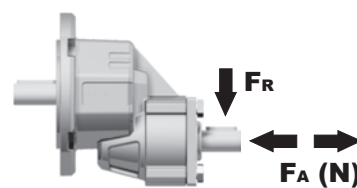
Albero di uscita



n_2	FA	FR
700	101	504
600	120	600
400	138	696
300	151	756
200	175	876
140	192	960

Input shaft

albero in entrata



n_2	FA	FR
1400	168	840
900	192	960

***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

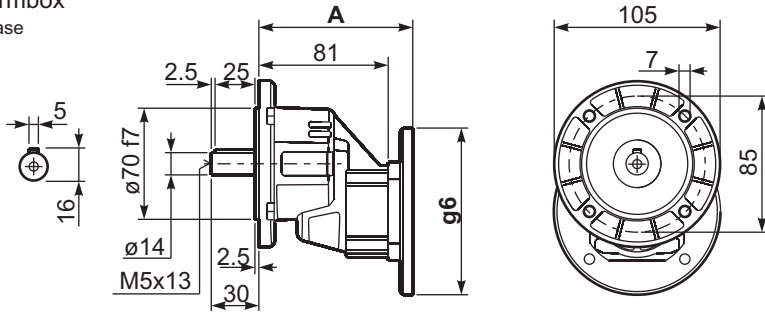
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni

P211A-F... Basic wormbox
Riduttore base

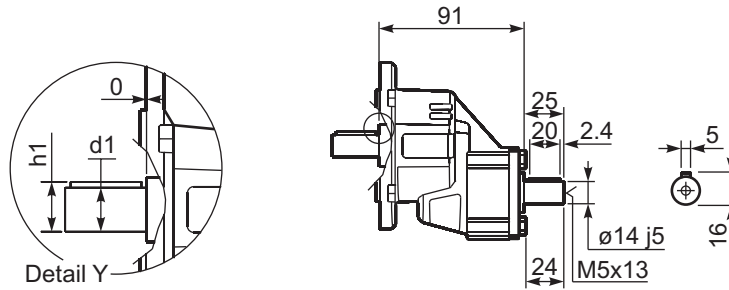
Wormbox weight
peso riduttore **1.40 kg**



B5 Motor Flanges	A	g6	kit code
63 B5	97.5	138	K050.4.041
71 B5	95.5	160	K050.4.042

B14 Motor Flanges	A	g6	kit code
56 B14	97	80	KC40.4.049
63 B14	99	90	K050.4.047
71 B14	97	105	K050.4.045

R211A-F... Basic wormbox
Riduttore base



*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	∅ 14x30	5	16	M5x13



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code 	
							B	C	O	P	Q			
892	1.57	0.37	3.9	6.4	2.4	25			C	C		2844	standard ø14 On request ø11 ø19	-
493	2.84	0.37	7.0	5.7	2.1	40			C	C		1954		
426	3.29	0.37	8.1	5.6	2.0	45			C	C		1756		
362	3.87	0.37	9.6	4.2	1.6	41			C	C		1558		
303	4.62	0.37	11.4	4.2	1.6	49			C	C		1360		
222	6.30	0.37	15.6	3.0	1.1	47			C	C		1063		
170	8.22	0.37	20.3	1.9	0.70	39			C	C		974		
130	10.86	0.37	26.9	1.0	0.39	28			C	C		776		

The dynamic efficiency is **0.98** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 311A is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore 311A viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe 311A ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño 311A se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 311A Oil Quantity 0.10 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

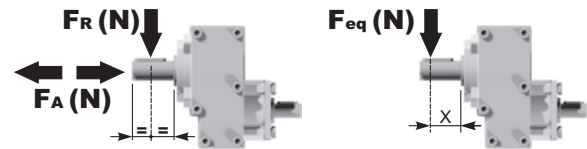
tab. 1

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

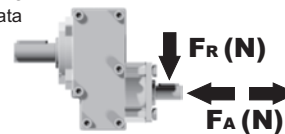
$$F_{eq} = F_R \cdot \frac{38.5}{X+18.5}$$



n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
700	84	420	400	115	580	200	146	730
600	100	500	300	126	630	140	160	800

Input shaft

Albero in entrata



n ₁	FA	FR
1400	140	700
900	160	800

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

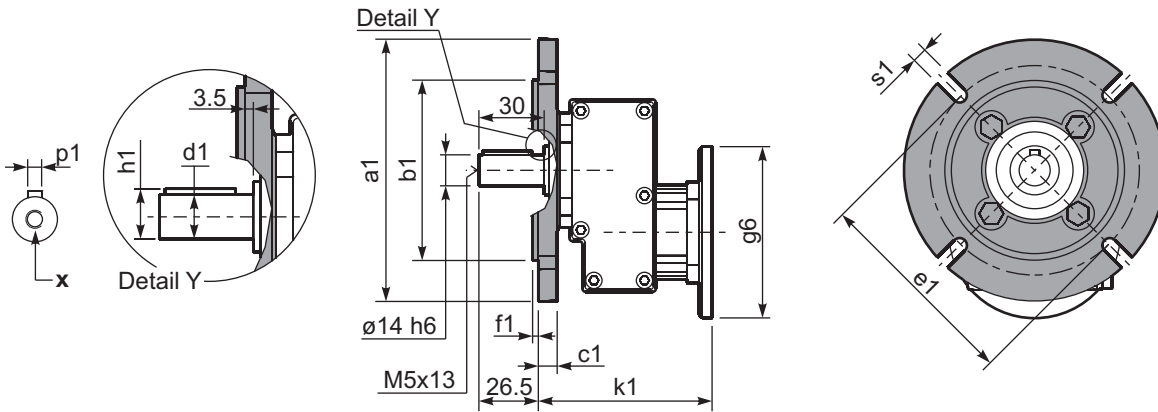
Stock and Logistic
Stock e logistica

Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

P311-F... Output flange
flange di uscita

Wormbox weight 2.50 kg
peso riduttore



***Available output shaft / Alberi di uscita**

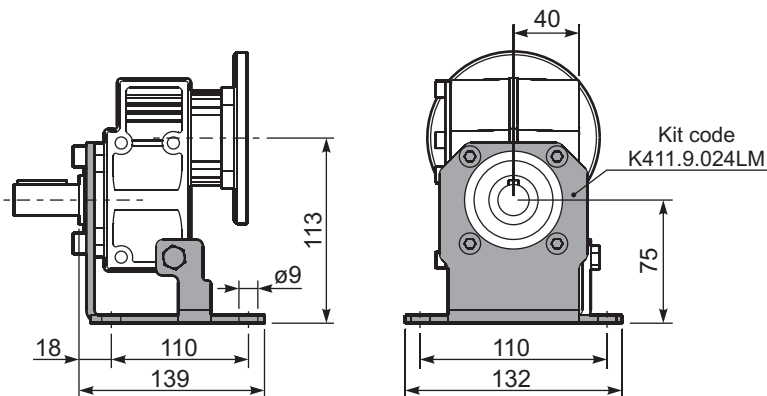
	Shaft - d1	p1	h1	x
Standard	∅ 14x30	5	16	M5x13
On request A richiesta	∅ 11x23	4	12.5	M5x13
	∅ 19x40	6	21.5	M6x16

Available output flanges / flange di uscita

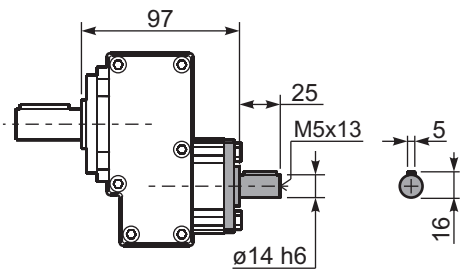
a1 ∅	b1	c1	e1	f1	s1	kit code
120	80	11.5	100	3	9*	KC30.9.010
140	95	11.5	115	3	9	KC30.9.011
160	110	11.5	130	3.5	9	KC30.9.012
200	130	11.5	165	3.5	11	KC30.9.013

*Holes position
posizione fori

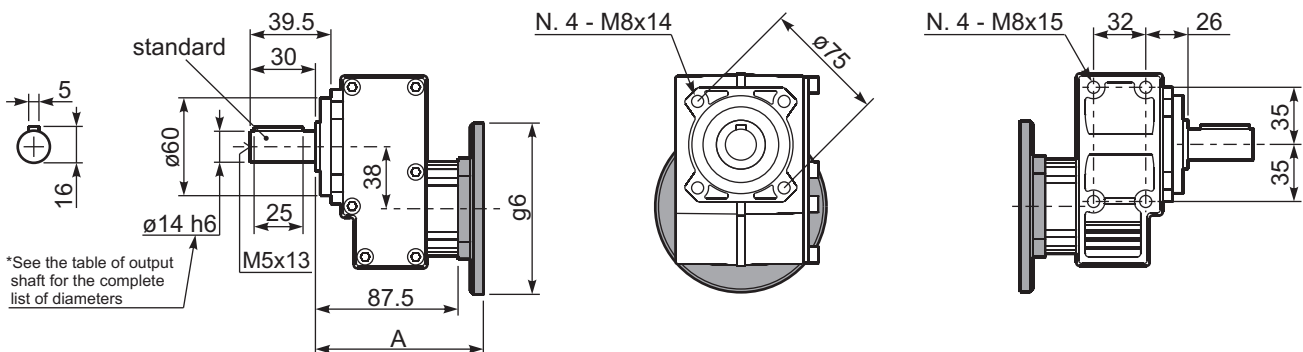
P311-H1... With feet
Con piedini



R311-N... Input Shaft
Albero in entrata



P311-N... Basic gearbox
Riduttore base



B14 Motor Flanges	A	g6	k1	kit code
56 B14	107.5	80	111	KC40.4.049
63 B14	105.5	90	109	K050.4.047
71 B14	103	105	106.5	K050.4.045

B5 Motor Flanges	A	g6	k1	kit code
63 B5	103.5	138	107	K050.4.041
71 B5	101.5	160	105	K050.4.042



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code 	
							B	C	D	E	Q	R	T			
892	1.57	1.5	15.5	1.6	2.4	25	B				C	C		2844	standard ø19 On request ø14 ø24	-
493	2.84	1.5	28.5	1.4	2.1	40	B				C	C		1954		
426	3.29	1.5	33	1.4	2.0	45	B				C	C		1756		
362	3.87	1.5	39	1.0	1.6	41	B				C	C		1558		
303	4.62	1.5	46.3	1.0	1.6	49	B				C	C		1360		
222	6.30	1.1	46.3	1.0	1.1	47	B				C	C		1063		
170	8.22	0.55	30	1.3	0.70	39	B				C	C		974		
130	10.86	0.37	27	1.1	0.39	28	B				C	C		776		

The dynamic efficiency is **0.98** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 411A is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore 411A viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe 411A ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño 411A se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

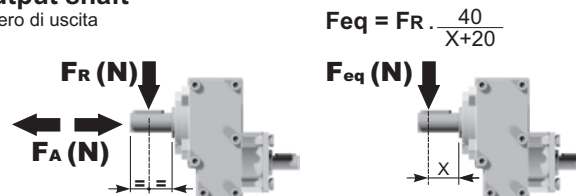
LUBRICATION 411A Oil Quantity 0.20 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

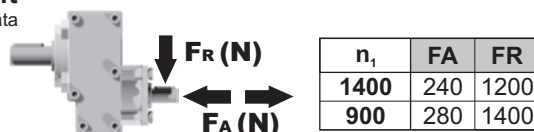
RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
700	182	910	400	230	1150	200	290	1450
600	100	1000	300	250	1250	140	320	1600

Input shaft
Albero in entrata



n_1	FA	FR
1400	240	1200
900	280	1400

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

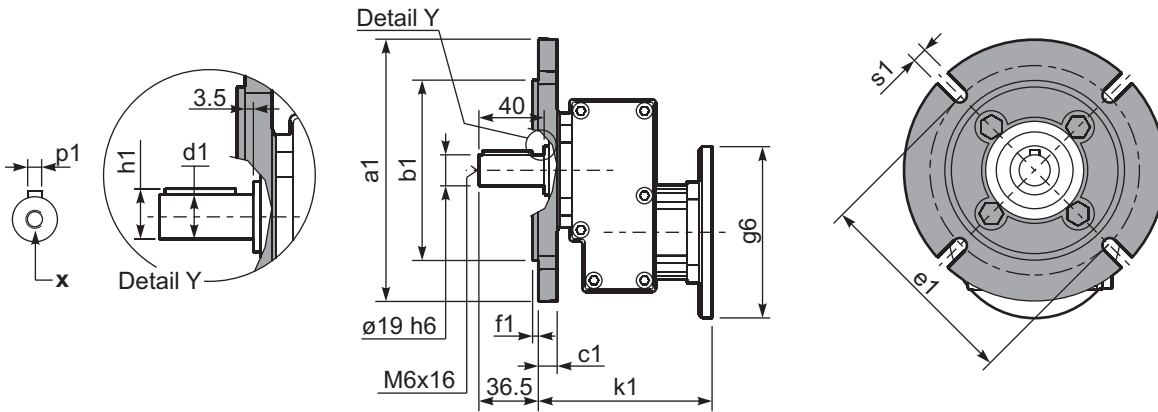
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni

P411-F... Output flange
flange di uscita

Wormbox
weight
peso riduttore **3.20 kg**



***Available output shaft / Albero di uscita**

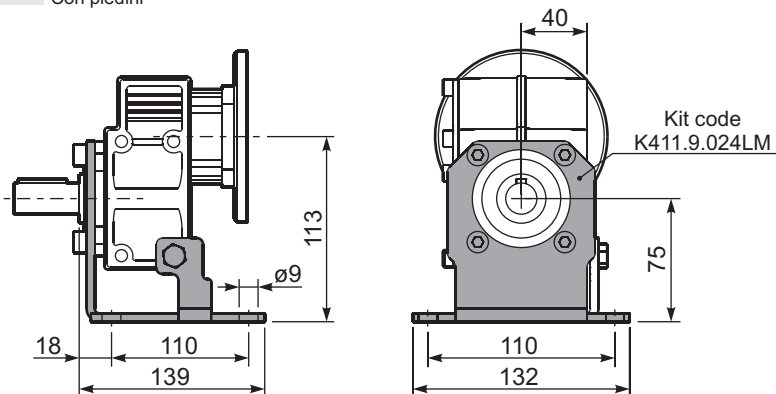
	Shaft - d1	p1	h1	x
Standard	∅ 19x40	6	21.5	M6x16
On request A richiesta	∅ 14x30 ∅ 24x40	5 8	16 27	M6x16 M8x19

Available output flanges / flange di uscita

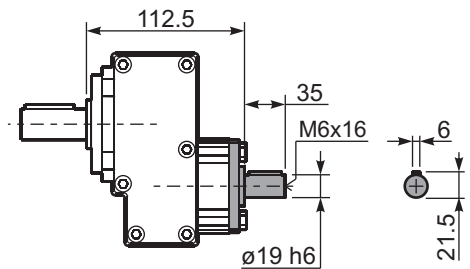
a1 ∅	b1	c1	e1	f1	s1	kit code
120	80	11.5	100	3	9*	KC30.9.010
140	95	11.5	115	3	9	KC30.9.011
160	110	11.5	130	3.5	9	KC30.9.012
200	130	11.5	165	3.5	11	KC30.9.013

*Holes position
posizione fori

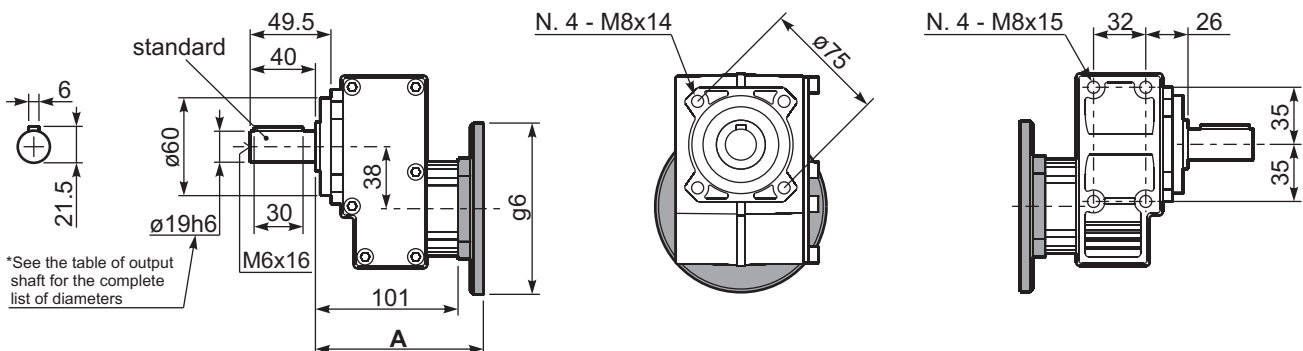
P411-H1... With feet
Con piedini



R411-N... Input Shaft
Albero in entrata



P411-N... Basic gearbox
Riduttore base



B5 Motor Flanges	A	g6	k1	kit code
63 B5	121.5	140	125	K063.4.041
71 B5	119.5	160	123	K063.4.042
80/90 B5	121.5	200	125	K063.4.043

B14 Motor Flanges	A	g6	k1	kit code
71 B14	119.5	105	123	K063.4.047
80 B14	120.5	120	124	K063.4.046
90 B14	121.5	140	125	K063.4.041
100/112 B14	119.5	160	123	KC40.4.041



QUICK SELECTION / Selezione veloce input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code	
							C	D	E	F	R	T	U	V			
1077	1.30	4	35	1.9	7.7	67	B										
571	2.45	4	66	1.9	7.4	122	B										
423	3.31	4	89	1.4	5.5	122	B										
325	4.31	4	115	1.2	4.6	133	B										
266	5.27	3	106	1.3	3.8	133	B										
183	7.63	2.2	112	1.0	2.2	114	B										
133	10.50	1.1	77	1.0	1.1	79	B										

The dynamic efficiency is **0.98** for all ratios

Motor Flanges Available Flange Motore Disponibili
Supplied with Reduction Bushing Fornito con Bussola di Riduzione
Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
Motor Flange Holes Position Posizione Fori Flangia Motore

E Unit **511A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

LUBRICATION 511A Oil Quantity 0.29 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

I Il riduttore **511A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{52.5}{X+22.5}$

Input shaft
Albero in entrata

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
700	294	1470	400	370	1850	200	460	2300
600	320	1600	300	400	2000	140	510	2550

n ₁	FA	FR
1400	400	2000
900	440	2200

tab. 2

D Das Getriebe **511A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

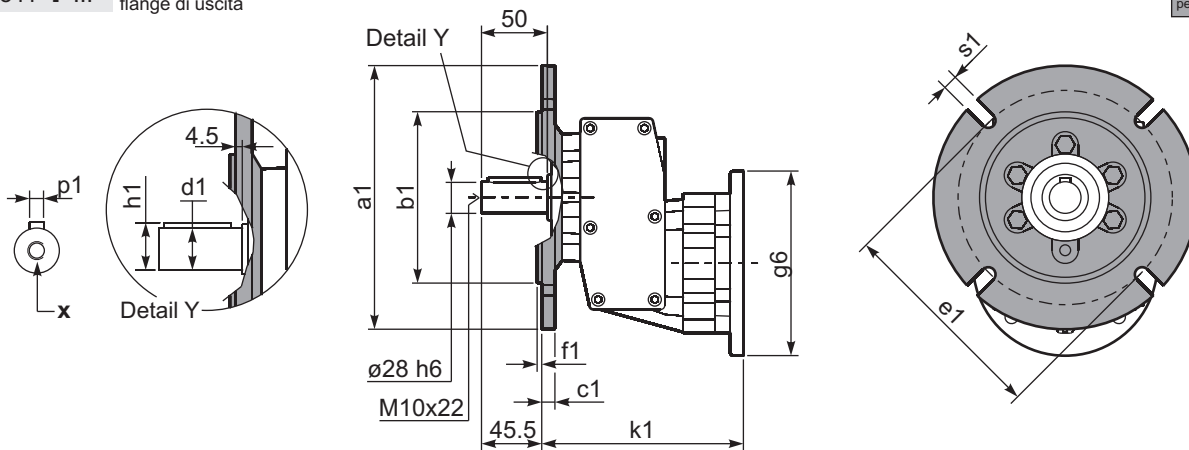
E El reductor tamaño **511A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

P511-F... Output flanges
flange di uscita

Wormbox weight
peso riduttore **5.00 kg**



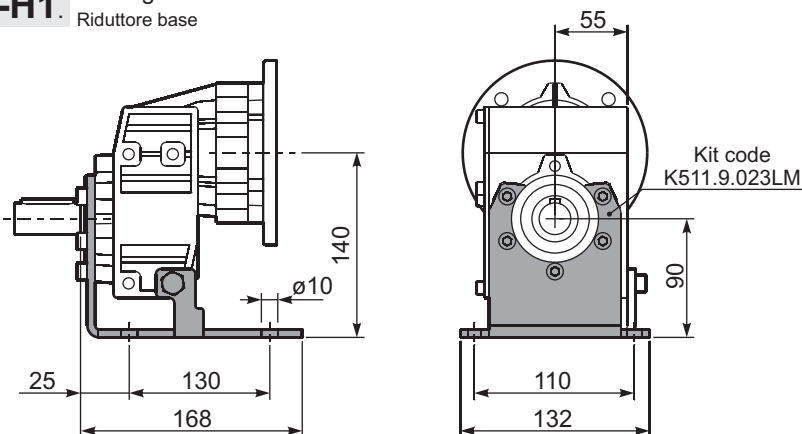
***Available output shaft / Albero di uscita**

	Shaft - d1	p1	h1	x
Standard	ø 28x50	8	31	M10x22
On request A richiesta	ø 24x50	8	26.7	M8x19
	ø 19x40	6	21.5	M6x16

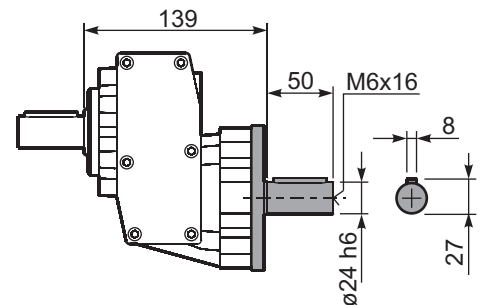
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
120	80	10	100	3	9	KC40.9.010
140	95	10	115	3	9	KC40.9.011
160	110	10	130	3	9	KC40.9.012
200	130	11	165	3.5	11	KC40.9.013
250	180	11.5	215	3.5	14	KC40.9.014

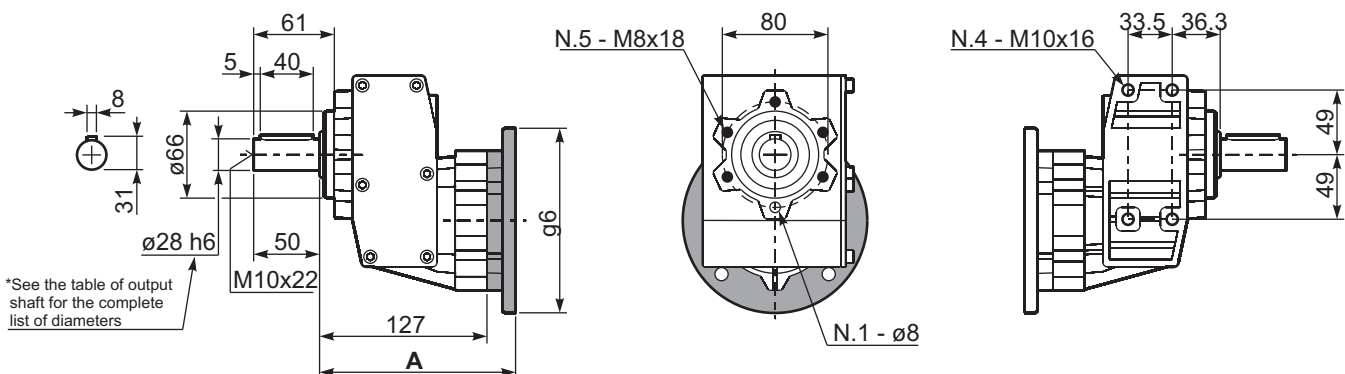
P511A-H1. Basic gearbox
Riduttore base



R511A-N... Input Shaft
Albero in entrata



P511-N... Basic gearbox
Riduttore base



B5 Motor Flanges	A	g6	k1	kit code
71 B5	145	160	149.5	K023.4.041
80/90 B5	147	200	151.5	K023.4.042
100/112 B5	153	250	157.5	K023.4.043

B14 Motor Flanges	A	g6	k1	kit code
80 B14	145	120	149.5	K085.4.045
90 B14	145	140	149.5	K085.4.046
100/112 B14	145	160	149.5	K085.4.047
132 B14	175	200	188	KC50.4.041

Aluminum in line gearboxes

A modular and compact product

Alloy housing

Is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint

Flange

Fully modular to IEC and Compact integrated motor. NEMA C flange

Removable inspection cover

Allows periodic inspection of gearing during routine maintenance

Gears

Hardened and ground gears.

Oil seals

Two oil seals on request

Output shaft

With well proportioned bearings

Feet

Removable feet. With patented locking system.

Lubricated for life with synthetic oil with operative range from -15° to $+130^{\circ}\text{C}$

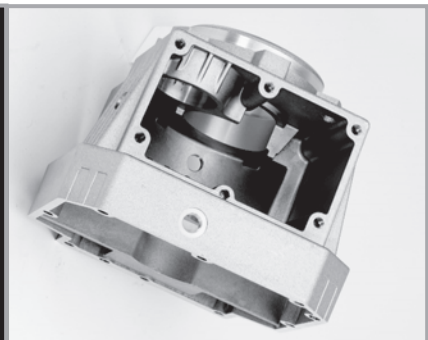
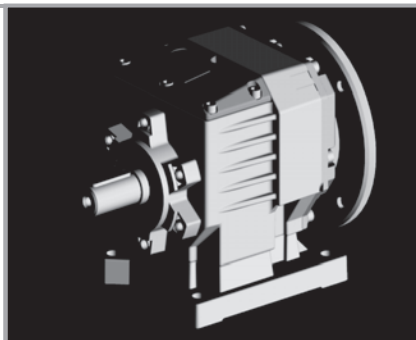
Foot prints

Compatible to the main standard of the market.

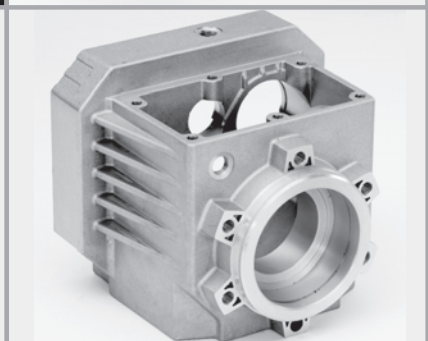
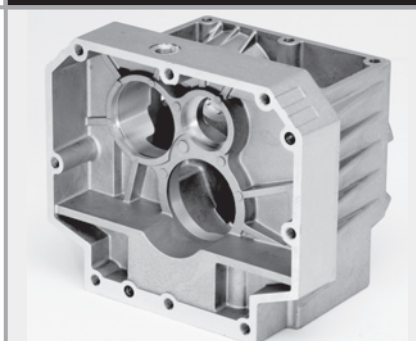


Single-piece aluminum alloy housing

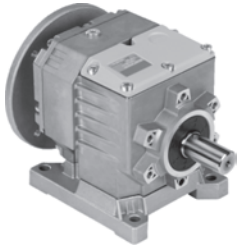
Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing



World wide sales network.



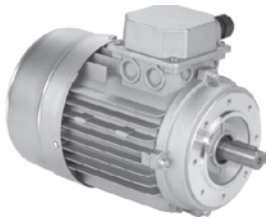
On page / A pagina / Auf Seite / En la página



Types / Tipi /
Arten / Tipos →

5-5	5-7	5-9	5-11	5-13	5-15	5-17	5-19	5-21
202A 70Nm	302A 120Nm	402A 150Nm	403A 150Nm	452A 300Nm	502A 320Nm	503A 320Nm	602A 460Nm	603A 460Nm

On page / A pagina / Auf Seite / En la página



Types / Tipi /
Arten / Tipos →

M-1														
56A	56B	63A	63B	71A	71B	80A	80B	90S	90L	100LA	100LB	112M	132S	132M

For : / Per : / Für : / Para :

Selection guide - fs
Guida alla selezione

Mounting pos. - Lubrication
Pos. di montaggio - lubrificazione

2 - 6 poles selection
Selezione 2 - 6 poli

Radial - axial loads
Carichi radiali e assiali

Reversibility
Reversibilità

Thermal limit
Limite termico

Atex certification
Certificazione Atex

Accessories
Accessori

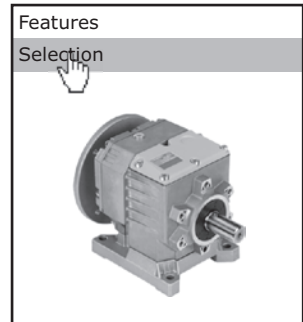
Download 3D drawings
Download disegni 3D

Interchangeability
Intercambiabilità

Installation and maintenance
Installazione, uso e manutenzione

Spare parts list
Liste parti di ricambio

See on our web site
www.hydronec.com
just click on the product
family button



Type - Tipo - Typ - Tipo

Size - Grandezza
Grösse - Tomaño

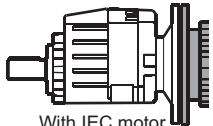
Mounting - Montaggio - Montage - Tipo de montaje

P

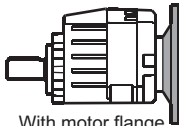
402A

B2

Aluminum coaxial gear boxes
Riduttori coassiali in alluminio



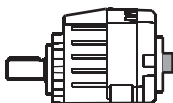
With IEC motor
M



With motor flange
P



With male input shaft
R



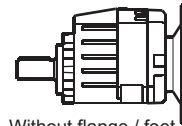
Modular base
B

2 Stages
Riduzioni
Stufen
Etapas

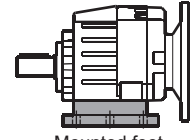
202A
302A
402A
452A
502A
602A

3 Stages
Riduzioni
Stufen
Etapas

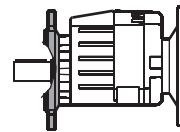
403A
503A
603A



Without flange / feet
-N



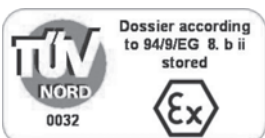
Mounted feet
B..



