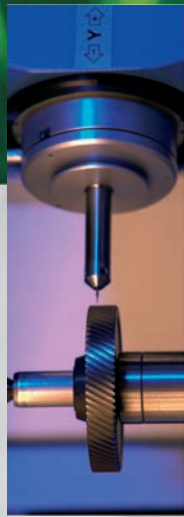


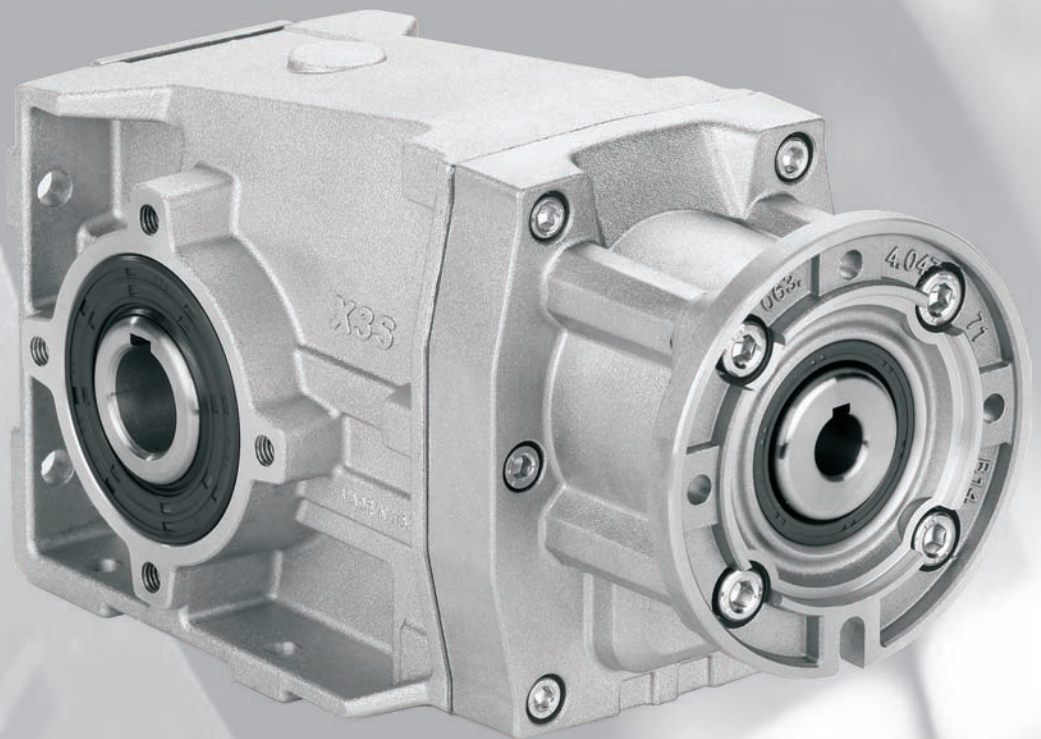
Angletech Gears



Cat.: CT-BVM-X-HM010

Helical-bevel gearboxes
Riduttori ortogonali

**Hypoid and grounded helical gears.
Recover energy, with an high
efficiency drive**



Made in Italy

HYDRO • MEC

Aluminum helical bevel gearbox

A modular and compact product
Very energy efficient drive

Removable inspection cover

Allows periodic inspection of gearing during routine maintenance

Gears

Hardened and ground gears

Alloy housing

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

Oil seals

Two oil seals on request

Single-piece aluminum

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

Flange

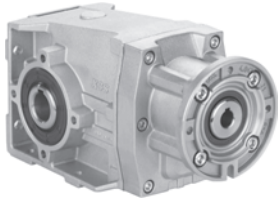
Fully modular to IEC and Compact integrated motor. NEMA C flange

Lubricated for life with synthetic oil with operative range from -15° to +130°C



World wide sales network.

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



Types / Tipi /
Arten / Tipos →

1-5	1-7	1-9	1-11	1-13	1-15	1-17	1-19	1-21
X22S 50Nm	X32S 90Nm	X33S 100Nm	X42A 150Nm	X43A 160Nm	X52A 240Nm	X53A 240Nm	X62A 410Nm	X63A 410Nm

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

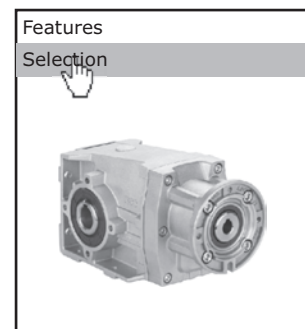
Download 3D drawings
Download disegni 3D

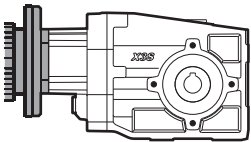
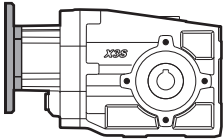
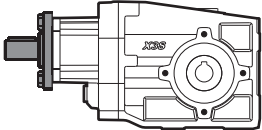
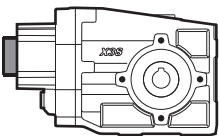
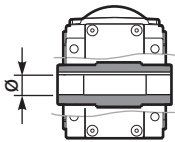
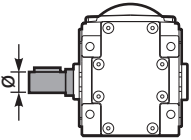
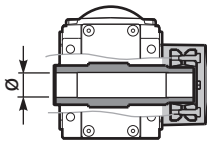
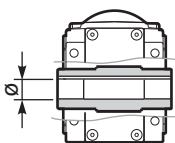
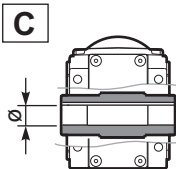
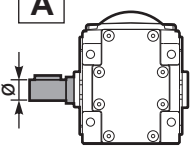
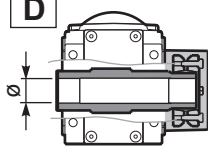


Interchangeability
Intercambiabilità

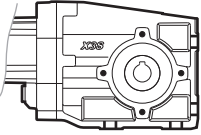
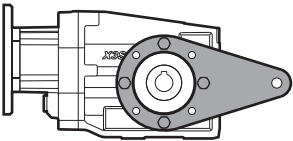
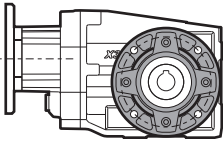
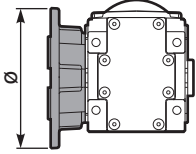




Installation and maintenance
Installazione, uso e manutenzione

Spare parts list
Liste parti di ricambio

Use our web database to
get detailed information,
always updated on
each type/size.



Type - Tipo - Typ - Tipo	Size - Grandezza Grösse - Tomaño	Mounting - Montaggio Montage - Tipo de montaje	Rapporto - Ratio Untersetzung - Relacion	Output shaft Albero uscita Ausgangsflansch Brida en solida
M	X22S	C	4.83	A
<p>Helical-bevel gear Riduttori ortogonali</p>  <p>With IEC motor M</p>  <p>With motor flange P</p>  <p>With male input shaft R</p>  <p>Modular base B</p>	<p>2 Stages Riduzioni Stufen Etapas</p> <p>3 Stages Riduzioni Stufen Etapas</p> <p>Aluminum Alluminio Aluminium Aluminio</p> <p>X22S X32S X42A X52A X62A</p> <p>X33S X43A X53A X63A</p>	<p>Hollow output shaft C</p>  <p>Single output shaft A</p>  <p>Shrink Disk (only on the DX side) D</p> <p>Only on request for Q.ty A richiesta per quantità</p>  <p>Stainless steel hub I</p>  <p>Stainless steel hub Mozzo in acciaio Inox Edelstahlhohlwelle Nucleo corona de acero Inox</p> <p>Only on request for Q.ty A richiesta per quantità</p>	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Technisches Datenblatt beachten.</p> <p>Ver tabla datos técnicos</p>	<p>Output shaft</p>  <p>C</p> <p>→ STANDARD</p> <p>X22S</p> <p>A ⇔ $\varnothing 18$ B → $\varnothing 20$</p> <p>X32S X33S</p> <p>B → $\varnothing 20$ C ⇔ $\varnothing 25$</p> <p>X42A X43A</p> <p>C → $\varnothing 25$ D ⇔ $\varnothing 30$</p> <p>X52A X53A</p> <p>D → $\varnothing 30$ E ⇔ $\varnothing 35$</p> <p>X62A X63A</p> <p>E → $\varnothing 35$ F ⇔ $\varnothing 40$</p> <hr/> <p>A</p>  <p>Single output shaft</p> <p>I X22S X32/3S ⇔ $\varnothing 20$ L X32/3S ⇔ $\varnothing 25$ X42/3A M X52/3A ⇔ $\varnothing 30$ N X62/3A ⇔ $\varnothing 35$</p> <hr/> <p>D</p>  <p>Shrink Disk</p> <p>U X22S X32/3S ⇔ $\varnothing 20$ Q X42/3A ⇔ $\varnothing 30$ R X52/3A ⇔ $\varnothing 35$ S X62/3A ⇔ $\varnothing 40$</p>
 <p>Dossier according to 94/9/EG 8. b ii stored</p> 	<p>A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX</p>	<p>On request we can deliver our products according to the ATEX</p>	<p>Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern</p>	<p>A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.</p>

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																												
BR	N	O	B	B3																												
 <p>FB Forma base Universal</p>  <p>BR Braccio d reazione Reaction arm</p>  <p>-F Flangia uscita output flange</p>	 <p>N Senza flangia Without flange</p> <p>X22S</p> <p>0 ⇨ $\varnothing 110$</p> <p>1 ⇨ $\varnothing 120$</p> <p>X32S X33S</p> <p>1 ⇨ $\varnothing 120$</p> <p>2 ⇨ $\varnothing 160$</p> <p>X42A X43A</p> <p>2 ⇨ $\varnothing 160$</p> <p>3 ⇨ $\varnothing 200$</p> <p>4 ⇨ $\varnothing 250$</p> <p>X52A X53A X62A X63A</p> <p>2 ⇨ $\varnothing 160$</p> <p>3 ⇨ $\varnothing 200$</p> <p>4 ⇨ $\varnothing 250$</p>	<p>Standard motor flange Flangia motore 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>NEMA motor flange Flangia motore NEMA</p>  <p>W=56C X=143/5TC Y=182/4TC</p> <p>Input shaft type R / Tipo R</p>  <table border="1"> <tr> <td>X22S X33A X43A</td> <td>X32S X42A X53A X63A</td> </tr> <tr> <td>1 ⇨ $\varnothing 14$</td> <td>2 ⇨ $\varnothing 19$</td> </tr> </table> <p>X52A X62A</p> <p>3 ⇨ $\varnothing 24$</p> <p>Input model base bore Foro entrata standard</p>  <table border="1"> <tr> <td>X22S X33S X43A</td> <td>X32S X42A X53A X63A</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 ⇨ $\varnothing 14$ (71B5)</td> <td>3 ⇨ $\varnothing 24$ (90B5)</td> </tr> </table> <p>X52A X62A</p> <p>2 ⇨ $\varnothing 19$ (80B5)</p> <p>3 ⇨ $\varnothing 24$ (90B5)</p> <p>4 ⇨ $\varnothing 28$ (100B5)</p> <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 ($\varnothing 200$)	X22S X33A X43A	X32S X42A X53A X63A	1 ⇨ $\varnothing 14$	2 ⇨ $\varnothing 19$	X22S X33S X43A	X32S X42A X53A X63A	Z ⇨ $\varnothing 9$ (56B5)	1 ⇨ $\varnothing 14$ (71B5)	0 ⇨ $\varnothing 11$ (63B5)	2 ⇨ $\varnothing 19$ (80B5)	1 ⇨ $\varnothing 14$ (71B5)	3 ⇨ $\varnothing 24$ (90B5)	<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>B8</p> <p>Specify only for vertical positions</p> <p>Specificare solo per posizione verticale</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 ($\varnothing 120$)																															
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	V =132 ($\varnothing 200$)																															
X22S X33A X43A	X32S X42A X53A X63A																															
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1 ⇨ $\varnothing 14$ (71B5)	3 ⇨ $\varnothing 24$ (90B5)																															

