

# Angletech

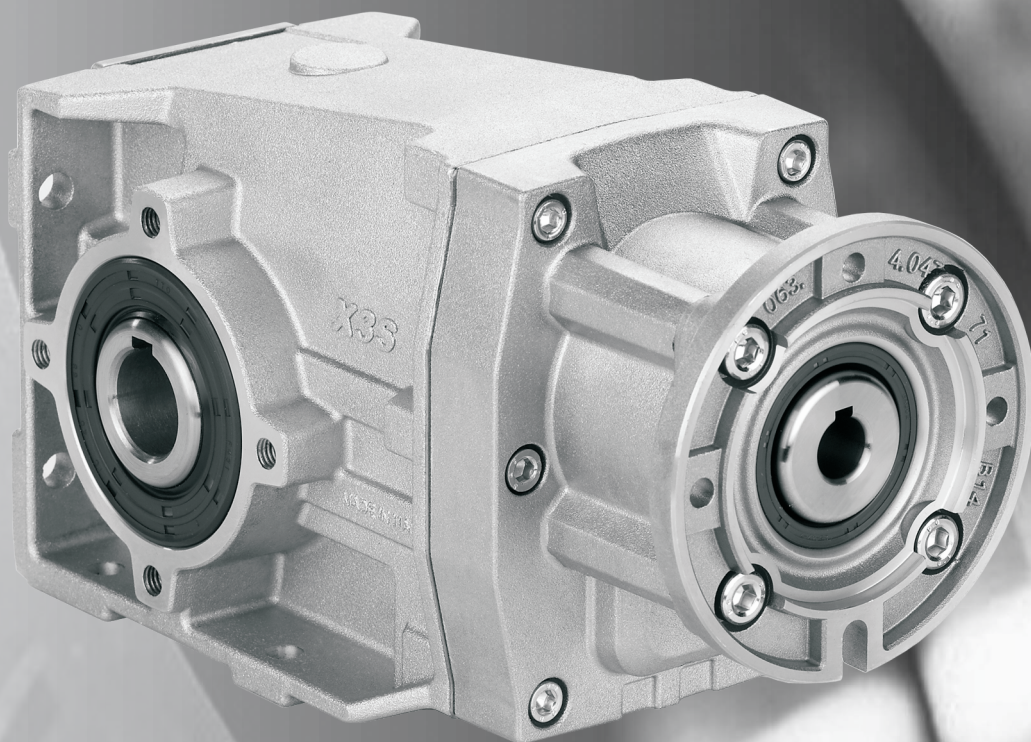
# Gears

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

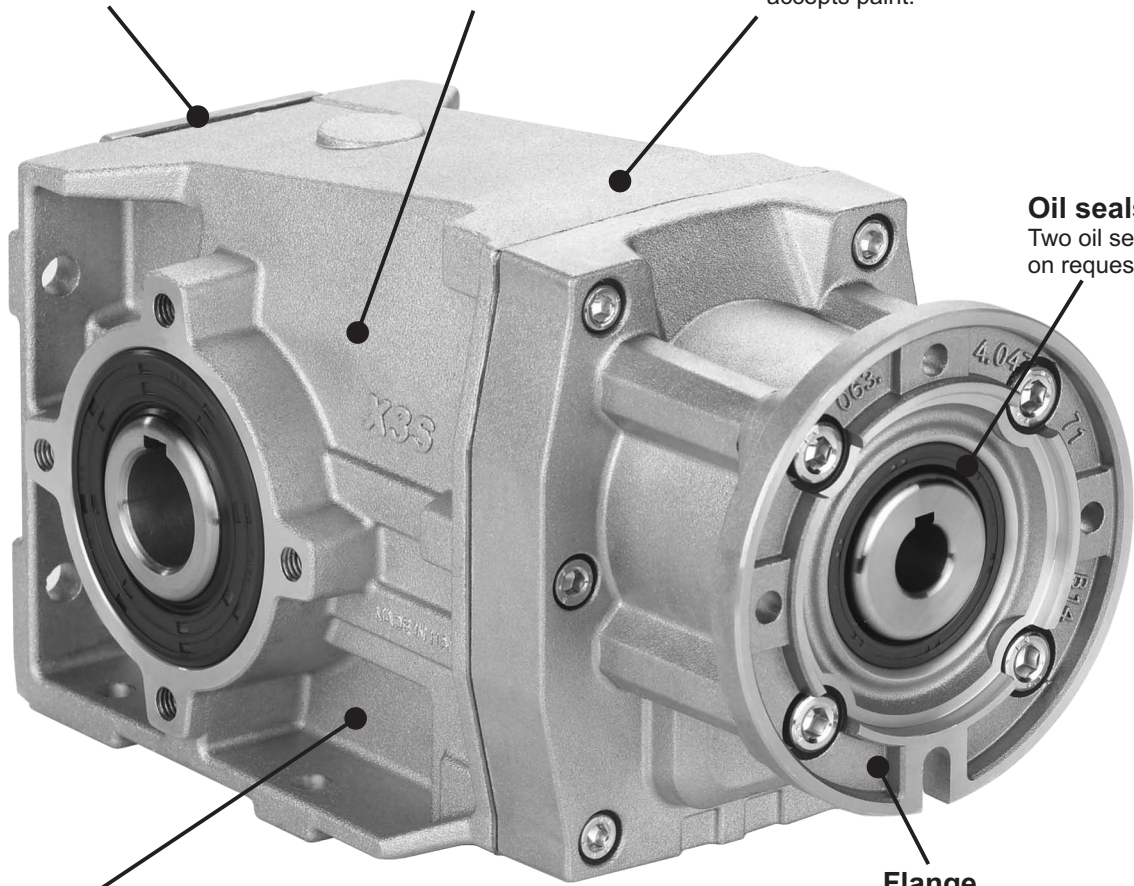
Hardened and ground gears

## 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

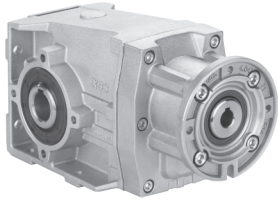
Fully modular to IEC and Compact integrated motor. NEMA C flange

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



**World wide sales network.**

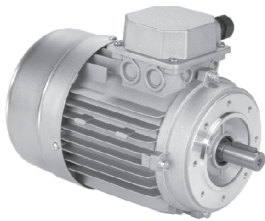
On page / A pagina / Auf Seite / En la página



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	160M 160L	180M 180L	

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

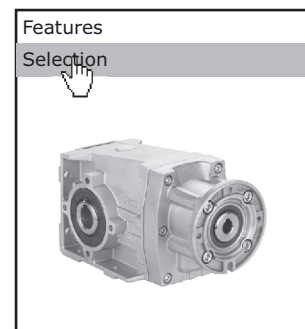
**Download 3D drawings**  
Download disegni 3D

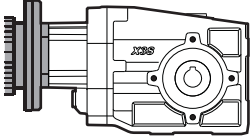
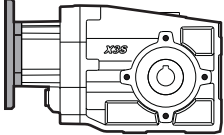
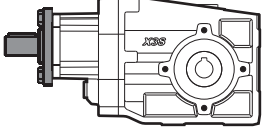
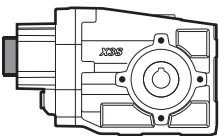
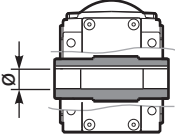
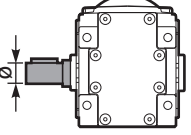
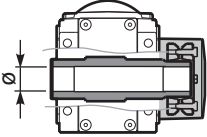
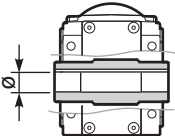
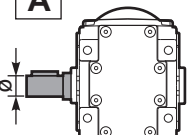
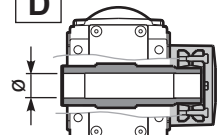
**Interchangeability**  
Intercambiabilità

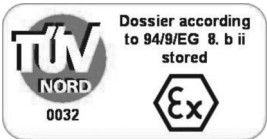
**Installation and maintenance**  
Installazione, uso e manutenzione