Output flange mounted
-F

Feet / piedini		G	H	R	L	L1	S
Feet Code	Market reference						
B1	112	18	85	110	87	50	
B2	212/3	18	100	130	107.5		
S1	17	18	75	110	90+20		
S2	27	25	90	110	130		
M1	42/3	25	80	110+120	85		
L4	04	13	80	105			
L5	05	16	100	125			

You see feet code in the chart of the dimensions
Vedi codice piede nella tabella delle dimensioni



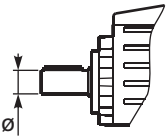
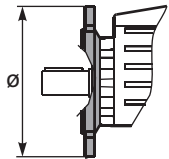



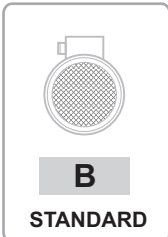


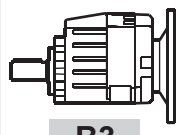
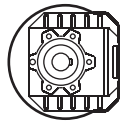
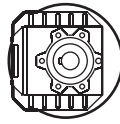
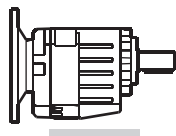
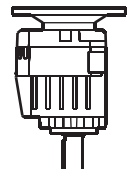
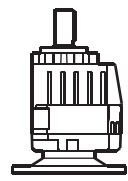
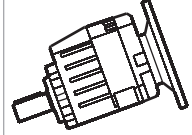
Dossier according to 94/9/EG 8. b ii stored

A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Ratio - Rapporto Untersetzung Relación	Output shaft Albero lento Abtriebswelle Eje en solida	Output flange Flangia uscita Ausgangsflansch Brida en salida	Motor size Grandezza motore Motor Größe Tamaño motor	Terminal box position Posizione morsetti Klemmkastenlage Posición caja de bornes	Mounting position Posizione montaggio Einbaulage Position de montaje																																																		
7.33	V	2	C	B	B3																																																		
<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Technisches Datenblatt beachten.</p> <p>Ver tabla datos técnicos</p>	 <p>→ STANDARD</p> <p>202A</p> <p>S ⇒ Ø14</p> <p>B ⇒ Ø16</p> <p>D ⇒ Ø20</p> <p>V ⇒ Ø25</p> <p>302A</p> <p>S ⇒ Ø14</p> <p>B ⇒ Ø16</p> <p>C ⇒ Ø19</p> <p>D ⇒ Ø20</p> <p>E ⇒ Ø24</p> <p>V ⇒ Ø25</p> <p>G ⇒ Ø28</p> <p>402A 403A</p> <p>S ⇒ Ø14</p> <p>B ⇒ Ø16</p> <p>C ⇒ Ø19</p> <p>D ⇒ Ø20</p> <p>E ⇒ Ø24</p> <p>V ⇒ Ø25</p> <p>452A 502A 503A</p> <p>E ⇒ Ø24</p> <p>V ⇒ Ø25</p> <p>G ⇒ Ø28</p> <p>H ⇒ Ø30</p> <p>I ⇒ Ø35</p> <p>602A 603A 602C 603C</p> <p>H ⇒ Ø30</p> <p>I ⇒ Ø35</p> <p>L ⇒ Ø38</p> <p>M ⇒ Ø40</p>	 <p>N Senza flangia Without flange</p> <p>202A 302A 402A 403A</p> <p>1 ⇒ Ø120</p> <p>2 ⇒ Ø140</p> <p>3 ⇒ Ø160</p> <p>4 ⇒ Ø200</p> <p>452A 502A 503A</p> <p>3 ⇒ Ø160</p> <p>4 ⇒ Ø200</p> <p>5 ⇒ Ø250</p> <p>602A 603A</p> <p>3 ⇒ Ø160</p> <p>4 ⇒ Ø200</p> <p>5 ⇒ Ø250</p>	<p>Standard Flange Flangia Standard</p>  <table border="1"> <tr> <td>B5</td> <td>B14</td> </tr> <tr> <td>A=56 (Ø120)</td> <td>O=56 (Ø80)</td> </tr> <tr> <td>B=63 (Ø140)</td> <td>P=63 (Ø90)</td> </tr> <tr> <td>C=71 (Ø160)</td> <td>Q=71 (Ø105)</td> </tr> <tr> <td>D=80 (Ø200)</td> <td>R=80 (Ø120)</td> </tr> <tr> <td>E=90 (Ø200)</td> <td>T=90 (Ø140)</td> </tr> <tr> <td>F=100+112 (Ø250)</td> <td>U=100+112 (Ø160)</td> </tr> <tr> <td></td> <td>V=132 (Ø200)</td> </tr> </table> <p>Reduced flange / Flangia ridotta</p> <table border="1"> <tr> <td>302A 402A 503A 603A</td> <td></td> </tr> <tr> <td>1 ⇒ Ø19 (71B5)</td> <td>3 ⇒ Ø28 (90B5)</td> </tr> <tr> <td>2 ⇒ Ø24 (80B5)</td> <td></td> </tr> <tr> <td>202A 403A</td> <td>452A 502A 602A</td> </tr> <tr> <td>5 ⇒ Ø11 (56B5)</td> <td>5 ⇒ Ø24 (80B5)</td> </tr> <tr> <td>6 ⇒ Ø14 (63B5)</td> <td>6 ⇒ Ø28 (90B5)</td> </tr> <tr> <td>7 ⇒ Ø19 (63B5)</td> <td></td> </tr> </table> <p>Type R / Tipo R</p> <table border="1"> <tr> <td>202A 403A</td> <td>302A 402A 503A 603A</td> </tr> <tr> <td>1 ⇒ Ø14</td> <td>3 ⇒ Ø24</td> </tr> </table> <p>452A 502A 602A</p> <p>2 ⇒ Ø19</p> <p>Without flange / Senza flangia</p>  <table border="1"> <tr> <td>202A 403A</td> <td>302A 402A 503A 603A</td> </tr> <tr> <td>Z ⇒ Ø9 (56B5)</td> <td>1 ⇒ Ø14 (71B5)</td> </tr> <tr> <td>0 ⇒ Ø11 (63B5)</td> <td>2 ⇒ Ø19 (80B5)</td> </tr> <tr> <td>1 ⇒ Ø24 (90B5)</td> <td>3 ⇒ Ø24 (90B5)</td> </tr> <tr> <td>452A 502A 602A</td> <td></td> </tr> <tr> <td>2 ⇒ Ø19 (80B5)</td> <td></td> </tr> <tr> <td>3 ⇒ Ø24 (90B5)</td> <td></td> </tr> <tr> <td>4 ⇒ Ø28 (100B5)</td> <td></td> </tr> </table> <p>→ STANDARD</p>	B5	B14	A=56 (Ø120)	O=56 (Ø80)	B=63 (Ø140)	P=63 (Ø90)	C=71 (Ø160)	Q=71 (Ø105)	D=80 (Ø200)	R=80 (Ø120)	E=90 (Ø200)	T=90 (Ø140)	F=100+112 (Ø250)	U=100+112 (Ø160)		V=132 (Ø200)	302A 402A 503A 603A		1 ⇒ Ø19 (71B5)	3 ⇒ Ø28 (90B5)	2 ⇒ Ø24 (80B5)		202A 403A	452A 502A 602A	5 ⇒ Ø11 (56B5)	5 ⇒ Ø24 (80B5)	6 ⇒ Ø14 (63B5)	6 ⇒ Ø28 (90B5)	7 ⇒ Ø19 (63B5)		202A 403A	302A 402A 503A 603A	1 ⇒ Ø14	3 ⇒ Ø24	202A 403A	302A 402A 503A 603A	Z ⇒ Ø9 (56B5)	1 ⇒ Ø14 (71B5)	0 ⇒ Ø11 (63B5)	2 ⇒ Ø19 (80B5)	1 ⇒ Ø24 (90B5)	3 ⇒ Ø24 (90B5)	452A 502A 602A		2 ⇒ Ø19 (80B5)		3 ⇒ Ø24 (90B5)		4 ⇒ Ø28 (100B5)		 <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p>	 <p>B3 STANDARD</p>  <p>B6</p>  <p>B7</p>  <p>B8</p>  <p>V5</p>  <p>V6</p>  <p>V8</p> <p>Specify only for vertical positions</p> <p>Specificare solo per posizione verticale</p>
B5	B14																																																						
A=56 (Ø120)	O=56 (Ø80)																																																						
B=63 (Ø140)	P=63 (Ø90)																																																						
C=71 (Ø160)	Q=71 (Ø105)																																																						
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3 ⇒ Ø24 (90B5)																																																							
4 ⇒ Ø28 (100B5)																																																							

POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / elevación

$$P \text{ [KW]} = \frac{M \text{ [Kg]} \cdot g \text{ [9.81]} \cdot v \text{ [m / s]}}{1000}$$

Rotation / rotazione / drehung / rotation

$$P \text{ [KW]} = \frac{M \text{ [Nm]} \cdot n \text{ [rpm]}}{9550}$$

Linear movement / traslazione / linearbewegung / translacion

$$P \text{ [KW]} = \frac{F \text{ [N]} \cdot v \text{ [m / s]}}{1000}$$

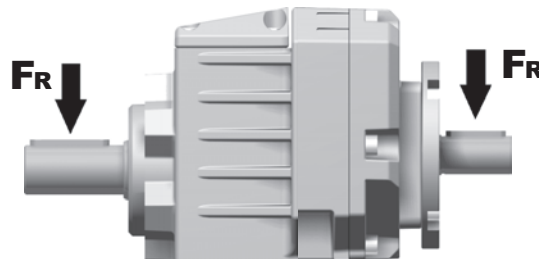
TORQUE / COPPIA / DREHMOMENT / PAR

$$M \text{ [Nm]} = \frac{9550 \cdot P \text{ [KW]}}{n \text{ [rpm]}}$$

$$M \text{ [lb in]} = \frac{63030 \cdot P \text{ [HP]}}{n \text{ [rpm]}}$$

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CARGA RADIAL Y AXIAL

- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$		$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$	
M	Momento torcente / Output torque / Abtriebsdrehmoment / Par torsion		
d	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diámetro primitivo		
f_k	Coefficiente di trasformazione / Factor / Faktor / Coefficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Correa plana		

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

How to select a gearbox / Come selezionare un riduttore
Wie wählt man ein Getriebe / Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Abtriebsdrehzahl
Velocidad de salida

Nominal power
Potenza nominale
Max. mögliche Leistung
Potencia nominal

A Nominal torque
Momento torcente nominale
Nenn Drehmoment
Par de torsión nominal

Flange code
Codice flangia
Flanschtype
Código bridas

Input speed
Velocità in entrata
Eintriebsdrehzahl
Velocidad de entrada

Gear size
Grandezza riduttore
Getriebegröße
Tamaño reductor

Motor power
Potenza motore
Motorleistung
Potencia motor

402A

Coaxial - Gear 150Nm

Rating - Alluminum COAXIAL GEARBOXES

QUICK SELECTION / Selezione veloce input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code
							B	C	D	E	Q	R	T	U		
398	3.52	3	69	1.2	3.5	80	B				C	C			2821	-
320	4.37	3	86	1.0	3.1	90	B				C	C			2818	-
252	5.55	3	109	0.9	2.8	100	B				C	C			2813	-
220	6.36	2.2	92	1.0	2.3	95	B				C	C			1921	-
191	7.33	2.2	106	1.1	2.5	120	B				C	C			2812	-

C Ratio
Rapporto
Untersetzung
Relación

Transmitted torque
Momento torcente trasmesso
Mögliche Drehmomente
Par transmitido

Service factor
Fattore di servizio
Betriebsfaktor
Factor de servicio

Output shaft diam.
Diam. albero uscita
Durchmesser abtriebswelle
Diámetro eje de salida

Notes
Note
Anmerkungen
Notas

D	Motor flange available Flange disponibili Erhältliche Motorflansche Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccia di riduzione Reduzierhülsen Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-sockel Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccia Auch ohne Reduzierbuchse verfügbar Disponibile también sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Max. Drehmoment in Bezug zum Betriebsfaktor	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹							
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft	Ratios code	
							B	C	O	P	Q			
407	3.44	0.55**	12	4.0	2.2	50			C	C		2821	standard ø16 ø14 ø20 ø25 On request	-
327	4.28	0.55**	15	3.2	1.8	50			C	C		2818		
257	5.45	0.55**	20	2.5	1.4	50			C	C		2815		
225	6.23	0.55**	22	2.2	1.2	50			C	C		1921		
194	7.20	0.55**	26	1.9	1.1	50			C	C		2812		
181	7.74	0.55**	28	1.8	0.99	50			C	C		1918		
142	9.85	0.55**	35	1.7	0.93	60			C	C		1915		
123	11.42	0.55**	41	1.5	0.80	60			C	C		1715		
107	13.03	0.37	32	1.9	0.70	60			C	C		1912		
93	15.10	0.37	37	1.6	0.61	60			C	C		1712		
86	16.20	0.37	39	1.5	0.57	60			C	C		1910		
75	18.78	0.37	46	1.3	0.49	60			C	C		1710		
66	21.15	0.37	51	1.2	0.43	60			C	C		1312		
64	21.84	0.37	53	1.1	0.42	60			C	C		1015		
53	26.31	0.37	64	0.9	0.35	60			C	C		1310		
48.5	28.88	0.37	70	1.0	0.37	70			C	C		1012		
39	35.91	0.37	87	0.8	0.30	70			C	C		1010		
37.1	37.69	0.25	62	1.1	0.28	70			C	C		912		
29.9	46.87	0.25	77	0.9	0.23	70			C	C		910		
28.1	49.76	0.25	81	0.9	0.21	70			C	C		712		
22.6	61.89	0.18	73	1.0	0.17	70			C	C		710		

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

C) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

D) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **202A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **202A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **202A** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **202A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

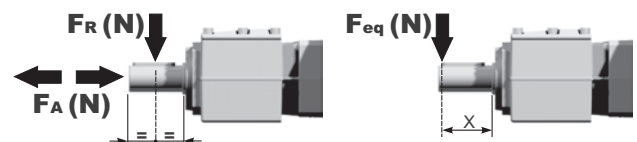
LUBRICATION 202A Oil Quantity 0.15 Lt.

AGIP	BP	SHELL	KLUBER	MOBIL
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30

tab. 1

RADIAL AND AXIAL LOADS

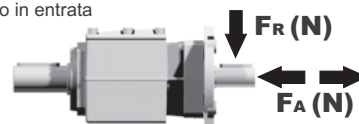
Output shaft
Albero di uscita



$$F_{eq} = F_R \cdot \frac{35.7}{X+20.7}$$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	140	700	140	246	1320	70	340	1700
250	151	756	120	270	1350	40	380	1900
200	185	924	85	300	1500	15	-	-

Input shaft
Albero in entrata



n ₁	FA	FR
1400	140	700
900	160	800
500	190	950

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹								
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft	Ratios code
							B	C	D	E	Q	R	T		
							63	71*	80*	90*	71	80	90		
407	3.44	1.5	34	1.5	2.2	50	B				C	C		2821	-
327	4.28	1.5	42	1.2	1.8	50	B				C	C		2818	
257	5.45	1.5	54	0.9	1.4	50	B				C	C		2815	
225	6.23	1.5	61	1.1	1.7	70	B				C	C		1921	
194	7.20	1.5	71	1.0	1.5	70	B				C	C		2812	
181	7.74	1.5	76	1.1	1.6	80	B				C	C		1918	
142	9.85	1.5	97	1.0	1.5	95	B				C	C		1915	standard
123	11.42	1.5	112	1.0	1.5	115	B				C	C		1715	ø20
107	13.03	1.1	94	1.2	1.3	114	B				C	C		1912	ø14
93	15.10	1.1	109	1.0	1.2	114	B				C	C		1712	ø16
86	16.20	0.75	80	1.3	1.0	107	B				C	C		1910	ø19
75	18.78	0.75	92	1.2	0.87	107	B				C	C		1710	ø20
66	21.15	0.75	104	1.1	0.82	114	B				C	C		1312	ø24
64	21.84	0.75	107	1.1	0.83	119	B				C	C		1015	ø25
53	26.31	0.55	95	1.1	0.62	107	B				C	C		1310	ø28
48.5	28.88	0.55	104	1.1	0.60	114	B				C	C		1012	On request
39	35.91	0.37	87	1.2	0.46	107	B				C	C		1010	
37.1	37.69	0.37	91	1.1	0.41	102	B				C	C		912	
29.9	46.87	0.37	114	0.9	0.35	107	B				C	C		910	
28.1	49.76	0.25	81	1.2	0.31	101	B				C	C		712	
22.6	61.89	0.25	101	1.1	0.26	107	B				C	C		710	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

Motor Flanges Available Flange Motore Disponibili
 B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 C) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 D) Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **302A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **302A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **302A** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **302A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 302A Oil Quantity 0.15 Lt.

AGIP	BP	SHELL	KLUBER	MOBIL
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{35.7}{X+20.7}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	140	700	140	246	1320	70	340	1700
250	151	756	120	270	1350	40	380	1900
200	185	924	85	300	1500	15	-	-

n ₁	FA	FR
1400	226	1130
900	264	1320
500	322	1610

tab. 2

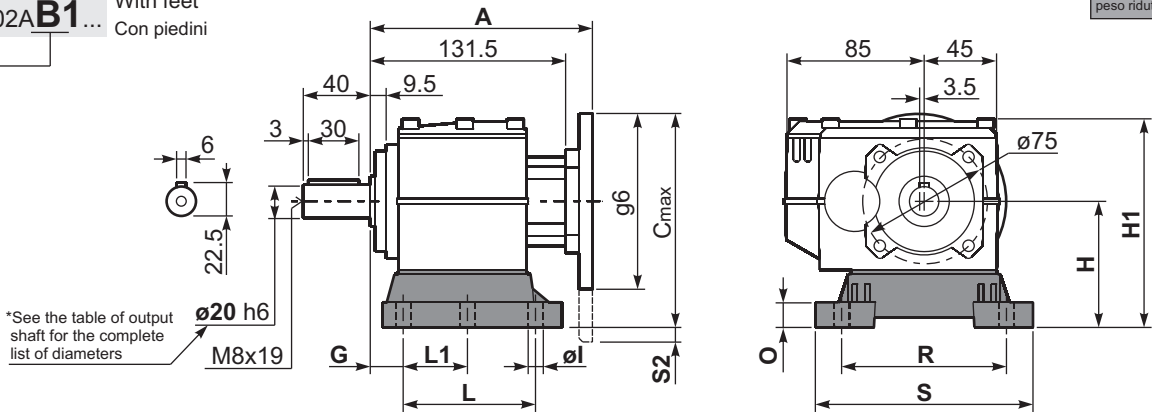
CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni	Spare Parts Parti di ricambio	Installation & Maintenance Installazione e manutenzione	

Wormbox weight **3.5 kg**
 With flange
 peso riduttore **4.0 Kg**
 With feet

P302A-B1...

With feet
 Con piedini



*See the table of output shaft for the complete list of diameters

Feet Code	Market reference	G	H	R	L	L1	S	H1	O	ø1	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	125	15	9	15 80/90B5		KC30.9.022
B2	212/3	18	100	130	107.5	60	155	145	5	11	3.5 80/90B5		KC30.9.023LM
S1	17-32	18	75	110	110	50	130	115.5	15	9	5 71B5	71B5	KC30.9.024
S2	27	25	90	110	130	-	130	-	5	9			KC30.9.025LM
L3	03	12.5	65	91	60	-	105	149	5	9	31.5 80/90B5		KC30.9.026LM
L4	04	13	80	105	76	-	132	165	5	9	16.5 80/90B5		KC30.9.027LM

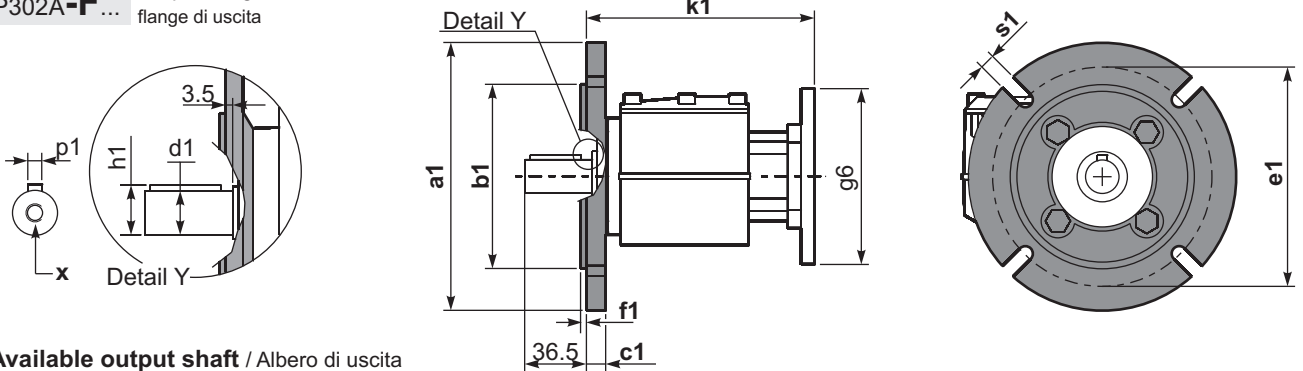
Other feet are available, see our web site
 Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
 Tipi più diffusi

P302A-F...

Output flanges
 flange di uscita



*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø 20x40	6	22.5	M8x19
On request A richiesta	ø 14x30	5	16	M6x16
	ø 16x40	5	18	M6x16
	ø 19x40	6	21.5	M6x16
	ø 24x50	8	27	M8x19
	ø 25x50	8	28	M8x19
	ø 28x50	8	31	M8x19

Available output flanges / flange di uscita

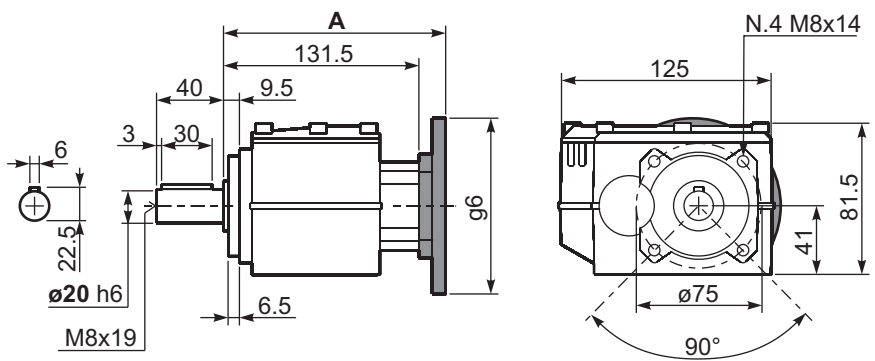
a1 ø	b1	c1	e1	f1	s1	kit code
120	80	11.5	100	3	9*	KC30.9.010
140	95	11.5	115	3	9	KC30.9.011
160	110	11.5	130	3.5	9	KC30.9.012
200	130	11.5	165	3.5	11	KC40.9.013

* Holes position
 Posizione fori

With flange and feet only on request. Ask for compatibility

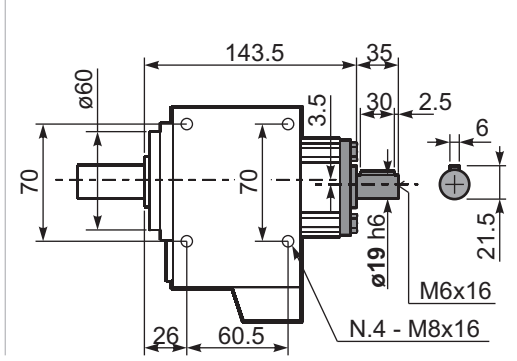
P302A-N...

Basic gearbox
 Riduttore base



R302A-N...

Input Shaft
 Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	151.7	170	140	155.2	K063.4.041
71 B5	152.2	180	160	155.7	K063.4.042
80/90 B5	151.2	200	200	154.7	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	149.7	152.5	105	153.2	K063.4.047
80 B14	150.7	160	120	154.2	K063.4.046
90 B14	151.7	170	140	155.2	K063.4.041



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code
							B	C	D	E	Q	R	T	U		
							63	71	80*	90*	71	80	90	100 112		
398	3.52	3	69	1.2	3.5	80	B				C	C			2821	standard ø25 ø14 ø16 ø19 ø20 ø22 ø24 On request
320	4.37	3	86	1.0	3.1	90	B				C	C			2818	
252	5.55	3	109	0.9	2.8	100	B				C	C			2813	
220	6.36	2.2	92	1.0	2.3	95	B				C	C			1921	
191	7.33	2.2	106	1.1	2.5	120	B				C	C			2812	
177	7.89	2.2	114	1.1	2.3	120	B				C	C			1918	
139	10.06	2.2	145	1.0	2.3	150	B				C	C			1913	
120	11.66	1.5	114	1.5	2.3	174	B				C	C			1713	
106	13.26	1.5	130	1.2	1.8	160	B				C	C			1912	
102	13.68	1.5	134	1.1	1.6	144	B				C	C			1513	
91	15.37	1.5	151	1.1	1.6	160	B				C	C			1712	
86	16.20	1.5	159	0.9	1.3	138	B				C	C			1910	
78	18.04	1.5	177	0.9	1.4	160	B				C	C			1512	
74	18.80	1.1	135	1.0	1.1	138	B				C	C			1710	
65	21.54	1.1	155	1.0	1.1	160	B				C	C			1312	
63	22.29	1.1	161	1.0	1.1	167	B				C	C			1013	
53	26.30	0.75	129	1.1	0.80	138	B				C	C			1310	
47.6	29.40	0.75	144	1.1	0.83	160	B				C	C			1012	
39	35.91	0.55	129	1.1	0.59	138	B				C	C			1010	
36.5	38.37	0.55	138	1.2	0.64	160	B				C	C			912	
29.9	46.86	0.55	169	0.8	0.45	138	B				C	C			910	
27.6	50.67	0.37	123	1.1	0.40	132	B				C	C			712	
22.6	61.88	0.37	150	0.9	0.34	138	B				C	C			710	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

- A** Motor Flanges Available / Flange Motore Disponibili
- B** Supplied with Reduction Bussing / Fornito con Bussola di Riduzione
- B** Available on Request without reduction bussing / Disponibile a Richiesta senza Bussola di Riduzione
- C** Motor Flange Holes Position / Posizione Fori Flangia Motore

EN Unit **402A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **402A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **402A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **402A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.25 LT	0.30 LT	0.40 LT	0.40 LT	0.40 LT	0.50 LT	0.40 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{46}{X+21}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	310	1550	140	406	2030	70	540	2700
250	330	1650	120	448	2240	40	600	3000
200	360	1800	85	480	2400	15	600	3000

Input shaft
Albero in entrata

n ₁	FA	FR
1400	240	1200
900	280	1400
500	340	1700

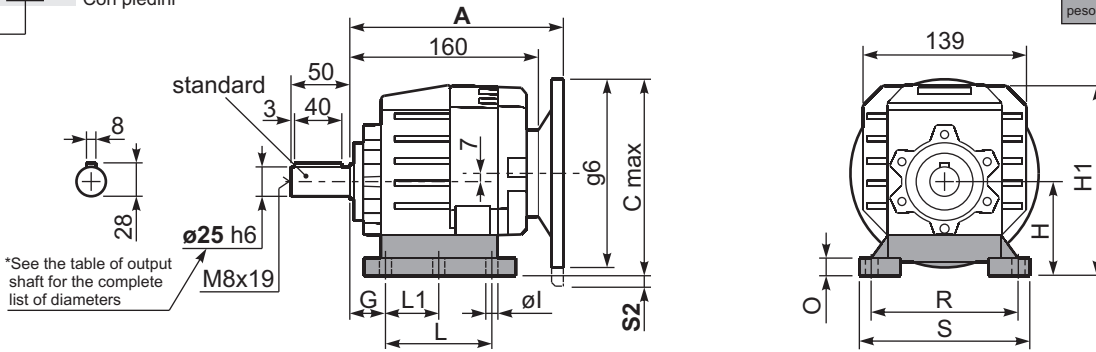
tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

P402A**B1**... With feet
Con piedini

Wormbox weight
peso riduttore With flange **5.7 kg**
With feet **5.9 Kg**



Feet / piedini

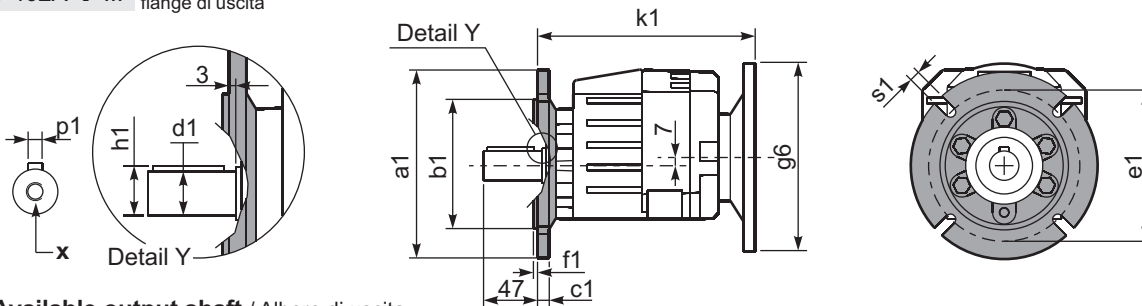
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	167	15	-	8 80/90B5	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182	17	11	-	-	KC40.9.025
S1	17	18	75	110	90+110	50	145	155	15	9	18 80/90B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172	20	9	3 80/90B5	-	KC40.9.024
M1	42/3	25	80	110+120	85	-	145	162	15	9	13 80/90B5	-	KC40.9.023
L4	04	13	80	105	76	-	132	162	5	10	13 80/90B5	-	KC35.9.023LM
L5	05	16	100	125	90	-	150	182	6	12	-	-	KC40.9.027LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P402A-**F**... Output flanges
flange di uscita



***Available output shaft / Albero di uscita**

	Shaft - d1	p1	h1	x
Standard	ø 25x50	8	28	M8x19
On request A richiesta	ø 14x40	5	16	M5x13
	ø 16x40	5	18	M6x16
	ø 19x40	6	21.5	M6x16
	ø 20x40	6	22.5	M8x19
	ø 22x40	6	24.5	M8x19
	ø 24x50	8	27	M8x19

Available output flanges / flange di uscita

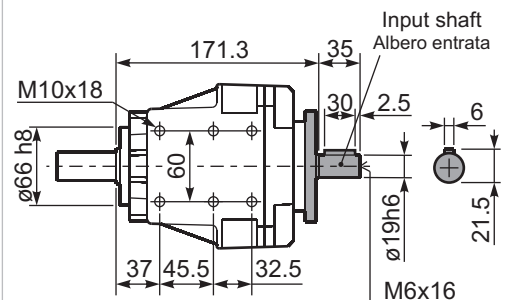
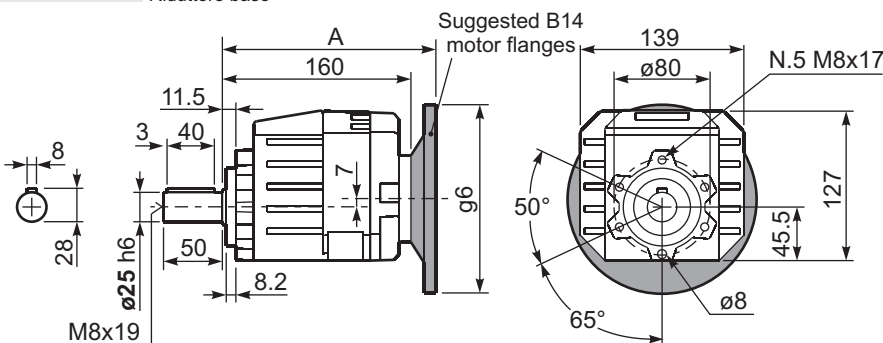
a1 ø	b1	c1	e1	f1	s1	kit code
120	80	10	100	3	9	KC40.9.010
140	95	10	115	3	9	KC40.9.011
160	110	10	130	3	9	KC40.9.012
200	130	11	165	3.5	11	KC40.9.013
250	180	11.5	215	3.5	14	KC40.9.014



With flange and feet only on request. Ask for compatibility

P402A-**N**... Basic gearbox
Riduttore base

R402A-**N**... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	180.5	162	140	183.5	K063.4.041
71 B5	178.5	170	160	181.5	K063.4.042
80/90 B5	180.5	190	200	183.5	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	178.5	142.5	105	181.5	K063.4.047
80 B14	179.5	150	120	182.5	K063.4.046
90 B14	180.5	160	140	183.5	K063.4.041
100/112 B14	196.5	170	160	199.5	KC40.4.041



■ QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹							
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft Ø	Ratios code	
							B	C	O	P	Q			
36.5	38.40	0.37	90	1.9	0.72	175			C	C		171713	standard Ø25 Ø14 Ø16 Ø19 Ø20 Ø22 Ø24 On request	-
32.0	43.69	0.37	103	1.5	0.54	149			C	C		191712		
27.6	50.64	0.37	119	1.3	0.50	160			C	C		171712		
26.2	53.36	0.37	125	1.1	0.41	138			C	C		191710		
22.9	61.22	0.37	144	1.1	0.41	160			C	C		191312		
22.6	61.90	0.37	146	0.9	0.35	138			C	C		171710		
19.7	70.95	0.37	167	1.0	0.36	160			C	C		131712		
19.1	73.43	0.37	172	1.0	0.38	175			C	C		101713		
18.8	74.77	0.25	118	1.2	0.29	138			C	C		191310		
16.1	86.66	0.25	138	1.0	0.25	138			C	C		131710		
14.5	96.85	0.25	154	1.0	0.26	160			C	C		101712		
13.6	102.89	0.25	163	1.1	0.28	180			C	C		101313		
11.1	126.40	0.25	200	0.8	0.20	160			C	C		91712		
10.3	135.69	0.25	215	0.7	0.19	160			C	C		101312		
8.5	165.70	0.12	126	1.1	0.13	138			C	C		101310		
7.9	177.09	0.12	135	1.2	0.14	160			C	C		91312		
6.5	216.30	0.12	164	0.8	0.10	138			C	C		91310		