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

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

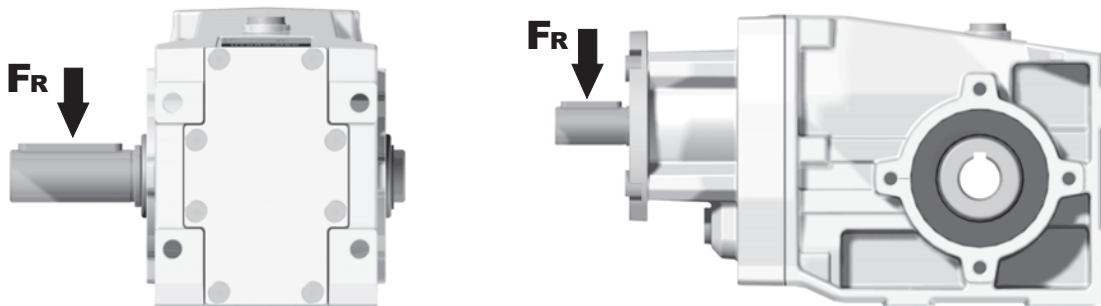
TORQUE / COPPIA / DREHMOMENT / PAR

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

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

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
Flanschttype
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

X22S

Angletech Gear 50Nm

Rating - Alluminum HELICAL-BEVEL GEARBOXES

QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios 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	O	P	Q			
289.7	4.83	0.37	11.7	2.6	0.95	30			C	C		289		-
189.2	7.40	0.37	17.9	1.7	0.62	30			C	C		287		
146.2	9.58	0.37	23.2	1.7	0.64	40			C	C		199		
127.5	10.98	0.37	26.6	1.7	0.63	45			C	C		179		

C Ratio
Rapporto
Untersetzung
Relación

Transmitted torque
Momento torcente trasmesso
Mögliche Drehmomente
Par transmitido

Service factor
Fattore di servizio
Betriebsfaktor
Factor de servicio

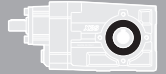
Output shaft diam.
Diam. albero uscita
Durchmesser abtriebswelle
Diámetro eje de salida

Notes
Note
Anmerkungen
Notas

		fs		
		Oper. hours per day Ore di funz. giorn.		
Type of load and starts per hour Tipo di carico e avviamenti per ora		3 h	10 h	24 h
Continuous or intermittent appl. with start / hour Applicazione cont. o interm. con n.ro operazioni/ora	Uniform / Uniforme	0.8	1	1.25
	Moderate / Moderato	1	1.25	1.5
	Heavy / Forte	1.25	1.5	1.75
Intermittent application with start / hour Applicazione intermittente con n.ro operazioni/ora	Uniform / Uniforme	1	1.25	1.5
	Moderate / Moderato	1.25	1.5	1.75
	Heavy / Forte	1.5	1.75	2.15

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 Disponible tambien 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 The dynamic efficiency is **0.96** for all ratios **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	
							63	71	56	63	71	
289.7	4.83	0.37	11.7	2.6	0.95	30			C	C		289
189.2	7.40	0.37	17.9	1.7	0.62	30			C	C		287
146.2	9.58	0.37	23.2	1.7	0.64	40			C	C		199
127.5	10.98	0.37	26.6	1.7	0.63	45			C	C		179
107.1	13.07	0.37	31.6	1.4	0.53	45			C	C		159
95.5	14.66	0.37	35.5	1.3	0.47	45			C	C		197
88.6	15.79	0.37	38.2	1.2	0.44	45			C	C		139
83.3	16.81	0.37	40.7	1.1	0.41	45			C	C		177
70.0	20.00	0.37	48.4	1.0	0.37	48			C	C		157
63.8	21.93	0.37	53.1	0.9	0.35	50			C	C		109
57.9	24.18	0.25	39.5	1.3	0.32	50			C	C		137
48.2	29.04	0.25	47.4	1.1	0.26	50			C	C		99
41.7	33.57	0.18	41.9	1.2	0.23	50			C	C		107
36.2	38.67	0.18	48.3	1.0	0.20	50			C	C		79
31.5	44.44	0.18	55.5	0.9	0.17	50			C	C		97
23.7	59.18	0.12	47.7	1.0	0.13	50			C	C		77
19.9	70.24	0.09	45.2	1.1	0.11	50			C	C		67

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 **X22S** 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 **X22S** 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 **X22S** 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 **X22S** se suministra, lubricado de por vida con aceites 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.

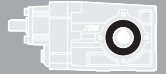
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
0.25 LT	0.25 LT	0.25 LT	0.25 LT	0.31 LT	0.43 LT	0.25 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n ₂ [min ⁻¹]	FA [N]	FR [N]
	400	360	1800
	250	380	1900
	150	420	2100
	100	440	2200
	75	440	2200
	50	440	2200
	25	440	2200
	15	440	2200
FR On request taper roller bearings to increase radial loads. A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.			
Input shaft albero in entrata			
	n ₁ [min ⁻¹]	FA [N]	FR [N]
	1400	140	700
	900	160	800
	600	190	950
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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		
190.9	7.33	1.5	71.8	1.0	1.46	70	B				C	C		289	standard ø20
124.7	11.22	1.1	80.3	1.1	1.16	85	B				C	C		287	
105.6	13.26	1.1	94.9	0.9	0.98	85	B				C	C		199	
91.1	15.37	1.1	110.0	0.8	0.89	90	B				C	C		179	
77.6	18.04	0.75	88.6	1.0	0.76	90	B				C	C		159	
69.0	20.30	0.75	99.6	0.9	0.68	90	B				C	C		197	
65.0	21.54	0.75	105.7	0.9	0.64	90	B				C	C		139	
59.5	23.53	0.55	85.2	1.1	0.58	90	B				C	C		177	
50.7	27.62	0.55	100.0	0.9	0.50	90	B				C	C		157	
47.6	29.40	0.55	106.4	0.8	0.47	90	B				C	C		109	
42.5	32.97	0.37	79.8	1.1	0.42	90	B				C	C		137	
36.5	38.37	0.37	92.9	1.0	0.36	90	B				C	C		99	
31.1	45.00	0.25	73.5	1.2	0.31	90	B				C	C		107	
27.6	50.67	0.25	82.7	1.1	0.27	90	B				C	C		79	
23.8	58.73	0.18	73.3	1.2	0.23	90	B				C	C		97	
18.1	77.55	0.18	96.8	0.9	0.18	90	B				C	C		77	

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 **X32S** 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 **X32S** 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 **X32S** 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 **X32S** 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					
LT	LT	LT	LT	LT	LT	LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

-RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n ₂ [min ⁻¹]	FA [N]	FR [N]
	250	400	2000
	150	450	2250
	100	500	2500
	75	560	2800
	50	560	2800
	25	560	2800
	15	560	2800
FR On request taper roller bearings to increase radial loads. A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.			
Input shaft albero in entrata			
	n ₁ [min ⁻¹]	FA [N]	FR [N]
	1400	240	1200
	900	280	1400
	600	340	1700
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

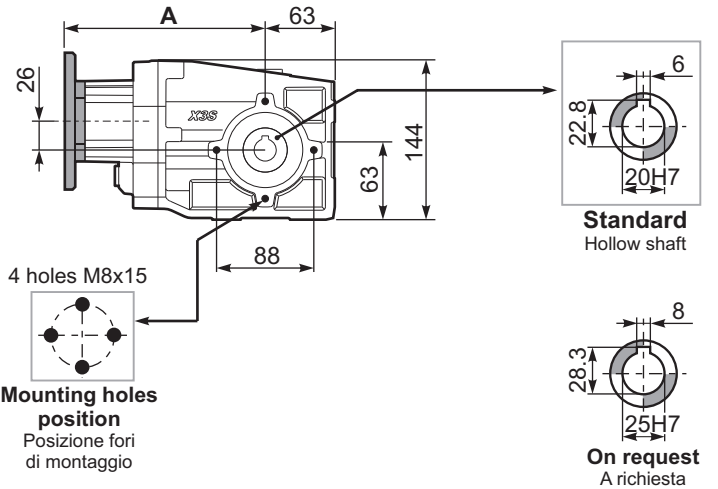
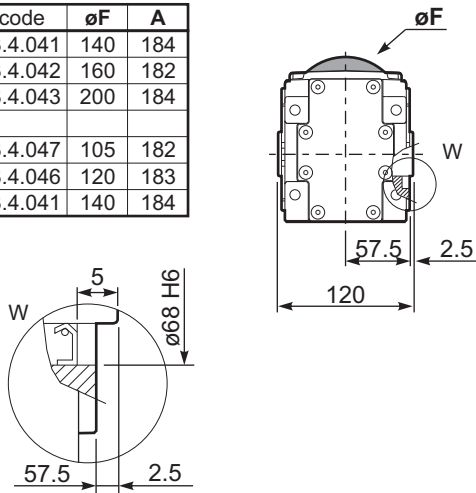
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

PX32S-C... Basic Gearbox
Riduttore base

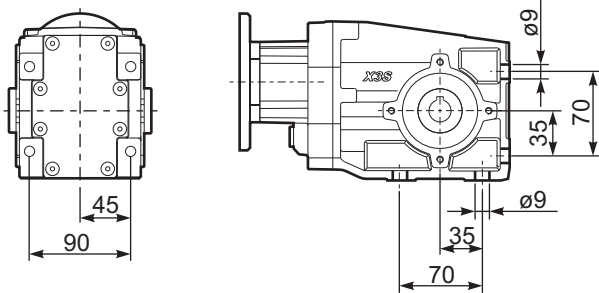
Wormbox weight
peso riduttore **... kg**

M. flanges	Kit code	øF	A
63B5	K063.4.041	140	184
71B5	K063.4.042	160	182
80/90B5	K063.4.043	200	184
71B14	K063.4.047	105	182
80B14	K063.4.046	120	183
90B14	K063.4.041	140	184

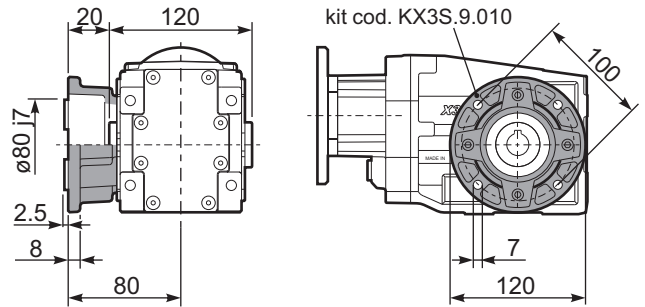


4 holes M8x15
Mounting holes position
Posizione fori di montaggio

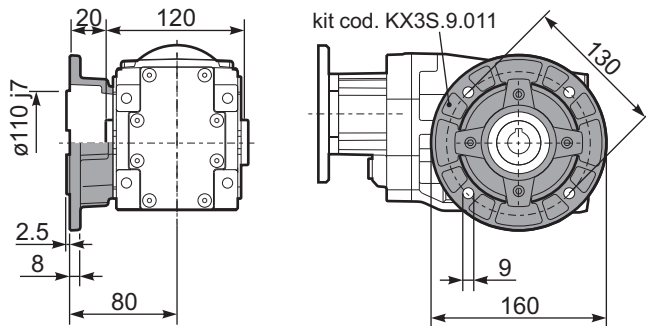
PX32S.-N.. Feet
Piedini



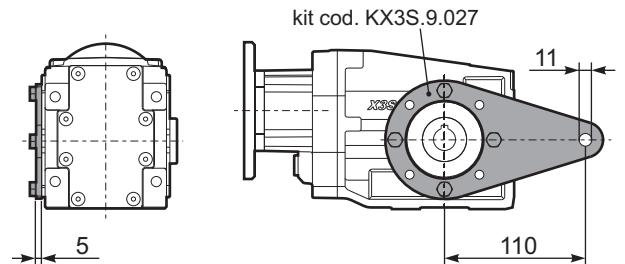
PX32S.-F1.. Output flange
Flangia uscita