**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
<b>M</b>	<b>X22S</b>	<b>C</b>	<b>4.83</b>	<b>A</b>
<p>Helical-bevel gear Riduttori ortogonali</p>  <p>With IEC motor <b>M</b></p>  <p>With motor flange <b>P</b></p>  <p>With male input shaft <b>R</b></p>  <p>Modular base <b>B</b></p>	<p>2 Stages Riduzioni Stufen Etapas</p> <p>3 Stages Riduzioni Stufen Etapas</p> <p><b>Aluminum</b> <b>Alluminio</b> <b>Aluminium</b> <b>Aluminio</b></p> <p><b>X22S</b> <b>X32S</b> <b>X42A</b> <b>X52A</b> <b>X62A</b></p> <p><b>X33S</b> <b>X43A</b> <b>X53A</b> <b>X63A</b></p>	<p>Hollow output shaft <b>C</b></p>  <p>Single output shaft <b>A</b></p>  <p>Shrink Disk (only on the DX side) <b>D</b></p> <p>Only on request for Q.ty A richiesta per quantità</p>  <p>Stainless steel hub <b>I</b></p>  <p>Stainless steel hub <b>Mozzo in acciaio Inox</b> <b>Edelstahlhohlwelle</b> <b>Nucleo corona de</b> <b>acero Inox</b></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>➔ <b>STANDARD</b></p> <p>X22S <b>A</b> ⇨ <math>\varnothing 18</math> <b>B</b> ➔ <math>\varnothing 20</math></p> <p>X32S X33S <b>B</b> ➔ <math>\varnothing 20</math> <b>C</b> ⇨ <math>\varnothing 25</math></p> <p>X42A X43A <b>C</b> ➔ <math>\varnothing 25</math> <b>D</b> ⇨ <math>\varnothing 30</math></p> <p>X52A X53A <b>D</b> ➔ <math>\varnothing 30</math> <b>E</b> ⇨ <math>\varnothing 35</math></p> <p>X62A X63A <b>E</b> ➔ <math>\varnothing 35</math> <b>F</b> ⇨ <math>\varnothing 40</math></p> <p><b>A</b></p>  <p>Single output shaft</p> <p><b>I</b> X22S X32/3S ⇨ <math>\varnothing 20</math> <b>L</b> X32/3S ⇨ <math>\varnothing 25</math> X42/3A <b>M</b> X52/3A ⇨ <math>\varnothing 30</math> <b>N</b> X62/3A ⇨ <math>\varnothing 35</math></p> <p><b>D</b></p>  <p>Shrink Disk</p> <p><b>U</b> X22S X32/3S ⇨ <math>\varnothing 20</math> <b>Q</b> X42/3A ⇨ <math>\varnothing 30</math> <b>R</b> X52/3A ⇨ <math>\varnothing 35</math> <b>S</b> X62/3A ⇨ <math>\varnothing 40</math></p>

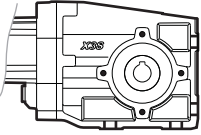
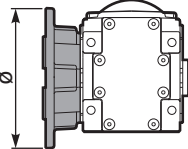

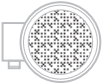
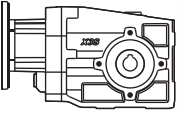
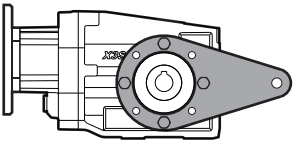

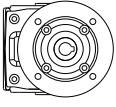
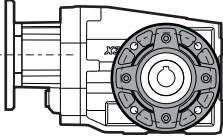

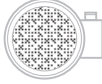
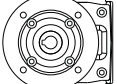


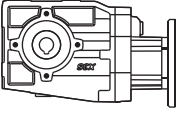
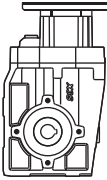
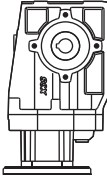
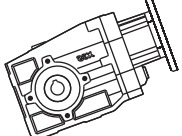


A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

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.

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>BR</b>	<b>N</b>	<b>O</b>	<b>B</b>	<b>B3</b>																
 <p><b>FB</b> Forma base Universal</p>		<p>Standard motor flange Flangia motore standard</p> 		 <p><b>B3</b> STANDARD</p>																
 <p><b>BR</b> Braccio d reazione Reaction arm</p>	<p><b>N</b> Senza flangia Without flange</p> <p>X22S</p> <p><b>0</b> ⇨ Ø110 <b>1</b> ⇨ Ø120</p> <p>X32S X33S</p> <p><b>1</b> ⇨ Ø120 <b>2</b> ⇨ Ø160</p> <p>X42A X43A</p>	<table border="1"> <thead> <tr> <th data-bbox="683 490 852 524">B5</th> <th data-bbox="863 490 1032 524">B14</th> </tr> </thead> <tbody> <tr> <td data-bbox="683 530 852 598"><b>A</b>=56 (Ø120)</td> <td data-bbox="863 530 1032 598"><b>O</b>=56 (Ø80)</td> </tr> <tr> <td data-bbox="683 598 852 665"><b>B</b>=63 (Ø140)</td> <td data-bbox="863 598 1032 665"><b>P</b>=63 (Ø90)</td> </tr> <tr> <td data-bbox="683 665 852 732"><b>C</b>=71 (Ø160)</td> <td data-bbox="863 665 1032 732"><b>Q</b>=71 (Ø105)</td> </tr> <tr> <td data-bbox="683 732 852 799"><b>D</b>=80 (Ø200)</td> <td data-bbox="863 732 1032 799"><b>R</b>=80 (Ø120)</td> </tr> <tr> <td data-bbox="683 799 852 866"><b>E</b>=90 (Ø200)</td> <td data-bbox="863 799 1032 866"><b>T</b>=90 (Ø140)</td> </tr> <tr> <td data-bbox="683 866 852 934"><b>F</b>=100+112 (Ø250)</td> <td data-bbox="863 866 1032 934"><b>U</b>=100+112 (Ø160)</td> </tr> <tr> <td></td> <td data-bbox="863 934 1032 987"><b>V</b>=132 (Ø200)</td> </tr> </tbody> </table>	B5	B14	<b>A</b> =56 (Ø120)	<b>O</b> =56 (Ø80)	<b>B</b> =63 (Ø140)	<b>P</b> =63 (Ø90)	<b>C</b> =71 (Ø160)	<b>Q</b> =71 (Ø105)	<b>D</b> =80 (Ø200)	<b>R</b> =80 (Ø120)	<b>E</b> =90 (Ø200)	<b>T</b> =90 (Ø140)	<b>F</b> =100+112 (Ø250)	<b>U</b> =100+112 (Ø160)		<b>V</b> =132 (Ø200)	 <p><b>B</b> STANDARD</p>	 <p><b>B6</b></p>
B5	B14																			
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 <p><b>- F</b> Flangia uscita output flange</p>	<p><b>2</b> ⇨ Ø160 <b>3</b> ⇨ Ø200 <b>4</b> ⇨ Ø250</p> <p>X52A X53A X62A X63A</p> <p><b>2</b> ⇨ Ø160 <b>3</b> ⇨ Ø200 <b>4</b> ⇨ Ø250</p>	<p>Input shaft type R / Tipo R</p>  <table border="1"> <thead> <tr> <th data-bbox="683 1117 852 1173">X22S X33S X43A</th> <th data-bbox="863 1117 1032 1173">X32S X42A X53A X63A</th> </tr> </thead> <tbody> <tr> <td data-bbox="683 1173 852 1229"><b>1</b> ⇨ Ø14</td> <td data-bbox="863 1173 1032 1229"><b>2</b> ⇨ Ø19</td> </tr> <tr> <td data-bbox="683 1229 852 1285">X52A X62A</td> <td></td> </tr> <tr> <td data-bbox="683 1285 852 1335"><b>3</b> ⇨ Ø24</td> <td></td> </tr> </tbody> </table>	X22S X33S X43A	X32S X42A X53A X63A	<b>1</b> ⇨ Ø14	<b>2</b> ⇨ Ø19	X52A X62A		<b>3</b> ⇨ Ø24		 <p><b>C</b></p>	 <p><b>B7</b></p>								
X22S X33S X43A	X32S X42A X53A X63A																			
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<b>3</b> ⇨ Ø24																				
		<p>Input model base bore Foro entrata standard</p>  <table border="1"> <thead> <tr> <th data-bbox="683 1435 852 1491">X22S X33S X43A</th> <th data-bbox="863 1435 1032 1491">X32S X42A X53A X63A</th> </tr> </thead> <tbody> <tr> <td data-bbox="683 1491 852 1547"><b>Z</b> ⇨ Ø9 (56B5)</td> <td data-bbox="863 1491 1032 1547"><b>1</b> ⇨ Ø14 (71B5)</td> </tr> <tr> <td data-bbox="683 1547 852 1603"><b>0</b> ⇨ Ø11 (63B5)</td> <td data-bbox="863 1547 1032 1603"><b>2</b> ⇨ Ø19 (80B5)</td> </tr> <tr> <td data-bbox="683 1603 852 1659"><b>1</b> ⇨ Ø14 (71B5)</td> <td data-bbox="863 1603 1032 1659"><b>3</b> ⇨ Ø24 (90B5)</td> </tr> <tr> <td data-bbox="683 1659 852 1715">X52A X62A</td> <td></td> </tr> <tr> <td data-bbox="683 1715 852 1771"><b>2</b> ⇨ Ø19 (80B5)</td> <td></td> </tr> <tr> <td data-bbox="683 1771 852 1827"><b>3</b> ⇨ Ø24 (90B5)</td> <td></td> </tr> <tr> <td data-bbox="683 1827 852 1850"><b>4</b> ⇨ Ø28 (100B5)</td> <td data-bbox="863 1794 1032 1850"><b>STANDARD</b></td> </tr> </tbody> </table>	X22S X33S X43A	X32S X42A X53A X63A	<b>Z</b> ⇨ Ø9 (56B5)	<b>1</b> ⇨ Ø14 (71B5)	<b>0</b> ⇨ Ø11 (63B5)	<b>2</b> ⇨ Ø19 (80B5)	<b>1</b> ⇨ Ø14 (71B5)	<b>3</b> ⇨ Ø24 (90B5)	X52A X62A		<b>2</b> ⇨ Ø19 (80B5)		<b>3</b> ⇨ Ø24 (90B5)		<b>4</b> ⇨ Ø28 (100B5)	<b>STANDARD</b>	 <p><b>D</b></p>	 <p><b>B8</b></p>
X22S X33S X43A	X32S X42A X53A X63A																			
<b>Z</b> ⇨ Ø9 (56B5)	<b>1</b> ⇨ Ø14 (71B5)																			
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<b>4</b> ⇨ Ø28 (100B5)	<b>STANDARD</b>																			
				 <p><b>V5</b></p>																
				 <p><b>V6</b></p>																
				 <p><b>V8</b></p>																
				<p>Specify only for vertical positions</p> <p>Specificare solo per posizione verticale</p>																