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione



C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **403A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **403A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **403A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.
Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **403A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.30 LT	0.35 LT	0.45 LT	0.45 LT	0.45 LT	0.55 LT	0.45 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = FR \cdot \frac{46}{X+21}$					
n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	310	1550	140	406	2030	70	540	2700
250	330	1650	120	448	2240	40	600	3000
200	360	1800	85	480	2400	15	600	3000
Input shaft Albero di entrata								
n ₁	FA	FR						
1400	140	700						
900	160	800						
500	190	950						

tab. 2

■ CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

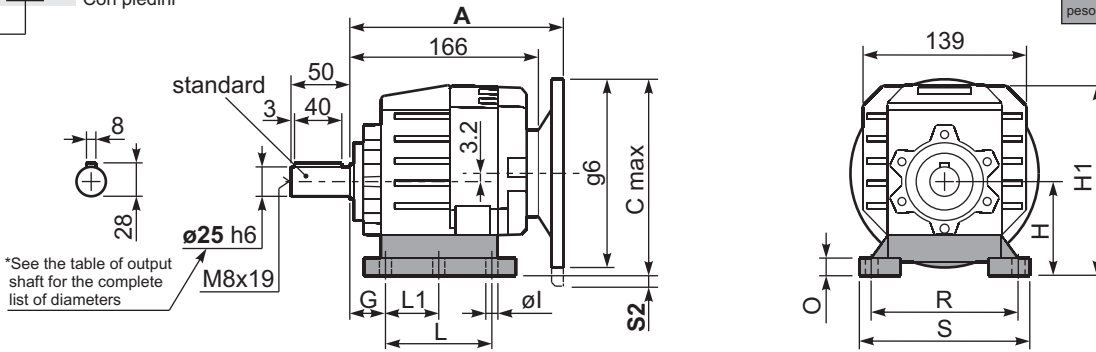
Stock and Logistic
Stock e logistica

Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

P403A **B1** ... With feet
Con piedini

Wormbox weight With flange **6.1 kg**
peso riduttore With feet **6.3 Kg**



Feet / piedini

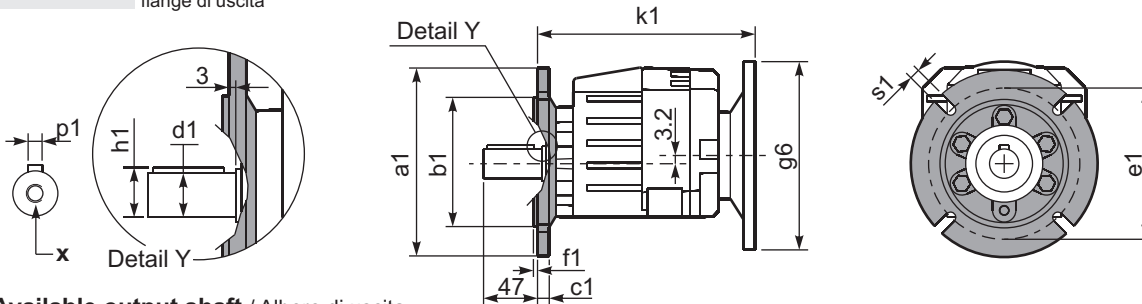
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B1	112	18	85	110	87	50	130	167	15	-	8 80/90B5	-	KC35.9.021
B2	212/3	18	100	130	107.5	60	155	182	17	11	-	-	KC40.9.025
S1	17	18	75	110	90+110	50	145	155	15	9	18 80/90B5	-	KC40.9.022
S2	27	25	90	110	130	-	145	172	20	9	3 80/90B5	-	KC40.9.024
M1	42/3	25	80	110+120	85	-	145	162	15	9	13 80/90B5	-	KC40.9.023
L4	04	13	80	105	76	-	132	162	5	10	13 80/90B5	-	KC35.9.023LM
L5	05	16	100	125	90	-	150	182	6	12	-	-	KC40.9.027LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P403A **-F** ... Output flanges
flange di uscita

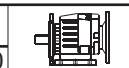


***Available output shaft / Albero di uscita**

	Shaft - d1	p1	h1	x
Standard	ø 25x50	8	28	M8x19
On request A richiesta	ø 14x40	5	16	M5x13
	ø 16x40	5	18	M6x16
	ø 19x40	6	21.5	M6x16
	ø 20x40	6	22.5	M8x19
	ø 22x40	6	24.5	M8x19
	ø 24x50	8	27	M8x19

Available output flanges / flange di uscita

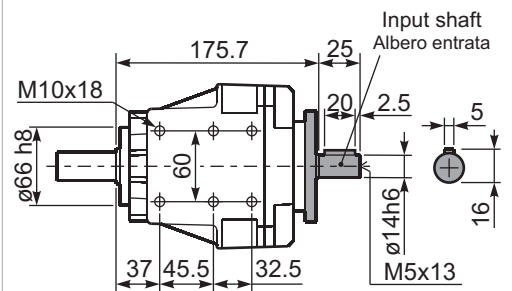
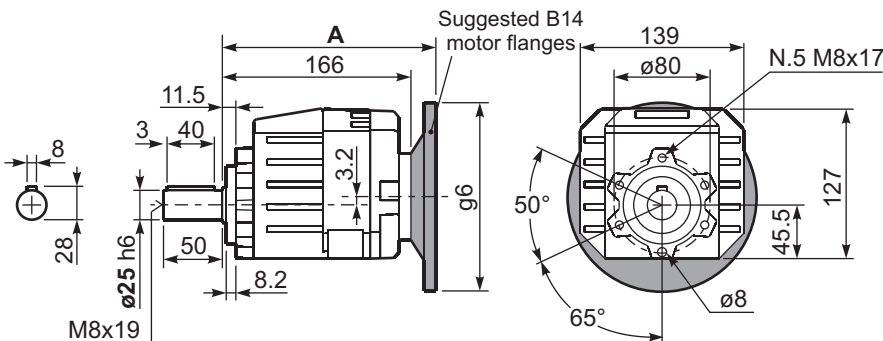
a1 ø	b1	c1	e1	f1	s1	kit code
120	80	10	100	3	9	KC40.9.010
140	95	10	115	3	9	KC40.9.011
160	110	10	130	3	9	KC40.9.012
200	130	11	165	3.5	11	KC40.9.013
250	180	11.5	215	3.5	14	KC40.9.014



With flange and feet only on request. Ask for compatibility

P403A **-N** ... Basic gearbox
Riduttore base

R403A-N ... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	182.5	201.2	140	185.5	K050.4.041
71 B5	180.5	211.2	160	183.5	K050.4.042

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
56 B14	186.5	170.2	80	189.5	KC40.4.049
63 B14	181.5	176.2	90	184.5	K050.4.047
71 B14	182	183.7	105	185	K050.4.045



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft	Ratios code
							C	D	E	F	R	T	U	V		
							71	80	90	100* 112	80	90	100 112	132		
388	3.61	4	95	1.6	6.3	150	B								3018	standard ø30
331	4.23	4	111	1.5	6.1	170	B								3016	
279	5.01	4	131	1.5	6.1	200	B								3014	
231	6.07	4	159	1.6	6.3	250	B								3012	
206	6.81	4	178	1.6	6.2	277	B								2018	
176	7.96	4	209	1.4	5.8	300	B								2016	
148	9.45	4	248	1.2	4.9	304	B								2014	
122	11.43	4	299	1.0	4.0	300	B								2012	
99	14.21	3	279	0.9	2.8	265	B								2010	
84	16.62	3	327	0.9	2.8	304	B								1314	
70	20.10	2.2	290	1.0	2.3	300	B								1312	
56	24.98	1.85	303	0.9	1.6	265	B								1310	
47.6	29.41	1.5	289	1.1	1.6	304	B								814	
39.3	35.58	1.5	349	0.9	1.3	300	B								812	
34.6	40.50	1.1	292	1.0	1.1	290	B								614	
31.7	44.22	1.1	319	0.8	0.92	265	B								810	
28.6	49.00	0.75	241	1.2	0.93	300	B								612	
23.0	60.90	0.75	299	0.9	0.66	265	B								610	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **452A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **452A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **452A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **452A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.31 LT	0.31 LT	0.31 LT	0.31 LT	0.31 LT	0.31 LT	0.31 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS

Output shaft / Albero di uscita

$F_{eq} = FR \cdot \frac{51}{X+21}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	415	2070	140	540	2700	70	700	3510
250	430	2160	120	560	2790	40	810	4050
200	470	2340	85	630	3150	15	900	4500

Input shaft / Albero in entrata

n ₁	FA	FR
1400	400	2000
900	440	2200
500	440	2200

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

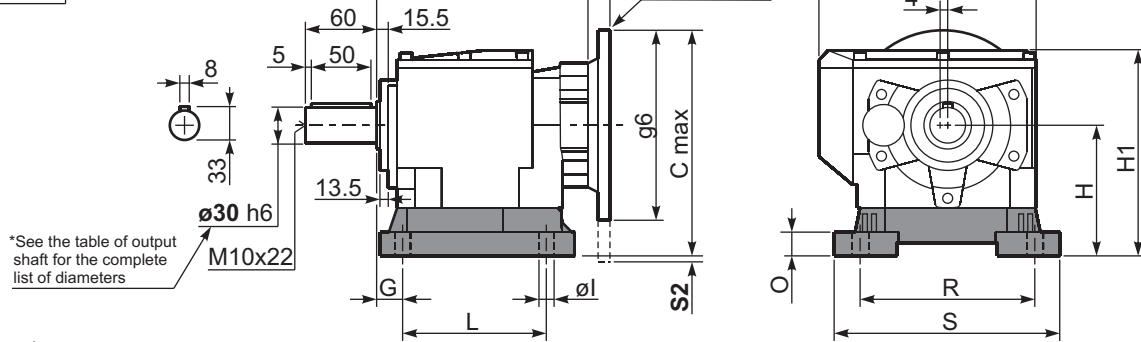
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

P452A-B1...

With feet
Con piedini

Wormbox weight With flange **8.7 kg**
peso riduttore With feet **8.9 Kg**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B3	312/3	18	110	160	130	190	162	20	11	15 100/112B5		KC50.9.024
B4	30/35	20	130	180	149.5	216	182	18	14			KC60.9.024
S4	47-57	30	115	135	165	170	167	24	13.5		80/90B5	KC50.9.022
H3	023-233	30	130	135	135	185	231.5	25	14			KC50.9.025
M2	52/3	30	110	135+150	100	190	162	18	11	15 100/112B5		KC50.9.023
L6	06	19	125	160	106	205	177	8	14			KC50.9.026LM
E2	2202/3	13	100	135	192	164	152	6	14		71B5	KC50.9.027LM
P4	142	35	142	130	145	160	194	8	14		80/90B5	KC50.9.028LM
J3	4100-05G	25	100	150	90	180	152	8	14	25 100/112B5		KC50.9.029LM

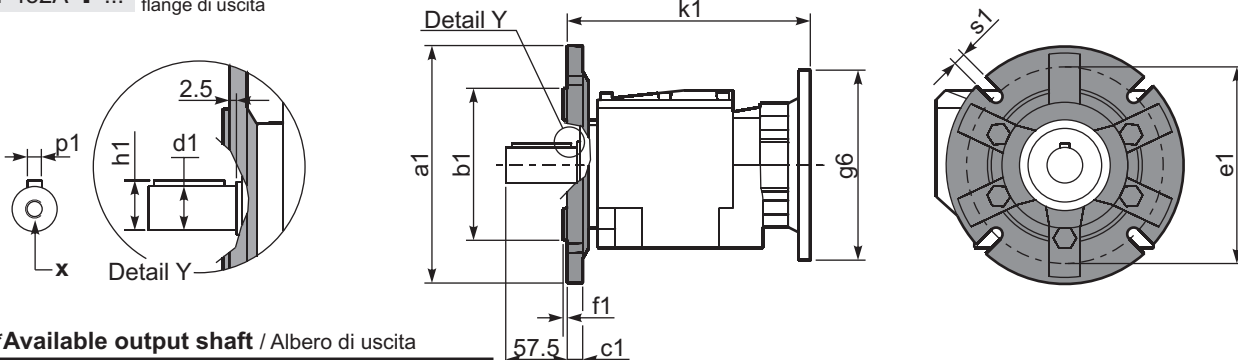
Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P452A-F...

Output flanges
flange di uscita



*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø 30x60	8	33	M10x22
On request A richiesta	ø 24x50	8	27	M8x19
	ø 25x50	8	28	M8x19
	ø 28x60	8	31	M8x19
	ø 35x60	10	38	M10x22

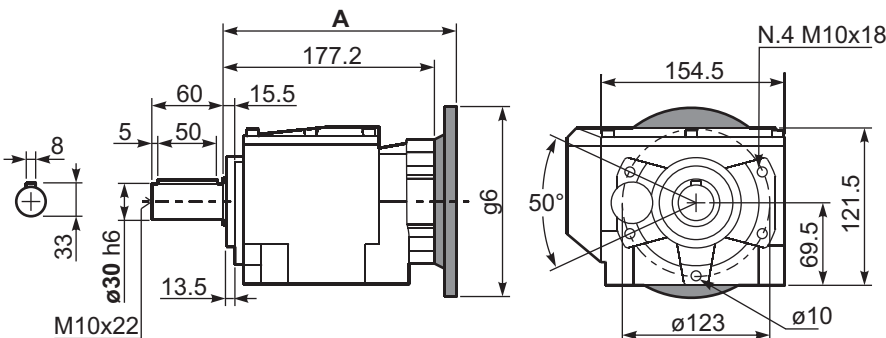
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	9	KC50.9.011
200	130	13	165	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request. Ask for compatibility

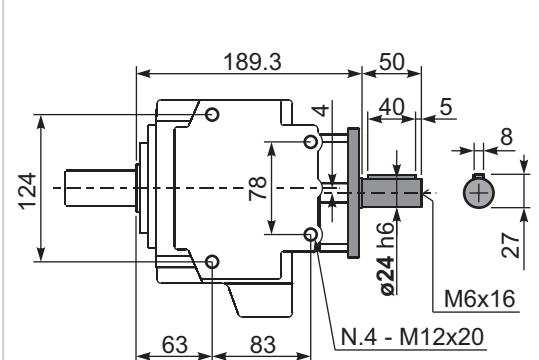
P452A-N...

Basic gearbox
Riduttore base



R452A-N...

Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B5	195.7	222	160	198.2	K023.4.041
80/90 B5	197.7	242	200	200.2	K023.4.042
100/112 B5	203.7	267	250	206.2	K023.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
80 B14	195.7	202	120	198.2	K085.4.046
90 B14	195.7	212	140	198.2	K085.4.045
100/112 B14	206.7	222	160	209.2	K085.4.047
132 B14	225.2	242	200	227.7	KC50.4.041



■ QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹											
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft	Ratios code		
							C	D	E	F	R	T	U	V				
							71	80	90	100*	112	80	90	100	112	132		
388	3.61	5.5	130	1.2	6.3	150	B										3018	-
331	4.23	5.5	152	1.1	6.1	170	B										3016	-
279	5.01	5.5	180	1.1	6.1	200	B										3014	-
231	6.07	5.5	219	1.1	6.3	250	B										3012	-
206	6.81	5.5	245	1.2	6.7	300	B										2018	-
176	7.96	5.5	287	1.2	6.3	330	B										2016	-
148	9.45	5.5	340	1.0	5.7	354	B										2014	standard
122	11.43	4	299	1.1	4.4	326	B										2012	ø30
99	14.21	3	279	0.9	2.7	250	B										2010	ø24
84	16.62	3	327	1.1	3.3	354	B										1314	ø25
70	20.10	2.2	290	1.1	2.5	326	B										1312	ø28
57	24.61	2.2	354	0.9	2.0	326	B										1112	ø35
56	24.98	1.5	245	1.0	1.5	250	B										1310	On request
47.6	29.41	1.5	289	1.2	1.8	354	B										814	
39.3	35.58	1.5	349	0.9	1.4	326	B										812	
34.6	40.50	1.1	292	1.0	1.1	295	B										614	
31.7	44.23	1.1	319	0.8	0.86	250	B										810	
28.6	49.00	1.1	353	0.9	1.0	326	B										612	
23.0	60.90	0.75	299	0.8	0.63	250	B										610	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

- Motor Flanges Available** Flange Motore Disponibili
- B) Supplied with Reduction Bushing** Fornito con Bussola di Riduzione
- B) Available on Request without reduction bushing** Disponibile a Richiesta senza Bussola di Riduzione
- C) Motor Flange Holes Position** Posizione Fori Flangia Motore

EN Unit **502A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **502A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **502A** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **502A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil					
	Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
0.45 LT	0.55 LT	1.00 LT	1.10 LT	1.10 LT	1.15 LT	1.10 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = F_R \cdot \frac{54}{X+24}$					
n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	460	2300	140	600	3000	70	780	3900
250	480	2400	120	620	3100	40	900	4500
200	520	2600	85	700	3500	15	1000	5000
Input shaft Albero in entrata								
n ₁	FA	FR						
1400	400	2000						
900	440	2200						
500	440	2200						

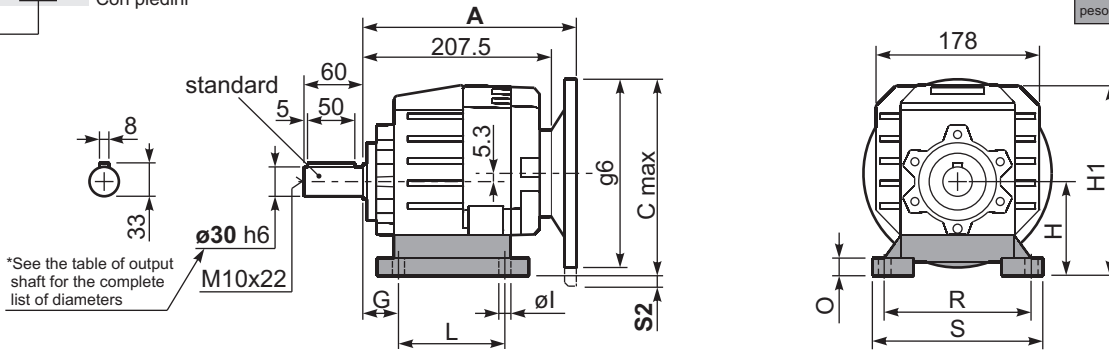
tab. 2

■ CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi		Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza		Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni		Documentation Documentazione		

P502A **B1** ... With feet
Con piedini

Wormbox weight With flange **11.7 kg**
peso riduttore With feet **11.9 Kg**



Feet / piedini

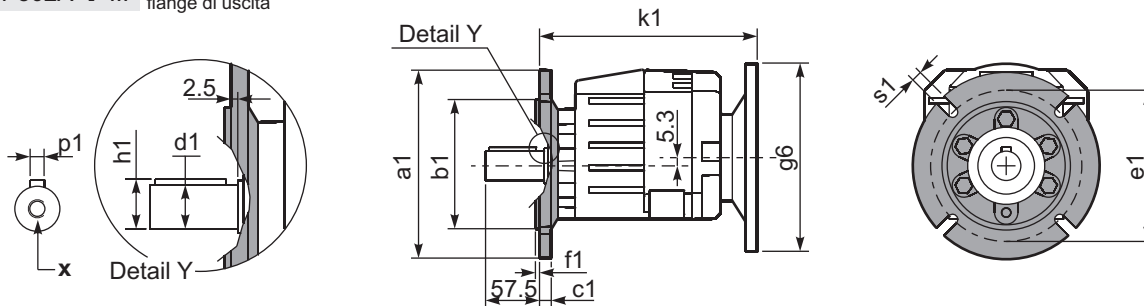
Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B3	312/3	18	110	160	130	190	211.5	20	11	10	100/112B5	KC50.9.024
B4	30/35	20	130	180	149.5	216	231.5	18	14			KC60.9.024
S4	47-57	30	115	135	165	170	216.5	24	13.5	5	100/112B5	KC50.9.022
H3	023-233	30	130	135	135	185	231.5	25	14			KC50.9.025
M2	52/3	30	110	135-150	100	190	226.5	18	11			KC50.9.023
L6	06	19	125	160	106	205	201.5	8	14		80/90B5	KC50.9.026LM
E2	2202/3	13	100	135	192	164	201.5	6	14	10	100/112B5	KC50.9.027LM
P4	142	35	142	130	145	160	243.5	8	14			KC50.9.028LM
J3	4100-05G	25	100	150	90	180	201.5	8	14	20	100/112B5	KC50.9.029LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P502A-**F** ... Output flanges
flange di uscita



*Available output shaft / Alberi di uscita

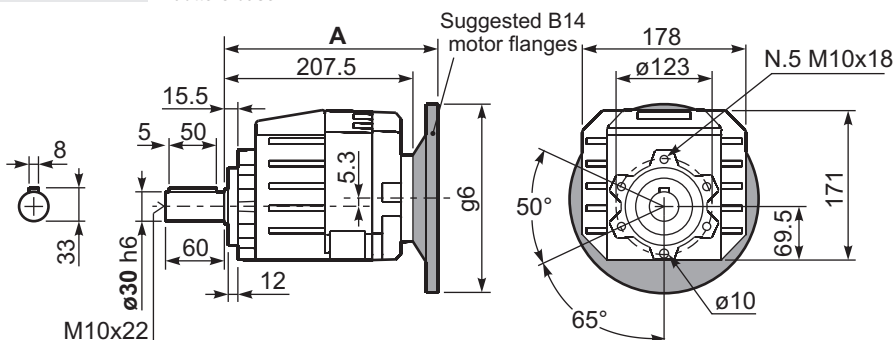
	Shaft - d1	p1	h1	x
Standard	ø 30x60	8	33	M10x22
On request A richiesta	ø 24x50	8	27	M8x19
	ø 25x50	8	28	M8x19
	ø 28x60	8	31	M8x19
	ø 35x60	10	38	M10x22

Available output flanges / flange di uscita

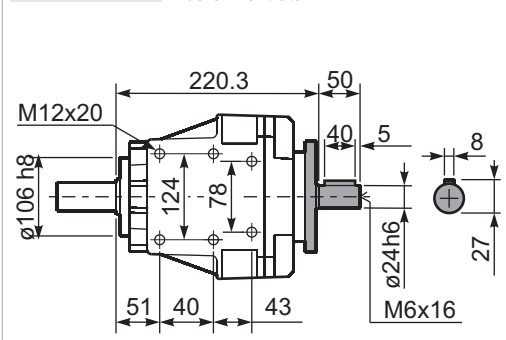
a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	9	KC50.9.011
200	130	13	165	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request. Ask for compatibility

P502A-**N** ... Basic gearbox
Riduttore base



R502A-**N** ... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B5	226	227.3	160	228.5	K023.4.041
80/90 B5	228	247.3	200	230.5	K023.4.042
100/112 B5	234	272.3	250	236.5	K023.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
80 B14	226	207.3	120	228.5	K085.4.046
90 B14	226	217.3	140	228.5	K085.4.045
100/112 B14	240.7	227.3	160	243.2	K085.4.047
132 B14	261.5	247	200	264	KC50.4.041



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹								
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft	Ratios code
							B	C	D	E	Q	R	T		
							63	71	80	90	71	80	90		
35.2	39.79	1.1	278	1.3	1.5	373	B				C	C		191316	-
29.6	47.22	1.1	330	1.1	1.2	354	B				C	C		191314	
25.6	54.73	1.1	382	0.9	1.0	354	B				C	C		171314	
21.1	66.22	0.75	315	1.0	0.78	326	B				C	C		171312	
18.3	76.69	0.75	365	1.0	0.73	354	B				C	C		131314	
16.7	83.59	0.55	292	1.2	0.67	354	B				C	C		190814	
15.1	92.78	0.55	324	1.0	0.55	326	B				C	C		131312	
13.4	104.67	0.55	365	1.0	0.53	354	B				C	C		101314	
11.9	117.22	0.37	275	1.2	0.44	326	B				C	C		170812	
11.1	126.65	0.37	297	1.1	0.41	326	B				C	C		101312	
10.2	136.62	0.37	321	1.1	0.41	354	B				C	C		91314	
8.5	165.29	0.25	262	1.2	0.31	326	B				C	C		91312	
7.8	180.40	0.25	286	1.2	0.31	354	B				C	C		71314	On request
6.4	218.26	0.25	346	0.9	0.24	326	B				C	C		71312	
5.8	241.82	0.25	384	0.9	0.23	354	B				C	C		90814	
4.8	292.57	0.18	334	1.0	0.18	326	B				C	C		90812	
4.4	319.32	0.18	365	1.0	0.17	354	B				C	C		70814	
3.6	386.33	0.18	441	0.7	0.13	326	B				C	C		70812	
2.9	480.16	0.18	548	0.5	0.08	250	B				C	C		70810	

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available Flange Motore Disponibili B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione B) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione C) Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **503A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **503A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **503A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **503A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.75 LT	0.75 LT	1.05 LT	1.15 LT	1.20 LT	1.20 LT	1.20 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = F_R \cdot \frac{54}{X+24}$					
n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	460	2300	140	600	3000	70	780	3900
250	480	2400	120	620	3100	40	900	4500
200	520	2600	85	700	3500	15	1000	5000
Input shaft Albero in entrata								
n ₁	FA	FR						
1400	400	2000						
900	440	2200						
500	440	2200						

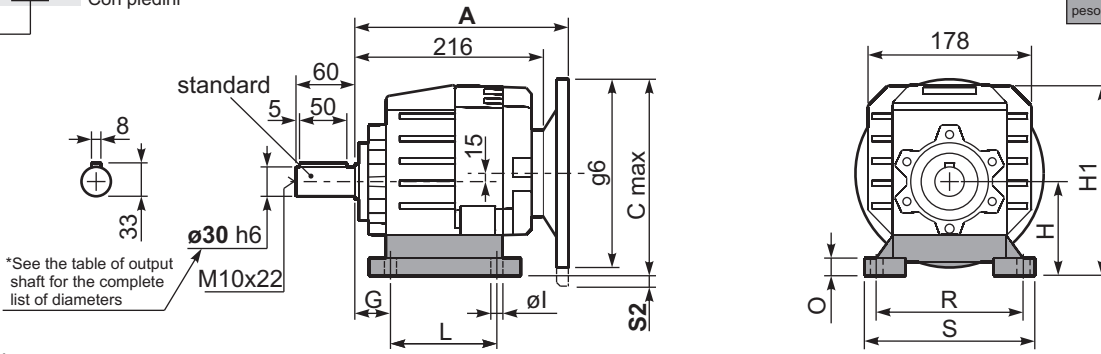
tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

P503A **B1** ... With feet
Con piedini

Wormbox weight With flange **11.9 kg**
peso riduttore With feet **12.1 Kg**



Feet / piedini

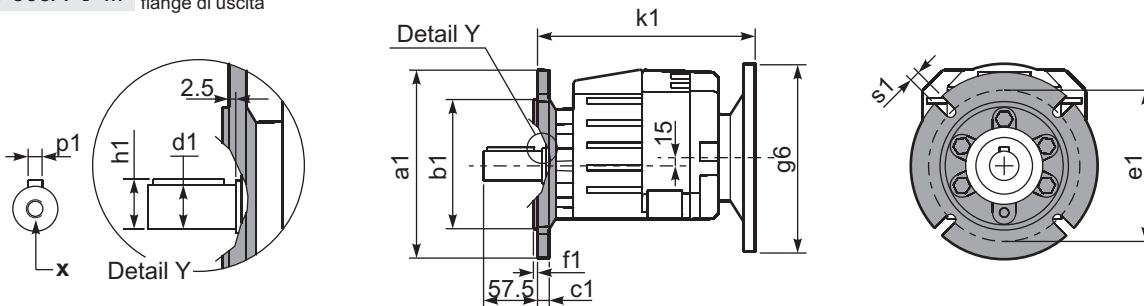
Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B3	312/3	18	110	160	130	190	211.5	20	11	10	100/112B5	KC50.9.024
B4	30/35	20	130	180	149.5	216	231.5	18	14			KC60.9.024
S4	47-57	30	115	135	165	170	216.5	24	13.5	5	100/112B5	KC50.9.022
H3	023-233	30	130	135	135	185	231.5	25	14			KC50.9.025
M2	52/3	30	110	135-150	100	190	226.5	18	11			KC50.9.023
L6	06	19	125	160	106	205	201.5	8	14		80/90B5	KC50.9.026LM
E2	2202/3	13	100	135	192	164	201.5	6	14	10	100/112B5	KC50.9.027LM
P4	142	35	142	130	145	160	243.5	8	14			KC50.9.028LM
J3	4100-05G	25	100	150	90	180	201.5	8	14	20	100/112B5	KC50.9.029LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P503A-**F** ... Output flanges
flange di uscita



***Available output shaft / Alberi di uscita**

	Shaft - d1	p1	h1	x
Standard	ø 30x60	8	33	M10x22
On request A richiesta	ø 24x50	8	27	M8x19
	ø 25x50	8	28	M8x19
	ø 28x60	8	31	M8x19
	ø 35x60	10	38	M10x22

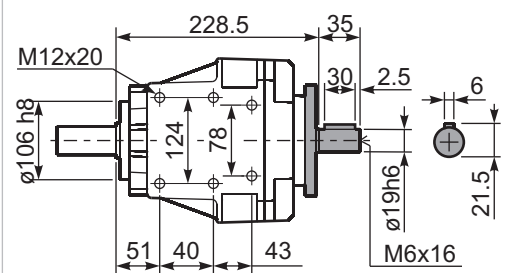
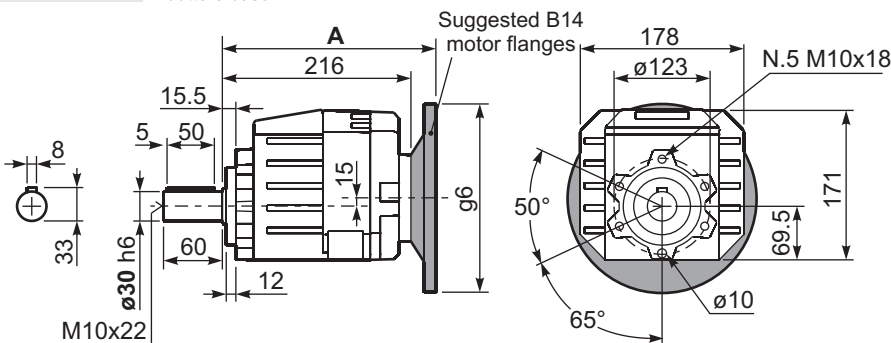
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	9	KC50.9.011
200	130	13	165	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request. Ask for compatibility

P503A-**N** ... Basic gearbox
Riduttore base

R503A-N ... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	236.5	227	140	239	K063.4.041
71 B5	234.5	237	160	237	K063.4.042
80/90 B5	236.5	257	200	239	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	234.5	209.5	105	237	K063.4.047
80 B14	235.5	217	120	238	K063.4.046
90 B14	236.5	227	140	239	K063.4.041



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft Ø	Ratios code
							C	D	E	F	R	T	U	V		
							71	80	90	100 112	80	90	100 112	132		
388	3.61	7.5	177	0.9	7.0	165	B								3018	standard ø35
331	4.23	7.5	208	1.0	7.2	200	B								3016	
279	5.01	7.5	246	1.0	7.3	240	B								3014	
231	6.07	7.5	298	0.9	6.8	270	B								3012	
206	6.81	5.5	245	1.4	7.6	340	B								2018	
176	7.96	5.5	287	1.3	7.1	370	B								2016	
148	9.45	5.5	340	1.2	6.5	400	B								2014	
122	11.43	5.5	412	1.0	5.3	400	B								2012	
99	14.21	4	372	1.1	4.3	400	B								2010	
84	16.62	4	435	1.2	4.6	501	B								1314	
70	20.10	4	527	0.9	3.8	499	B								1112	
57	24.61	3	483	1.0	3.1	492	B								1312	
56	24.98	3	491	0.8	2.4	400	B								1310	
47.6	29.41	2.2	424	1.0	2.3	440	B								814	
39.3	35.58	1.85	431	1.2	2.1	499	B								812	
34.6	40.50	1.1	292	1.1	1.2	310	B								614	
31.7	44.23	1.5	434	0.9	1.4	400	B								810	
28.6	49.00	1.1	353	1.0	1.1	368	B								612	
23.0	60.90	1.1	439	0.9	1.0	400	B								610	

The dynamic efficiency is **0.96** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **602A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **602A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **602A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **602A** se suministra, lubricado de por vida con aceite sintético y no requiren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.55 LT	0.85 LT	1.10 LT	1.20 LT	1.20 LT	1.25 LT	1.20 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{60.5}{X+25.5}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	560	2800	140	740	3700	70	890	4200
250	600	3000	120	760	3800	40	1160	5800
200	640	3200	85	840	4000	15	1300	6500