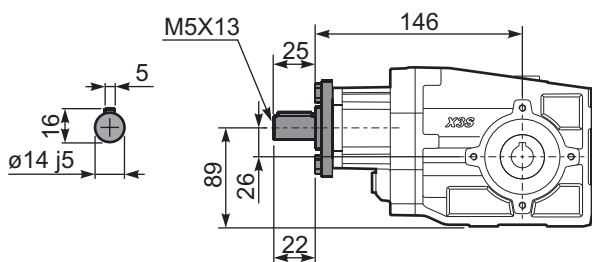
PX32S.-F2.. Output flange
Flangia uscita



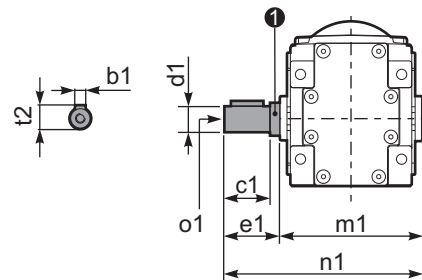
PX32SBR.. Reaction Arm
Braccio di reazione



RX32S... Input shaft
Albero in entrata



PX32S.-A.. Single shaft
Albero lento semplice



d1	b1	c1	e1	m1	n1	t2	o1	① kit code
ø20 ^{-0.005} _{-0.020}	6	37.5	40	120	140	22.5	M8x20	KX2S.5.028
ø25 ^{-0.005} _{-0.020}	8	60	63.2	126.8	190	28	M8x20	K063.5.028



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.93** for all ratios **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		
							63	71	56	63	71		
38.7	36.17	0.37	85.8	1.2	0.42	100			C	C		17179	standard ø20
31.7	44.21	0.37	104.9	1.0	0.35	100			C	C		19139	
27.6	50.68	0.25	81.1	1.2	0.30	100			C	C		17139	
25.3	55.36	0.25	88.6	1.1	0.28	100			C	C		17177	
23.2	60.31	0.25	96.5	1.0	0.25	100			C	C		15139	
21.3	65.88	0.25	105.4	0.9	0.23	100			C	C		15177	
19.4	72.25	0.18	88.4	1.1	0.21	100			C	C		10179	
17.6	79.64	0.18	97.4	1.0	0.19	100			C	C		13177	
15.2	92.31	0.18	112.9	0.9	0.17	100			C	C		15137	
14.6	95.65	0.18	117.0	0.9	0.16	100			C	C		9179	
13.8	101.23	0.12	80.0	1.2	0.15	100			C	C		10139	
11.0	127.37	0.12	100.7	1.0	0.12	100			C	C		7179	
9.3	151.16	0.09	95.3	1.0	0.10	100			C	C		6179	
7.8	178.46	0.09	112.5	0.9	0.09	100			C	C		7139	
6.6	211.79	0.06	87.7	1.1	0.07	100			C	C		6139	
6.1	231.37	0.06	95.8	1.0	0.07	100			C	C		6177	
5.1	273.16	0.06	113.1	0.9	0.06	100			C	C		7137	
4.3	324.18	0.06	134.2	0.7	0.05	100			C	C		6137	

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 **X32S** 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 **X32S** 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 **X32S** 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 **X32S** 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
LT	LT	LT	LT	LT	LT	LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n ₂ [min ⁻¹]	FA [N]	FR [N]
	250	400	2000
	150	450	2250
	100	500	2500
	75	560	2800
	50	560	2800
	25	560	2800
	15	560	2800
FR On request taper roller bearings to increase radial loads. A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.			
Input shaft albero in entrata			
	n ₁ [min ⁻¹]	FA [N]	FR [N]
	1400	140	700
	900	160	800
	600	190	950
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

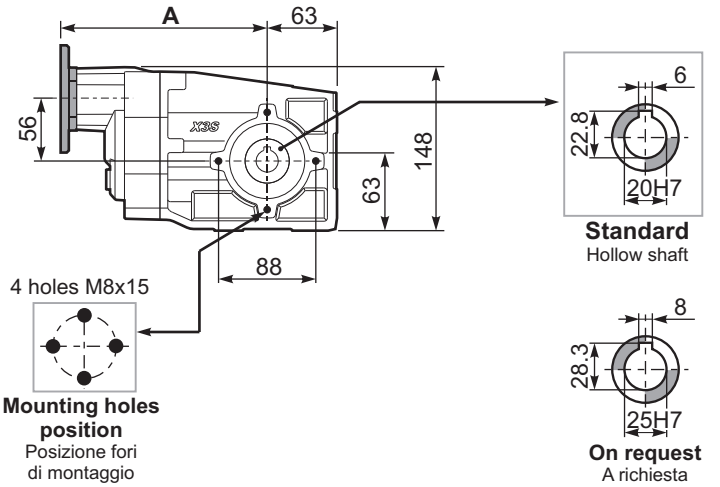
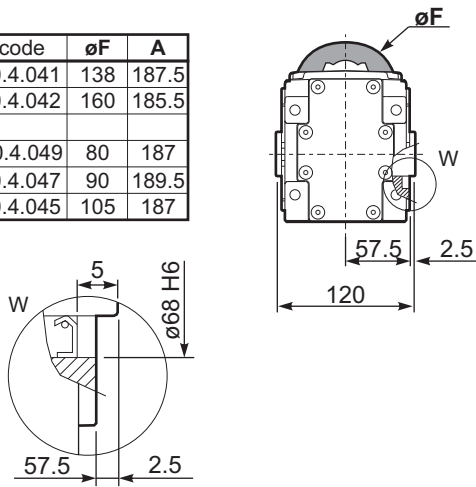
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

PX33S-C... Basic Gearbox
Riduttore base

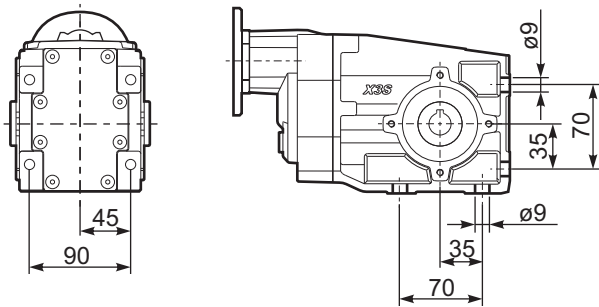
Wormbox weight
peso riduttore **... kg**

M. flanges	Kit code	øF	A
63B5	K050.4.041	138	187.5
71B5	K050.4.042	160	185.5
56B14	KC40.4.049	80	187
63B14	K050.4.047	90	189.5
71B14	K050.4.045	105	187

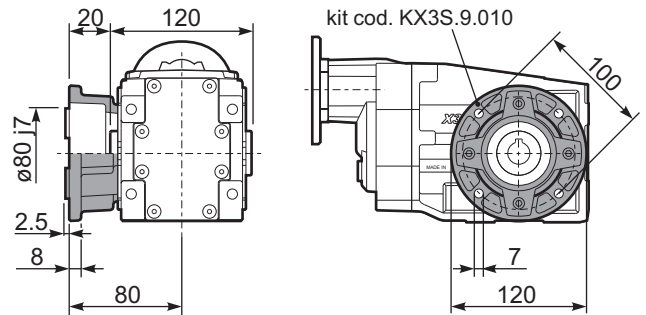


4 holes M8x15
Mounting holes position
Posizione fori di montaggio

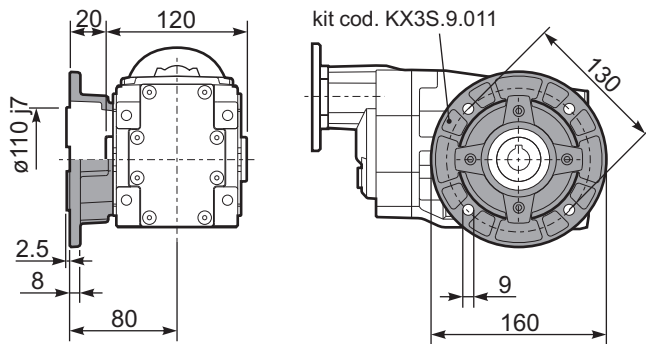
PX33S-N.. Feet
Piedi



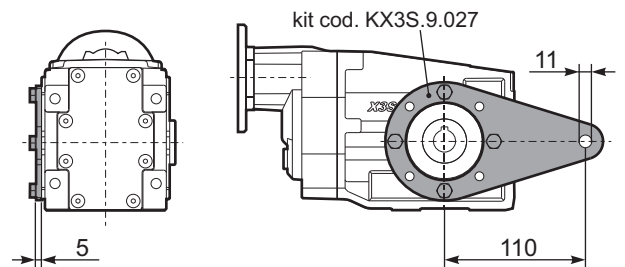
PX33S-F1.. Output flange
Flangia uscita



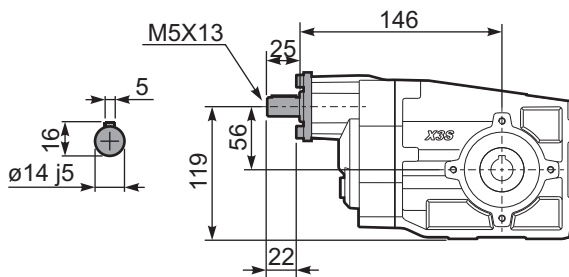
PX33S-F2.. Output flange
Flangia uscita



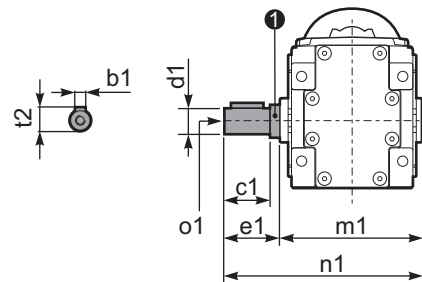
PX33S-BR.. Reaction Arm
Braccio di reazione



RX33S... Input shaft
Albero in entrata



PX33S..A.. Single shaft
Albero lento semplice



d1	b1	c1	e1	m1	n1	t2	o1	1 kit code
ø20 ^{-0.005/-0.020}	6	37.5	40	120	140	22.5	M8x20	KX2S.5.028
ø25 ^{-0.005/-0.020}	8	60	63.2	126.8	190	28	M8x20	K063.5.028



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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			
192.2	7.29	2.2	103.6	0.9	1.99	95	B				C	C			2811	standard ø25	-
125.0	11.20	2.2	159.1	0.9	2.05	150	B				C	C			288		
106.2	13.18	1.5	129.1	1.2	1.74	150	B				C	C			1911		
91.7	15.27	1.1	109.3	1.4	1.50	150	B				C	C			1711		
78.1	17.93	1.1	128.3	1.2	1.28	150	B				C	C			1511		
69.1	20.25	1.1	144.9	1.0	1.13	150	B				C	C			198		
65.4	21.40	1.1	153.1	1.0	1.07	150	B				C	C			1311		
59.6	23.47	0.75	115.2	1.3	0.98	150	B				C	C			178		
50.8	27.55	0.75	135.2	1.1	0.83	150	B				C	C			158		
47.9	29.21	0.75	143.3	1.0	0.78	150	B				C	C			1011		
42.6	32.88	0.75	161.4	0.9	0.70	150	B				C	C			138		
36.7	38.12	0.55	138.0	1.1	0.60	150	B				C	C			911		
31.2	44.89	0.55	162.5	0.9	0.51	150	B				C	C			108		
27.8	50.34	0.37	121.8	1.1	0.40	131	B				C	C			711		
23.9	58.58	0.37	141.8	1.1	0.39	150	B				C	C			98		
18.1	77.36	0.25	126.3	1.2	0.30	150	B				C	C			78		