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

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

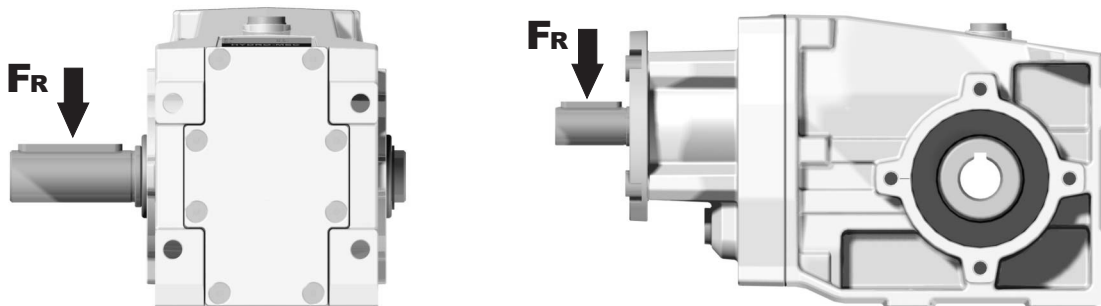
TORQUE / COPPIA / DREHMOMENT / PAR

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

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

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



	$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$	$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$
<b>M</b>	Momento torcente / Output torque / Abtriebsdrehmoment / Par torsion	
<b>d</b>	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diámetro primitivo	
<b>f<sub>k</sub></b>	Coefficiente di trasformazione / Factor / Faktor / Coefficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engranaje 1.25 Catena / Chain sprochets / 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 ca

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

# 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<sup>-1</sup>

Output Speed $n_2$ [min <sup>-1</sup> ]	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		
289.7	<b>4.83</b>	0.37	11.7	2.6	<b>0.95</b>	<b>30</b>	63	71	C	C		289	-
189.2	<b>7.40</b>	0.37	17.9	1.7	<b>0.62</b>	<b>30</b>			C	C		287	
146.2	<b>9.58</b>	0.37	23.2	1.7	<b>0.64</b>	<b>40</b>			C	C		199	
127.5	<b>10.98</b>	0.37	26.6	1.7	<b>0.63</b>	<b>45</b>			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

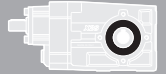
Output shaft diam.  
Diam. albero uscita  
Durchmesser abtriebswelle  
Diametro eje de salida

Notes  
Note  
Anmerkungen  
Notas

Type of load and starts per hour Tipo di carico e avviamenti per ora		Oper. hours per day Ore di funz. giorn.		
		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

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

<b>A</b>	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>B</b>	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
<b>C</b>	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
<b>D</b>	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 (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code 
							B	C	O	P	Q		
289.7	<b>4.83</b>	0.37	12	2.6	<b>0.95</b>	<b>30</b>			C	C		standard ø20	-
189.2	<b>7.40</b>	0.37	18	1.7	<b>0.62</b>	<b>30</b>			C	C			
146.2	<b>9.58</b>	0.37	23	1.7	<b>0.64</b>	<b>40</b>			C	C			
127.5	<b>10.98</b>	0.37	27	1.7	<b>0.63</b>	<b>45</b>			C	C			
107.1	<b>13.07</b>	0.37	32	1.4	<b>0.53</b>	<b>45</b>			C	C			
95.5	<b>14.66</b>	0.37	36	1.3	<b>0.47</b>	<b>45</b>			C	C			
88.6	<b>15.79</b>	0.37	38	1.2	<b>0.44</b>	<b>45</b>			C	C			
83.3	<b>16.81</b>	0.37	41	1.1	<b>0.41</b>	<b>45</b>			C	C			
70.0	<b>20.00</b>	0.37	48	1.0	<b>0.37</b>	<b>48</b>			C	C			
63.8	<b>21.93</b>	0.37	53	0.9	<b>0.35</b>	<b>50</b>			C	C			
57.9	<b>24.18</b>	0.25	40	1.3	<b>0.32</b>	<b>50</b>			C	C	ø18 On request		
48.2	<b>29.04</b>	0.25	47	1.1	<b>0.26</b>	<b>50</b>			C	C			
41.7	<b>33.57</b>	0.18	42	1.2	<b>0.23</b>	<b>50</b>			C	C			
36.2	<b>38.67</b>	0.18	48	1.0	<b>0.20</b>	<b>50</b>			C	C			
31.5	<b>44.44</b>	0.18	56	0.9	<b>0.17</b>	<b>50</b>			C	C			
23.7	<b>59.18</b>	0.12	48	1.0	<b>0.13</b>	<b>50</b>			C	C			
19.9	<b>70.24</b>	0.09	45	1.1	<b>0.11</b>	<b>50</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 **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					
0.25 LT	0.25 LT	0.25 LT	0.25 LT	0.43 LT	0.31 LT	0.25 LT
<b>AGIP</b>	<b>BP</b>	<b>SHELL</b>	<b>KLUBER</b>	<b>MOBIL</b>		
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

$F_{eq} = F_R \cdot \frac{42}{X+23}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
<b>400</b>	360	1800	<b>100</b>	440	2200	<b>25</b>	440	2200
<b>250</b>	380	1900	<b>75</b>	440	2200	<b>15</b>	440	2200
<b>150</b>	420	2100	<b>50</b>	440	2200			

**F<sub>R</sub>** 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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
<b>1400</b>	140	700
<b>900</b>	160	800
<b>600</b>	190	950