Input shaft
Albero in entrata

n ₁	FA	FR
1400	450	2250
900	500	2500
500	600	3000

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni

ATEX

Documentation
Documentazione

Mounting Positions
Posizioni montaggio

Stock and Logistic
Stock e logistica

Accessories and Options
Accessori e opzioni

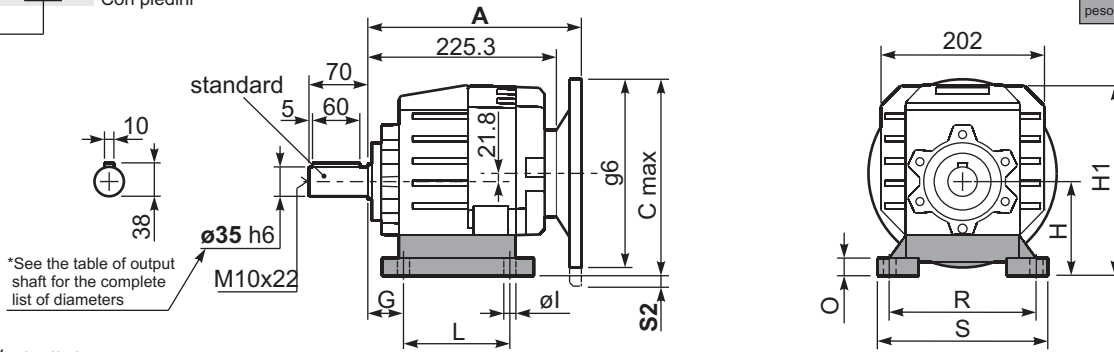
Selection Service Factor
Selezione e fattore di servizio

Spare Parts
Parti di ricambio

Installation & Maintenance
Installazione e manutenzione

P602A-B1... With feet
Con piedini

Wormbox weight **14.1 kg**
peso riduttore With flange
With feet **14.5 Kg**



*See the table of output shaft for the complete list of diameters

Feet / piedini

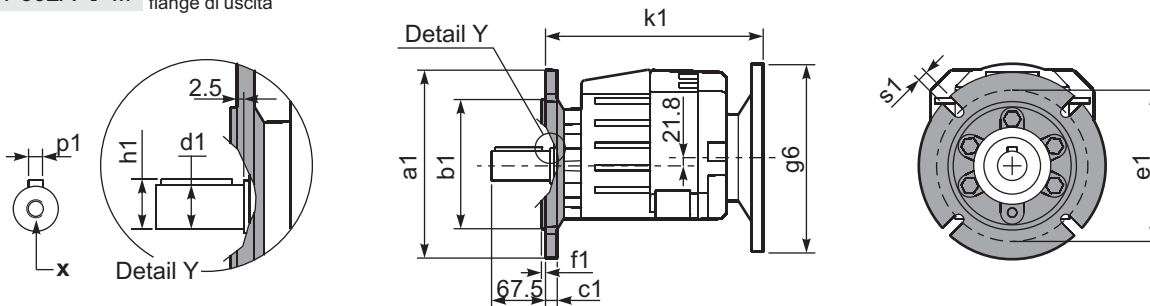
Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B4	412/3	20	130	180	149.5	216	233	18	14	-		KC60.9.024
S4	47-57	30	115	135	165	170	218	24	13.5	-		KC50.9.022
M3	62/3	35	120	170-185	110	230	223	20	14	-		KC60.9.023
S7	77	35	140	170	205	204	243	8	14	-		KC60.9.029LM
H4	024-243	35	155	170	150	225	258	30	14	-	100/112 B5	KC60.9.025
L6	06	19	125	160	106	205	228	8	14	-		KC50.9.026LM
E3	2302/3	19.5	125	170	240	205	228	8	14	-		KC60.9.026LM
P6	162	40	162	160	205	200	265	8	14	-		KC60.9.027LM
J4	4110G	27	120	190	115	225	223	8	14	-		KC60.9.028LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P602A-F... Output flanges
flange di uscita



*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø 35x70	10	38	M10x22
On request A richiesta	ø 28x60	8	31	M8x20
	ø 30x60	8	33	M10x22
	ø 38x70	10	41	M10x25
	ø 40x80	12	43	M12x28

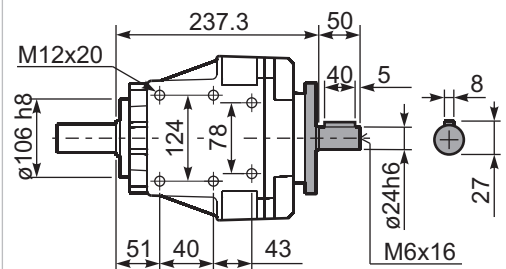
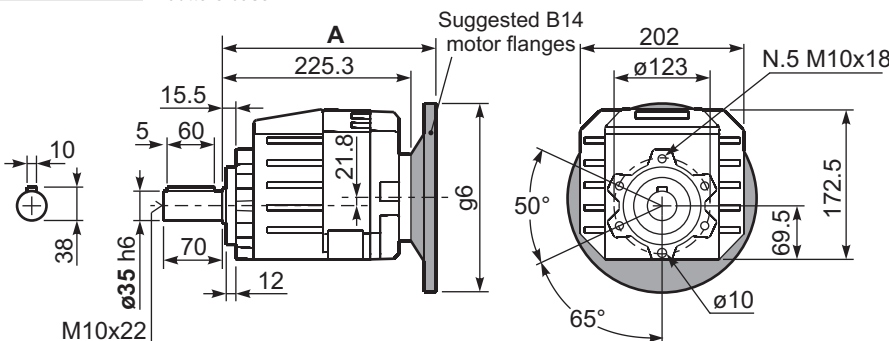
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	9	KC50.9.011
200	130	13	165	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request.
Ask for compatibility

P602A-N... Basic gearbox
Riduttore base

R602A-N... Input Shaft
Albero in entrata



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B5	243.8	263.8	160	246.3	K023.4.041
80/90 B5	245.8	283.8	200	248.3	K023.4.042
100/112 B5	251.8	308.8	250	254.3	K023.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
80 B14	243.8	243.8	120	246.3	K085.4.046
90 B14	243.8	253.8	140	246.3	K085.4.045
100/112 B14	258.5	263.8	160	261	K085.4.047
132 B14	279.5	283.8	200	282	KC50.4.041



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							B	C	D	E	Q	R	T		
							63	71	80	90	71	80	90		
35.2	39.79	1.5	379	1.1	1.7	434	B				C	C		191316	-
29.6	47.22	1.5	449	1.1	1.7	501	B				C	C		191314	
25.6	54.73	1.5	521	1.0	1.4	501	B				C	C		171314	
24.5	57.13	1.1	399	1.3	1.4	500	B				C	C		191312	
21.1	66.22	1.1	462	1.1	1.2	500	B				C	C		171312	
19.7	71.01	1.1	496	0.9	0.97	435	B				C	C		191310	
18.3	76.69	1.1	535	0.9	1.0	501	B				C	C		131314	
17.0	82.30	0.75	392	1.1	0.83	435	B				C	C		171310	
16.7	83.59	0.75	398	1.1	0.83	441	B				C	C		190814	
15.1	92.78	0.75	441	1.1	0.85	500	B				C	C		131312	
13.4	104.68	0.75	498	1.0	0.75	501	B				C	C		101314	
11.9	117.22	0.55	409	1.2	0.67	500	B				C	C		170812	ø28
11.1	126.65	0.55	442	1.1	0.62	500	B				C	C		101312	ø30
10.3	135.74	0.37	319	1.4	0.51	441	B				C	C		130814	ø38
9.6	145.68	0.37	342	1.3	0.47	435	B				C	C		170810	ø40
8.9	157.40	0.37	369	1.2	0.44	435	B				C	C		101310	On request
8.5	165.29	0.37	388	1.3	0.48	500	B				C	C		91312	
7.6	185.29	0.37	435	1.0	0.38	441	B				C	C		100814	
6.8	205.43	0.37	482	0.9	0.33	435	B				C	C		91310	
6.2	224.18	0.37	526	1.0	0.35	500	B				C	C		100812	
5.8	241.82	0.25	384	1.1	0.29	441	B				C	C		90814	
5.0	278.62	0.25	442	1.0	0.25	435	B				C	C		100810	
4.8	292.57	0.25	464	1.1	0.27	500	B				C	C		90812	
3.9	363.63	0.18	415	1.0	0.19	435	B				C	C		90810	

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

E Unit **603A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **603A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **603A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **603A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.75 LT	0.90 LT	1.15 LT	1.25 LT	1.30 LT	1.35 LT	1.30 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{60.5}{X+25.5}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	560	2800	140	740	3700	70	890	4200
250	600	3000	120	760	3800	40	1160	5800
200	640	3200	85	840	4000	15	1300	6500

Input shaft
Albero in entrata

n ₁	FA	FR
1400	400	2000
900	440	2200
500	440	2200

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

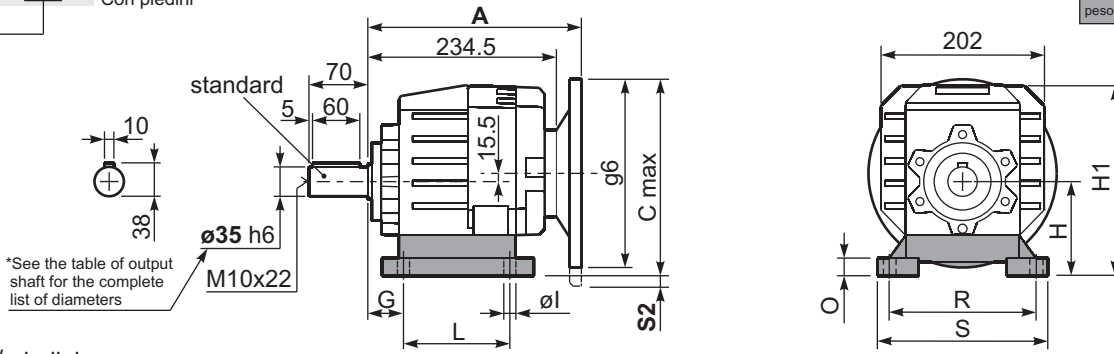
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni

P603A-B1... With feet
Con piedini

Wormbox weight **14.3 kg**
peso riduttore With flange
With feet **14.7 kg**



Feet / piedini

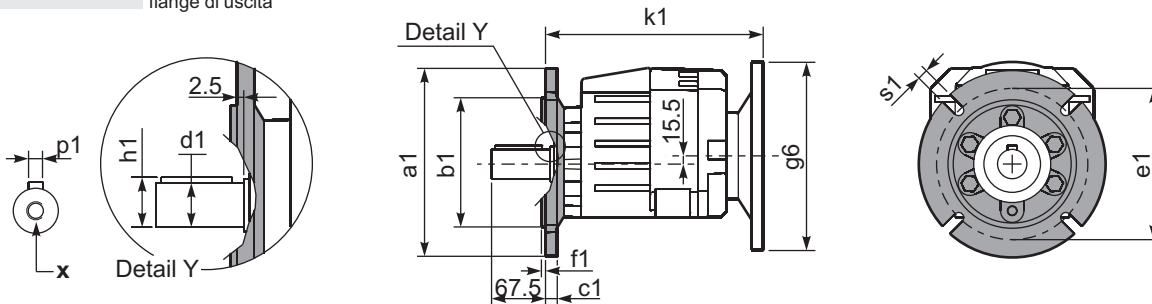
Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange	B5 max. Flange	kit code
B4	412/3	20	130	180	149.5	216	233	18	14	-		KC60.9.024
S4	47-57	30	115	135	165	170	218	24	13.5	-		KC50.9.022
M3	62/3	35	120	170-185	110	230	223	20	14	-		KC60.9.023
S7	77	35	140	170	205	204	243	8	14	-		KC60.9.029LM
H4	024-243	35	155	170	150	225	258	30	14	-	100/112 B5	KC60.9.025
L6	06	19	125	160	106	205	228	8	14	-		KC50.9.026LM
E3	2302/3	19.5	125	170	240	205	228	8	14	-		KC60.9.026LM
P6	162	40	162	160	205	200	265	8	14	-		KC60.9.027LM
J4	4110G	27	120	190	115	225	223	8	14	-		KC60.9.028LM

Other feet are available, see our web site
Sono disponibili altri piedini, consulta il nostro sito web

A see on page bottom

Most popular types
Tipi più diffusi

P603A-F... Output flanges
flange di uscita



*Available output shaft / Alberi di uscita

	Shaft - d1	p1	h1	x
Standard	ø 35x70	10	38	M10x22
On request A richiesta	ø 28x60	8	31	M8x20
	ø 30x60	8	33	M10x22
	ø 38x70	10	41	M10x25
	ø 40x80	12	43	M12x28

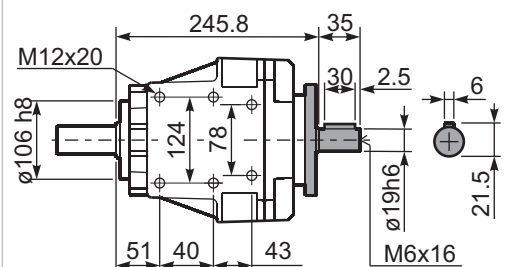
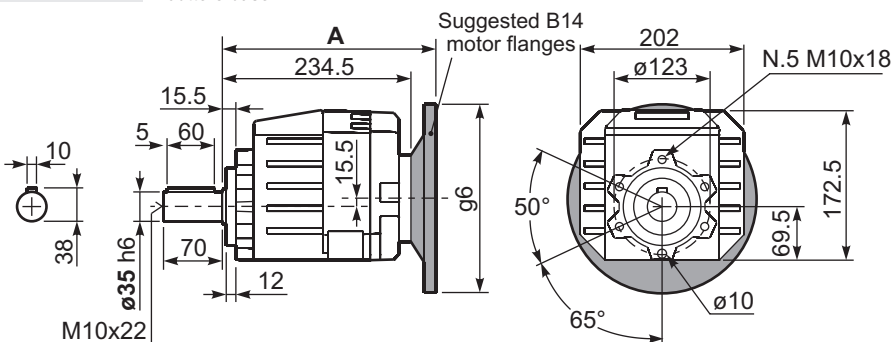
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
160	110	14	130	3.5	9	KC50.9.011
200	130	13	165	3.5	11	KC50.9.012
250	180	15.5	215	4	14	KC50.9.013

With flange and feet only on request.
Ask for compatibility

P603A-N... Basic gearbox
Riduttore base

R603A-N... Input Shaft
Albero in entrata

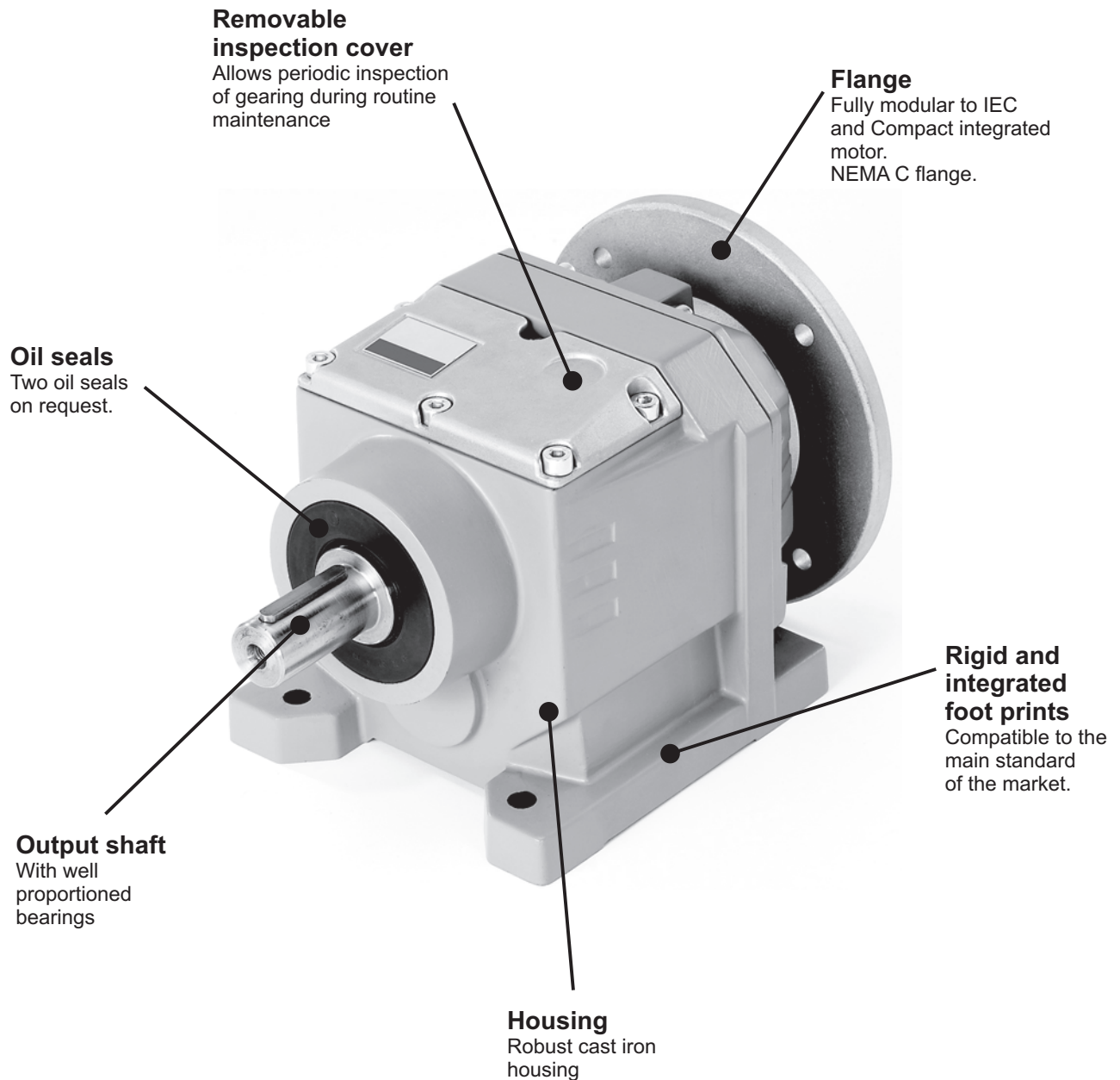


B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	255	247.5	140	257.5	K063.4.041
71 B5	253	257.5	160	255.5	K063.4.042
80/90 B5	255	277.5	200	257.5	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	253	230	105	255.5	K063.4.047
80 B14	254	237.5	120	256.5	K063.4.046
90 B14	255	247.5	140	257.5	K063.4.041

Cast iron in line gearboxes

A modular and compact product

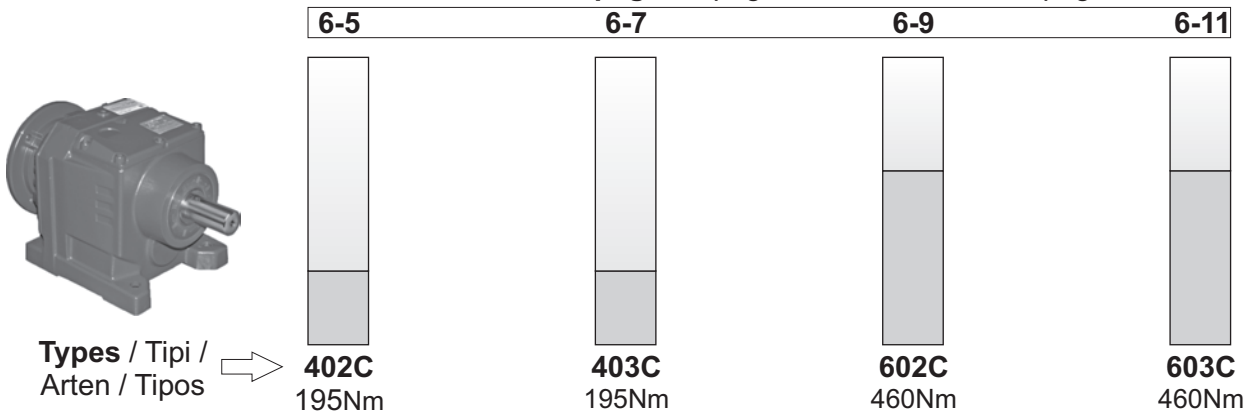


World wide sales network.

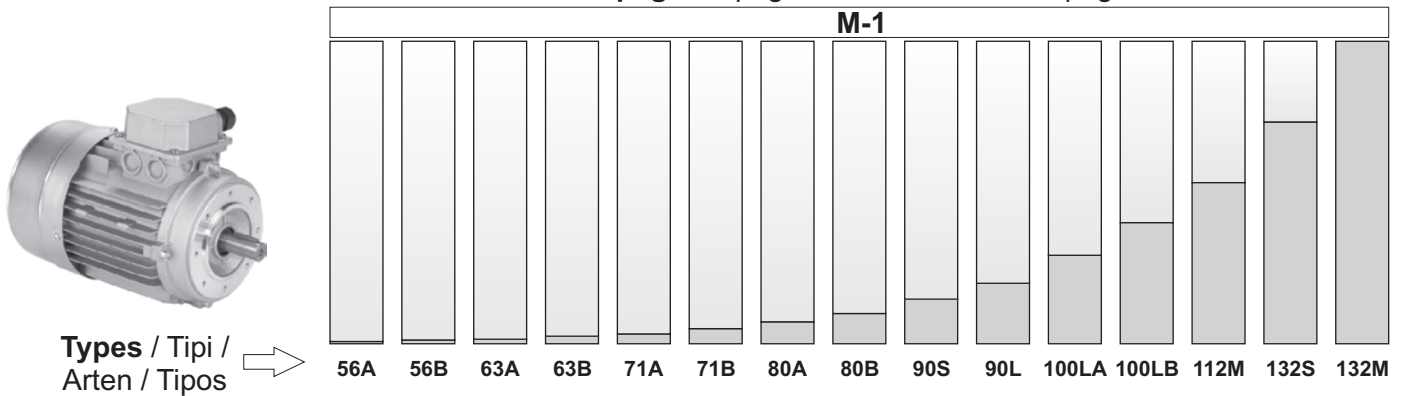
Lubricated for life with synthetic oil with operative range from -15° to $+130^{\circ}\text{C}$



On page / A pagina / Auf Seite / En la página



On page / A pagina / Auf Seite / En la página



For : / Per : / Für : / Para :

Selection guide - fs
Guida alla selezione

Mounting pos. - Lubrication
Pos. di montaggio - lubrificazione

2 - 6 poles selection
Selezione 2 - 6 poli

Radial - axial loads
Carichi radiali e assiali

Reversibility
Reversibilità

Thermal limit
Limite termico

Atex certification
Certificazione Atex

Accessories
Accessori

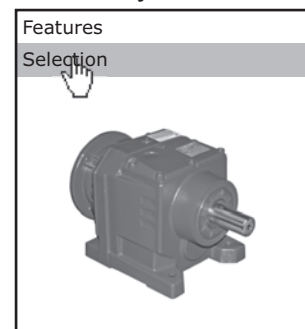
Download 3D drawings
Download disegni 3D

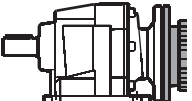
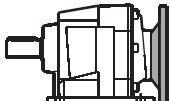
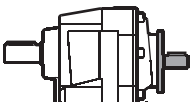
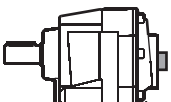
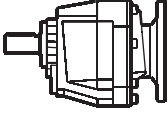
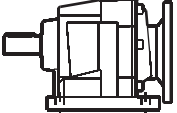
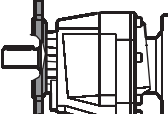
Interchangeability
Intercambiabilità

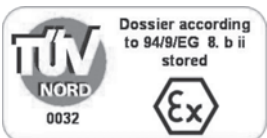
Installation and maintenance
Installazione, uso e manutenzione

Spare parts list
Liste parti di ricambio

See on our web site
www.hydromec.com
just click on the product
family button



Type - Tipo - Typ - Tipo	Size - Grandezza Grösse - Tomaño	Mounting - Montaggio - Montage - Tipo de montaje
P	402C	-F
<p>Cast iron coaxial gear boxes Riduttori coassiali in ghisa</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>With IEC motor M</p> </div> <div style="text-align: center;">  <p>With motor flange P</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>With male input shaft R</p> </div> <div style="text-align: center;">  <p>Modular base B</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>2 Stages Riduzioni Stufen Etapas</p> <div style="background-color: #cccccc; padding: 5px; width: 60px; margin: 0 auto;">402C</div> <div style="background-color: #cccccc; padding: 5px; width: 60px; margin: 0 auto;">602C</div> </div> <div style="text-align: center;"> <p>3 Stages Riduzioni Stufen Etapas</p> <div style="background-color: #cccccc; padding: 5px; width: 60px; margin: 0 auto;">403C</div> <div style="background-color: #cccccc; padding: 5px; width: 60px; margin: 0 auto;">603C</div> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Without flange/feet -N</p> </div> <div style="text-align: center;">  <p>Integral feet SP</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Output flange mounted -F</p> </div>



Dossier according to 94/9/EG 8. b ii stored

A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Ratio - Rapporto
Untersetzung
Relación

Output shaft
Albero lento
Abtriebswelle
Eje en solida

Output flange
Flangia uscita
Ausgangsflansch
Brida en salida

Motor size
Grandezza motore
Motor Größe
Tamaño motor

Terminal box position
Posizione morsettiere
Klemmkastenlage
Posición caja de bornes

Mounting position
Posizione montaggio
Einbaulage
Position de montaje

7.33

V

2

C

B

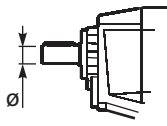
B3

See technical data table

Vedi tabelle dati tecnici.

Technisches Datenblatt beachten.

Ver tabla datos técnicos



→ STANDARD

402C 403C

S ⇒ Ø14

B ⇒ Ø16

C ⇒ Ø19

D ⇒ Ø20

E ⇒ Ø24

V ⇒ Ø25

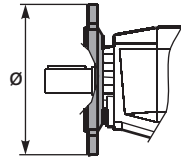
602C 603C

H ⇒ Ø30

I ⇒ Ø35

L ⇒ Ø38

M ⇒ Ø40



N Senza flangia
Without flange

402C 403C

1 ⇒ Ø120

2 ⇒ Ø140

3 ⇒ Ø160

4 ⇒ Ø200

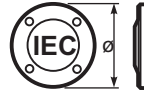
602C 603C

3 ⇒ Ø160

4 ⇒ Ø200

5 ⇒ Ø250

Standard Flange
Flangia Standard



B5

A=56
(Ø120)

B=63
(Ø140)

C=71
(Ø160)

D=80
(Ø200)

E=90
(Ø200)

F=100+112
(Ø250)

B14

O=56
(Ø80)

P=63
(Ø90)

Q=71
(Ø105)

R=80
(Ø120)

T=90
(Ø140)

U=100+112
(Ø160)

V=132
(Ø200)

Reduced flange / Flangia ridotta

402C 403C
603C

1 ⇒ Ø19
(71B5)

2 ⇒ Ø24
(80B5)

3 ⇒ Ø28
(90B5)

602C

5 ⇒ Ø24
(80B5)

6 ⇒ Ø28
(90B5)

Type R / Tipo R



402C 403C
603C

3 ⇒ Ø24

602C

2 ⇒ Ø19

Without flange / Senza flangia



402C 403C
603C

1 ⇒ Ø14
(71B5)

2 ⇒ Ø19
(80B5)

3 ⇒ Ø24
(90B5)

602C

2 ⇒ Ø19
(80B5)

3 ⇒ Ø24
(90B5)

4 ⇒ Ø28
(100B5)

→ STANDARD



A



B

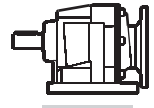
STANDARD



C

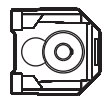


D

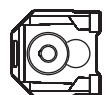


B3

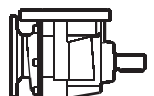
STANDARD



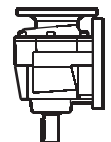
B6



B7



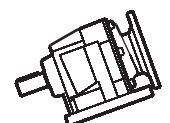
B8



V5



V6



V8

Specify only for vertical positions

Specificare solo per posizione verticale

POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / elevación

$$P \text{ [KW]} = \frac{M \text{ [Kg]} \cdot g \text{ [9.81]} \cdot v \text{ [m / s]}}{1000}$$

Rotation / rotazione / drehung / rotation

$$P \text{ [KW]} = \frac{M \text{ [Nm]} \cdot n \text{ [rpm]}}{9550}$$

Linear movement / traslazione / linearbewegung / translacion

$$P \text{ [KW]} = \frac{F \text{ [N]} \cdot v \text{ [m / s]}}{1000}$$

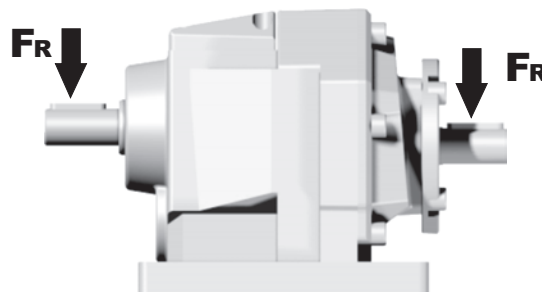
TORQUE / COPPIA / DREHMOMENT / PAR

$$M \text{ [Nm]} = \frac{9550 \cdot P \text{ [KW]}}{n \text{ [rpm]}}$$

$$M \text{ [lb in]} = \frac{63030 \cdot P \text{ [HP]}}{n \text{ [rpm]}}$$

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CARGA RADIAL Y AXIAL

- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



	$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$	$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$
M	Momento torcente / Output torque / Abtriebsdrehmoment / Par torsion	
d	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diámetro primitivo	
f_k	Coefficiente di trasformazione / Factor / Faktor / Coefficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Correa plana	

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

How to select a gearbox / Come selezionare un riduttore
Wie wählt man ein Getriebe / Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Abtriebsdrehzahl
Velocidad de salida

Nominal power
Potenza nominale
Max. mögliche Leistung
Potencia nominal

A Nominal torque
Momento torcente nominale
Nenn Drehmoment
Par de torsión nominal

Flange code
Codice flangia
Flanschtype
Código bridas

Input speed
Velocità in entrata
Eintriebsdrehzahl
Velocidad de entrada

Gear size
Grandezza riduttore
Getriebegröße
Tamaño reductor

Motor power
Potenza motore
Motorleistung
Potencia motor

402C

Coaxial - Gear 195Nm

Rating - Cast Iron COAXIAL GEARBOXES

QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft		
							B	C	D	E	Q	R	T	U			Ratio code
398	5.55	3	109	1.1	3.5	120	B				C	C			2821		-
320	7.33	3	144	1.0	3.1	150	B				C	C			2812		
252	8.96	3	176	0.9	2.8	160	B				C	C			2810		
220	10.04	2.2	145	1.0	2.3	150	B				C	C			1915		
191	11.64	2.2	168	1.0	2.5	160	B				C	C			1715		

C Ratio
Rapporto
Untersetzung
Relación

Transmitted torque
Momento torcente trasmesso
Mögliche Drehmomente
Par transmitido

Service factor
Fattore di servizio
Betriebsfaktor
Factor de servicio

Output shaft diam.
Diam. albero uscita
Durchmesser abtriebswelle
Diámetro eje de salida

Notes
Note
Anmerkungen
Notas

D	Motor flange available Flange disponibili Erhältliche Motorflansche Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Reduzierhülsen Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-sockel Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Auch ohne Reduzierbuchse verfügbar Disponibile también sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Max. Drehmoment in Bezug zum Betriebsfaktor	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft	Ratios code
							B	C	D	E	Q	R	T	U		
							63	71	80*	90*	71	80	90	100 112		
252	5.55	3	109	1.1	3.3	120	B				C	C			2815	standard ø25
191	7.33	3	144	1.0	3.1	150	B				C	C			2812	
156	8.96	3	176	0.9	2.7	160	B				C	C			2810	
139	10.04	2.2	145	1.0	2.3	150	B				C	C			1915	
120	11.64	2.2	168	1.0	2.1	160	B				C	C			1715	
106	13.26	2.2	191	0.9	2.1	180	B				C	C			1912	
91	15.37	1.5	151	1.3	1.9	196	B				C	C			1712	
86	16.20	1.5	159	1.1	1.6	170	B				C	C			1910	
75	18.78	1.5	184	0.9	1.4	170	B				C	C			1710	
65	21.54	1.1	155	1.3	1.4	196	B				C	C			1312	
63	22.26	1.1	160	1.0	1.1	155	B				C	C			1015	
53	26.31	0.75	129	1.3	1.0	170	B				C	C			1310	
47.6	29.40	0.75	144	1.4	1.0	196	B				C	C			1012	
39	35.91	0.75	176	1.0	0.72	170	B				C	C			1010	
36.5	38.37	0.55	138	1.3	0.72	180	B				C	C			912	
29.9	46.87	0.55	169	1.0	0.55	170	B				C	C			910	
27.6	50.67	0.37	123	1.2	0.45	150	B				C	C			712	
22.6	61.89	0.37	150	1.1	0.42	170	B				C	C			710	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