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 **X42A** 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 **X42A** 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 **X42A** 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 **X42A** 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					
LT	LT	LT	LT	LT	LT	LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

-RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n_2 [min ⁻¹]	FA [N]	FR [N]
	250	500	2500
	150	600	3000
	100	700	3500
	75	800	4000
	50	960	4800
	25	960	4800
	15	960	4800
FR On request taper roller bearings to increase radial loads. A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.			
Input shaft albero in entrata			
	n_1 [min ⁻¹]	FA [N]	FR [N]
	1400	240	1200
	900	280	1400
	600	340	1700
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

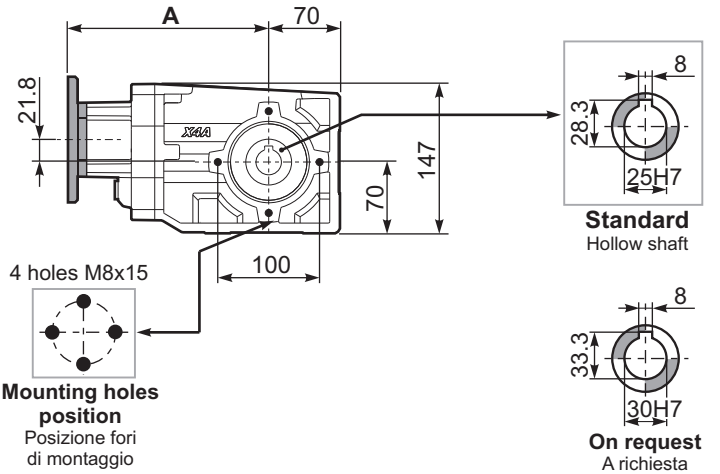
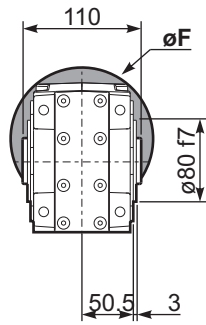
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Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

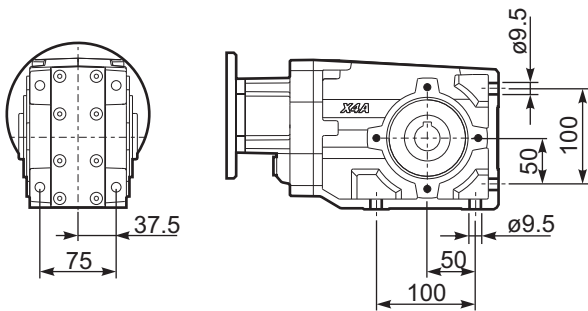
PX42A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

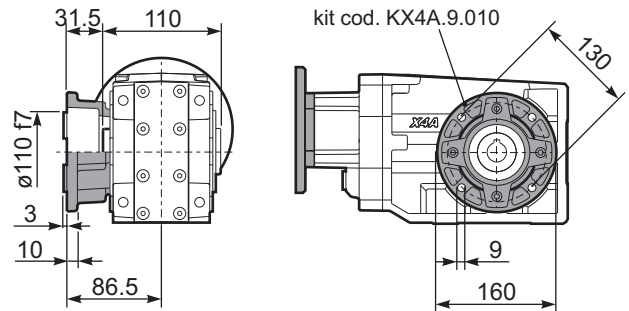
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	199.5
71B5	K063.4.042	160	197.5
80/90B5	K063.4.043	200	199.5
71B14	K063.4.047	105	197.5
80B14	K063.4.046	120	198.5
90B14	K063.4.041	140	199.5
100/112B14	KC40.4.041	160	235



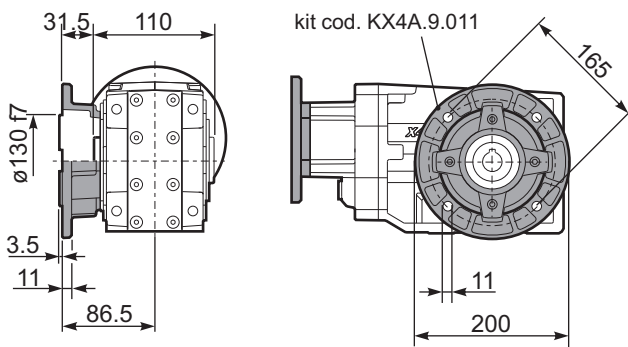
PX42A-N.. Feet
Piedini



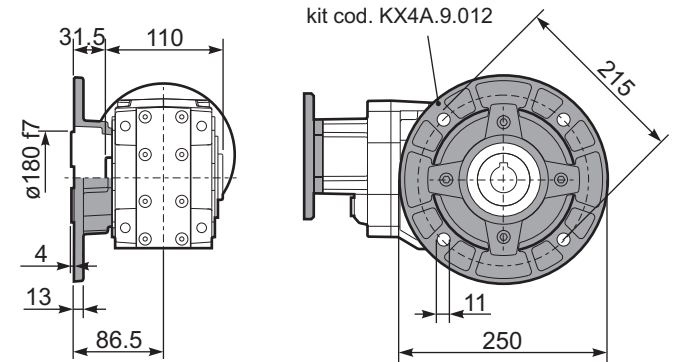
PX42A-F2.. Output flange
Flangia uscita



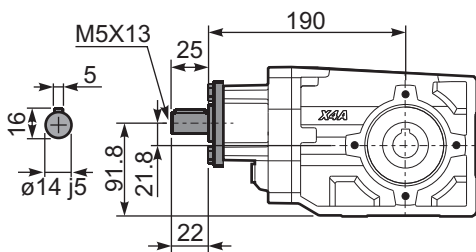
PX42A-F3.. Output flange
Flangia uscita



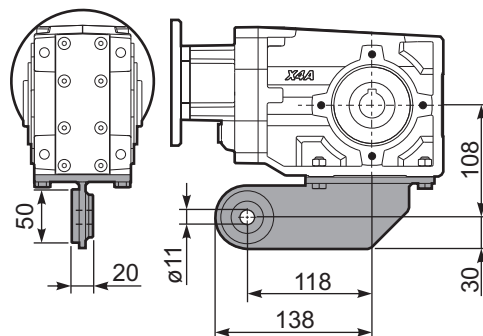
PX42A-F4.. Output flange
Flangia uscita



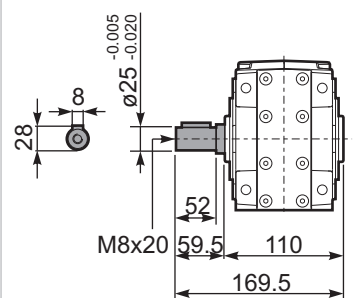
RX42A... Input shaft
Albero in entrata

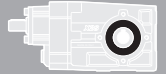


PX42A-BR.. Reaction Arm
Braccio di reazione



PX42A..A.. Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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		
							63	71	56	63	71		
27.8	50.35	0.37	119.4	1.3	0.45	150			C	C		171311	-
25.4	55.22	0.37	131.0	1.1	0.41	150			C	C		17178	
23.4	59.92	0.37	142.1	1.1	0.38	150			C	C		151311	
21.3	65.72	0.37	155.9	1.0	0.35	150			C	C		15178	
19.5	71.78	0.25	114.9	1.3	0.32	150			C	C		101711	
17.6	79.44	0.25	127.1	1.2	0.29	150			C	C		13178	standard ø25
15.2	92.08	0.25	147.3	1.0	0.25	150			C	C		15138	
14.7	95.03	0.25	152.1	1.0	0.24	150			C	C		91711	
11.1	126.55	0.18	154.8	1.0	0.19	160			C	C		71711	
10.5	133.15	0.18	162.9	1.0	0.18	160			C	C		91311	ø30 On request
9.3	150.18	0.12	118.7	1.3	0.16	160			C	C		61711	
7.9	177.30	0.12	140.2	1.1	0.14	160			C	C		71311	
6.7	210.42	0.09	132.7	1.2	0.12	160			C	C		61311	
6.1	230.79	0.09	145.5	1.1	0.11	160			C	C		6178	
5.1	272.47	0.06	112.8	1.4	0.09	160			C	C		7138	
4.3	323.37	0.06	133.9	1.2	0.08	160			C	C		6138	

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 **X43A** 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 **X43A** 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 **X43A** 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 **X43A** 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					
... LT	... LT	... LT	... LT	... LT	... LT	... LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

•RADIAL AND AXIAL LOADS

Output shaft Albero di uscita			n ₂ [min ⁻¹]	FA [N]	FR [N]
			250	500	2500
			150	600	3000
			100	700	3500
			75	800	4000
			50	960	4800
			25	960	4800
			15	960	4800

FR
On request taper roller bearings to increase radial loads.
A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.

Input shaft albero in entrata			n ₁ [min ⁻¹]	FA [N]	FR [N]
			1400	140	700
			900	160	800
			600	190	950

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

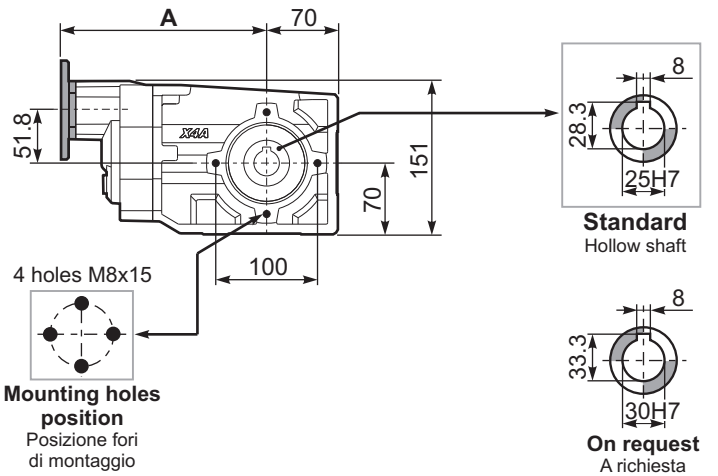
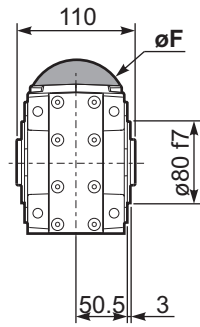
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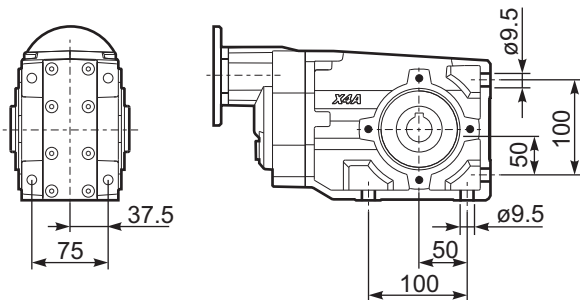
PX43A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

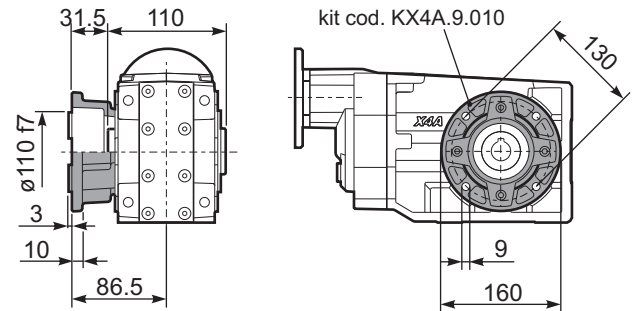
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	203
71B5	K050.4.042	160	201
56B14	KC40.4.049	80	202.5
63B14	K050.4.047	90	205
71B14	K050.4.045	105	202.5