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

**tab. 2**

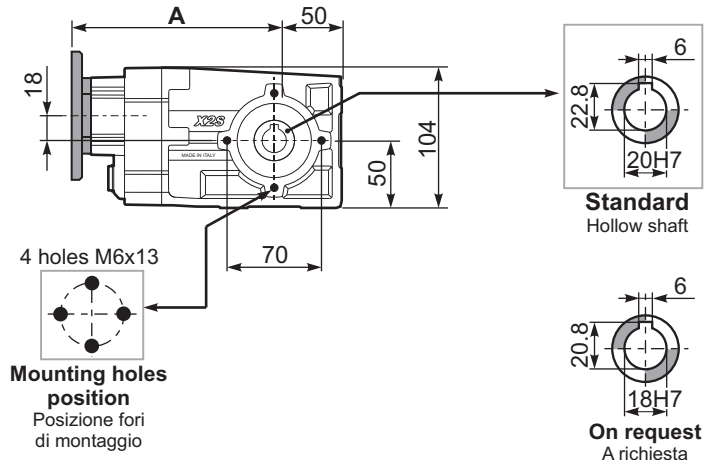
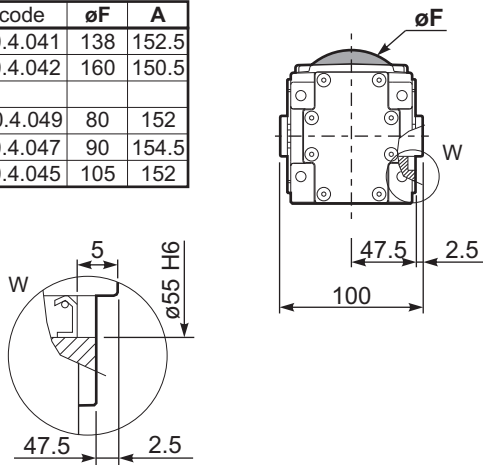
**SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.**  
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.



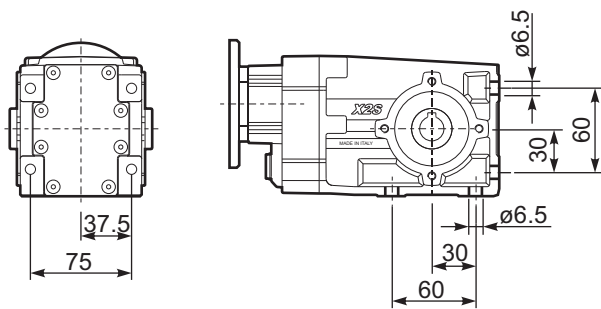
**PX22S C...** Basic Gearbox  
Riduttore base

**Gearbox weight** 3.70 kg  
peso riduttore

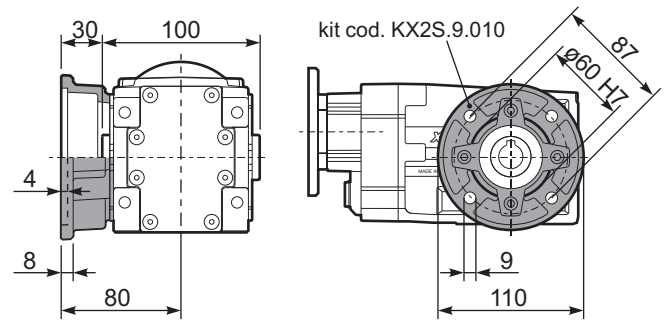
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	152.5
71B5	K050.4.042	160	150.5
56B14	KC40.4.049	80	152
63B14	K050.4.047	90	154.5
71B14	K050.4.045	105	152



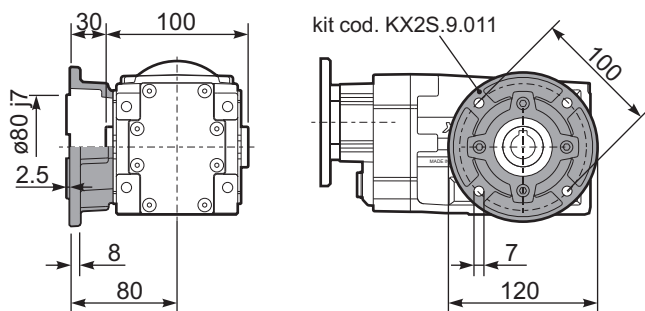
**PX22S..-N..** Feet  
Piedini



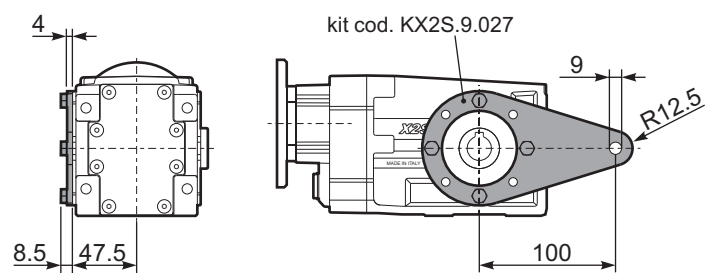
**PX22S-F0..** Output flange  
Flangia uscita



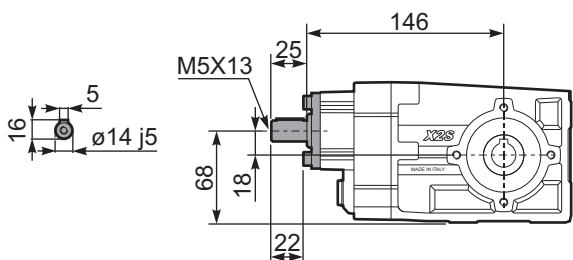
**PX22S-F1..** Output flange  
Flangia uscita



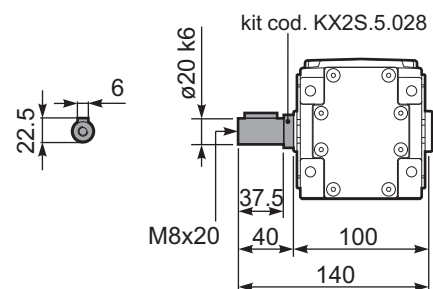
**PX22S BR..** Reaction Arm  
Braccio di reazione

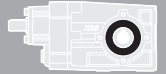


**RX22S..** Input shaft  
Albero in entrata



**PX22S..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.96** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>7.33</b>	1.5	72	1.0	1.5	70	B				C	C		289	standard ø20
124.7	<b>11.22</b>	1.1	80	1.1	1.2	85	B				C	C		287	
105.6	<b>13.26</b>	1.1	95	0.9	0.98	85	B				C	C		199	
91.1	<b>15.37</b>	1.1	110	0.8	0.89	90	B				C	C		179	
77.6	<b>18.04</b>	0.75	89	1.0	0.76	90	B				C	C		159	
69.0	<b>20.30</b>	0.75	100	0.9	0.68	90	B				C	C		197	
65.0	<b>21.54</b>	0.75	106	0.9	0.64	90	B				C	C		139	
59.5	<b>23.53</b>	0.55	85	1.1	0.58	90	B				C	C		177	
50.7	<b>27.62</b>	0.55	100	0.9	0.50	90	B				C	C		157	
47.6	<b>29.40</b>	0.55	106	0.8	0.47	90	B				C	C		109	
42.5	<b>32.97</b>	0.37	80	1.1	0.42	90	B				C	C		137	
36.5	<b>38.37</b>	0.37	93	1.0	0.36	90	B				C	C		99	
31.1	<b>45.00</b>	0.25	74	1.2	0.31	90	B				C	C		107	
27.6	<b>50.67</b>	0.25	83	1.1	0.27	90	B				C	C		79	
23.8	<b>58.73</b>	0.18	73	1.2	0.23	90	B				C	C		97	
18.1	<b>77.55</b>	0.18	97	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					
B3	B6	B7	B8	V5	V6	V8
0.40 LT	0.60 LT	0.40 LT	0.60 LT	0.85 LT	0.60 LT	0.40 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

$F_{eq} = F_R \cdot \frac{47.5}{X+28.5}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	400	2000	75	560	2800	15	560	2800
150	450	2250	50	560	2800			
100	500	2500	25	560	2800			