- Motor Flanges Available / Flange Motore Disponibili
- B) Supplied with Reduction Bushing / Fornito con Bussola di Riduzione
- B) Available on Request without reduction bushing / Disponibile a Richiesta senza Bussola di Riduzione
- C) Motor Flange Holes Position / Posizione Fori Flangia Motore

EN Unit **402C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **402C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **402C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **402C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
B3	B6	B7	B8	V5	V6	V8	
0.50 LT	0.50 LT	0.50 LT	0.50 LT	0.65 LT	0.85 LT	0.65 LT	
AGIP Teliun VSF 320		BP Energol SGXP220		SHELL Tivela Oil WB		KLUBER Syntheso D220 EP	
MOBIL Glygoyle 30							

tab. 1

RADIAL AND AXIAL LOADS

Output shaft / Albero di uscita

$F_{eq} = FR \cdot \frac{46}{X+21}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	400	2000	140	540	2700	70	760	3800
250	440	2200	120	590	2900	40	860	4300
200	470	2350	85	680	3400	15	860	4300

Input shaft / Albero in entrata

n ₁	FA	FR
1400	240	1200
900	280	1400
500	340	1700

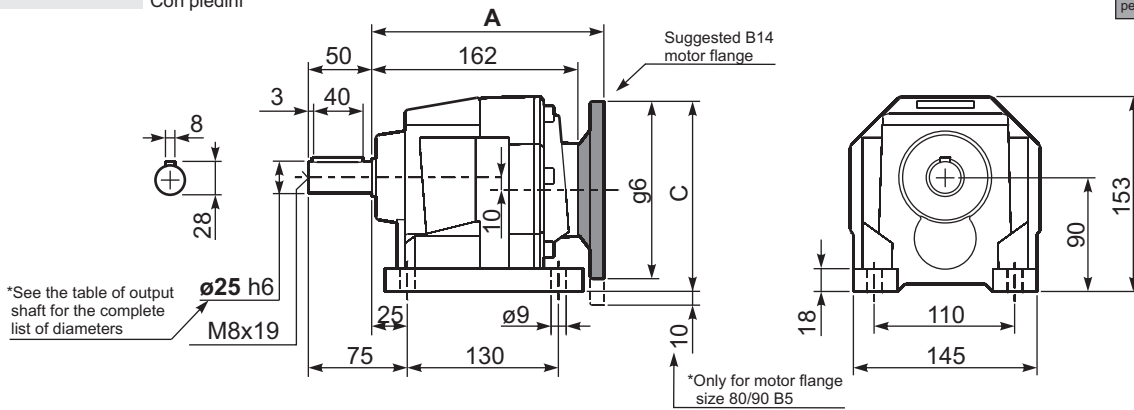
tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

P402C-SP... With feet
Con piedini

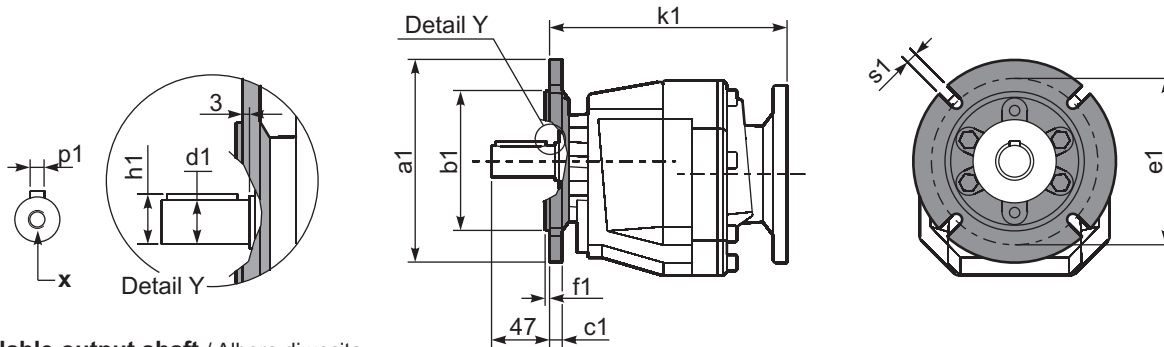
Wormbox weight With flange **8.2 kg**
peso riduttore With feet **9.5 Kg**



B5 Motor Flanges	A	C _{max}	g6	k1	kit code
63 B5	182.5	150	140	185.5	K063.4.041
71 B5	180.5	160	160	183.5	K063.4.042
80/90 B5	182.5	190	200	185.5	K063.4.043

B14 Motor Flanges	A	C _{max}	g6	k1	kit code
71 B14	180.5	133	105	183.5	K063.4.047
80 B14	181.5	140	120	184.5	K063.4.046
90 B14	182.5	150	140	185.5	K063.4.041
100/112 B14	198.5	160	160	201.5	KC40.4.041

P402C-F... Output flanges
flange di uscita



*Available output shaft / Albero di uscita

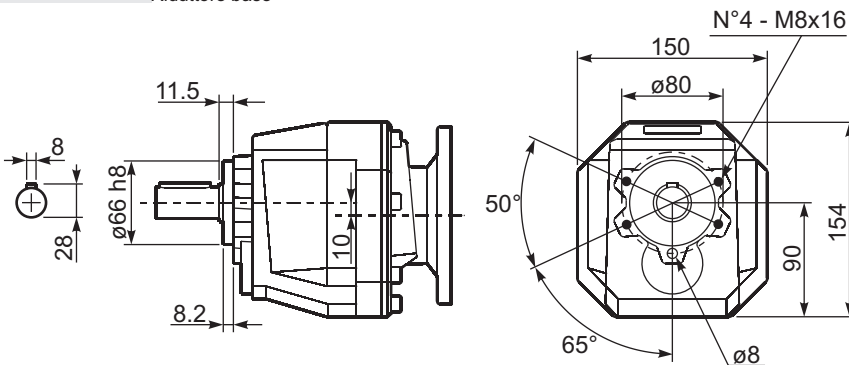
	Shaft - d1	p1	h1	x
Standard	ϕ 25x50	8	28	M8x19
On request A richiesta	ϕ 14x40	5	16	M5x13
	ϕ 16x40	5	18	M6x16
	ϕ 19x40	6	21.5	M6x16
	ϕ 20x40	6	22.5	M8x19
	ϕ 22x40	6	24.5	M8x19
	ϕ 24x50	8	27	M8x19

Available output flanges / flange di uscita

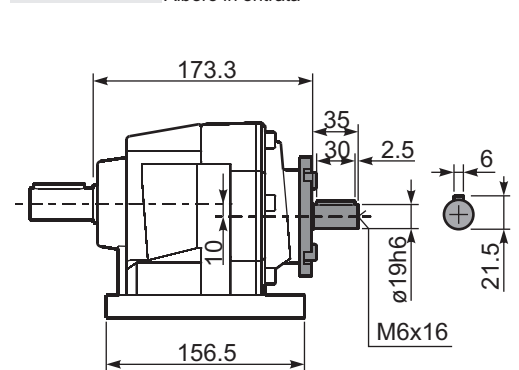
a1 ϕ	b1	c1	e1	f1	s1	kit code
120	80	10	100	3	9	KC40.9.010C
140	95	10	115	3	9	KC40.9.011C
160	110	10	130	3	9	KC40.9.012C
200	130	11	165	3.5	11	KC40.9.013C

With flange and feet only on request. Ask for compatibility

P402C-N... Basic gearbox
Riduttore base



R402C SP... Input Shaft
Albero in entrata





QUICK SELECTION / Selezione veloce input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft	Ratios code		
							B	C	D	E	Q	R	T				
							63	71	80*	90*	71	80	90				
36.5	38.34	0.75	182	1.0	0.72	175	B				C	C		171715	standard ø25	-	
32.0	43.69	0.75	208	0.9	0.70	195	B				C	C		191712			
27.6	50.64	0.37	119	1.6	0.61	195	B				C	C		171712			
22.5	62.22	0.37	146	1.3	0.49	195	B				C	C		191312			
19.7	70.95	0.37	167	1.2	0.43	195	B				C	C		131712			ø14
18.7	74.77	0.37	176	1.0	0.37	175	B				C	C		191310			ø16
16.2	86.66	0.37	203	0.9	0.32	175	B				C	C		131710			ø19
14.5	96.85	0.25	154	1.3	0.32	195	B				C	C		101712			ø20
11.8	118.29	0.25	188	0.9	0.23	175	B				C	C		101710			ø22
10.3	135.69	0.18	155	1.3	0.23	195	B				C	C		101312			ø24
8.4	165.74	0.18	189	0.9	0.17	175	B				C	C		101310			On request

The dynamic efficiency is **0.93** for all ratios *With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

Motor Flanges Available Flange Motore Disponibili
 B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 B) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 C) Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **403C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **403C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **403C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **403C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.55 LT	0.55 LT	0.55 LT	0.55 LT	0.70 LT	0.90 LT	0.70 LT
AGIP Telim VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS								
Output shaft / Albero di uscita			Input shaft / Albero in entrata			Equation		
						$F_{eq} = FR \cdot \frac{46}{X+21}$		
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	400	2000	140	540	2700	70	760	3800
250	440	2200	120	590	2900	40	860	4300
200	470	2350	85	680	3400	15	860	4300
						n_1	FA	FR
						1400	240	1200
						900	280	1400
						500	340	1700

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code
							C	D	E	F	R	T	U	V		
							71	80	90	100 112	80	90	100 112	132		
388	3.61	7.5	177	0.9	7.0	165	B								3018	standard ø35
331	4.23	7.5	208	1.0	7.2	200	B								3016	
279	5.01	7.5	246	1.0	7.3	240	B								3014	
231	6.07	7.5	298	0.9	6.8	270	B								3012	
206	6.81	5.5	245	1.4	7.6	340	B								2018	
176	7.96	5.5	287	1.3	7.1	370	B								2016	
148	9.45	5.5	340	1.2	6.5	400	B								2014	
122	11.43	5.5	412	1.0	5.3	400	B								2012	
99	14.21	4	372	1.2	4.7	435	B								2010	
84	16.62	4	435	1.2	4.6	501	B								1314	
70	20.10	4	527	0.9	3.8	499	B								1312	
56	24.98	3	491	0.9	2.7	435	B								1310	
47.6	29.41	2.2	424	1.0	2.3	440	B								0814	
39.3	35.58	1.85	431	1.2	2.1	499	B								0812	
34.6	40.50	1.1	292	1.1	1.2	310	B								0614	
31.7	44.23	1.5	434	1.0	1.5	435	B								0810	
28.6	49.00	1.1	353	1.0	1.1	368	B								0612	
23.0	60.90	1.1	439	1.0	1.1	435	B								0610	

The dynamic efficiency is **0.96** for all ratios

*With "P" mounting, it's not possible to use these flanges; possibly, mount a B14 flange
Nel montaggio P non è possibile utilizzare queste flange; eventualmente utilizzare la flangia B14

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **602C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **602C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **602C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **602C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
B3	B6	B7	B8	V5	V6	V8	
1.00 LT	1.50 LT	1.50 LT	1.50 LT	2.00 LT	2.00 LT	2.00 LT	
AGIP Teliun VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30			

tab. 1

RADIAL AND AXIAL LOADS								
Output shaft / Albero di uscita								
						$Feq = Fr \cdot \frac{60.5}{X+25.5}$		
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	580	2900	140	760	3800	70	1000	5000
250	620	3100	120	800	4000	40	1200	6000
200	660	3300	85	960	4800	15	1450	7260
Input shaft / Albero in entrata								
n_1	FA	FR						
1400	450	2250						
900	500	2500						
500	600	3000						

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Output Shaft 	Ratios code
							B	C	D	E	Q	R	T			
							63	71	80	90	71	80	90			
35.2	39.79	1.5	379	1.1	1.7	434	B				C	C		191318		-
29.6	47.22	1.5	449	1.1	1.7	501	B				C	C		191316		
25.6	54.73	1.5	521	1.0	1.4	501	B				C	C		191314		
24.5	57.13	1.1	399	1.3	1.4	500	B				C	C		171314		
21.1	66.22	1.1	462	1.1	1.2	500	B				C	C		191312		
19.7	71.01	1.1	496	0.9	0.97	435	B				C	C		171312		
18.3	76.69	1.1	535	0.9	1.0	501	B				C	C		191312		
17.0	82.30	0.75	392	1.1	0.83	435	B				C	C		131314	standard	
16.7	83.59	0.75	398	1.1	0.83	441	B				C	C		171310	ø35	
15.1	92.78	0.75	441	1.1	0.85	500	B				C	C		190814	ø28	
13.4	104.68	0.75	498	1.0	0.75	501	B				C	C		131312	ø30	
11.9	117.22	0.55	409	1.2	0.67	500	B				C	C		101314	ø38	
11.1	126.65	0.55	442	1.1	0.62	500	B				C	C		170812	ø40	
10.3	135.74	0.37	319	1.4	0.51	441	B				C	C		101312	On request	
9.6	145.68	0.37	342	1.3	0.47	435	B				C	C		130814		
8.9	157.40	0.37	369	1.2	0.44	435	B				C	C		170810		
8.5	164.23	0.37	385	1.3	0.48	500	B				C	C		101310		
7.6	185.29	0.37	435	1.0	0.38	441	B				C	C		130812		
6.9	204.16	0.37	479	0.9	0.34	435	B				C	C		100814		
6.2	224.18	0.37	526	1.0	0.35	500	B				C	C		130810		
5.0	278.62	0.25	442	1.0	0.25	435	B				C	C		100812		

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili
B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione
B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione
C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **603C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **603C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **603C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **603C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
1.30 LT	1.50 LT	1.50 LT	1.50 LT	2.10 LT	2.00 LT	2.10 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

tab. 1

RADIAL AND AXIAL LOADS

Output shaft / Albero di uscita

$F_{eq} = F_r \cdot \frac{60.5}{X+25.5}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	580	2900	140	760	3800	70	1000	5000
250	620	3100	120	800	4000	40	1200	6000
200	660	3300	85	960	4800	15	1450	7260

Input shaft / Albero in entrata

n ₁	FA	FR
1400	400	2000
900	440	2200
500	440	2200

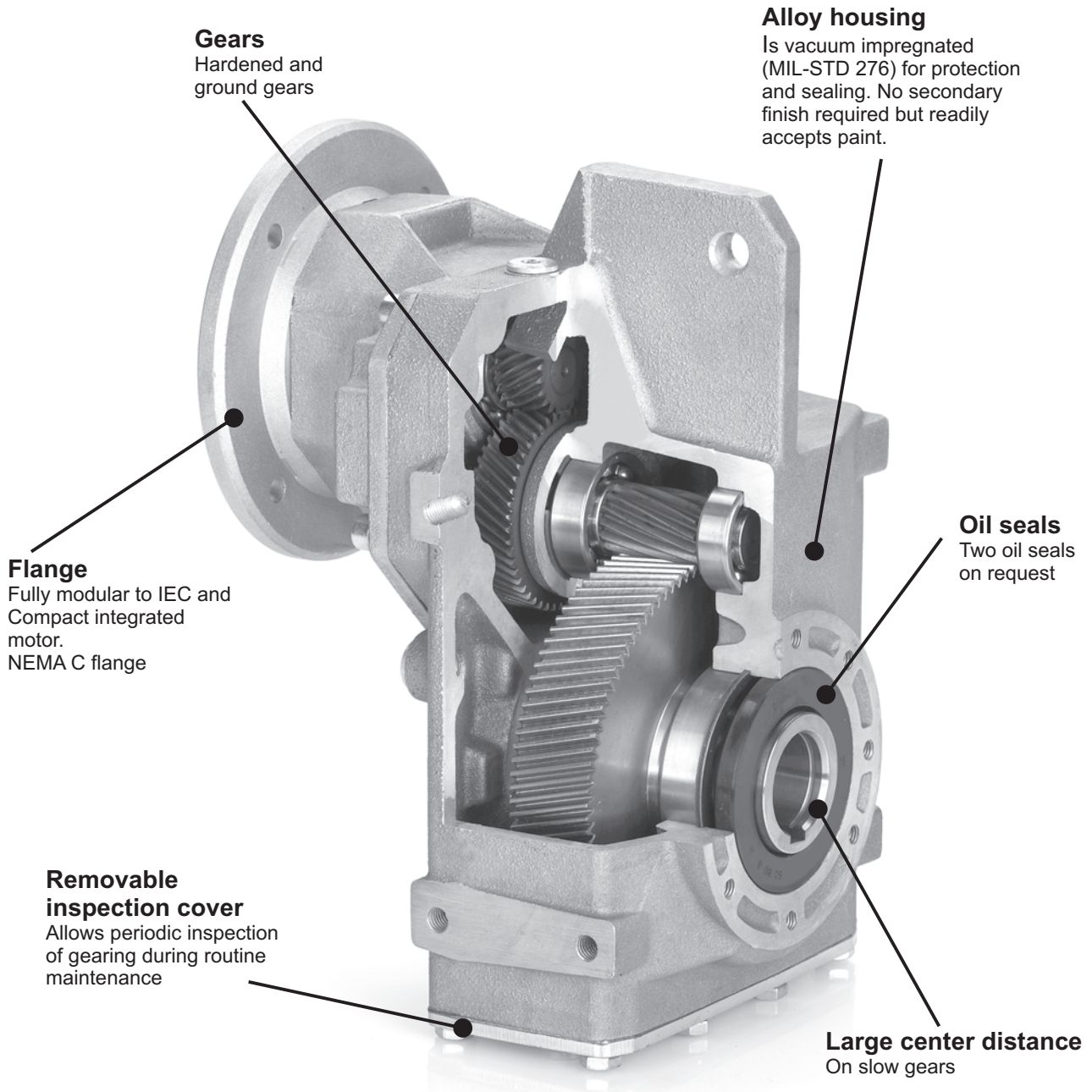
tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi		Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza		Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni				

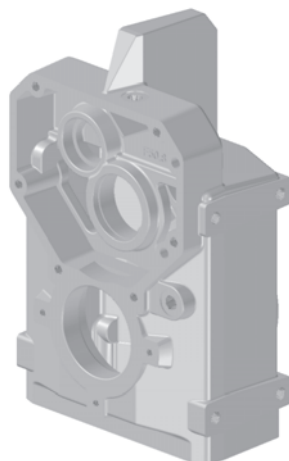
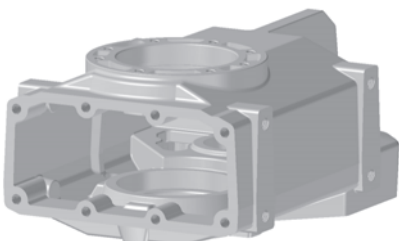
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A modular and compact product



Single-piece aluminum / Cast Iron housing

Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing



World wide sales network.

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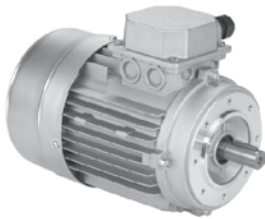


Types / Tipi /
Arten / Tipos



7-5	7-7	7-9	7-11	7-13	7-15	7-17	7-19	7-21	7-23
F32A 200Nm	F33A 200Nm	F42A 350Nm	F43A 350Nm	F52A 510Nm	F53A 510Nm	F62C 670Nm	F63C 670Nm	FS20 90Nm	FS50 450Nm

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Types / Tipi /
Arten / Tipos



M-1														
56A	56B	63A	63B	71A	71B	80A	80B	90S	90L	100LA	100LB	112M	132S	132M

For : / Per : / Für : / Para :

Selection guide - fs
Guida alla selezione

Mounting pos. - Lubrication
Pos. di montaggio - lubrificazione

2 - 6 poles selection
Selezione 2 - 6 poli

Radial - axial loads
Carichi radiali e assiali

Reversibility
Reversibilità

Thermal limit
Limite termico

Atex certification
Certificazione Atex

Accessories
Accessori

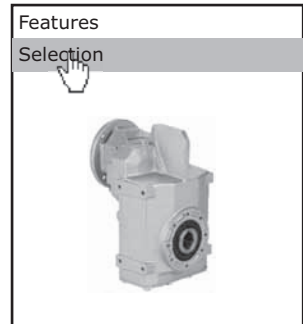
Download 3D drawings
Download disegni 3D

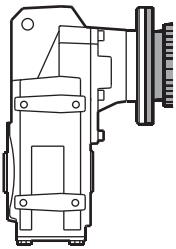
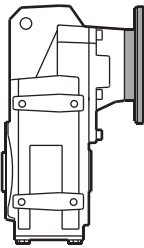
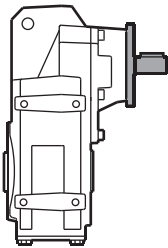
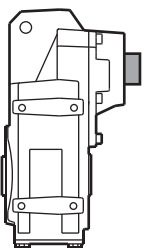
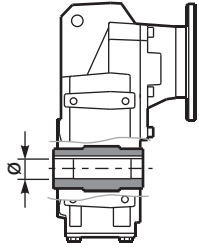
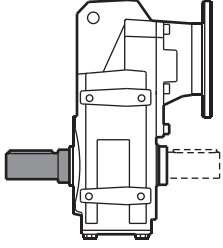
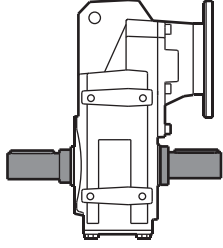
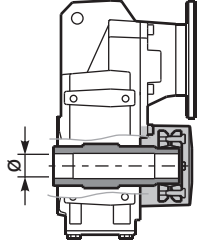
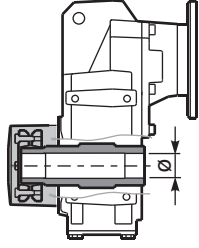
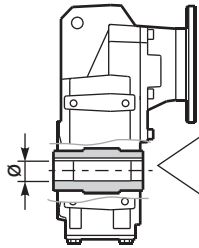
Interchangeability
Intercambiabilità

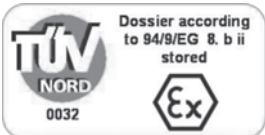
Installation and maintenance
Installazione, uso e manutenzione

Spare parts list
Liste parti di ricambio

See on our web site
www.hydromec.com
just click on the product
family button



Type - Tipo - Typ - Tipo	Size - Grandezza Größe - Tomaño	Mounting - Montaggio Montage - Tipo de montaje	Rapporto - Ratio Untersetzung - Relacion
M	F32A	C	10.40
<p>Shaft mounted helical Riduttori ad assi paralleli</p>  <p>With IEC motor</p> <p style="text-align: center;">M</p>  <p>With motor flange</p> <p style="text-align: center;">P</p>  <p>With male input shaft</p> <p style="text-align: center;">R</p>  <p>Modular base</p> <p style="text-align: center;">B</p>	<p>2 Stages Riduzioni Stufen Etapas</p> <p>3 Stages Riduzioni Stufen Etapas</p> <p style="text-align: center;">Aluminum Alluminio Aluminium Aluminio</p> <p style="text-align: center;">F32A F42A F52A</p> <p style="text-align: center;">F33A F43A F53A</p> <p style="text-align: center;">Cast Iron Ghisa Grauguss Fundicion</p> <p style="text-align: center;">F62C</p> <p style="text-align: center;">F63C</p> <p style="text-align: center;">Special Speciale Sonderausgabe especial</p> <p style="text-align: center;">FS20 pag. 7-21 FS50 pag. 7-23</p>	<p>Hollow output shaft</p> <p style="text-align: center;">C</p>  <p>Single output shaft</p> <p style="text-align: center;">A</p>  <p>Double output shaft</p> <p style="text-align: center;">B</p>  <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  <p style="text-align: center;">Shrink Disk D</p>  <p style="text-align: center;">Shrink Disk S</p> <p style="text-align: center;">Only on request for Q.ty / A richiesta per quantità</p> </div>  <p style="text-align: center;">Stainless steel hub I</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;"><u>On request for q.ty</u></p> <p style="text-align: center;">Stainless steel hub Mozzo in acciaio Inox Edelstahlhohlwelle Nucleo corona de acero Inox</p> </div>	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Technisches Datenblatt beachten.</p> <p>Ver tabla datos técnicos</p>

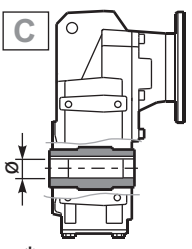
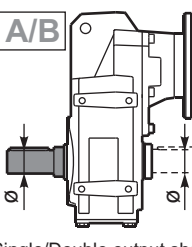
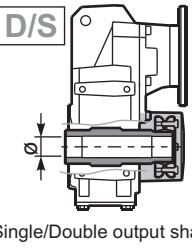
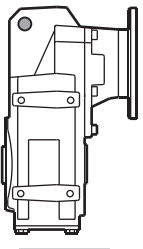
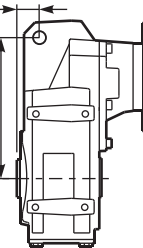
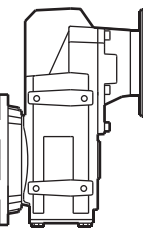
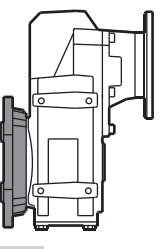




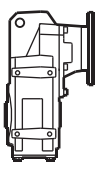
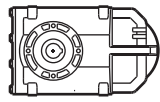
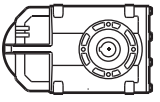
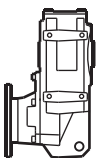
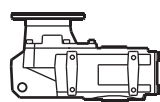
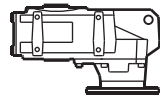


A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Output shaft Albero uscita Ausgangsflansch Brida en solida	Type - Tipo Typ - Tipo	Output flange Flangia di uscita Ausgangs Flansch Brida en salida	Motor size Grandezza motore Motor Grösse Tamaño motor	Terminal box position Posizione morsettiere Klemmkastenlage Posición caja de bornes	Mounting position Posizione montaggio Einbaulage Position de montage																																																																																							
B	ST	2	C	B	H1																																																																																							
 <p>C</p> <p>* Reduced Key → STANDARD</p> <table border="1"> <tr><td>F32A F33A</td></tr> <tr><td>B ⇒ $\varnothing 20$</td></tr> <tr><td>C ⇒ $\varnothing 25$</td></tr> <tr><td>D ⇒ $\varnothing 30^*$</td></tr> <tr><td>F42A F43A</td></tr> <tr><td>C ⇒ $\varnothing 25$</td></tr> <tr><td>D ⇒ $\varnothing 30$</td></tr> <tr><td>E ⇒ $\varnothing 35^*$</td></tr> <tr><td>F52A F53A</td></tr> <tr><td>D ⇒ $\varnothing 30$</td></tr> <tr><td>E ⇒ $\varnothing 35$</td></tr> <tr><td>F ⇒ $\varnothing 35^*$</td></tr> <tr><td>F62C F63C</td></tr> <tr><td>E ⇒ $\varnothing 35$</td></tr> <tr><td>F ⇒ $\varnothing 40$</td></tr> </table> <p>A/B</p>  <p>Single/Double output shaft</p> <table border="1"> <tr><td>L F32/2A ⇒ $\varnothing 30$</td></tr> <tr><td>M F42/2A ⇒ $\varnothing 35$</td></tr> <tr><td>N F52/2A ⇒ $\varnothing 38$</td></tr> <tr><td>O F62/2C ⇒ $\varnothing 40$</td></tr> </table> <p>D/S</p>  <p>Single/Double output shaft</p> <table border="1"> <tr><td>L F32/2A ⇒ $\varnothing 30$</td></tr> <tr><td>M F42/2A ⇒ $\varnothing 35$</td></tr> <tr><td>N F52/2A ⇒ $\varnothing 38$</td></tr> <tr><td>O F62/2C ⇒ $\varnothing 40$</td></tr> </table>	F32A F33A	B ⇒ $\varnothing 20$	C ⇒ $\varnothing 25$	D ⇒ $\varnothing 30^*$	F42A F43A	C ⇒ $\varnothing 25$	D ⇒ $\varnothing 30$	E ⇒ $\varnothing 35^*$	F52A F53A	D ⇒ $\varnothing 30$	E ⇒ $\varnothing 35$	F ⇒ $\varnothing 35^*$	F62C F63C	E ⇒ $\varnothing 35$	F ⇒ $\varnothing 40$	L F32/2A ⇒ $\varnothing 30$	M F42/2A ⇒ $\varnothing 35$	N F52/2A ⇒ $\varnothing 38$	O F62/2C ⇒ $\varnothing 40$	L F32/2A ⇒ $\varnothing 30$	M F42/2A ⇒ $\varnothing 35$	N F52/2A ⇒ $\varnothing 38$	O F62/2C ⇒ $\varnothing 40$	 <p>ST</p> <p>Foro standard Standard bore</p>  <p>Available torque arms, see our web site. Bracci di reazione disponibili, vedi il nostro sito web.</p> <p>S.. B..</p> <p>N.. LZ..</p>  <p>-F</p> <p>Whit output flange con flangia uscita</p>	 <p>N Senza flangia Without flange</p> <table border="1"> <tr><td>F32A F33A</td></tr> <tr><td>2 ⇒ $\varnothing 160$</td></tr> <tr><td>3 ⇒ $\varnothing 200$</td></tr> <tr><td>F42A F43A</td></tr> <tr><td>2 ⇒ $\varnothing 160$</td></tr> <tr><td>3 ⇒ $\varnothing 200$</td></tr> <tr><td>F52A F53A</td></tr> <tr><td>3 ⇒ $\varnothing 200$</td></tr> <tr><td>4 ⇒ $\varnothing 250$</td></tr> <tr><td>F62C F63C</td></tr> <tr><td>3 ⇒ $\varnothing 200$</td></tr> <tr><td>4 ⇒ $\varnothing 250$</td></tr> </table>	F32A F33A	2 ⇒ $\varnothing 160$	3 ⇒ $\varnothing 200$	F42A F43A	2 ⇒ $\varnothing 160$	3 ⇒ $\varnothing 200$	F52A F53A	3 ⇒ $\varnothing 200$	4 ⇒ $\varnothing 250$	F62C F63C	3 ⇒ $\varnothing 200$	4 ⇒ $\varnothing 250$	<p>Standard Flange Flangia Standard</p> <table border="1"> <tr><td>B5</td><td>B14</td></tr> <tr><td>A=56 ($\varnothing 120$)</td><td>O=56 ($\varnothing 80$)</td></tr> <tr><td>B=63 ($\varnothing 140$)</td><td>P=63 ($\varnothing 90$)</td></tr> <tr><td>C=71 ($\varnothing 160$)</td><td>Q=71 ($\varnothing 105$)</td></tr> <tr><td>D=80 ($\varnothing 200$)</td><td>R=80 ($\varnothing 120$)</td></tr> <tr><td>E=90 ($\varnothing 200$)</td><td>T=90 ($\varnothing 140$)</td></tr> <tr><td>F=100+112 ($\varnothing 250$)</td><td>U=100+112 ($\varnothing 160$)</td></tr> <tr><td></td><td>V=132 ($\varnothing 200$)</td></tr> </table> <p>Reduced flange / Flangia ridotta</p> <table border="1"> <tr><td>F32A F43A From 1/33.13 to 1/97.30</td><td>F42A F53A F63C</td></tr> <tr><td>1 ⇒ $\varnothing 19$ (71B5)</td><td>3 ⇒ $\varnothing 28$ (90B5)</td></tr> <tr><td>2 ⇒ $\varnothing 24$ (80B5)</td><td></td></tr> <tr><td>F33A F43A From 1/107.22 to 1/320.70</td><td>F52A F62C</td></tr> <tr><td>5 ⇒ $\varnothing 11$ (56B5)</td><td>2 ⇒ $\varnothing 24$ (80B5)</td></tr> <tr><td>6 ⇒ $\varnothing 14$ (63B5)</td><td>3 ⇒ $\varnothing 28$ (90B5)</td></tr> </table> <p>Type R / Tipo R</p> <table border="1"> <tr><td>F33A F43A From 1/107.22 to 1/320.70</td><td>F32A F43A F43A F52A F63C From 1/33.13 to 1/97.30</td></tr> <tr><td>1 ⇒ $\varnothing 14$</td><td>2 ⇒ $\varnothing 19$</td></tr> <tr><td>F52A F62C</td><td></td></tr> <tr><td>3 ⇒ $\varnothing 24$</td><td></td></tr> </table> <p>Without flange / Senza flangia</p> <table border="1"> <tr><td>F33A F43A From 1/107.22 to 1/320.70</td><td>F32A F43A F43A F52A F63C From 1/33.13 to 1/97.30</td></tr> <tr><td>Z ⇒ $\varnothing 9$ (56B5)</td><td>1 ⇒ $\varnothing 14$ (71B5)</td></tr> <tr><td>0 ⇒ $\varnothing 11$ (63B5)</td><td>2 ⇒ $\varnothing 19$ (80B5)</td></tr> <tr><td>1 ⇒ $\varnothing 24$ (90B5)</td><td>3 ⇒ $\varnothing 24$ (90B5)</td></tr> <tr><td>F52A F62C</td><td></td></tr> <tr><td>2 ⇒ $\varnothing 19$ (80B5)</td><td></td></tr> <tr><td>3 ⇒ $\varnothing 24$ (90B5)</td><td></td></tr> <tr><td>4 ⇒ $\varnothing 28$ (100B5)</td><td></td></tr> </table> <p>STANDARD</p>	B5	B14	A =56 ($\varnothing 120$)	O =56 ($\varnothing 80$)	B =63 ($\varnothing 140$)	P =63 ($\varnothing 90$)	C =71 ($\varnothing 160$)	Q =71 ($\varnothing 105$)	D =80 ($\varnothing 200$)	R =80 ($\varnothing 120$)	E =90 ($\varnothing 200$)	T =90 ($\varnothing 140$)	F =100+112 ($\varnothing 250$)	U =100+112 ($\varnothing 160$)		V =132 ($\varnothing 200$)	F32A F43A From 1/33.13 to 1/97.30	F42A F53A F63C	1 ⇒ $\varnothing 19$ (71B5)	3 ⇒ $\varnothing 28$ (90B5)	2 ⇒ $\varnothing 24$ (80B5)		F33A F43A From 1/107.22 to 1/320.70	F52A F62C	5 ⇒ $\varnothing 11$ (56B5)	2 ⇒ $\varnothing 24$ (80B5)	6 ⇒ $\varnothing 14$ (63B5)	3 ⇒ $\varnothing 28$ (90B5)	F33A F43A From 1/107.22 to 1/320.70	F32A F43A F43A F52A F63C From 1/33.13 to 1/97.30	1 ⇒ $\varnothing 14$	2 ⇒ $\varnothing 19$	F52A F62C		3 ⇒ $\varnothing 24$		F33A F43A From 1/107.22 to 1/320.70	F32A F43A F43A F52A F63C From 1/33.13 to 1/97.30	Z ⇒ $\varnothing 9$ (56B5)	1 ⇒ $\varnothing 14$ (71B5)	0 ⇒ $\varnothing 11$ (63B5)	2 ⇒ $\varnothing 19$ (80B5)	1 ⇒ $\varnothing 24$ (90B5)	3 ⇒ $\varnothing 24$ (90B5)	F52A F62C		2 ⇒ $\varnothing 19$ (80B5)		3 ⇒ $\varnothing 24$ (90B5)		4 ⇒ $\varnothing 28$ (100B5)		 <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p>	 <p>H1 STANDARD</p>  <p>H4</p>  <p>H3</p>  <p>B8</p>  <p>H5</p>  <p>H6</p> <p>Specify only for vertical positions Specificare solo per posizione verticale</p>
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POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / elevación

$$P \text{ [KW]} = \frac{M \text{ [Kg]} \cdot g \text{ [9.81]} \cdot v \text{ [m / s]}}{1000}$$