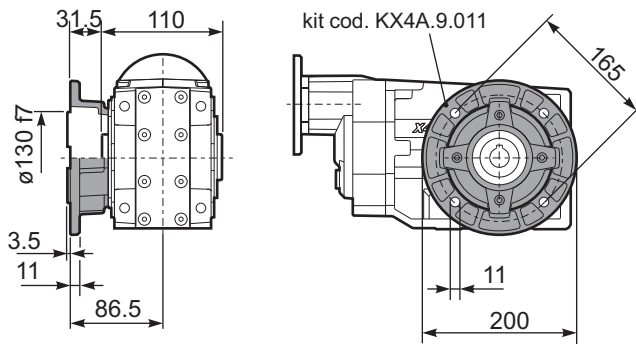
PX43A-N.. Feet
Piedini



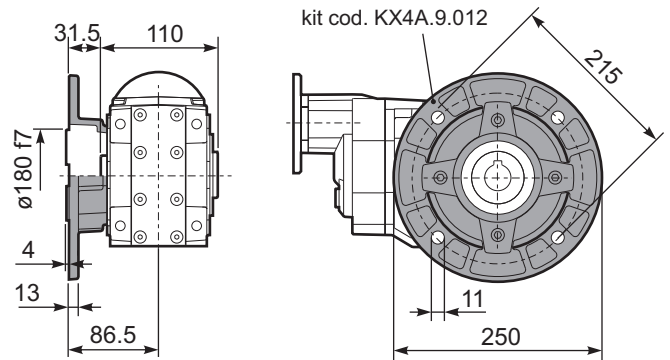
PX43A-F2.. Output flange
Flangia uscita



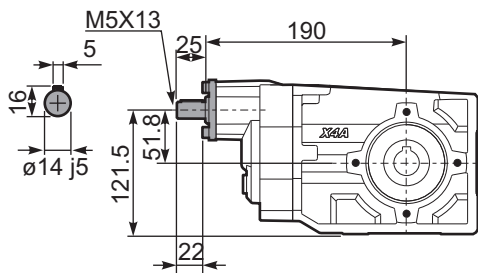
PX43A-F3.. Output flange
Flangia uscita



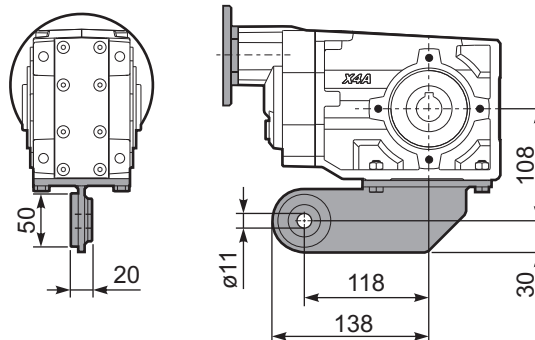
PX43A-F4.. Output flange
Flangia uscita



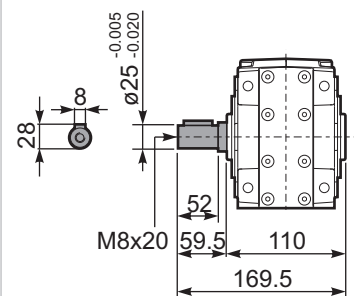
RX43A... Input shaft
Albero in entrata



PX43A-BR.. Reaction Arm
Braccio di reazione



PX43A..A.. Single shaft
Albero lento semplice





▪ **QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.96** for all ratios **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		
							71	80	90	100 112	80	90	100 112		
232.3	6.03	3	116.4	1.2	3.42	135	B							3011	-
151.1	9.26	3	178.8	0.9	2.56	155	B							308	
123.2	11.36	3	219.3	1.0	3.09	230	B							2011	
91.2	15.36	2.2	218.3	1.1	2.49	250	B							1611	
80.2	17.46	2.2	248.1	1.0	2.19	250	B							208	standard
70.1	19.97	2.2	283.9	0.9	1.91	250	B							1311	ø30
59.3	23.60	1.5	231.2	1.1	1.62	250	B							168	
57.3	24.45	1.5	239.5	1.0	1.56	250	B							1111	
45.6	30.69	1.1	219.6	1.1	1.24	250	B							138	ø35
39.6	35.35	1.1	252.9	1.0	1.08	250	B							811	On request
37.3	37.57	1.1	268.8	0.9	1.02	250	B							118	
28.8	48.68	0.75	238.9	1.0	0.78	250	B							611	
25.8	54.33	0.75	266.6	0.9	0.70	250	B							88	
18.7	74.81	0.37	181.1	1.2	0.43	210	B							68	

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 **X52A** 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 **X52A** 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 **X52A** 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 **X52A** 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
___ LT	___ LT	___ LT	___ LT	___ LT	___ LT	___ LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		
Oil plugs on request / Tappi olio a richiesta.						tab. 1

▪ RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita			
	n_2 [min ⁻¹]	FA [N]	FR [N]
	250	600	3000
	150	700	3500
	100	800	4000
	75	820	4100
	50	960	4800
	25	1350	6750
	15	1660	8300
FR On request taper roller bearings to increase radial loads. A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.			
Input shaft albero in entrata			
	n_1 [min ⁻¹]	FA [N]	FR [N]
	1400	400	2000
	900	440	2200
	600	440	2200
*Strong axial loads in the DX direction are not allowed. Non sono consentiti forti carichi assiali con direzione DX			

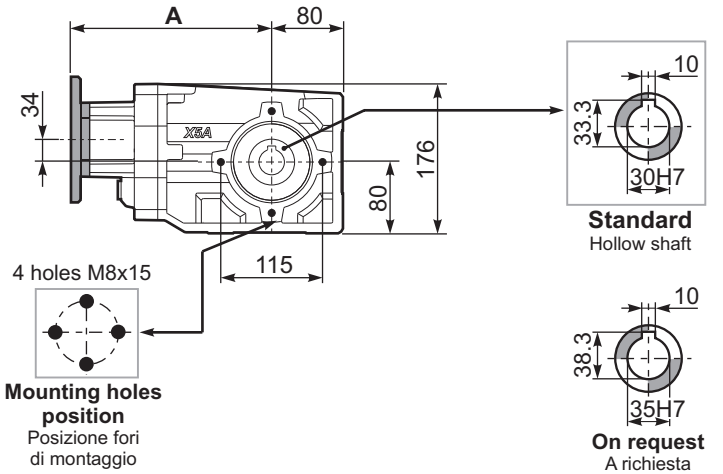
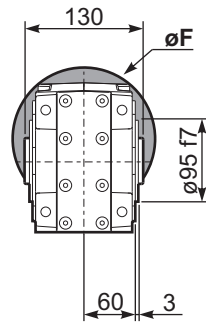
tab. 2

▪ **SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.**
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

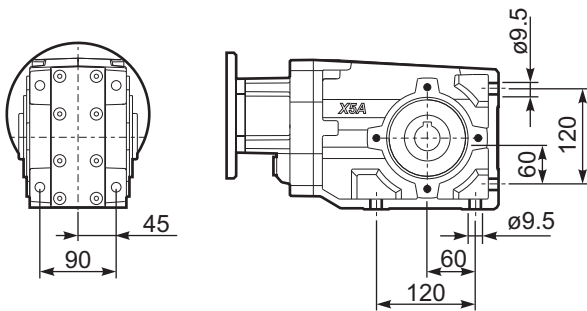
PX52A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

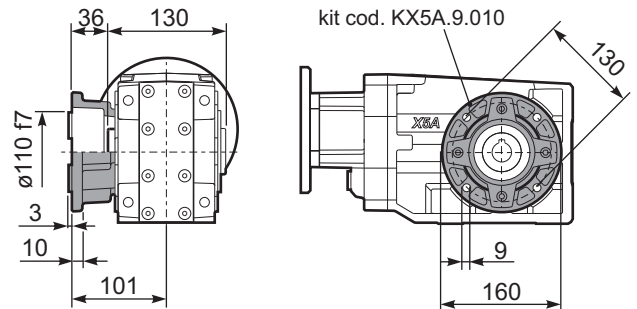
M. flanges	Kit code	øF	A
71B5	K023.4.041	160	234
80/90B5	K023.4.042	200	236
100/112B5	K023.4.043	250	242
80B14	K085.4.046	120	234
90B14	K085.4.045	140	234
100/112B14	K085.4.047	160	245



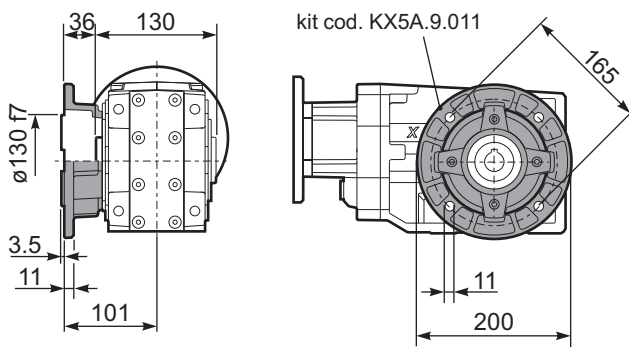
PX52A-N.. Feet
Piedini



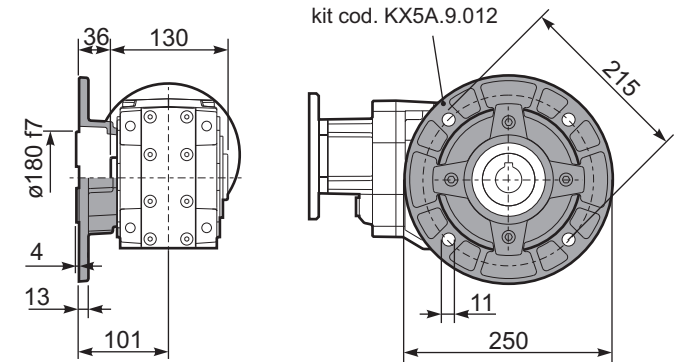
PX52A-F2.. Output flange
Flangia uscita



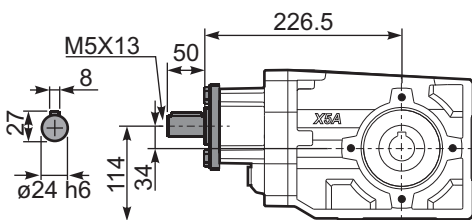
PX52A-F3.. Output flange
Flangia uscita



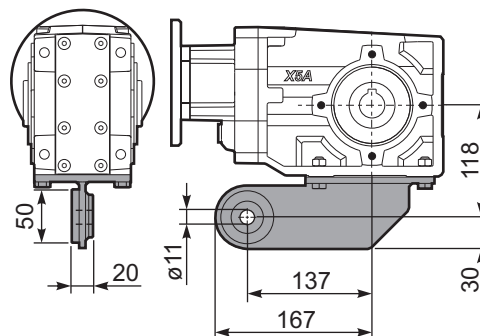
PX52A-F4.. Output flange
Flangia uscita



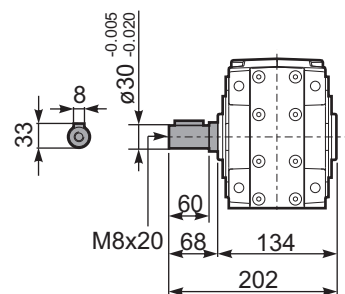
RX52A... Input shaft
Albero in entrata

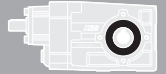


PX52A-BR.. Reaction Arm
Braccio di reazione



PX52A..A.. Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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		
24.7	56.76	0.55	201.4	1.2	0.67	250	B				C	C		191311	-
21.3	65.79	0.55	233.4	1.1	0.58	250	B				C	C		171311	
18.1	77.23	0.55	274.0	0.9	0.49	250	B				C	C		151311	
16.0	87.23	0.37	206.9	1.2	0.44	250	B				C	C		19138	
15.2	92.18	0.37	218.6	1.1	0.41	250	B				C	C		131311	
13.9	100.47	0.37	238.3	1.0	0.38	250	B				C	C		19811	
12.0	116.45	0.37	276.2	0.9	0.33	250	B				C	C		17811	standard ø30
11.1	125.82	0.25	201.3	1.2	0.30	250	B				C	C		101311	
9.9	141.66	0.25	226.7	1.1	0.27	250	B				C	C		13138	
8.6	163.16	0.25	261.1	1.0	0.23	250	B				C	C		13811	ø35
7.8	178.96	0.18	219.0	1.1	0.21	250	B				C	C		1788	On request
7.2	193.36	0.18	236.6	1.1	0.20	250	B				C	C		10138	
6.5	216.84	0.18	265.3	0.9	0.18	250	B				C	C		71311	
5.5	252.36	0.12	199.5	1.3	0.15	250	B				C	C		9138	
4.8	290.67	0.12	229.8	1.1	0.13	250	B				C	C		9811	
4.2	333.23	0.09	210.1	1.2	0.11	250	B				C	C		7138	
3.6	383.82	0.09	242.0	1.0	0.10	250	B				C	C		7811	
3.1	446.70	0.09	281.7	0.9	0.09	250	B				C	C		988	
2.4	589.85	0.06	244.3	1.0	0.06	250	B				C	C		788	

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 **X53A** 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 **X53A** 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 **X53A** 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.