**F<sub>R</sub>** 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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

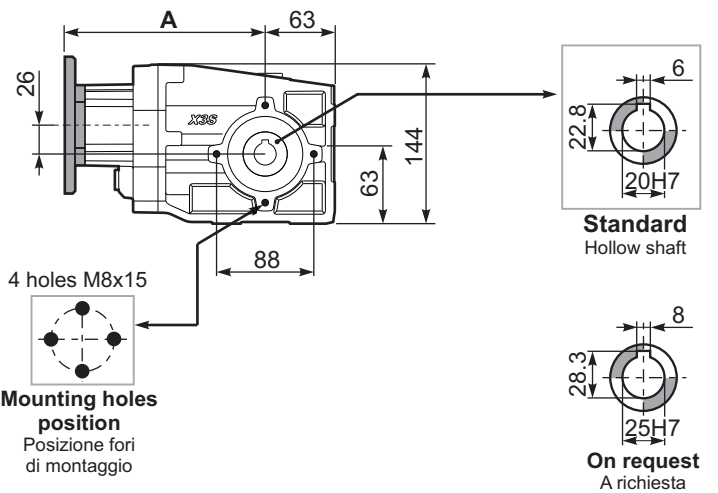
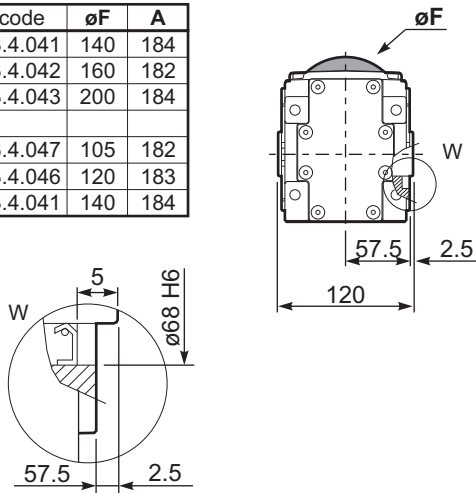
**tab. 2**

**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

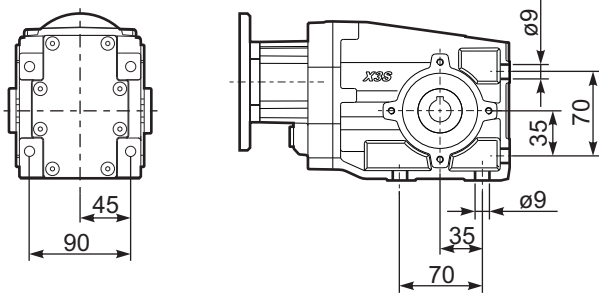
Gearbox weight  
peso riduttore **6.30 kg**

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

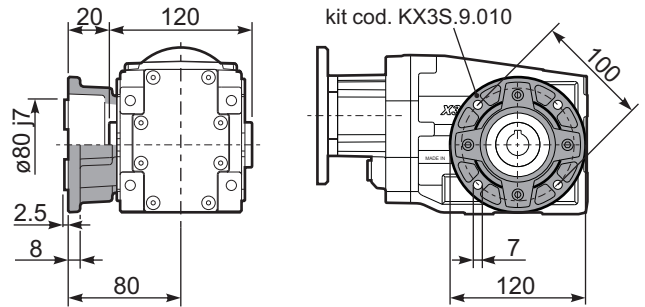


4 holes M8x15  
Mounting holes position  
Posizione fori di montaggio

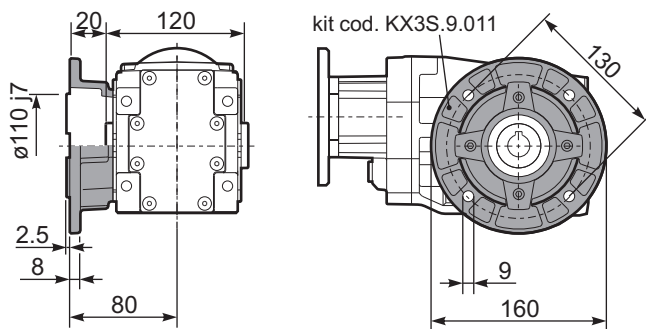
**PX32S.-N..** Feet  
Piedini



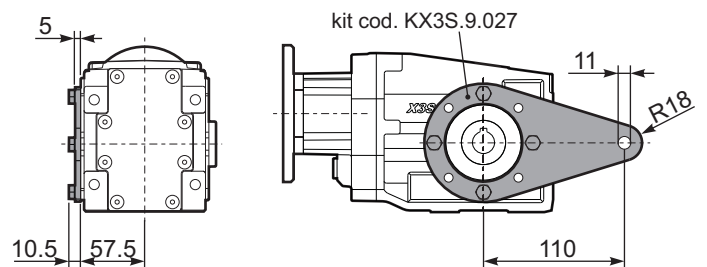
**PX32S.-F1..** Output flange  
Flangia uscita



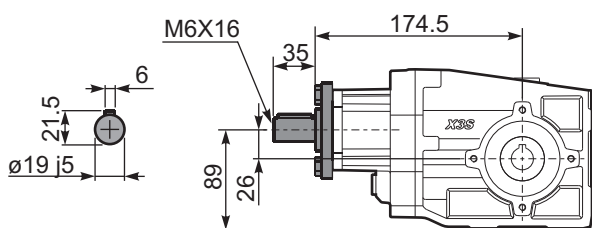
**PX32S.-F2..** Output flange  
Flangia uscita



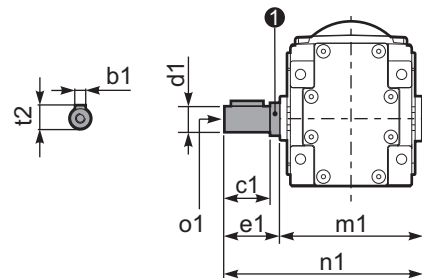
**PX32SBR..** Reaction Arm  
Braccio di reazione



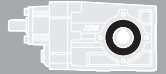
**RX32S...** Input shaft  
Albero in entrata



**PX32S..A..** Single output shaft  
Albero semplice in uscita



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



**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.94** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>36.17</b>	0.37	86	1.2	<b>0.43</b>	<b>100</b>			C	C		17179	standard ø20
31.7	<b>44.21</b>	0.37	105	1.0	<b>0.35</b>	<b>100</b>			C	C		19139	
27.6	<b>50.68</b>	0.25	81	1.2	<b>0.31</b>	<b>100</b>			C	C		17139	
25.3	<b>55.36</b>	0.25	89	1.1	<b>0.28</b>	<b>100</b>			C	C		17177	
23.2	<b>60.31</b>	0.25	97	1.0	<b>0.26</b>	<b>100</b>			C	C		15139	
21.3	<b>65.88</b>	0.25	105	0.9	<b>0.24</b>	<b>100</b>			C	C		15177	
19.4	<b>72.25</b>	0.18	88	1.1	<b>0.22</b>	<b>100</b>			C	C		10179	
17.6	<b>79.64</b>	0.18	97	1.0	<b>0.20</b>	<b>100</b>			C	C		13177	
15.2	<b>92.31</b>	0.18	113	0.9	<b>0.17</b>	<b>100</b>			C	C		15137	
14.6	<b>95.65</b>	0.18	117	0.9	<b>0.16</b>	<b>100</b>			C	C		9179	
13.8	<b>101.23</b>	0.12	80	1.2	<b>0.15</b>	<b>100</b>			C	C		10139	
11.0	<b>127.37</b>	0.12	101	1.0	<b>0.12</b>	<b>100</b>			C	C		7179	
9.3	<b>151.16</b>	0.09	95	1.0	<b>0.10</b>	<b>100</b>			C	C		6179	
7.8	<b>178.46</b>	0.09	113	0.9	<b>0.09</b>	<b>100</b>			C	C		7139	
6.6	<b>211.79</b>	0.06	88	1.1	<b>0.07</b>	<b>100</b>			C	C		6139	
6.1	<b>231.37</b>	0.06	96	1.0	<b>0.07</b>	<b>100</b>			C	C		6177	
5.1	<b>273.16</b>	0.06	113	0.9	<b>0.06</b>	<b>100</b>			C	C		7137	
4.3	<b>324.18</b>	0.06	134	0.7	<b>0.05</b>	<b>100</b>			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 **X33S** 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 **X33S** 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 **X33S** 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 **X33S** 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
0.70 LT	0.65 LT	0.40 LT	0.65 LT	0.95 LT	0.65 LT	0.45 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