Rotation / rotazione / drehung / rotation

$$P \text{ [KW]} = \frac{M \text{ [Nm]} \cdot n \text{ [rpm]}}{9550}$$

Linear movement / traslazione / linearbewegung / translacion

$$P \text{ [KW]} = \frac{F \text{ [N]} \cdot v \text{ [m / s]}}{1000}$$

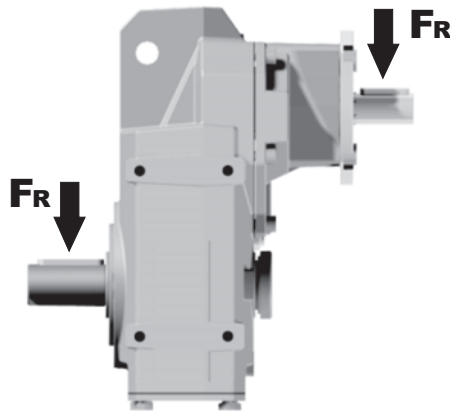
TORQUE / COPPIA / DREHMOMENT / PAR

$$M \text{ [Nm]} = \frac{9550 \cdot P \text{ [KW]}}{n \text{ [rpm]}}$$

$$M \text{ [lb in]} = \frac{63030 \cdot P \text{ [HP]}}{n \text{ [rpm]}}$$

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CARGA RADIAL Y AXIAL

- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



	$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$	$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$
M	Momento torcente / Output torque / Abtriebsdrehmoment / Par torsion	
d	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diámetro primitivo	
f_k	Coefficiente di trasformazione / Factor / Faktor / Coefficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Correa plana	

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

How to select a gearbox / Come selezionare un riduttore
Wie wählt man ein Getriebe / Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Abtriebsdrehzahl
Velocidad de salida

Nominal power
Potenza nominale
Max. mögliche Leistung
Potencia nominal

A Nominal torque
Momento torcente nominale
Nenn Drehmoment
Par de torsión nominal

Flange code
Codice flangia
Flanschtype
Código bridas

Input speed
Velocità in entrata
Eintriebsdrehzahl
Velocidad de entrada

Gear size
Grandezza riduttore
Getriebegröße
Tamaño reductor

Motor power
Potenza motore
Motorleistung
Potencia motor

F42A

Compact- Gear 350Nm

Rating - Alluminum SHAFT MOUNTED HELICAL

QUICK SELECTION / Selezione veloce input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code
							B	C	D	E	Q	R	T	U		
							63	71	80	90	71	80	90	100 112		
172	8.12	3.0	160	1.2	3.57	190	B				C	C			2818	-
139	10.06	3.0	198	1.0	3.04	200	B				C	C			2815	
82	17.02	2.2	245	1.0	2.24	250	B				C	C			1718	
77	18.19	2.2	262	1.0	2.18	260	B				C	C			1915	

C Ratio
Rapporto
Untersetzung
Relación

Transmitted torque
Momento torcente trasmesso
Mögliche Drehmomente
Par transmitido

Service factor
Fattore di servizio
Betriebsfaktor
Factor de servicio

Output shaft diam.
Diam. albero uscita
Durchmesser abtriebswelle
Diámetro eje de salida

Notes
Note
Anmerkungen
Notas

D	Motor flange available Flange disponibili Erhältliche Motorflansche Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Reduzierhülsen Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-sockel Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Auch ohne Reduzierbuchse verfügbar Disponibile también sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Max. Drehmoment in Bezug zum Betriebsfaktor	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)	Seleccionar la brida disponible (sobre pedido)

F32A Compact-Gear 200Nm

Rating - Alluminum SHAFT MOUNTED HELICAL



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Output Shaft 	Ratios code
							B	C	D	E	Q	R	T			
174	8.03	1.5	79	2.2	3.2	170	B				C	C		2818	standard ø25	-
135	10.40	1.5	102	1.8	2.7	185	B				C	C		2813		
96	14.53	1.5	143	1.4	2.1	200	B				C	C		1918		
83	16.84	1.5	165	1.2	1.8	200	B				C	C		1718		
71	19.76	1.5	194	1.0	1.5	200	B				C	C		1518		
59	23.59	1.1	170	1.2	1.3	200	B				C	C		1318		
55	25.58	1.1	184	1.1	1.2	200	B				C	C		1513		
43.5	32.20	0.75	158	1.3	0.9	200	B				C	C		1018		
35.8	39.05	0.55	141	1.2	0.7	170	B				C	C		1510		
33.6	41.68	0.55	150	1.3	0.7	200	B				C	C		1013		
25.7	54.39	0.37	132	1.5	0.6	200	B				C	C		913		
19.5	71.82	0.37	174	1.0	0.38	180	B				C	C		713		
16.9	83.04	0.25	136	1.3	0.31	170	B				C	C		910		
12.8	109.66	0.25	180	0.9	0.24	170	B				C	C		710		

The dynamic efficiency is **0.96** for all ratios

Motor Flanges Available Flange Motore Disponibili
 B) Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 B) Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 C) Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **F32A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F32A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F32A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F32A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
1.00 LT	0.65 LT	0.50 LT	0.70 LT	1.00 LT	0.70 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{35.7}{X+30.15}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	240	1200	85	312	1562	15	420	2100
140	267	1335	70	327	1635	-	-	-
120	282	1410	40	401	2003	-	-	-

Input shaft
Albero in entrata

n_1	FA	FR
1400	194	967
900	195	975
500	195	975

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Datì tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code 	
							B	C	O	P	Q			
							63	71	56	63	71			
13.2	106.07	0.25	168	1.2	0.3	200			C	C		101718	standard ø25 On request ø20 ø30	-
11.9	118.06	0.25	187	1.1	0.3	200			C	C		151313		
10.1	138.43	0.25	220	0.9	0.2	200			C	C		91718		
9.9	140.92	0.18	161	1.2	0.2	200			C	C		131313		
7.7	182.80	0.18	209	1.0	0.2	200			C	C		71718		
7.3	192.36	0.18	220	0.9	0.2	200			C	C		101313		
5.5	256.12	0.12	195	1.0	0.1	200			C	C		71318		
4.2	331.50	0.12	252	0.8	0.1	200			C	C		71313		
3.9	361.22	0.12	275	0.5	0.1	140			C	C		71710		
2.8	506.11	0.12	385	0.4	0.1	170			C	C		71310		

The dynamic efficiency is **0.93** for all ratios

- Motor Flanges Available**
Flange Motore Disponibili
- B) Supplied with Reduction Bushing**
Fornito con Bussola di Riduzione
- B) Available on Request without reduction bushing**
Disponibile a Richiesta senza Bussola di Riduzione
- C) Motor Flange Holes Position**
Posizione Fori Flangia Motore

EN Unit **F33A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F33A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F33A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F33A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
1.05 LT	0.70 LT	0.55 LT	0.75 LT	1.05 LT	0.75 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{35.7}{X+30.15}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	240	1200	85	312	1562	15	420	2100
140	267	1335	70	327	1635	-	-	-
120	282	1410	40	401	2003	-	-	-

Input shaft
Albero in entrata

n_1	FA	FR
1400	194	967
900	195	975
500	195	975

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi		Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza		Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni				

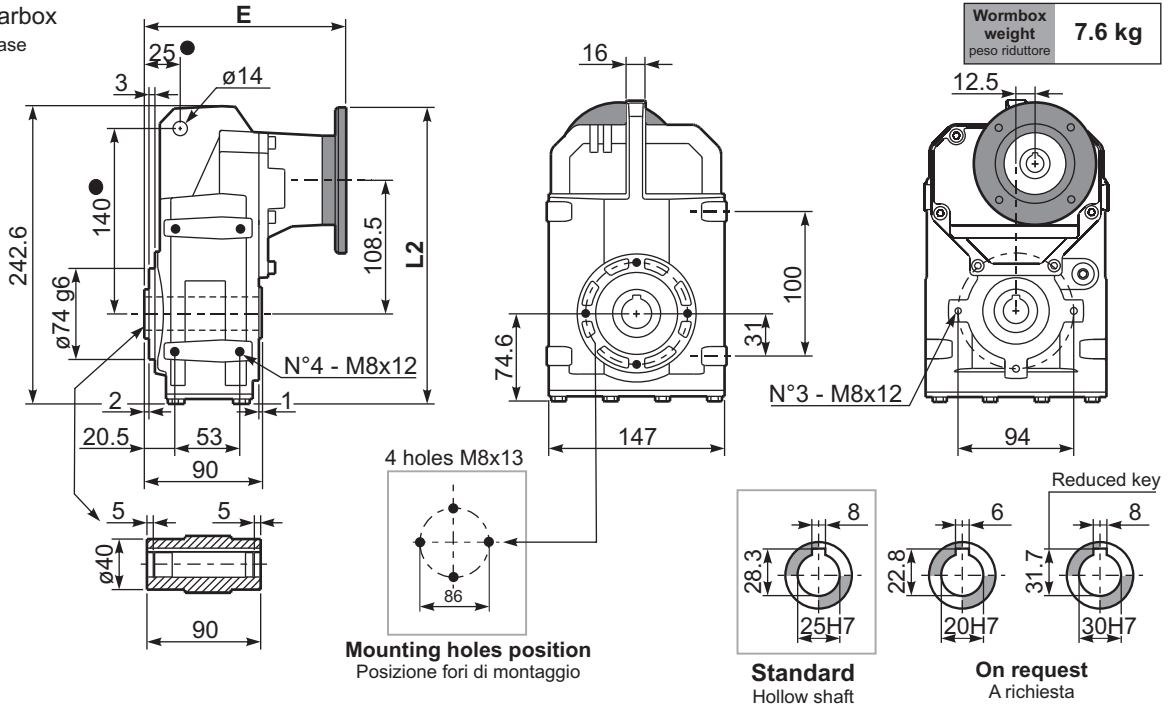
PF33AC...

Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **7.6 kg**

Motor Flange

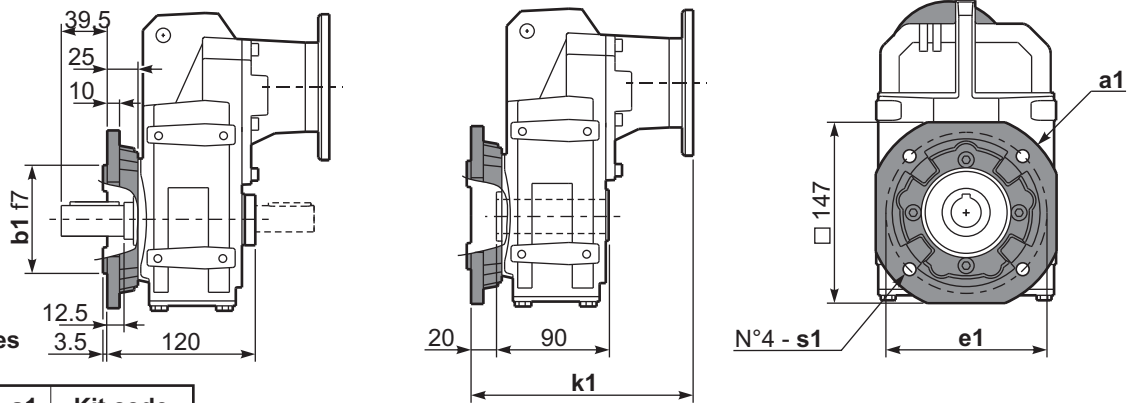
Motor Flange	E	L2
63 B5	163	253
71 B5	161	264
56B14	166.5	222
63B14	165.5	228
71B14	162.5	235.5



PF32A...-F...

Output flange
Flangia uscita

Motor Flange	k1
63 B5	183
71 B5	181
56B14	186.5
63B14	185.5
71B14	182.5

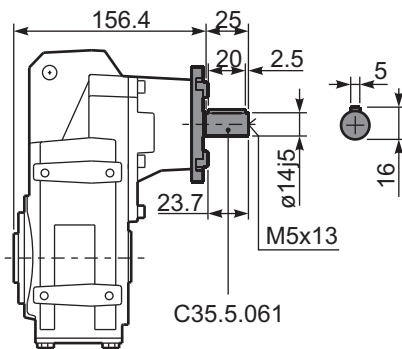


a1 ø	b1	e1	s1	Kit code
160*	110	130	8.5	KF30.9.010
200	130	165	11	KF30.9.011

* Standard output flange / Flangia uscita standard

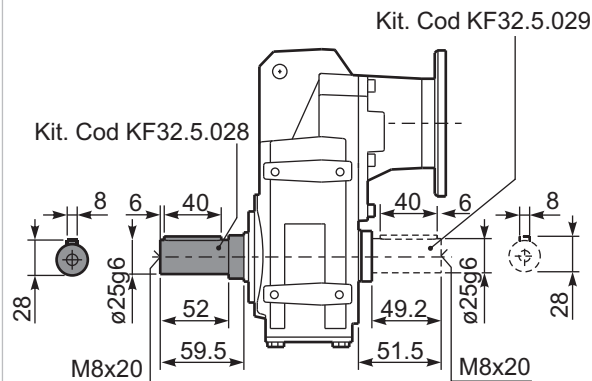
RF33AC...

Input Shaft
Albero in entrata



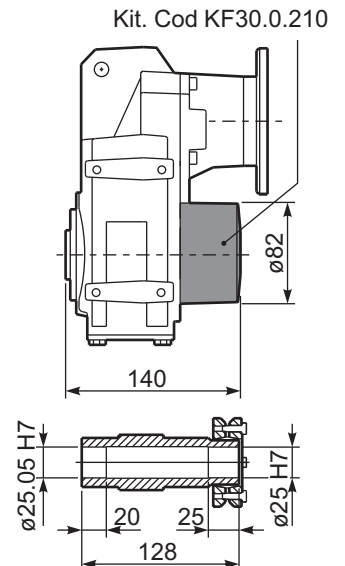
PF33A/A/B...

Single and Double output shaft
Albero uscita semplice e doppio



PF33A/D/S...

Shrink disk
Calettatore



F42A Compact-Gear 350Nm

Rating - Alluminum SHAFT MOUNTED HELICAL



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft	Ratios code	
							B	C	D	E	Q	R	T	U			
172	8.12	3.0	160	1.2	3.57	190	B				C	C			2818	standard $\varnothing 30$ On request $\varnothing 25$ $\varnothing 35$	-
139	10.06	3.0	198	1.0	3.04	200	B				C	C			2815		
82	17.02	2.2	245	1.0	2.24	250	B				C	C			1718		
77	18.19	2.2	262	1.0	2.18	260	B				C	C			1915		
66	21.08	1.5	207	1.5	2.29	316	B				C	C			1715		
57	24.75	1.5	243	1.2	1.83	297	B				C	C			1515		
47.4	29.54	1.5	290	1.1	1.60	310	B				C	C			1315		
43	32.55	1.1	234	1.0	1.14	244	B				C	C			1018		
34.7	40.32	1.1	290	1.0	1.14	300	B				C	C			1015		
33	42.48	0.75	209	1.0	0.72	200	B				C	C			918		
26.6	52.62	0.75	258	1.0	0.72	247	B				C	C			915		
20.1	69.49	0.37	168	1.1	0.42	190	B				C	C			715		

The dynamic efficiency is **0.96** for all ratios

Motor Flanges Available Flange Motore Disponibili
 B Supplied with Reduction Bushing Fornito con Bussola di Riduzione
 B Available on Request without reduction bushing Disponibile a Richiesta senza Bussola di Riduzione
 C Motor Flange Holes Position Posizione Fori Flangia Motore

EN Unit **F42A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F42A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F42A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F42A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
H1	H4	H3	H2	H5	H6
1.20 LT	0.80 LT	0.60 LT	0.80 LT	1.20 LT	0.85 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{68}{X+38}$

Input shaft
Albero in entrata

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	384	1920	85	500	2498	15	672	3360
140	427	2136	70	523	2616	-	-	-
120	451	2256	40	641	3204	-	-	-

n_1	FA	FR
1400	310	1548
900	312	1560
500	312	1560

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

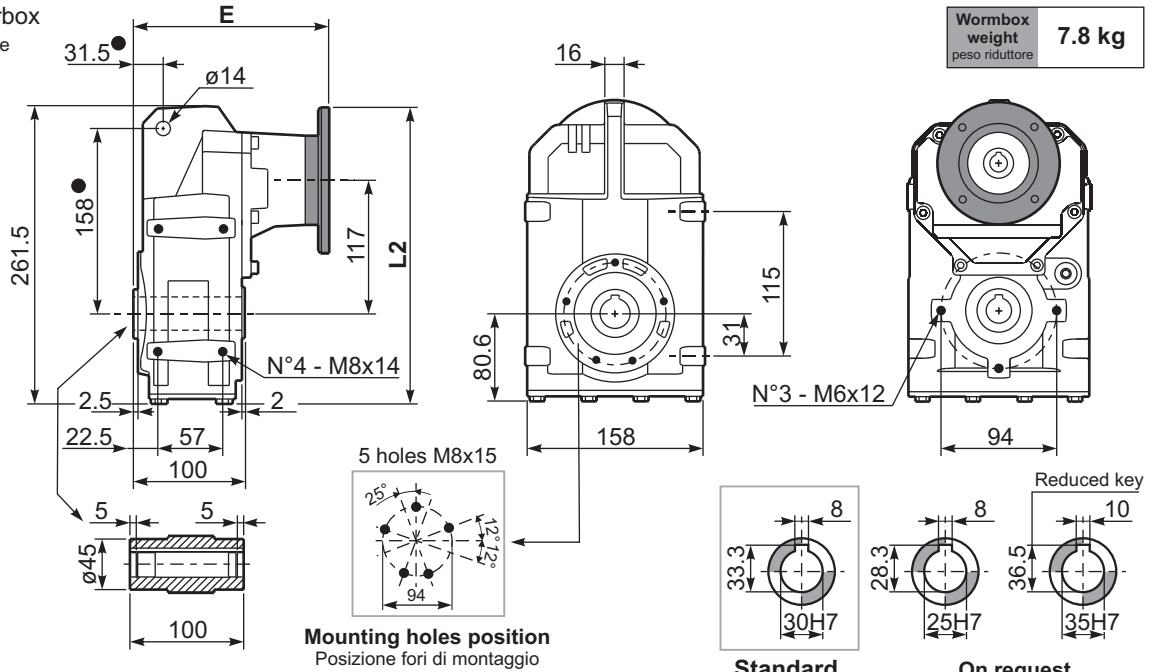
PF42AC...

Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **7.8 kg**

Motor Flange

Motor Flange	E	L2
63 B5	170	267.5
71 B5	168	277.5
80/90 B5	170	297.5
71 B14	168	250
80 B14	169	257.5
90 B14	170	267.5
100/112B14	186	277.5



Mounting holes position
Posizione fori di montaggio

Standard
Hollow shaft

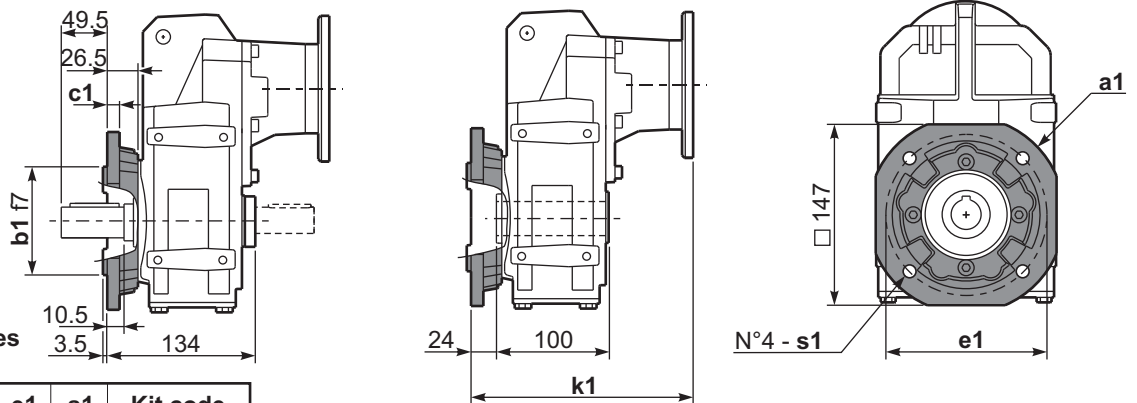
On request
A richiesta

● Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web

PF42A...-F...

Output flange
Flangia uscita

Motor Flange	k1
63 B5	194
71 B5	192
80/90 B5	194
71 B14	194
80 B14	193
90 B14	194
100/112B14	210



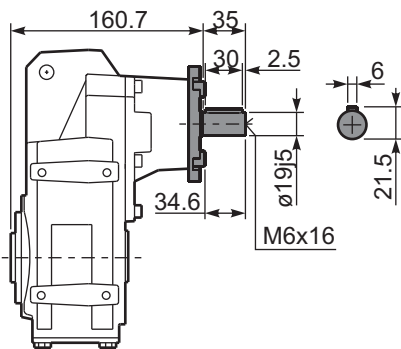
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
160*	110	10	130	8.5	KF40.9.010
200	130	11	165	11	KF40.9.011

*Standard output flange / Flangia uscita standard

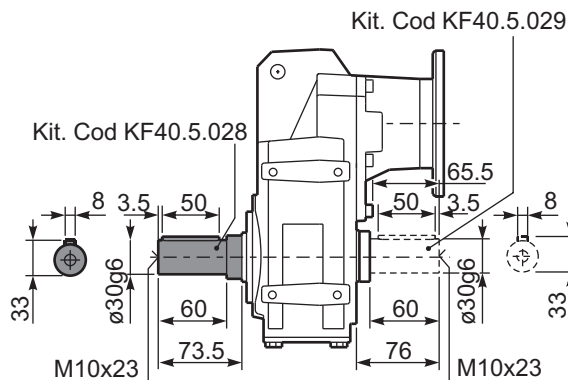
RF42AC...

Input Shaft
Albero in entrata



PF42A/B...

Single and Double output shaft
Albero uscita semplice e doppio

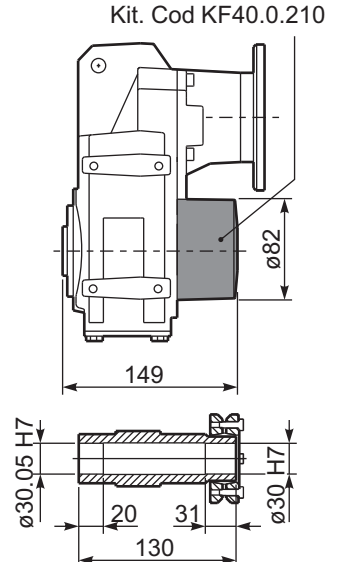


Kit. Cod KF40.5.028

Kit. Cod KF40.5.029

PF42AD/S...

Shrink disk
Calettatore



Kit. Cod KF40.0.210



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges					Output Shaft	
							B	C	D	E	O	P	Q	R	T		
							63	71	80	90	56	63	71	80	90		
42.3	33.13	1.5	315	1.1	1.6	337	B						C	C		281715	standard ø30 On request ø25 ø35
37.4	37.47	1.1	261	1.0	1.1	250	B						C	C		281318	
28.9	48.37	0.75	230	1.2	0.9	272	B						C	C		191718	
23.4	59.92	0.75	285	1.2	0.9	337	B						C	C		191715	
21.3	65.81	0.75	313	0.9	0.7	272	B						C	C		151718	
20.2	69.45	0.75	330	1.0	0.8	337	B						C	C		171715	
17.2	81.52	0.55	284	1.2	0.7	337	B						C	C		151715	
14.4	97.30	0.55	339	1.0	0.5	337	B						C	C		131715	
13.1	107.22	0.37	252	1.1	0.4	272							C	C		101718	
12.3	114.21	0.37	268	1.2	0.4	310							C	C		151315	
10.3	136.33	0.37	320	1.0	0.4	310							C	C		131315	
7.5	186.09	0.25	295	1.1	0.3	310							C	C		101315	
6.1	228.89	0.25	363	0.9	0.23	337							C	C		71715	
5.8	242.87	0.18	277	1.1	0.20	310							C	C		91315	
4.4	320.70	0.18	366	0.8	0.15	310							C	C		71315	

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **F43A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F43A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F43A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F43A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil				
	Per queste posizioni specificare in fase d'ordine o aggiungere olio				
H1	H4	H3	H2	H5	H6
1.25 LT	0.85 LT	0.65 LT	0.85 LT	1.25 LT	0.90 LT
AGIP	BP	SHELL	KLUBER	MOBIL	
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30	

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{68}{X+38}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
200	384	1920	85	500	2498	15	672	3360
140	427	2136	70	523	2616	-	-	-
120	451	2256	40	641	3204	-	-	-

Input shaft
Albero in entrata

n ₁	FA	FR
1400	310	1548
900	312	1560
500	312	1560

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

<p>COMPLETE TECHNICAL DATAS Dati tecnici completi</p>		<p>Mounting Positions Posizioni montaggio</p>	<p>Accessories and Options Accessori e opzioni</p>
<p>ADVANCED SELECTION BY INPUT POWER Selezione per potenza</p>			<p>Spare Parts Parti di ricambio</p>
<p>DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni</p>	<p>Documentation Documentazione</p>	<p>Stock and Logistic Stock e logistica</p>	<p>Selection Service Factor Selezione e fattore di servizio</p>
			<p>Installation & Maintenance Installazione e manutenzione</p>

PF43AC...

Basic gearbox
Riduttore base

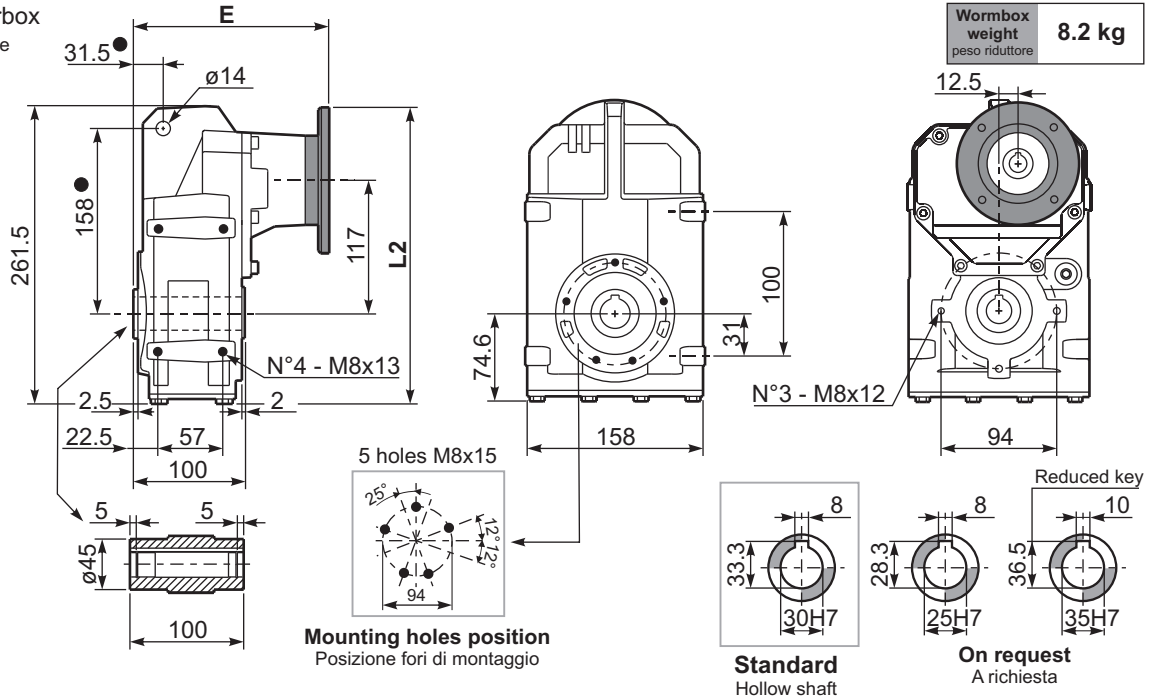
Wormbox weight
peso riduttore **8.2 kg**

Ratio 33.13+97.30 IEC80

Motor Flange	E	L2
63B5	191	267.5
71B5	189	277.5
80-90B5	191	297.5
71B14	189	250
80B14	190	257.5
90B14	191	267.5

Ratio 107.22+320.70 IEC71

Motor Flange	E	L2
63 B5	172	267.5
71 B5	170	264
56B14	175.5	236.5
63B14	174.5	242.5
71B14	171.5	250



● Available torque arms, see our web site

Bracci di reazione disponibili, consulta il nostro sito web

PF43A...-F...