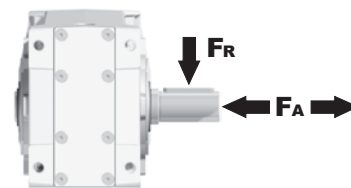
E El reductor tamaño **X53A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar 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
LT	LT	LT	LT	LT	LT	LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta. **tab. 1**

• RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

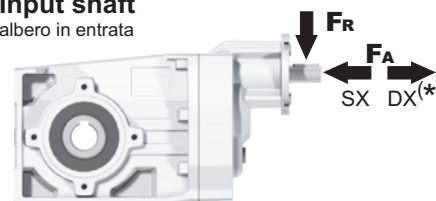


n ₂ [min ⁻¹]	FA [N]	FR [N]
250	600	3000
150	700	3500
100	800	4000
75	820	4100
50	960	4800
25	1350	6750
15	1660	8300

FR

On request taper roller bearings to increase radial loads.
A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.

Input shaft
albero in entrata



n ₁ [min ⁻¹]	FA [N]	FR [N]
1400	400	2000
900	440	2200
600	440	2200

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

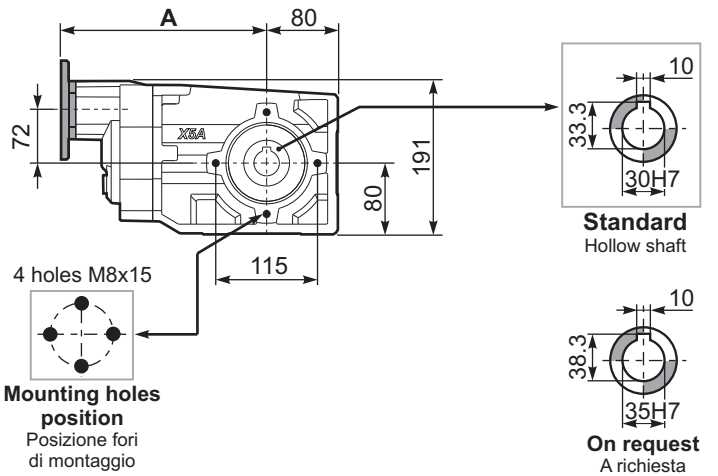
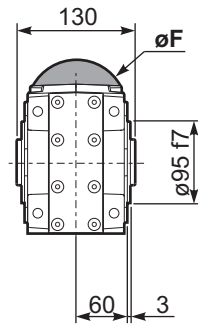
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

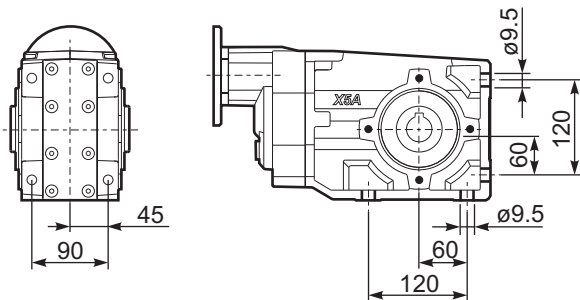
PX53A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

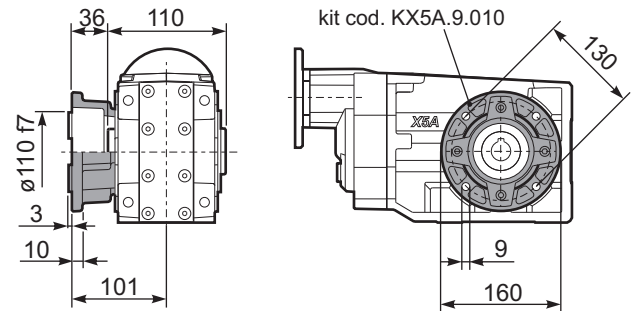
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	246
71B5	K063.4.042	160	244
80/90B5	K063.4.043	200	246
71B14	K063.4.047	105	244
80B14	K063.4.046	120	245
90B14	K063.4.041	140	246



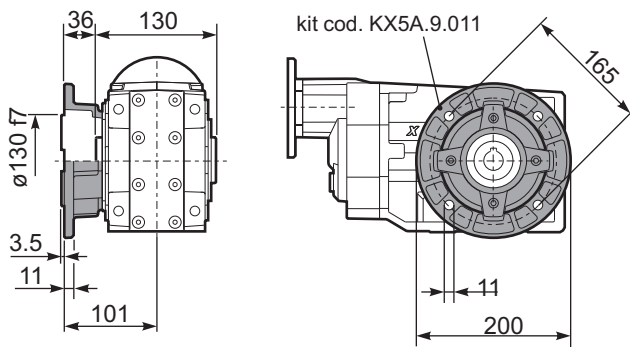
PX53A-N... Feet
Piedini



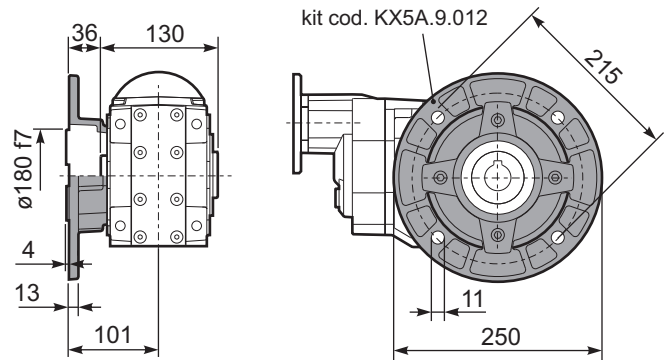
PX53A-F2... Output flange
Flangia uscita



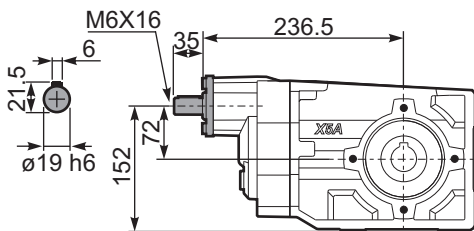
PX53A-F3... Output flange
Flangia uscita



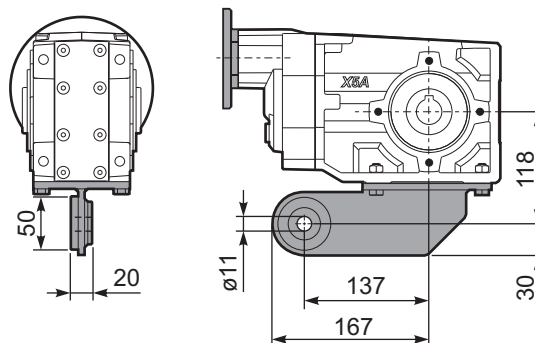
PX53A-F4... Output flange
Flangia uscita



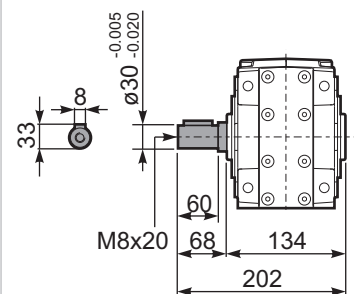
RX53A... Input shaft
Albero in entrata

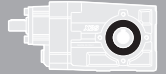


PX53A-BR... Reaction Arm
Braccio di reazione



PX53A..A... Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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			
232.3	6.03	5.5	211.3	1.1	6.08	410	B									3011	-
151.1	9.26	4	237.5	1.1	4.45	410	B									308	
123.2	11.36	4	291.3	1.2	4.71	410	B									2011	
91.2	15.36	4	393.8	1.0	3.83	410	B									1611	
80.2	17.46	4	447.6	0.9	3.50	410	B									208	standard
70.1	19.97	3	385.5	1.1	3.13	410	B									1311	ø35
59.3	23.60	3	455.6	0.9	2.65	410	B									168	
57.3	24.45	3	471.9	0.9	2.56	410	B									1111	
45.6	30.69	2.2	436.3	0.9	2.04	410	B									138	ø40
39.6	35.35	1.5	346.3	1.2	1.77	410	B									811	On request
37.3	37.57	1.5	368.0	1.1	1.67	410	B									118	
28.8	48.68	1.1	348.3	1.0	1.15	410	B									611	
25.8	54.33	1.1	388.7	1.1	1.15	410	B									88	
18.7	74.81	0.75	367.2	1.0	0.73	410	B									68	

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 **X62A** 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 **X62A** 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 **X62A** 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 **X62A** 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
___ LT	___ LT	___ LT	___ LT	___ LT	___ LT	___ LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		
Oil plugs on request / Tappi olio a richiesta.						tab. 1

Output shaft Albero di uscita			
	n_2 [min ⁻¹]	F_A [N]	F_R [N]
	250	600	3000
	150	700	3500
	100	780	3900
	75	890	4450
	50	1140	5700
	25	1330	6650
	15	1660	8300

FR
On request taper roller bearings to increase radial loads.
A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.