$F_{eq} = F_R \cdot \frac{47.5}{X+28.5}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	400	2000	75	560	2800	15	560	2800
150	450	2250	50	560	2800			
100	500	2500	25	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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

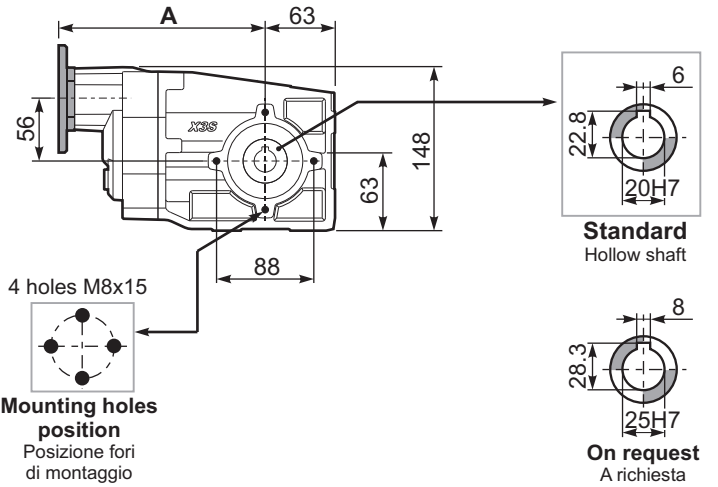
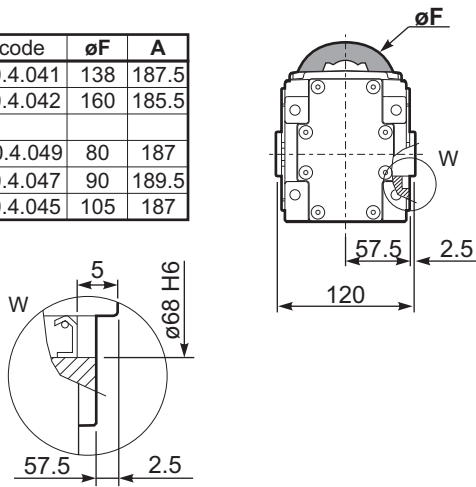
**tab. 2**

**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.

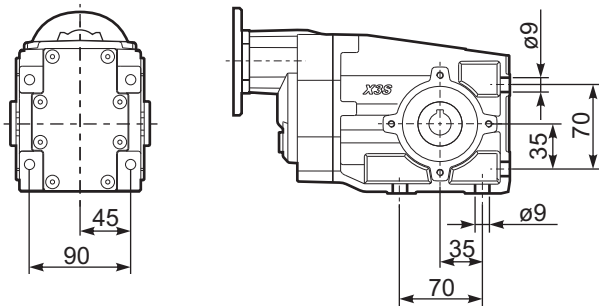
**PX33S-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **6.55 kg**

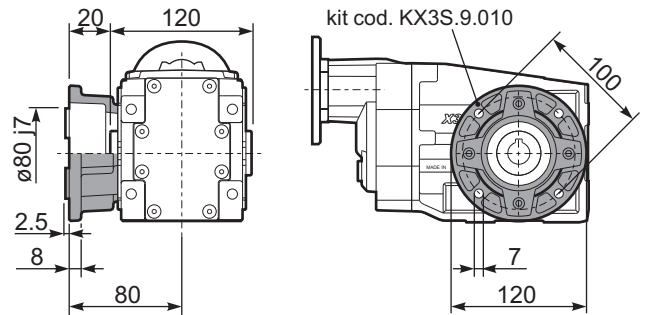
M. flanges	Kit code	øF	A
<b>63B5</b>	K050.4.041	138	187.5
<b>71B5</b>	K050.4.042	160	185.5
<b>56B14</b>	KC40.4.049	80	187
<b>63B14</b>	K050.4.047	90	189.5
<b>71B14</b>	K050.4.045	105	187



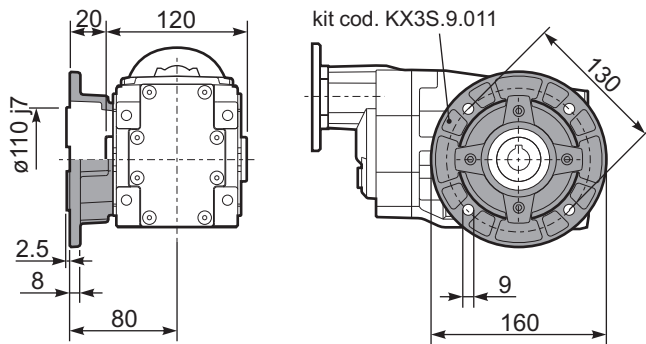
**PX33S-N..** Feet  
Piedi



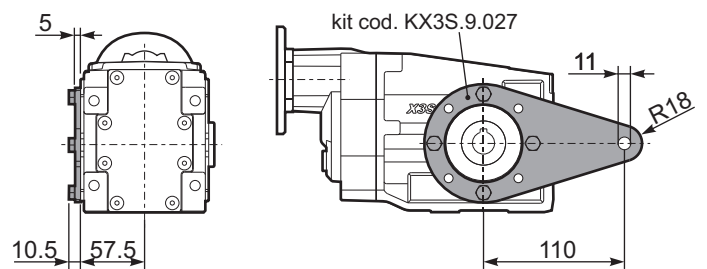
**PX33S-F1..** Output flange  
Flangia uscita



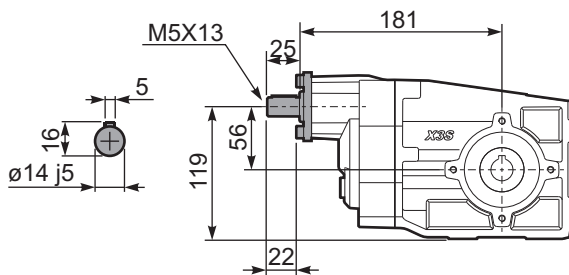
**PX33S-F2..** Output flange  
Flangia uscita



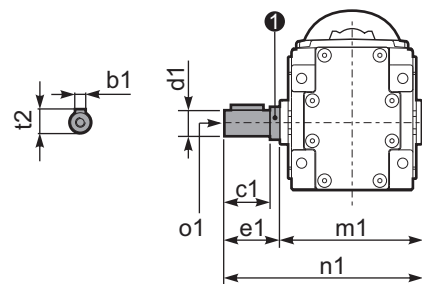
**PX33S-BR..** Reaction Arm  
Braccio di reazione



**RX33S...** Input shaft  
Albero in entrata



**PX33S..A..** Single output shaft  
Albero semplice in uscita



d1	b1	c1	e1	m1	n1	t2	o1	1 kit code
ø20 <sup>-0.005/-0.020</sup>	6	37.5	40	120	140	22.5	M8x20	KX2S.5.028
ø25 <sup>-0.005/-0.020</sup>	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<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	104	0.9	2.0	95	B				C	C			2811	-
125.0	11.20	2.2	159	0.9	2.1	150	B				C	C			288	
106.2	13.18	1.5	129	1.2	1.7	150	B				C	C			1911	
91.7	15.27	1.1	109	1.4	1.5	150	B				C	C			1711	
78.1	17.93	1.1	128	1.2	1.3	150	B				C	C			1511	
69.1	20.25	1.1	145	1.0	1.1	150	B				C	C			198	standard ø25
65.4	21.40	1.1	153	1.0	1.1	150	B				C	C			1311	
59.6	23.47	0.75	115	1.3	0.98	150	B				C	C			178	
50.8	27.55	0.75	135	1.1	0.83	150	B				C	C			158	
47.9	29.21	0.75	143	1.0	0.78	150	B				C	C			1011	ø30
42.6	32.88	0.75	161	0.9	0.70	150	B				C	C			138	On request
36.7	38.12	0.55	138	1.1	0.60	150	B				C	C			911	
31.2	44.89	0.55	163	0.9	0.51	150	B				C	C			108	
27.8	50.34	0.37	122	1.1	0.40	131	B				C	C			711	
23.9	58.58	0.37	142	1.1	0.39	150	B				C	C			98	
18.1	77.36	0.25	126	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					
0.60 LT	0.75 LT	0.50 LT	0.70 LT	1.10 LT	0.60 LT	0.50 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