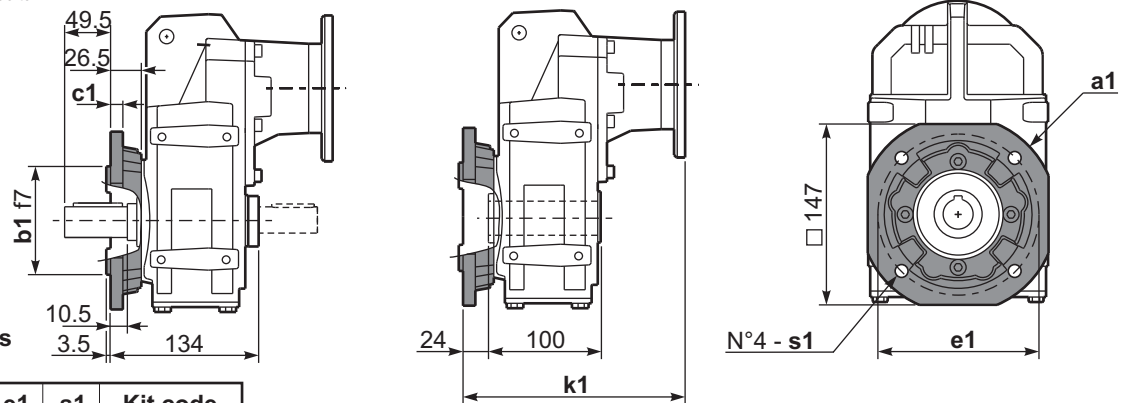
Output flange
Flangia uscita

Motor Flange	k1 IEC71	k1 IEC80
63 B5	196	215
71 B5	194	213
80/90 B5	-	215
56B14	199.5	-
63B14	198.5	-
71B14	195.5	213
80B14	-	214
90B14	-	215

Available output flanges
Flange di uscita

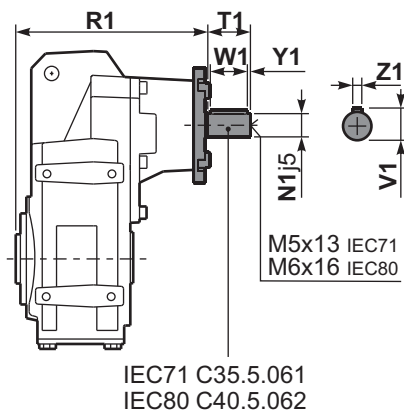
a1 ø	b1	c1	e1	s1	Kit code
160*	110	10	130	8.5	KF40.9.010
200	130	11	165	11	KF40.9.011

* Standard Output flange / Flangia uscita standard



RF43AC...

Input Shaft
Albero in entrata

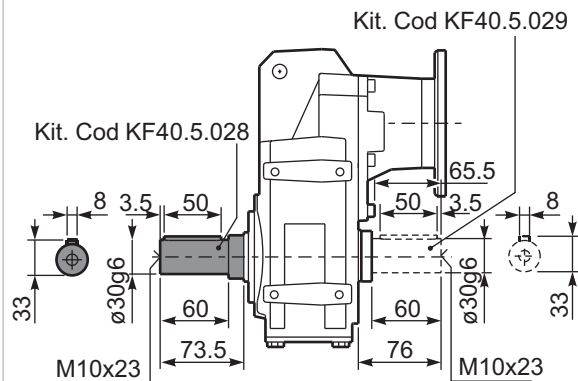


IEC71 C35.5.061
IEC80 C40.5.062

Input shaft	N1 j5	R1	T1	V1	Z1	W1	Y1
IEC71	ø14	165.4	25	16	5	20	2.4
IEC80	ø19	181.9	35	21.5	6	30	2.5

PF43A/A/B...

Single and Double output shaft
Albero uscita semplice e doppio

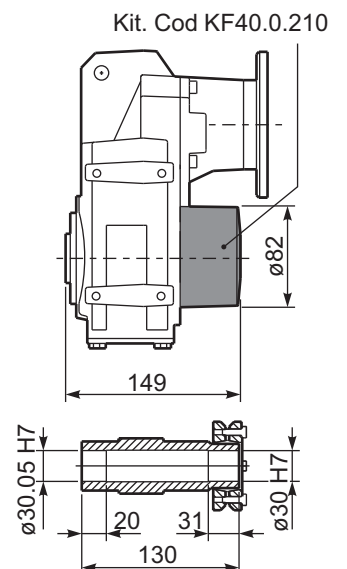


Kit. Cod KF40.5.028

Kit. Cod KF40.5.029

PF43A/D/S...

Shrink disk
Calettatore



Kit. Cod KF40.0.210

F52A Compact- Gear




510Nm

Rating - Alluminum SHAFT MOUNTED HELICAL



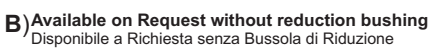



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Output Shaft 	Ratios code 
							C	D	E	F	R	T	U	V			
							71	80	90	100 112	80	90	100 112	132			
213	6.57	5.5	237	1.2	6.74	290	B								3018	standard ø35 On request ø30 ø40	-
185	7.56	5.5	272	1.1	6.06	300	B								3016		
159	8.82	5.5	318	1.2	6.58	380	B								3014		
113	12.39	5.5	446	0.9	4.93	400	B								2018		
98	14.24	4	373	1.1	4.50	420	B								2016		
84	16.63	4	435	1.1	4.55	495	B								2014		
73	19.25	4	504	1.0	3.97	500	B								1616		
64	21.78	3	428	1.2	3.54	505	B								1318		
62	22.48	3	442	1.1	3.36	495	B								1614		
56	25.04	3	492	1.0	3.05	500	B								1316		
47.9	29.23	2.2	421	1.2	2.59	495	B								1314		
45.7	30.65	2.2	442	1.1	2.5	500	B								1116		
39.1	35.78	2.2	515	1.0	2.1	430	B								1114		
36.3	38.55	1.5	379	1.2	1.8	455	B								818		
31.6	44.32	1.5	435	1.1	1.7	500	B								816		
27.1	51.74	1.5	508	1.0	1.5	495	B								814		
22.9	61.03	1.1	440	1.0	1.1	420	B								616		
19.6	71.25	1.1	513	0.8	0.9	430	B								614		

The dynamic efficiency is **0.96** for all ratios







-  **Motor Flanges Available**
Flange Motore Disponibili
-  **B) Supplied with Reduction Bushing**
Fornito con Bussola di Riduzione
-  **B) Available on Request without reduction bushing**
Disponibile a Richiesta senza Bussola di Riduzione
-  **C) Motor Flange Holes Position**
Posizione Fori Flangia Motore

EN Unit **F52A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F52A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F52A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

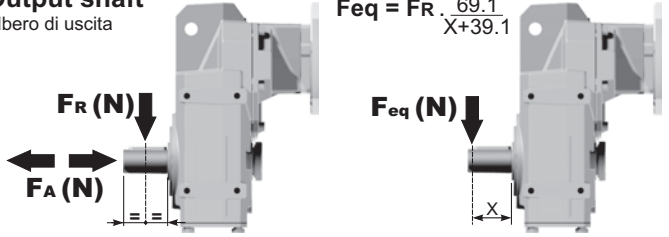
E El reductor tamaño **F52A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
					
1.80 LT	1.20 LT	0.90 LT	1.25 LT	1.80 LT	1.25 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

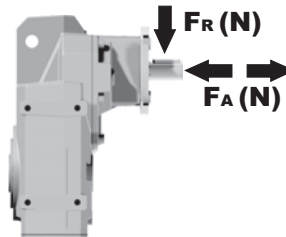
Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{69.1}{X+39.1}$



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	420	2100	85	568	2376	15	960	4800
140	466	2328	70	590	2952	-	-	-
120	554	2772	40	706	3528	-	-	-







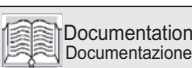



Input shaft
Albero in entrata



n_1	FA	FR
1400	300	1500
900	377	1884
500	493	2466

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

 COMPLETE TECHNICAL DATAS Dati tecnici completi	 ATEX	 Mounting Positions Posizioni montaggio	 Accessories and Options Accessori e opzioni	 Spare Parts Parti di ricambio
 ADVANCED SELECTION BY INPUT POWER Selezione per potenza	 Documentation Documentazione	 Stock and Logistic Stock e logistica	 Selection Service Factor Selezione e fattore di servizio	 Installation & Maintenance Installazione e manutenzione

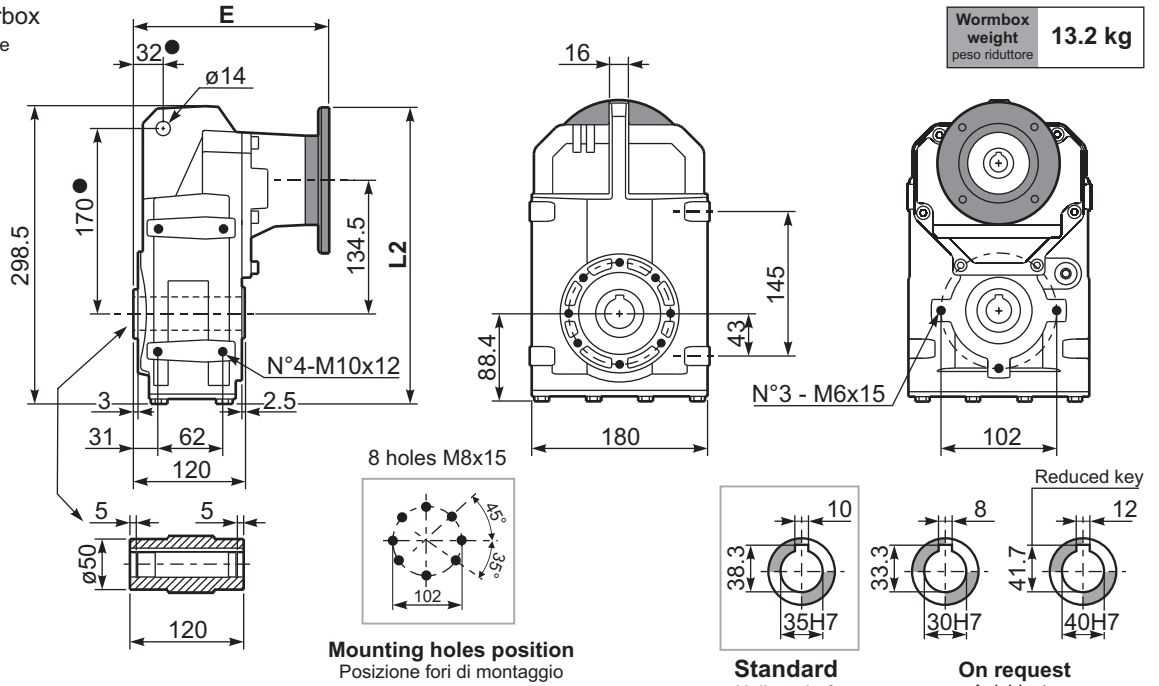
PF52AC...

Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **13.2 kg**

Motor Flange

Motor Flange	E	L2
71 B5	201.5	303
80/90 B5	203.5	323
100/112B5	203.5	348
80 B14	202	283.5
90 B14	205	294
100/112B14	201.5	303
132B14	220	323

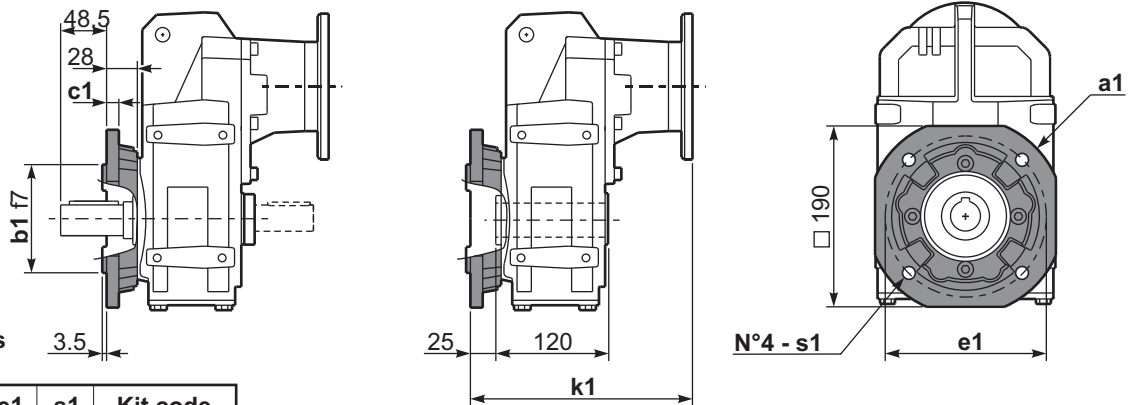


● Available torque arms, see our web site
Bracci di reazione disponibili, consulta il nostro sito web

PF52A...-F...

Output flange
Flangia uscita

Motor Flange	E
71 B5	226.5
80/90 B5	228.5
100/112B5	228.5
80 B14	227
90 B14	230
100/112B14	226.5
132B14	245



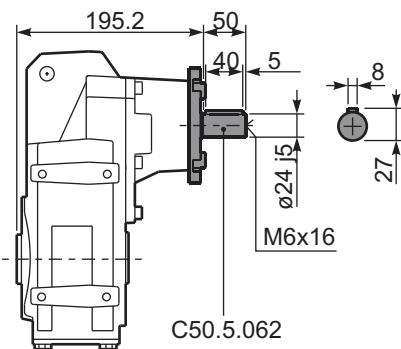
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
200*	130	10	165	11	KF50.9.010
250	180	15	215	13.5	KF50.9.011

* Standard output flange / Flangia uscita standard

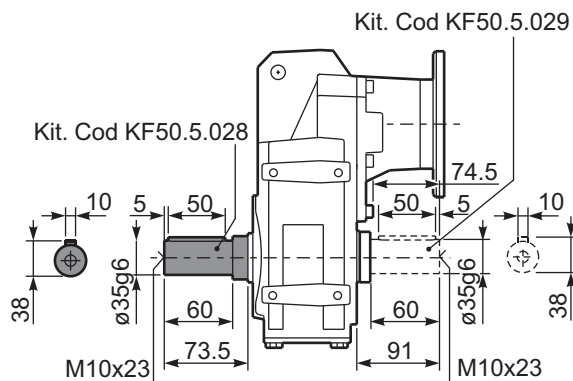
RF52AC...

Input Shaft
Albero in entrata



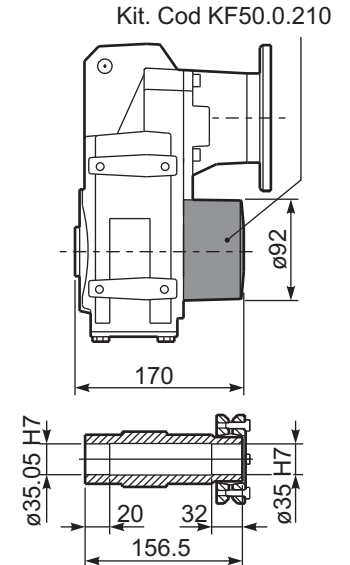
PF52AA/B...

Single and Double output shaft
Albero uscita semplice e doppio



PF52AD/S...

Shrink disk
Calettatore



F53A Compact- Gear

510Nm

Rating - Alluminum SHAFT MOUNTED HELICAL



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code 	
							B	C	D	E	Q	R	T	U			
							63	71	80	90	71	80	90	100 112			
35.6	39.30	1.5	374	1.4	2.0	510	B				C	C			281316	standard ø35 On request ø30 ø40	-
30.5	45.93	1.5	437	1.1	1.7	500	B				C	C			281314		
22.6	61.89	1.1	432	1.2	1.3	530	B				C	C			191318		
19.7	71.16	1.1	497	1.0	1.1	510	B				C	C			191316		
17	82.48	0.75	392	1.3	1.0	510	B				C	C			171316		
14.5	96.82	0.75	461	1.1	0.8	510	B				C	C			151316		
12.1	115.56	0.55	403	1.3	0.7	510	B				C	C			131316		
10.2	137.20	0.55	479	1.1	0.6	530	B				C	C			101318		
8.9	157.74	0.55	550	0.9	0.5	510	B				C	C			101316		
7.8	179.06	0.37	420	1.3	0.5	530	B				C	C			91318		
7.6	184.15	0.37	432	1.2	0.4	500	B				C	C			101314		
6.8	205.87	0.37	483	1.1	0.4	510	B				C	C			91316		
5.8	240.34	0.25	381	1.3	0.3	500	B				C	C			91314		
5.1	271.85	0.25	431	1.2	0.3	510	B				C	C			71316		
4.4	317.36	0.25	503	1.0	0.2	500	B				C	C			71314		

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **F53A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F53A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F53A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F53A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
1.90 LT	1.30 LT	1.00 LT	1.35 LT	1.90 LT	1.35 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{69.1}{X+39.1}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
200	420	2100	85	568	2376	15	960	4800
140	466	2328	70	590	2952	-	-	-
120	554	2772	40	706	3528	-	-	-

Input shaft
Albero in entrata

n ₁	FA	FR
1400	300	1500
900	377	1884
500	493	2466

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

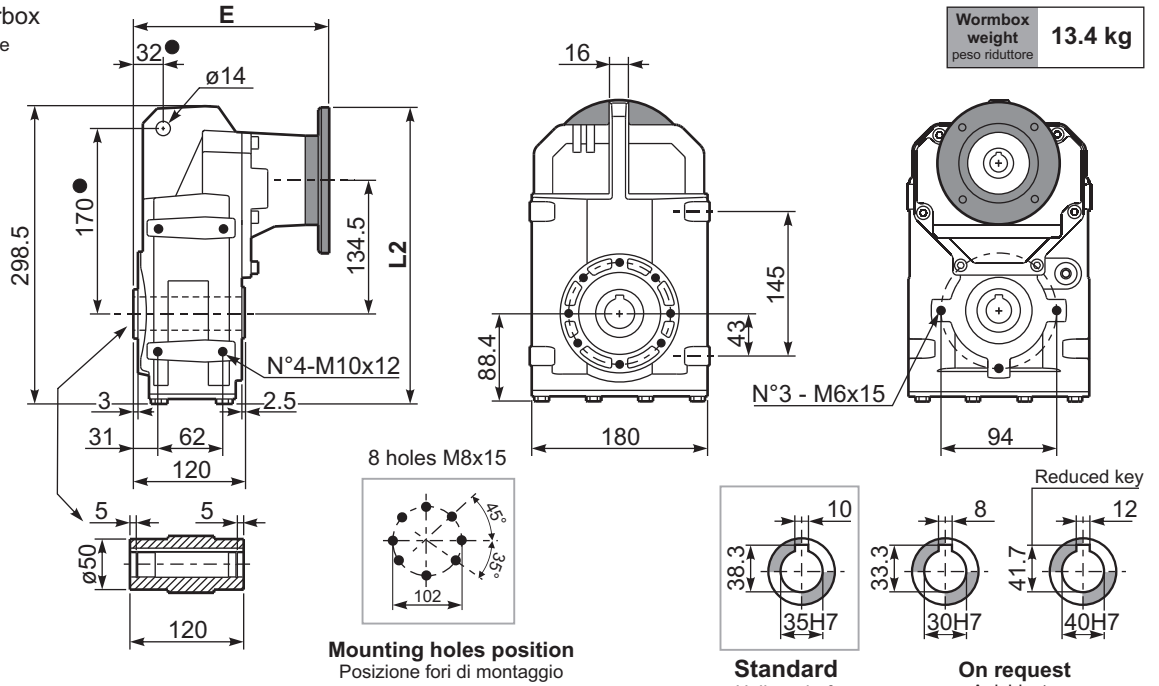
PF53AC...

Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **13.4 kg**

Motor Flange

Motor Flange	E	L2
63 B5	211.5	293.5
71 B5	212.5	303.5
80/90 B5	211.5	323.5
71 B14	209.5	276
80 B14	210.5	283.5
90 B14	211.5	293.5
100/112B14	227.5	303.5

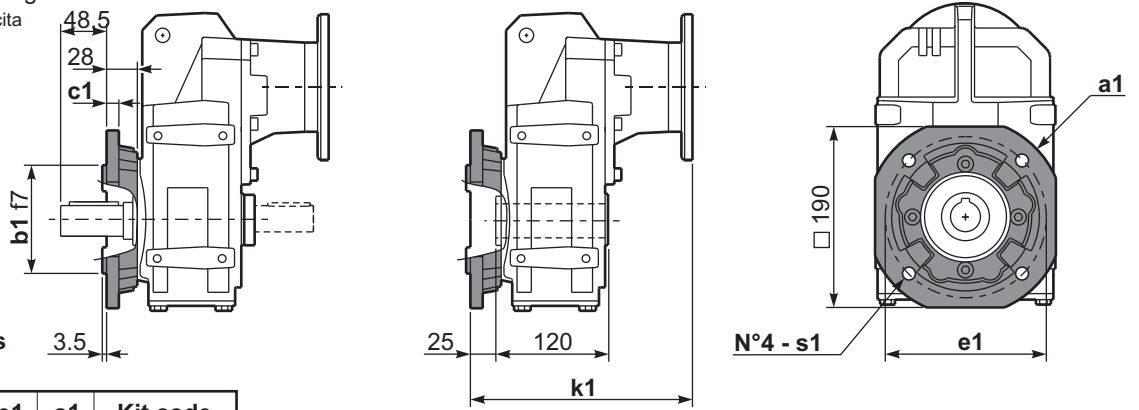


● Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web

PF53A...-F...

Output flange
Flangia uscita

Motor Flange	k1
63 B5	236.5
71 B5	237.5
80/90 B5	236.5
71 B14	234.5
80 B14	235.5
90 B14	236.5
100/112B14	252.5



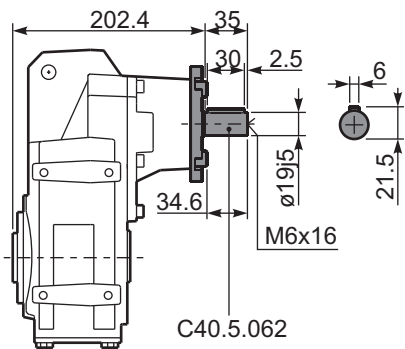
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
200*	130	10	165	11	KF50.9.010
250	180	15	215	13.5	KF50.9.011

* Standard output flange / Flangia uscita standard

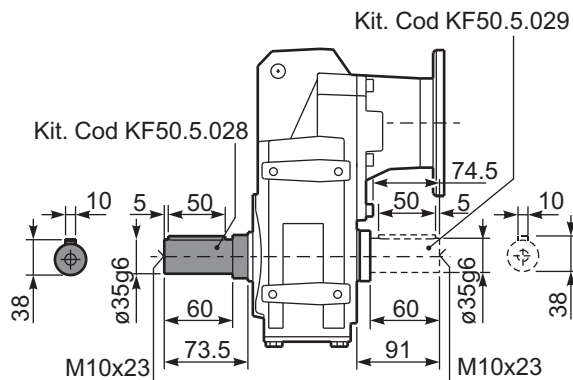
RF53AC...

Input Shaft
Albero in entrata



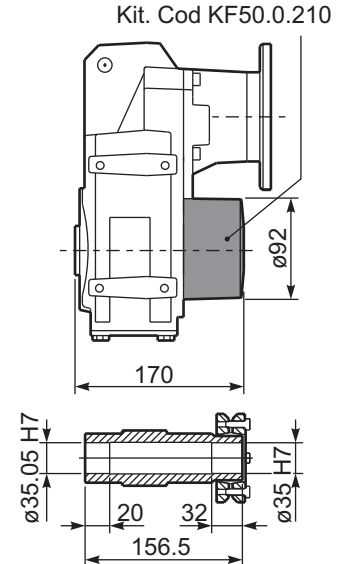
PF53A/A/B...

Single and Double output shaft
Albero uscita semplice e doppio



PF53AD/S...

Shrink disk
Calettatore





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code
							C	D	E	F	R	T	U	V		
							71	80	90	100 112	80	90	100 112	132		
225	6.21	7.5	305	1.0	7.9	320	B								3018	-
196	7.15	7.5	351	1.0	7.9	369	B								3016	
168	8.36	7.5	410	1.0	7.9	431	B								3014	
120	11.71	7.5	575	1.0	7.6	585	B								2018	
104	13.48	5.5	485	1.3	7.0	620	B								2016	
89	15.75	5.5	567	1.1	6.0	617	B								2014	
77	18.22	4	477	1.3	5.2	620	B								1616	
68	20.58	4	539	1.1	4.2	566	B								1318	standard ø40
66	21.29	4	558	1.1	4.4	617	B								1614	
59	23.69	4	621	1.0	4.0	620	B								1316	On request ø35
51	27.69	3	544	1.1	3.4	617	B								1314	
48.3	29.00	3	570	1.0	3.1	580	B								1116	
41.3	33.90	3	666	0.9	2.8	617	B								1114	
38.4	36.43	2.2	525	1.0	2.3	550	B								818	
33.4	41.94	1.5	412	1.5	2.3	620	B								816	
28.6	49.02	1.5	481	1.3	1.9	617	B								814	
24.2	57.75	1.1	416	1.1	1.2	440	B								616	
20.7	67.50	1.1	486	1.0	1.1	507	B								614	

The dynamic efficiency is **0.96** for all ratios

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **F62C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **F62C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F62C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F62C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
1.90 LT	1.40 LT	1.05 LT	1.50 LT	1.90 LT	1.40 LT
AGIP Teliun VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{71.5}{x \cdot 41.5}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	834	4169	85	1122	5610	15	1430	7150
140	937	4686	70	1188	5940	-	-	-
120	990	4950	40	1430	7150	-	-	-

Input shaft
Albero in entrata

n_1	FA	FR
1400	120	602
900	245	1227
500	385	1925

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

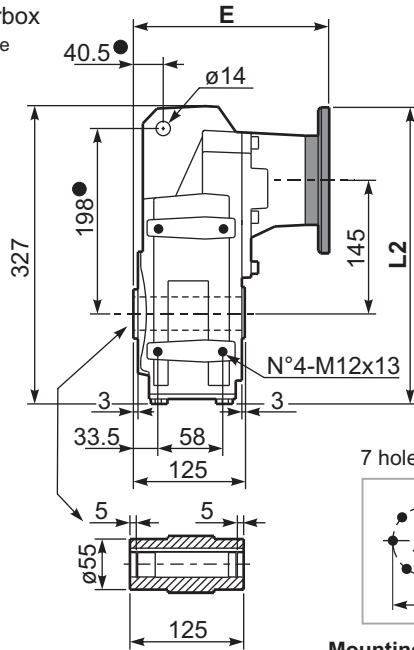
PF62CC...

Basic gearbox
Riduttore base

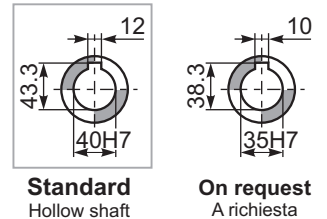
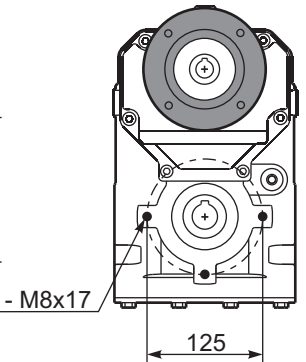
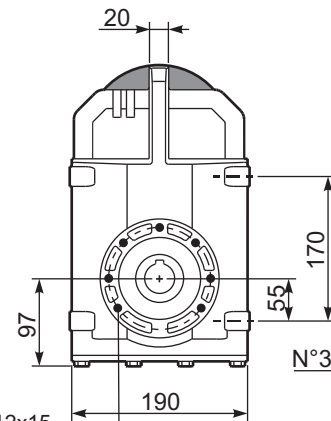
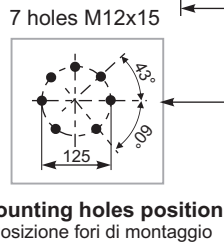
Wormbox weight
peso riduttore **21.8kg**

Motor Flange

Motor Flange	E	L2
71 B5	212.5	321
80/90 B5	214.5	341
100/112B5	214.5	366
80 B14	212.5	301
90 B14	215.5	311
100 B14	212	321
132 B14	245.5	341



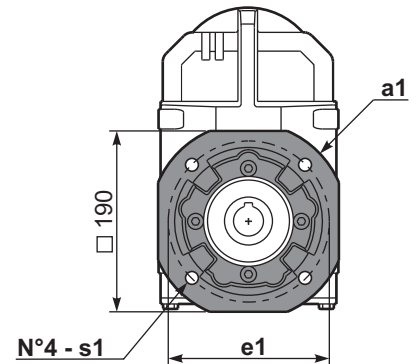
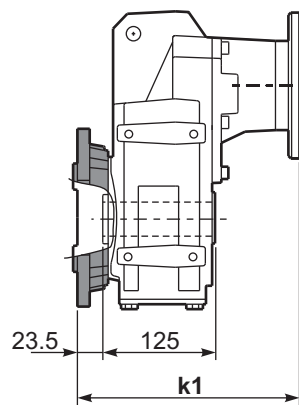
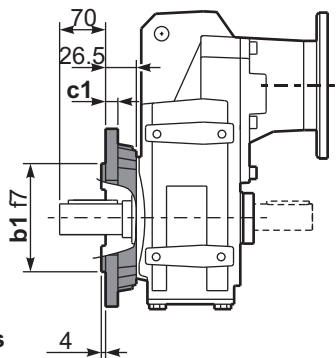
● Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web



PF62C...-F...

Output flange
Flangia uscita

Motor Flange	K1
71 B5	236
80/90 B5	238
100/112B5	238
80 B14	236
90 B14	239
100/112B14	235.5
132B14	254



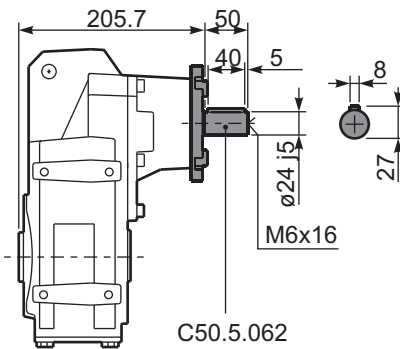
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
200	130	10	165	11	KF60.9.010
250*	180	15	215	13.5	KF60.9.011

* Standard output flange / Flangia uscita standard

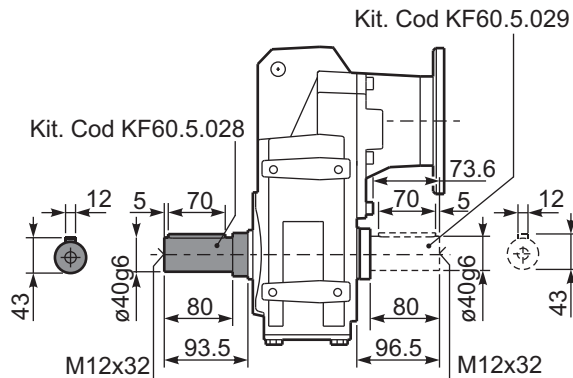
RF62CC...

Input Shaft
Albero in entrata



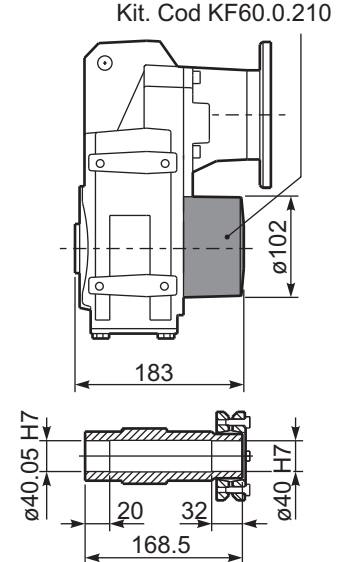
PF62CA/B...

Single and Double output shaft
Albero uscita semplice e doppio



PF62CD/S...