Input shaft albero in entrata			
	n_1 [min ⁻¹]	F_A [N]	F_R [N]
	1400	450	2250
	900	500	2500
	600	600	3000

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

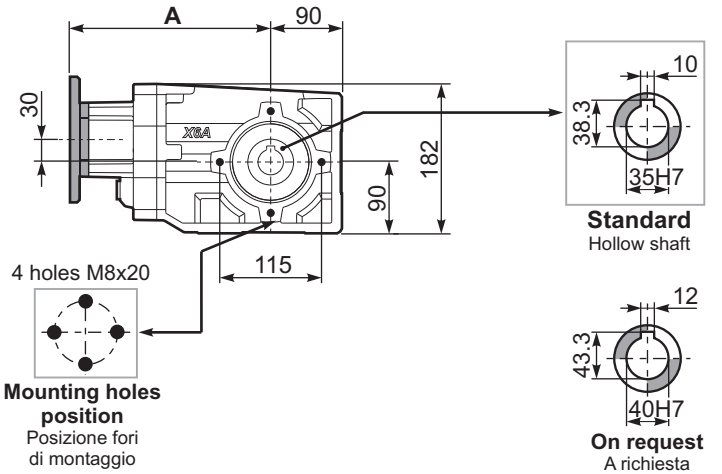
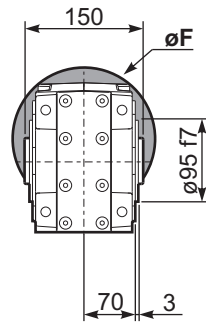
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

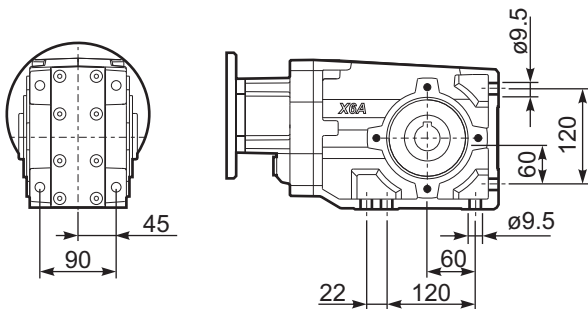
PX62A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

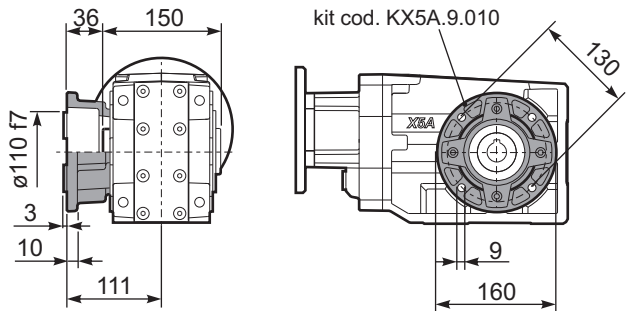
M. flanges	Kit code	øF	A
71B5	K023.4.041	160	253
80/90B5	K023.4.042	200	255
100/112B5	K023.4.043	250	261
80B14	K085.4.046	120	253
90B14	K085.4.045	140	253
100/112B14	K085.4.047	160	264
132B14	KC50.4.041	200	282.5



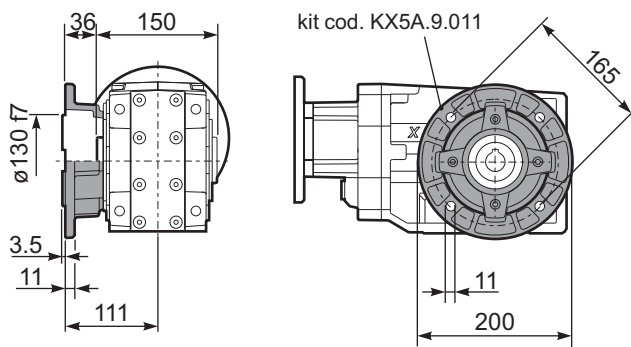
PX62A-N.. Feet
Piedini



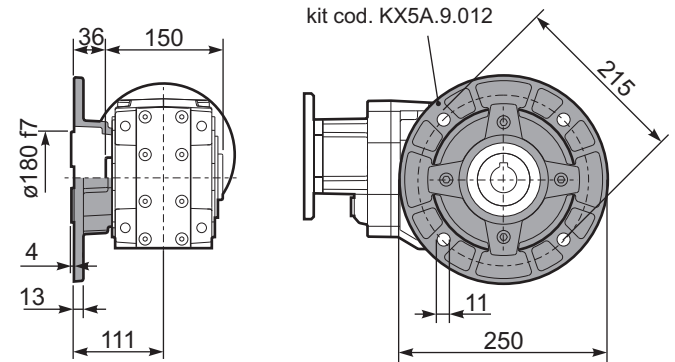
PX62A-F2.. Output flange
Flangia uscita



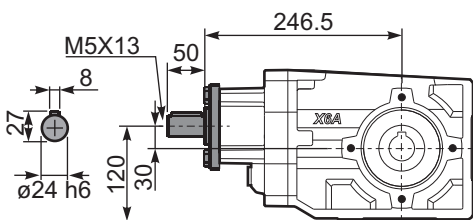
PX62A-F3.. Output flange
Flangia uscita



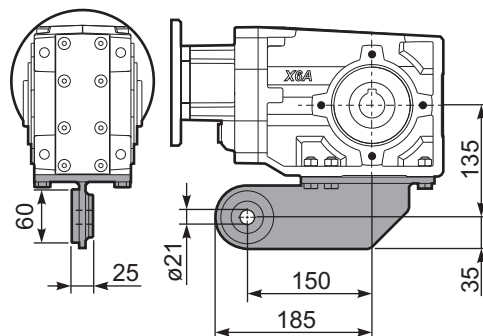
PX62A-F4.. Output flange
Flangia uscita



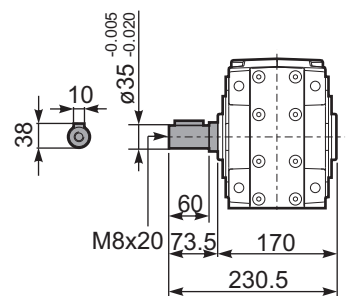
RX62A... Input shaft
Albero in entrata

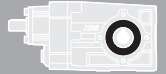


PX62A-BR.. Reaction Arm
Braccio di reazione



PX62A..A.. Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **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		
24.7	56.76	1.1	398.0	1.0	1.10	410	B				C	C		standard ø35 ø40 On request	-
21.3	65.79	0.75	316.4	1.3	0.95	410	B				C	C			
18.1	77.23	0.75	371.4	1.1	0.81	410	B				C	C			
16.0	87.23	0.75	419.5	1.0	0.72	410	B				C	C			
15.2	92.18	0.75	443.3	0.9	0.68	410	B				C	C			
13.9	100.47	0.55	356.5	1.2	0.62	410	B				C	C			
12.0	116.45	0.55	413.2	1.0	0.54	410	B				C	C			
11.1	125.82	0.55	446.5	0.9	0.50	410	B				C	C			
9.9	141.66	0.37	336.0	1.2	0.44	410	B				C	C			
8.6	163.16	0.37	387.0	1.1	0.38	410	B				C	C			
7.8	178.96	0.37	424.5	1.0	0.35	410	B				C	C			
7.2	193.36	0.37	458.6	0.9	0.32	410	B				C	C			
6.5	216.84	0.25	346.9	1.2	0.29	410	B				C	C			
5.5	252.36	0.25	403.8	1.0	0.25	410	B				C	C			
4.8	290.67	0.25	465.1	0.9	0.22	410	B				C	C			
4.2	333.23	0.18	407.7	1.0	0.19	410	B				C	C			
3.6	383.82	0.18	469.6	0.9	0.16	410	B				C	C			
3.1	446.70	0.12	353.2	1.2	0.14	410	B				C	C			
2.4	589.85	0.09	372.0	1.1	0.11	410	B				C	C			

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 **X63A** 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 **X63A** 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 **X63A** 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 **X63A** 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.

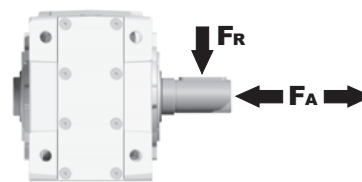
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
LT	LT	LT	LT	LT	LT	LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

Oil plugs on request / Tappi olio a richiesta.

tab. 1

RADIAL AND AXIAL LOADS

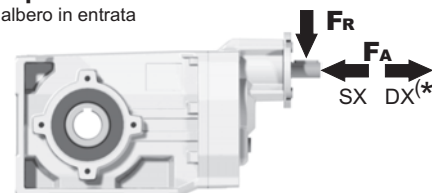
Output shaft
Albero di uscita



n ₂ [min ⁻¹]	FA [N]	FR [N]
250	600	3000
150	700	3500
100	780	3900
75	890	4450
50	1140	5700
25	1330	6650
15	1660	8300

FR
On request taper roller bearings to increase radial loads.
A richiesta cuscinetti a rulli conici per aumentare i carichi radiali.

Input shaft
albero in entrata



n ₁ [min ⁻¹]	FA [N]	FR [N]
1400	400	2000
900	440	2200
600	440	2200

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

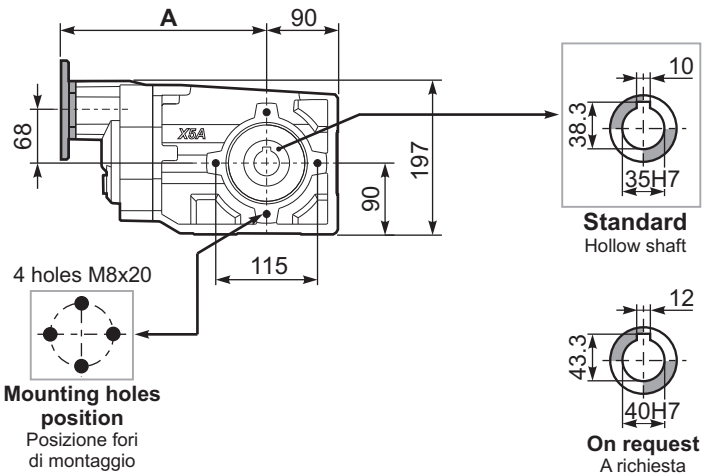
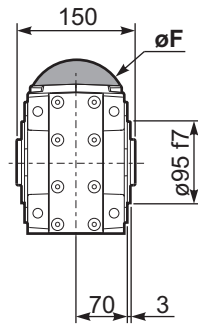
tab. 2

SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.

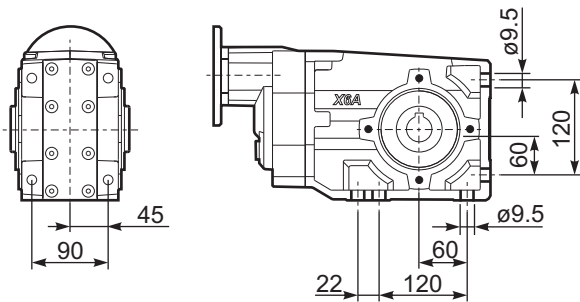
PX63A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **... kg**

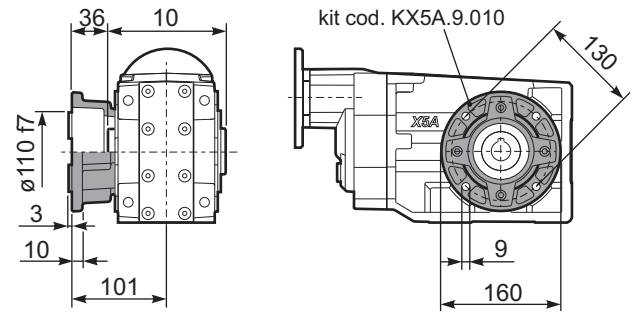
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	265
71B5	K063.4.042	160	263
80/90B5	K063.4.043	200	265
71B14	K063.4.047	105	263
80B14	K063.4.046	120	264
90B14	K063.4.041	140	265



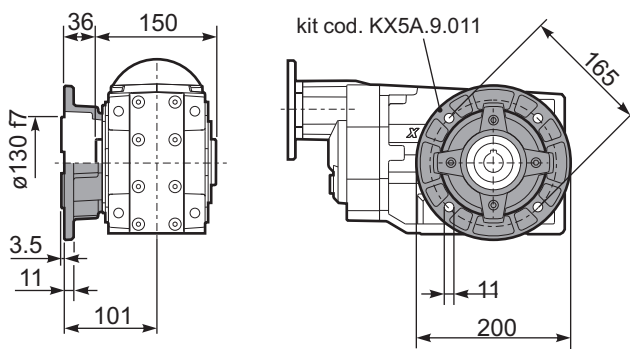
PX63A-N... Feet
Piedini



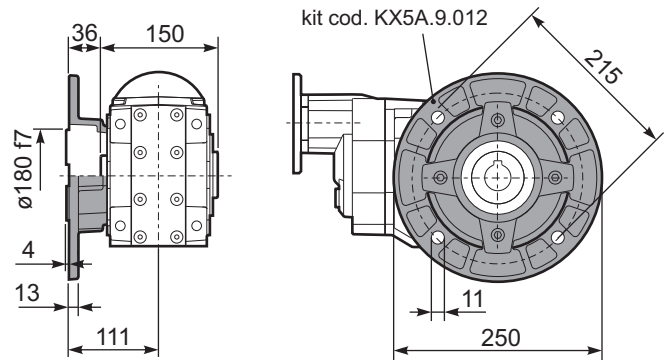
PX63A-F2... Output flange
Flangia uscita