$F_{eq} = F_R \cdot \frac{54}{X+28}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	500	2500	75	800	4000	15	960	4800
150	600	3000	50	960	4800			
100	700	3500	25	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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

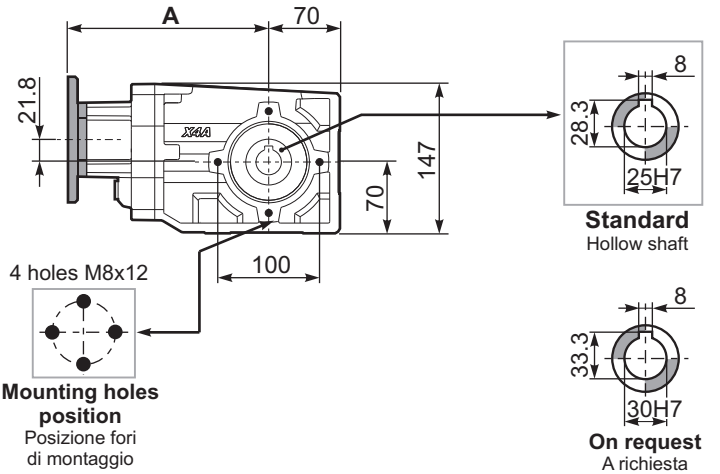
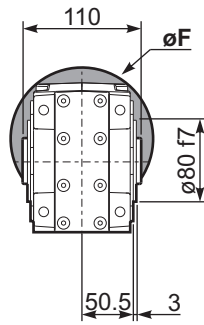
**tab. 2**

**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.

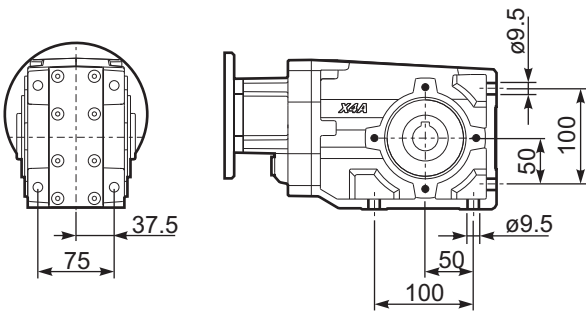
**PX42A-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **7.82 kg**

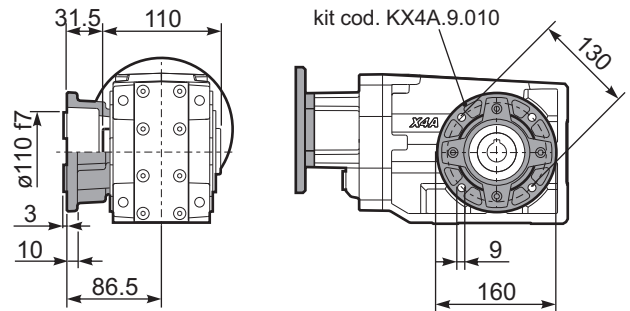
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	199.5
71B5	K063.4.042	160	197.5
80/90B5	K063.4.043	200	199.5
71B14	K063.4.047	105	197.5
80B14	K063.4.046	120	198.5
90B14	K063.4.041	140	199.5
100/112B14	KC40.4.041	160	235



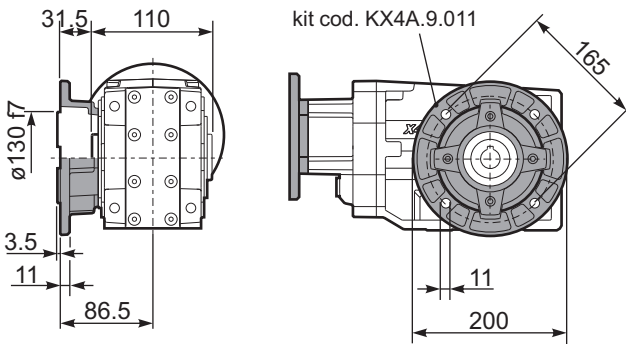
**PX42A-N..** Feet  
Piedini



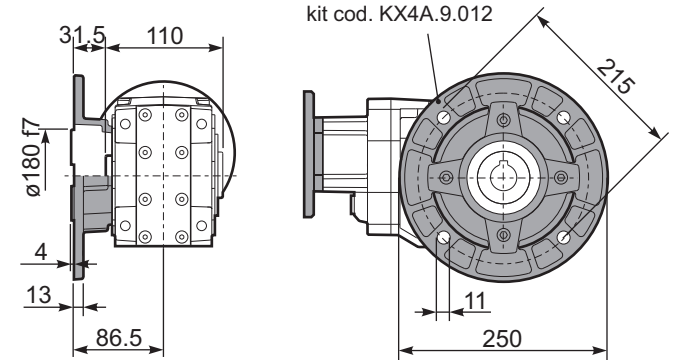
**PX42A-F2..** Output flange  
Flangia uscita



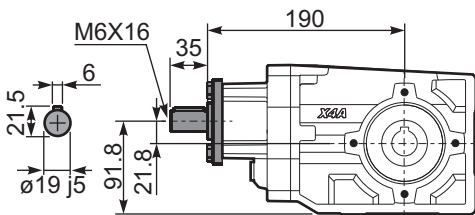
**PX42A-F3..** Output flange  
Flangia uscita



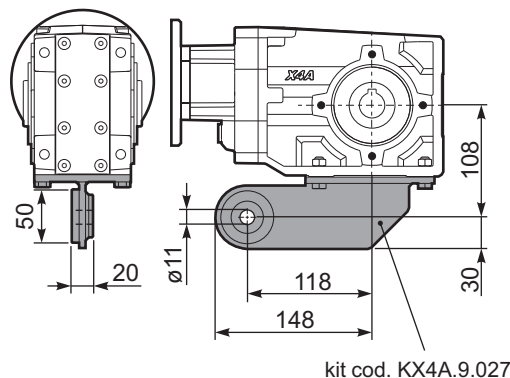
**PX42A-F4..** Output flange  
Flangia uscita



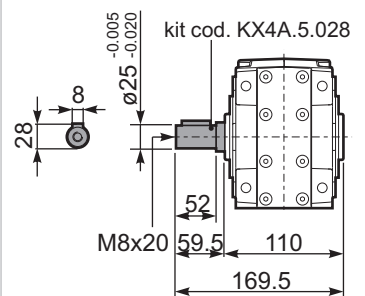
**RX42A...** Input shaft  
Albero in entrata

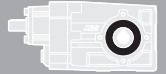


**PX42A-BR..** Reaction Arm  
Braccio di reazione



**PX42A..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.94** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>50.35</b>	0.37	119	1.3	<b>0.46</b>	<b>150</b>			C	C		171311	standard ø25	-
25.4	<b>55.22</b>	0.37	131	1.1	<b>0.42</b>	<b>150</b>			C	C		17178		
23.4	<b>59.92</b>	0.37	142	1.1	<b>0.39</b>	<b>150</b>			C	C		151311		
21.3	<b>65.72</b>	0.37	156	1.0	<b>0.36</b>	<b>150</b>			C	C		15178		
19.5	<b>71.78</b>	0.25	115	1.3	<b>0.33</b>	<b>150</b>			C	C		101711		
17.6	<b>79.44</b>	0.25	127	1.2	<b>0.29</b>	<b>150</b>			C	C		13178		
15.2	<b>92.08</b>	0.25	147	1.0	<b>0.25</b>	<b>150</b>			C	C		15138		
14.7	<b>95.03</b>	0.25	152	1.0	<b>0.25</b>	<b>150</b>			C	C		91711		
11.1	<b>126.55</b>	0.18	155	1.0	<b>0.20</b>	<b>160</b>			C	C		71711		
10.5	<b>133.15</b>	0.18	163	1.0	<b>0.19</b>	<b>160</b>			C	C		91311		
9.3	<b>150.18</b>	0.12	119	1.3	<b>0.17</b>	<b>160</b>			C	C		61711		
7.9	<b>177.30</b>	0.12	140	1.1	<b>0.14</b>	<b>160</b>			C	C		71311		
6.7	<b>210.42</b>	0.09	133	1.2	<b>0.12</b>	<b>160</b>			C	C		61311		
6.1	<b>230.79</b>	0.09	146	1.1	<b>0.11</b>	<b>160</b>			C	C		6178		
5.1	<b>272.47</b>	0.06	113	1.4	<b>0.09</b>	<b>160</b>			C	C		7138		
4.3	<b>323.37</b>	0.06	134	1.2	<b>0.08</b>	<b>160</b>			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					
B3	B6	B7	B8	V5	V6	V8
0.80 LT	0.80 LT	0.60 LT	0.80 LT	1.20 LT	0.70 LT	0.70 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