Shrink disk
Calettatore





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft 	Ratios code 	
							B	C	D	E	Q	R	T	U			
							63	71	80	90	71	80	90	100 112			
37.6	37.23	1.5	354	1.8	2.8	652	B				C	C			281316	standard ø40 On request ø35	-
32.2	43.52	1.5	414	1.6	2.3	648	B				C	C			281314		
23.9	58.49	1.5	557	1.0	1.6	576	B				C	C			191318		
20.8	67.34	1.5	641	1.0	1.53	652	B				C	C			191316		
17.9	78.05	1.1	545	1.2	1.32	652	B				C	C			171316		
15.3	91.61	1.1	639	1.0	1.12	652	B				C	C			151316		
12.8	109.35	0.75	520	1.3	0.94	652	B				C	C			131316		
10.8	129.66	0.75	617	0.9	0.70	576	B				C	C			101318		
9.4	149.26	0.55	521	1.3	0.69	652	B				C	C			101316		
8.3	169.22	0.55	590	1.0	0.54	576	B				C	C			91318		
8.0	174.46	0.55	609	1.1	0.59	648	B				C	C			101314		
7.2	194.80	0.55	680	1.0	0.53	652	B				C	C			91316		
6.1	227.69	0.37	534	1.2	0.45	648	B				C	C			91314		
5.4	257.23	0.37	604	1.1	0.40	652	B				C	C			71316		
4.7	300.66	0.25	477	1.4	0.34	648	B				C	C			71314		

The dynamic efficiency is **0.93** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **F63C** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **F63C** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **F63C** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.
Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **F63C** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio				
2.00 LT	1.50 LT	1.15 LT	1.60 LT	2.00 LT	1.50 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30	

tab. 1

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{71.5}{x \cdot 41.5}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
200	834	4169	85	1122	5610	15	1430	7150
140	937	4686	70	1188	5940	-	-	-
120	990	4950	40	1430	7150	-	-	-

Input shaft
Albero in entrata

n_1	FA	FR
1400	120	602
900	245	1227
500	385	1925

tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

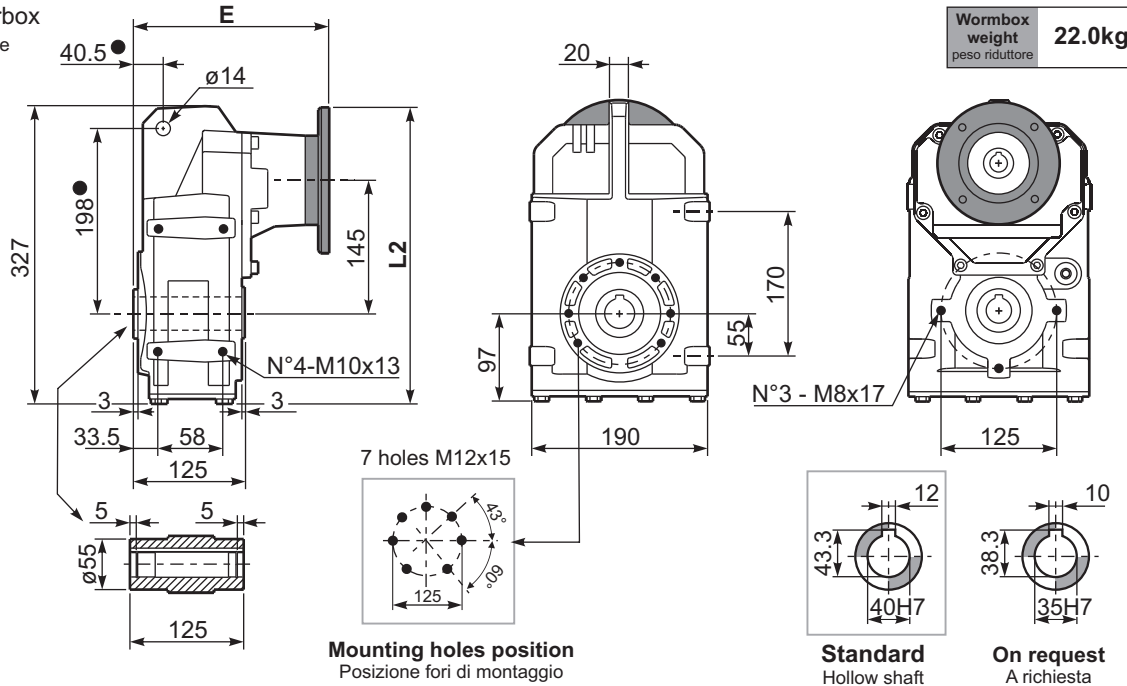
COMPLETE TECHNICAL DATAS Datì tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

PF63CC... Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **22.0kg**

Motor Flange

Motor Flange	E	L2
63 B5	222.5	312
71 B5	223.5	322
80/90 B5	222.5	342
71 B14	220.5	294.5
80 B14	221.5	302
90 B14	222.5	312
100/112B14	238.5	322



● Available torque arms, see our web site
Bracci di reazione disponibili, consulta il nostro sito web

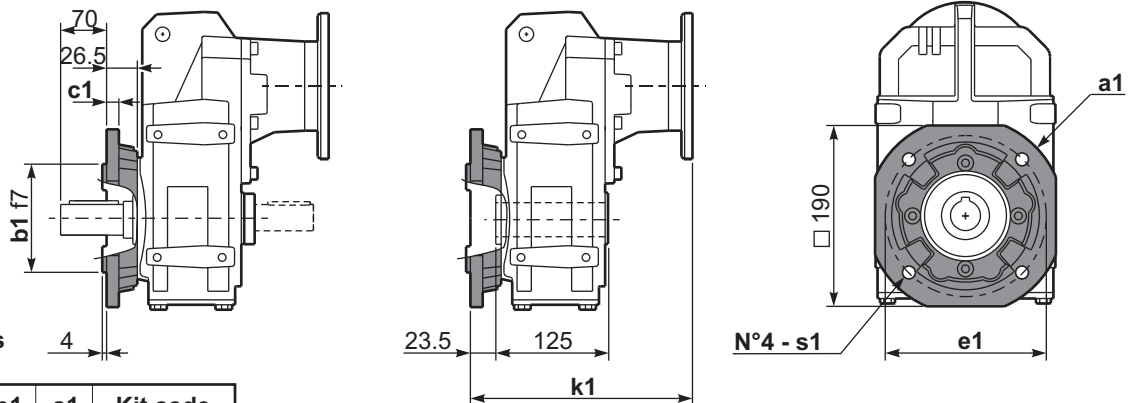
Mounting holes position
Posizione fori di montaggio

Standard
Hollow shaft

On request
A richiesta

PF63C...-F... Output flange
Flangia uscita

Motor Flange	k1
63 B5	246
71 B5	247
80/90 B5	246
71 B14	243.5
80 B14	244.5
90 B14	245.5
100/112B14	261.5

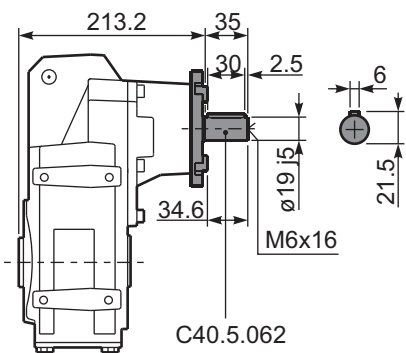


Available output flanges
Flange di uscita

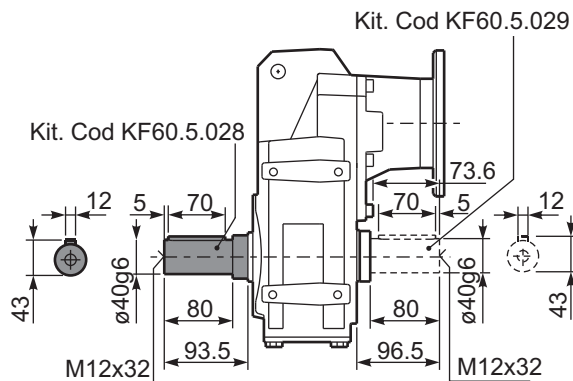
a1 ø	b1	c1	e1	s1	Kit code
200	130	10	165	11	KF60.9.010
250*	180	15	215	13.5	KF60.9.011

* Standard output flange / Flangia uscita standard

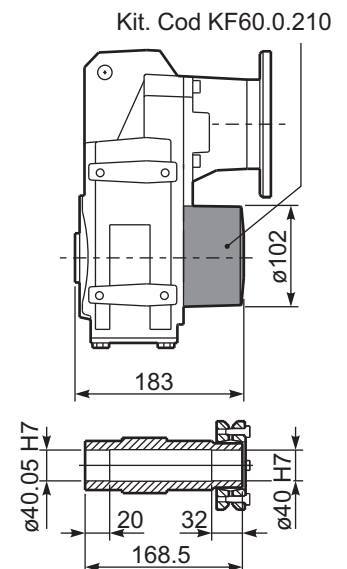
RF63CC... Input Shaft
Albero in entrata



PF63C A/B... Single and Double output shaft
Albero uscita semplice e doppio





PF63C D/S... Shrink disk
Calettatore





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Hollow Shaft 	Ratios code 	
							B	C	O	P	Q			
24.2	57.9	0.25	98	0.9	0.24	90			C	C		2844	standard ø20	-
13.4	104.8	0.12	89	1.0	0.13	90			C	C		1954		
11.5	121.5	0.12	103	0.9	0.11	90			C	C		1756		
9.8	142.6	0.12	121	0.7	0.10	90			C	C		1558		
8.2	170.2	0.12	145	*	0.08	90			C	C		1360		
6.0	232.3	0.12	198	*	0.06	90			C	C		1063		
4.6	303.2	0.12	258	*	0.04	90			C	C		974		
3.5	400.4	0.12	341	*	0.03	90			C	C		776		

The dynamic efficiency is **0.93** for all ratios

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

B) Available on Request without reduction bushing
Disponibile a Richiesta senza Bussola di Riduzione

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

* Power higher than the maximum one which can be born by the gearbox. Select according to the torque moment M_{2r} .
Potenza superiore a quella massima sopportabile dal riduttore. Selezionare in base al momento torcente M_{2r} .

EN Unit **FS20** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

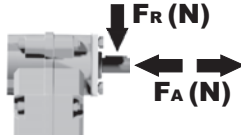
LUBRICATION FS20 Oil Quantity 0.50 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

I Il riduttore **FS20** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

RADIAL LOADS

Input shaft Albero in entrata	n_1	FA	FR
	1400	140	700
	900	160	800

tab. 2

D Das Getriebe **FS20** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.
Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **FS20** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

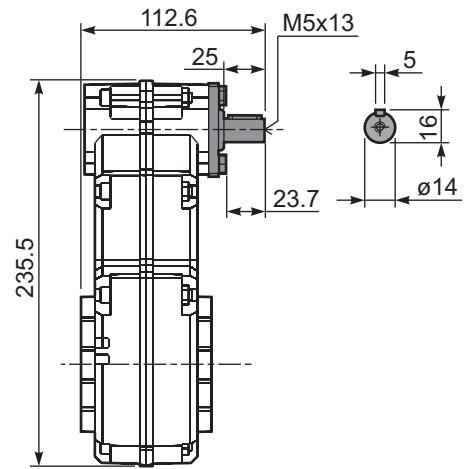
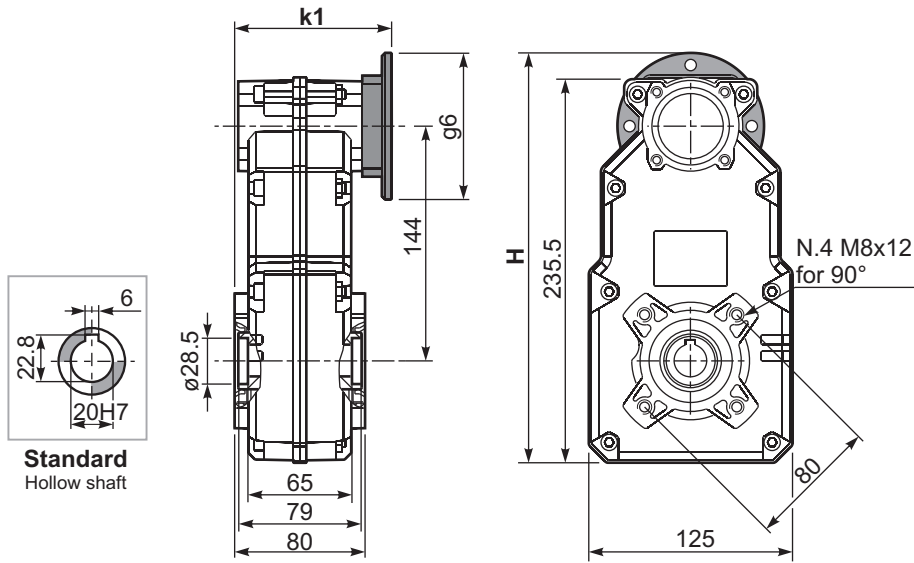
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

PFS20... Basic gearbox
Riduttore base

Wormbox weight
peso riduttore **4.3 kg**

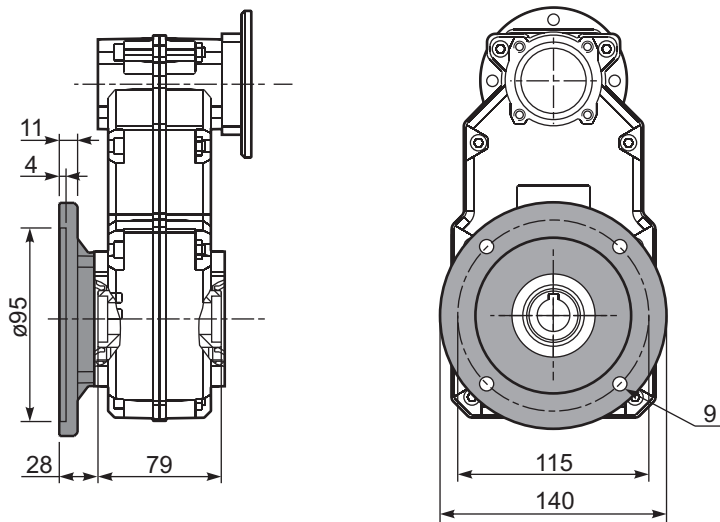
RFS20... Input Shaft
Albero in entrata



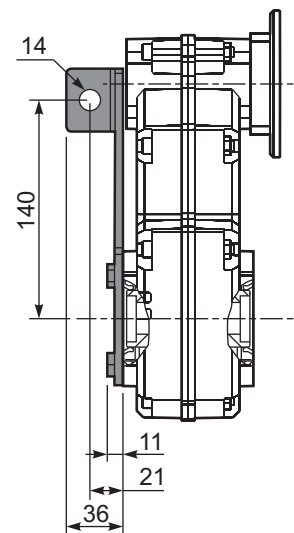
B14 Motor Flanges	H	g6	k1	kit code
56 B14	245.5	80	94.2	KC40.4.049
63 B14	251.5	90	96.7	K050.4.047
71 B14	259	105	94.2	K050.4.045

B5 Motor Flanges	H	g6	k1	kit code
63 B5	276.5	138	94.7	K050.4.041
71 B5	286.5	160	92.7	K050.4.042

PFS20-F Output flange
flangia di uscita



PFS20BR Reaction arm
Braccio di reazione





QUICK SELECTION / Selezione veloce input speed (n₁) = 1400 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Hollow Shaft \varnothing	Ratios code
							B	C	O	P	Q		
29.3	47.7	1.10	333	1.4	1.48	450			C	C		-	-
16.2	86.3	0.75	409	1.1	0.82	450			C	C		standard ø30	-
14.0	100.0	0.75	474	1.0	0.70	450			C	C			
11.9	117.4	0.55	415	1.1	0.60	450			C	C			
10.0	140.1	0.37	339	1.3	0.50	450			C	C			
7.3	191.2	0.37	462	1.0	0.37	450			C	C			
5.6	249.6	0.25	404	1.1	0.28	450			C	C			
4.2	329.6	0.25	533	0.8	0.21	450			C	C			

The dynamic efficiency is **0.93** for all ratios

- Motor Flanges Available** Flange Motore Disponibili
- Supplied with Reduction Bushing** Fornito con Bussola di Riduzione
- Available on Request without reduction bushing** Disponibile a Richiesta senza Bussola di Riduzione
- Motor Flange Holes Position** Posizione Fori Flangia Motore

EN Unit **FS50** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **FS50** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **FS50** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **FS50** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION FS50 Oil Quantity 0.95 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{68}{X+38}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
200	384	1920	85	500	2498	15	672	3360
140	427	2136	70	523	2616	-	-	-
120	451	2256	40	641	3204	-	-	-

Input shaft
Albero in entrata

n ₁	FA	FR
1400	140	700
900	160	800

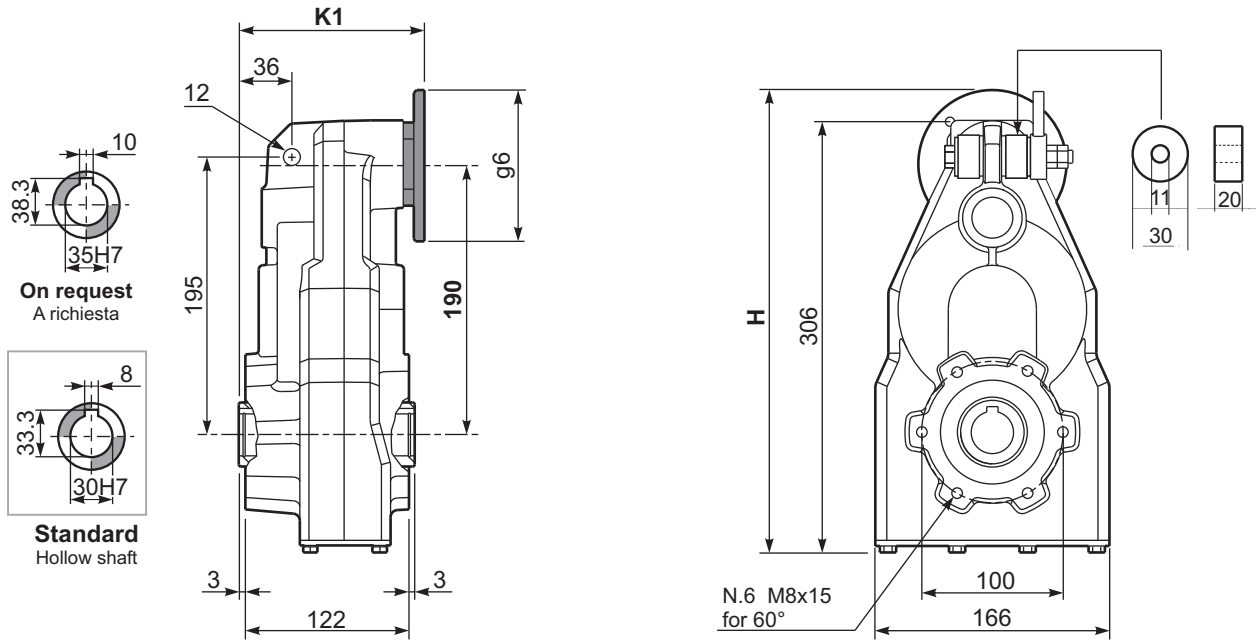
tab. 2

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi	ATEX	Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

PFS50C... Basic gearbox
Riduttore base

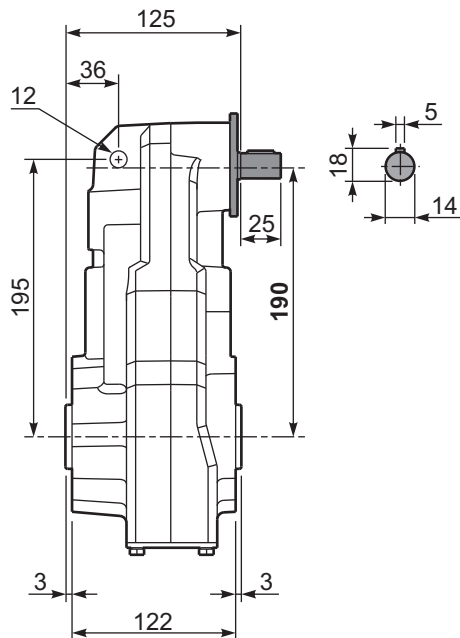
Wormbox weight
peso riduttore **11.5 kg**



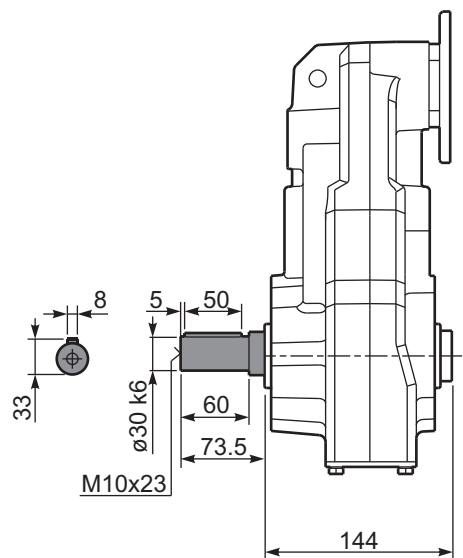
B14 Motor Flanges	H	g6	k1	kit code
56 B14	314	80	130.5	KC40.4.049
63 B14	320	90	133	K050.4.047
71 B14	328	105	130.5	K050.4.045

B5 Motor Flanges	H	g6	k1	kit code
63 B5	345	140	131	K050.4.041
71 B5	355	160	129	K050.4.042

RFS50C... Input shaft
Albero in entrata



PFS50**A**... Output shaft
Albero in uscita

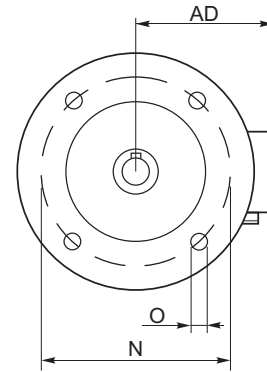
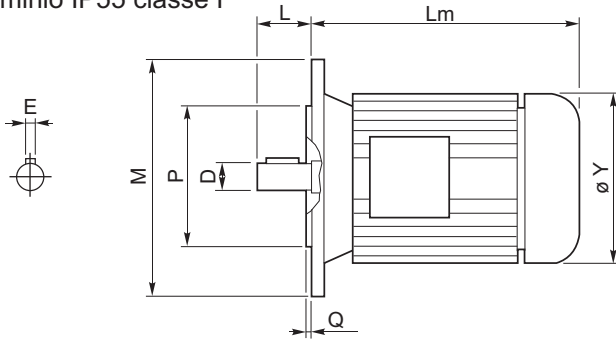


Aluminum IEC motors

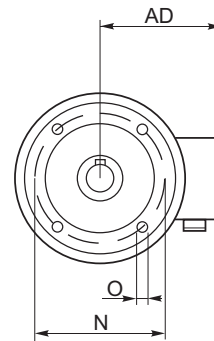
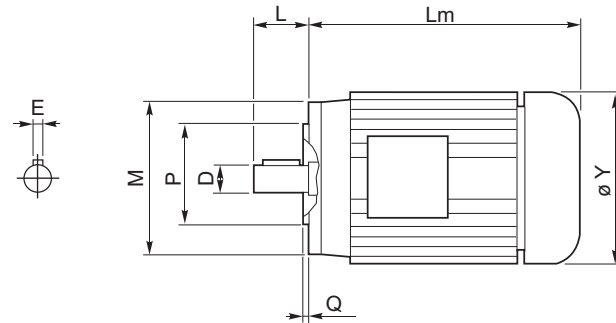
Aluminum motor IP55 class F

Motori solo in alluminio IP55 classe F

B5



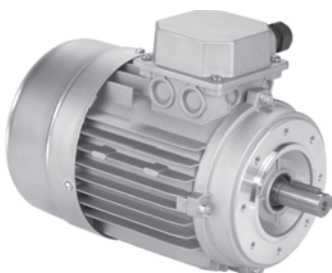
B14



Outside dimensions may be different according to manufacturers.

Le dimensioni esterne sono indicative, possono variare tra i vari costruttori.

	2 poli / poles			4 poli / poles			6 poli / poles			B5-B14						B5					B14					Kg
	kW	Nm	A (400V)	kW	Nm	A (400V)	kW	Nm	A (400V)	D	E	L	Lm	Y	AD	P	N	M	O	Q	P	N	M	O	Q	
56 A	0.09	0.32	0.38	0.06	0.44	0.27	—	—	—	9	3	20	179	108	96	80	100	120	9	2.5	50	65	80	M5	2.5	2.7
56 B	0.12	0.42	0.46	0.09	0.67	0.37	—	—	—																	2.9
63 A	0.18	0.63	0.60	0.12	0.84	0.50	0.09	0.99	0.57	11	4	23	185	120	99	95	115	140	9.5	3	60	75	90	M5	2.5	3.8
63 B	0.25	0.87	0.76	0.18	1.30	0.69	0.12	1.32	0.74																	4.2
71 A	0.37	1.30	1.00	0.25	1.70	0.91	0.18	1.90	0.80	14	5	30	-	130	104	110	130	160	9.5	3.5	70	85	105	M6	2.5	5.9
71 B	0.55	1.90	1.54	0.37	2.52	1.14	0.25	2.72	1.10				225	141	107											6.5
80 A	0.75	2.60	1.85	0.55	3.77	1.51	0.37	3.84	1.18	19	6	40	256	159	127	130	165	200	11.5	3.5	80	100	120	M6	3	8.5
80 B	1.1	3.90	2.64	0.75	5.11	2.57	0.55	5.84	1.80																	10
90 S	1.5	5.00	3.31	1.1	7.45	2.78	0.75	7.92	2.32	24	8	50	-	170	135	130	165	200	11.5	3.5	95	115	140	M8	3	12.5
90 L	2.2	7.50	4.46	1.5	10.2	3.61	1.1	11.6	3.45				280													15
100 LA	3.0	10.0	6.28	2.2	14.8	5.07	1.5	15.4	3.88	28	8	60	-	190	148	180	215	250	13	4	110	130	160	M8	3.5	20
100 LB	—	—	—	3.0	20.1	6.66	—	—	—																	22
112 M	4.0	13.4	8.10	4.0	26.7	8.55	2.2	22.6	5.30				321	210	164											35
132 S	5.5	18.3	11.2	5.5	36.5	11.4	3.0	30.2	7.20	38	10	80	375	244	180	230	265	300	14	4	130	165	200	M10	4	41
	7.5	24.9	15.3																							51
132 M	—	—	—	7.5	49.4	15.0	4.0	40.0	9.13				420													51



Metric electric motors are in aluminum. On request they can be supplied with different Level of protection and painted with 2 or 3 level of anticorrosive paint.

I motori metrici sono in alluminio, su richiesta possono essere forniti con differenti livelli di protezione e verniciati con vernice anticorrosiva.

**ELECTRIC MOTORS / MOTORI ELETTRICI
ELEKTROMOTOREN / MOTORES ELÉCTRICOS**

Protection

Standard IP55
Please specify on purchase orders if you need a higher IP protection class.

Grado di protezione

IP55 Standard
Specificare in sede di ordinazione per IP superiore.

Schutzart

IP55 Standard.
Höheren IP Grad bitte im Auftrag angeben.

Grado de protección

IP55 standard.
Especificar en el pedido cuando necesiten protección IP superior.

Insulation

Standard Cl.F
To be specified upon placing the order if different insulation is required.

Isolamento

Cl.F Standard
Specificare in sede di ordinazione classe di isolamento diversa

Isolierung

Cl.F Standard.
Davon abweichende Isolierungsklasse im Auftrag angeben

Aislamiento

Cl.F standard.
Especificar al efectuar el pedido la clase diferente de aislamiento.

Insulation / Isolamento Isolierung / Aislamiento		E	B	F	H
Max. temp.	C°	120°	130°	155°	175°
	F*	248°	266°	311°	347°

Connections

Collegamenti

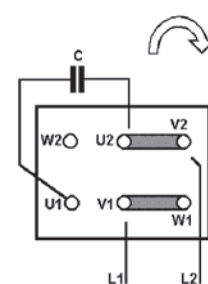
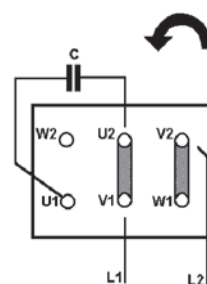
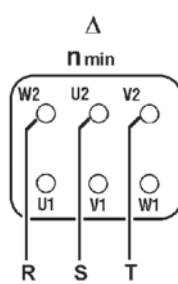
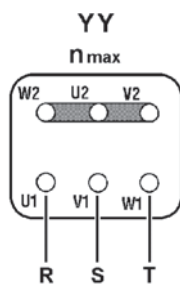
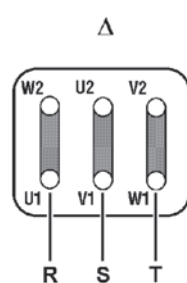
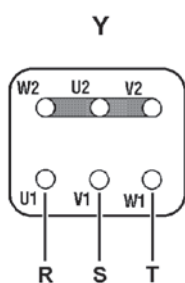
Verbindungselemente

Conexiones

Threephase asynchronous single polarity
Asincrono trifase singola polarità
Asynchronmotor 3-ph eine Drehzahl
Asincrono trifasico de una velocidad

Threephase asynchronous single polarity
Asincrono trifase doppia polarità
Asynchronmotor 3-ph doppelte Drehzahl
Asincrono trifasico de dos velocidades

Single phase asynchronous
Asincrono monofase
Einphasen-Asynchronmotor
Asincrono monofasico



Please Read Carefully

The following WARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your product.

Read ALL instructions prior to operating reducer. Injury to personnel or reducer failure may be caused by improper installation, maintenance or operation.

WARNING:

- Written authorization required to operate or use reducers in man lift or people moving devices.
- Check to make sure that certain applications do not exceed the allowable load capacities published in the current catalog.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.
- Hot oil and reducers can cause severe burns. Use extreme care when removing lubrication plugs and vents.
- Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application power.
- Reducers are not to be considered fail safe or self-locking devices. If these features are required, a properly sized, independent holding device should be utilized. Reducers should not be used as a brake.
- Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as to not subject the reducer to loads beyond the catalog rating.
- Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and not other associated attachments or motors.
- Use of an oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to the reducer or other equipment may result.
- Overhung loads subject shaft bearings and shafts to stress which may cause premature bearing failure and or shaft breakage from bending fatigue, if not sized properly.

Our company will not be responsible for any direct or indirect damages, caused by a wrong use of the products or for not observing the catalogue/web indication

Leggere attentamente

Le seguenti raccomandazioni sono fondamentali per la vostra protezione e per garantirvi molti anni di sicuro funzionamento del vostro prodotto senza alcun problema.

Leggere attentamente tutte le istruzioni prima di azionare il riduttore. L'inappropriata installazione, manutenzione o funzionamento del riduttore può causare incidenti al personale addetto e danni al riduttore stesso.

ATTENZIONE!

- E' richiesta autorizzazione scritta per azionare riduttori in ascensori o dispositivi per il movimento delle persone.
- Controllare che alcune applicazioni non eccedano la massima capacità di carico ammessa pubblicata in questo catalogo.
- L'acquirente è l'unico responsabile per la determinazione dell'adeguatezza del prodotto per qualcuna o tutte le utilizzazioni che l'acquirente stesso farà del riduttore. L'applicazione dell'acquirente non potrà essere soggetta ad alcuna implicita garanzia di montaggio per uno scopo particolare.
- Per ragioni di sicurezza l'acquirente dovrà provvedere a porre protezioni adeguate su tutta la lunghezza dell'albero a tutti gli organi in movimento. L'utilizzatore è responsabile del controllo di tutti i codici di sicurezza e la predisposizione di protezioni adeguate. In assenza di tali precauzioni si possono verificare incidenti alle persone e danni agli apparati.
- Olio e riduttori bollenti possono causare gravi ustioni. Usare estrema cautela nella rimozione dei tappi e delle ventole.
- Assicurarci che la corrente di alimentazione sia scollegata prima di riparare o rimuovere alcun componente. Chiudere l'alimentazione e contrassegnare tale operazione per evitare accensioni accidentali.
- I riduttori non devono essere considerati esenti da guasti o a bloccaggio automatico. Se sono indispensabili queste caratteristiche, deve essere utilizzato un dispositivo indipendente della dimensione adatta. I riduttori non devono essere utilizzati come freni.
- Qualsiasi freno sia utilizzato insieme al riduttore deve essere della giusta grandezza e posizionato in modo da non causare carichi eccessivi non previsti dai dati forniti nel catalogo.
- I dispositivi di sollevamento come le golfare devono essere usati solo per sollevare verticalmente il riduttore e non altri dispositivi associati o motori.
- L'utilizzo di un olio con un additivo EP su gruppi provvisti di dispositivo di arresto possono inficiare l'uso corretto del freno e provocare danni alle persone, alle cose ed al riduttore stesso nonché ad altri apparecchi.
- I Carichi sospesi assoggettano i cuscinetti della vite e la vite stessa a sollecitazioni che possono causare, se non adeguatamente dimensionati, l'usura prematura dei cuscinetti e/o la rottura della vite a causa della resistenza alla flessione.

La nostra ditta non si ritiene responsabile per eventuali danni diretti o indiretti derivanti da un uso improprio dei prodotti e dalla mancata osservanza delle indicazioni riportate a catalogo o web..

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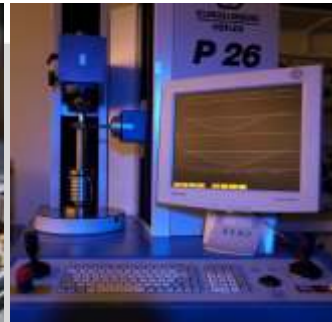
Worm gearboxes
Rid. a vite senza fine



Square worm gearboxes
Rid. a vite senza fine quadro



Stainless steel worm gearboxes
Rid. a vite senza fine Inox



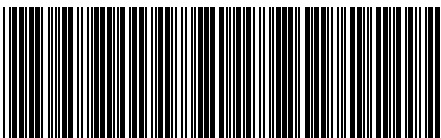
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