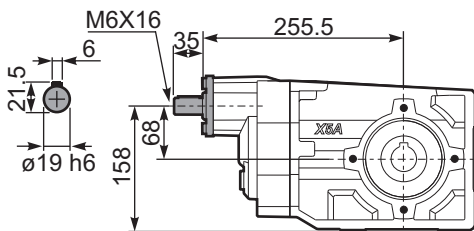
PX63A-F3... Output flange
Flangia uscita



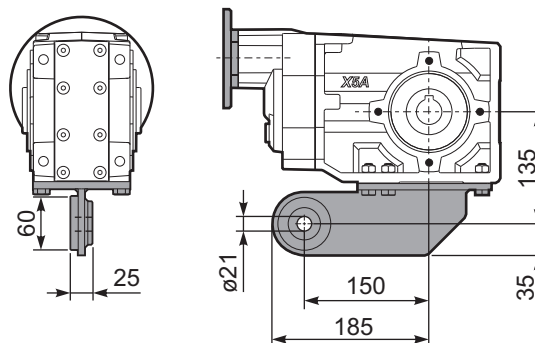
PX63A-F4... Output flange
Flangia uscita



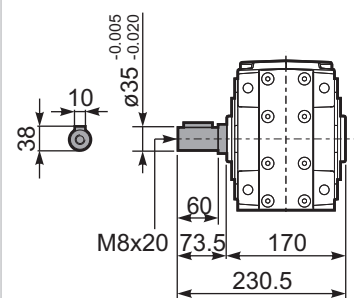
RX63A... Input shaft
Albero in entrata



PX63A-BR... Reaction Arm
Braccio di reazione

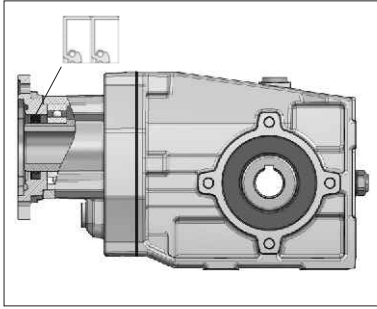


PX63A..A... Single shaft
Albero lento semplice



ACCESSORIES AND OPTIONS / ACCESSORI E VARIANTI

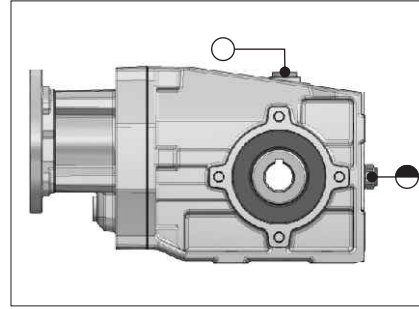
AC



	Type
X22S	25x40x7
X32S	35x47x7
X33S	25x40x7
X42A	35x47x7
X43A	25x40x7

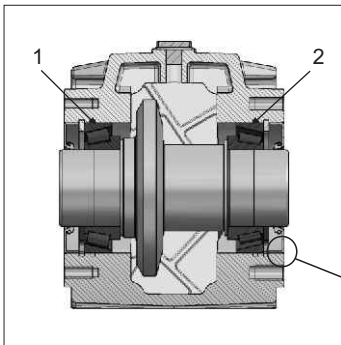
Double input seal.
Doppio anello di tenuta in entrata.

AD

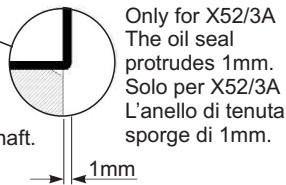


Gearbox lubricated with mineral oil and breather plug.
Riduttore lubrificato con olio minerale e tappo di sfiato.

AH

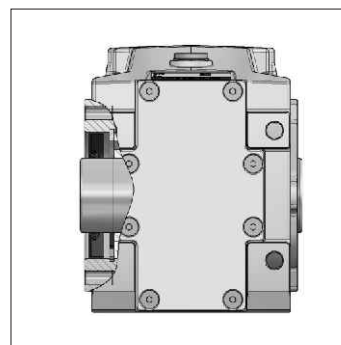


	1	2
X22S	32006X	32006X
X32/3S	32008X	32008X
X42/3A	32009X	32009X
X52/3A	32010X	32010X
X62/3A	32011X	32011X



Taper roller bearings on the output shaft.
Cuscinetti conici sull'albero di uscita.

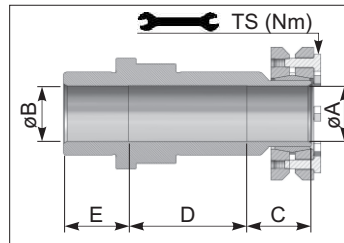
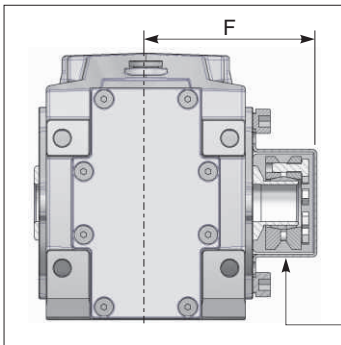
AE



	Type
X22S	30x55x7
X32/3S	40x68x7
X42/3A	45x75x8
X52/3A	50x80x8
X62/3A	55x90x8

Output shaft Viton oil seals.
Anelli di tenuta uscita in Viton.

AK

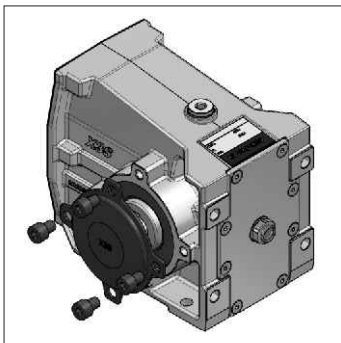


	øA H7	øB H7	C	D	E	F	TS Nm
X22S	20	20.05	20	80	20	82	6
X32/3S	20	20.05	20	102	20	92	6
X42/3A	30	30.05	35	64.5	35	90	14.5
X52/3A	35	35.05	40	77	40	105	14.5
X62/3A	40	40.05	45	88.5	45	115	14.5

The mounting is possible only on the right side.
Il montaggio è possibile solo sul lato destro.

Dimensions and tightening torque (TS) for the shrink disc.
Dimensioni e coppia serraggio vite per calettatore.

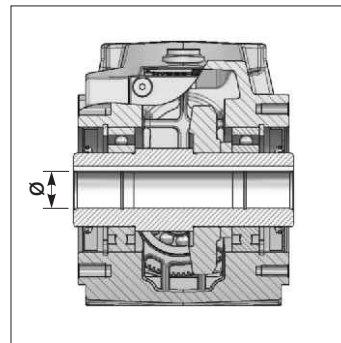
AP



	Kit code
X22S	KX2S.0.209
X32/3S	KX3S.0.209
X42/3A	KX4A.0.209
X52/3A	KX5A.0.209
X62/3A	

Protection cup.
Tappo di protezione.

AR



	ø H7
X22S	ø20
X32/3S	ø20
X42/3A	ø25
X52/3A	ø30
X62/3A	ø35

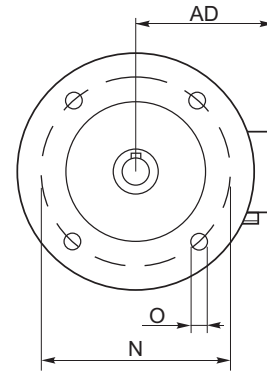
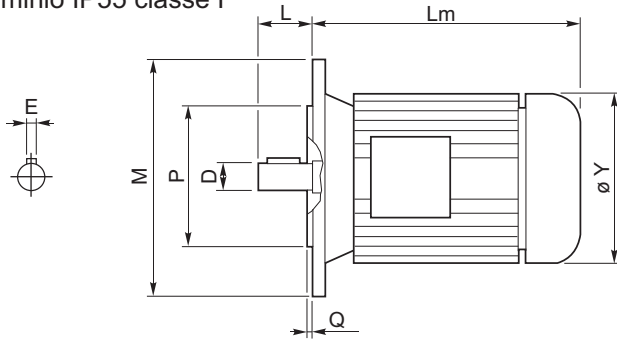
Stainless steel hub only on request for quantity.
Mozzo in acciaio inox a richiesta per quantità.

Aluminum IEC motors

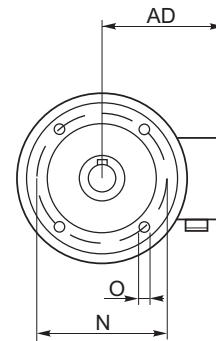
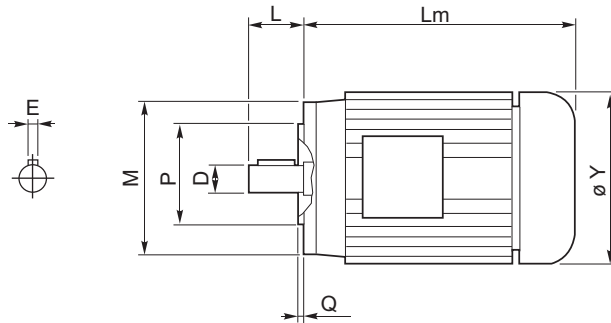
Aluminum motor IP55 class F

Motori solo in alluminio IP55 classe F

B5



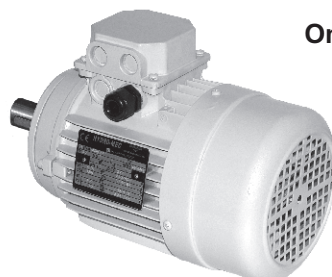
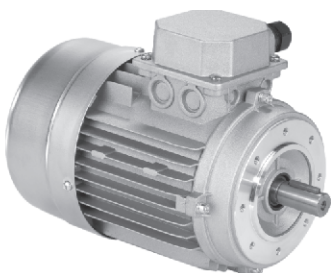
B14



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

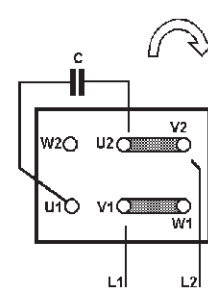
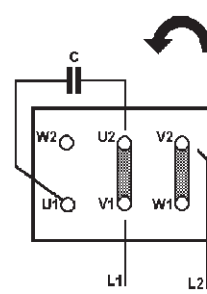
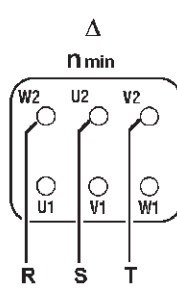
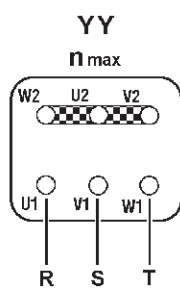
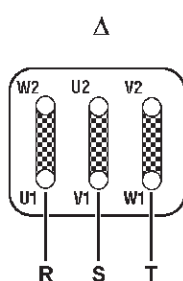
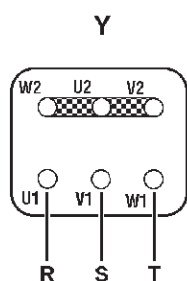
Verbindungselemente

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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Square worm gearboxes
Rid. a vite senza fine quadro



Square worm gearboxes
Rid. a vite senza fine quadro



Stainless steel worm gearboxes
Rid. a vite senza fine Inox



Stainless steel coaxial gearboxes
Riduttori coassiali Inox



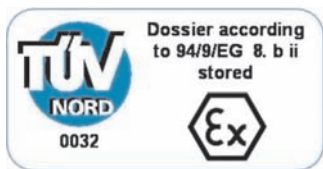
One step gearboxes
Riduttori ad uno stadio



Coaxial gearboxes
Riduttori coassiali



Shaft mounted gearboxes
Rid. ad assi paralleli



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* CT- BVM- X- HM10*