$F_{eq} = FR \cdot \frac{54}{X+28}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	500	2500	75	800	4000	15	960	4800
150	600	3000	50	960	4800			
100	700	3500	25	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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

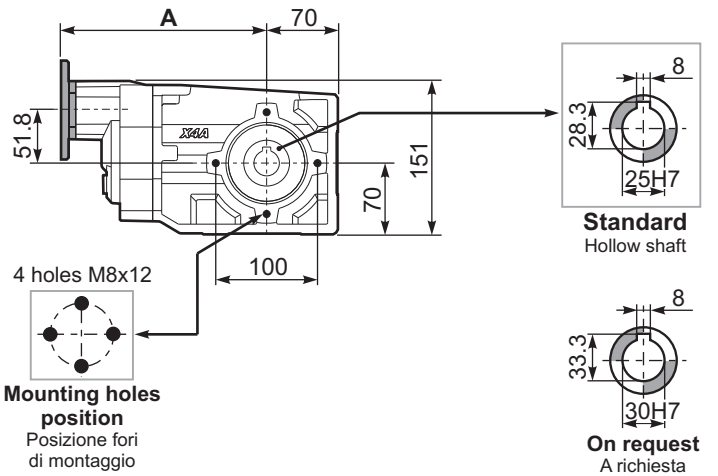
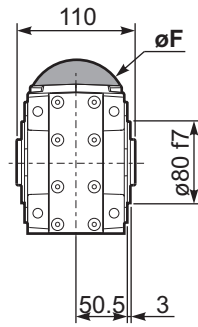
**SELECT THIS TYPE AND THIS SPECIFIC SIZE ON THE WEB PAGES TO GET COMPLETE TECHNICAL DATA.**  
Selezionare tipo e gandezza specifica nel sito web per la documentazione completa.



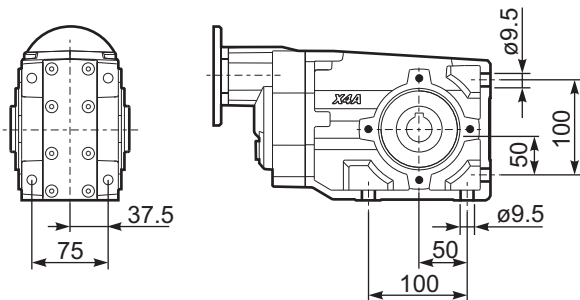
**PX43A-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **7.93 kg**

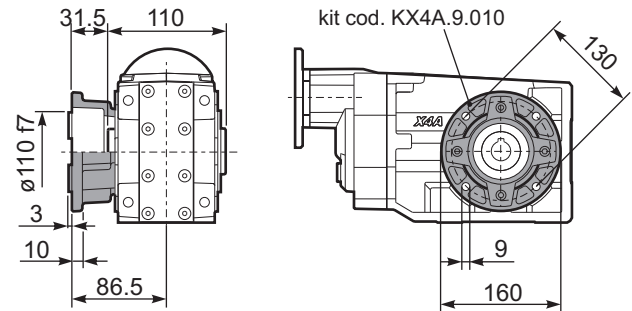
M. flanges	Kit code	øF	A
<b>63B5</b>	K050.4.041	138	203
<b>71B5</b>	K050.4.042	160	201
<b>56B14</b>	KC40.4.049	80	202.5
<b>63B14</b>	K050.4.047	90	205
<b>71B14</b>	K050.4.045	105	202.5



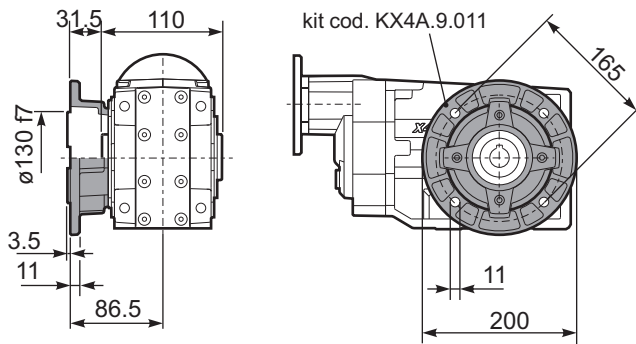
**PX43A-N..** Feet  
Piedini



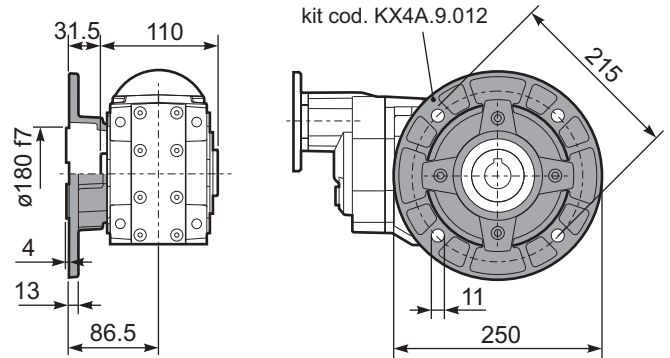
**PX43A-F2..** Output flange  
Flangia uscita



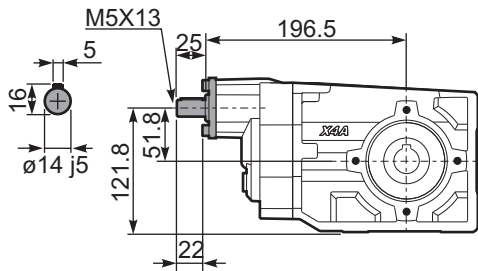
**PX43A-F3..** Output flange  
Flangia uscita



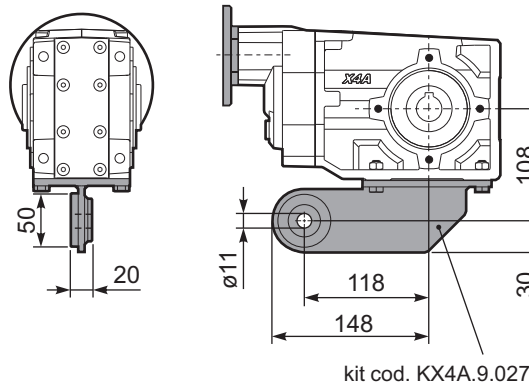
**PX43A-F4..** Output flange  
Flangia uscita



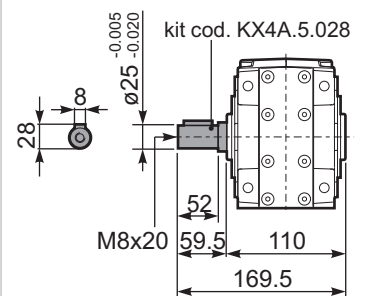
**RX43A...** Input shaft  
Albero in entrata



**PX43A-BR..** Reaction Arm  
Braccio di reazione



**PX43A..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.96** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>6.03</b>	3	116	1.2	<b>3.4</b>	<b>135</b>	B							3011	standard ø30	-
151.1	<b>9.26</b>	3	179	0.9	<b>2.6</b>	<b>155</b>	B							308		
123.2	<b>11.36</b>	3	219	1.0	<b>3.1</b>	<b>230</b>	B							2011		
91.2	<b>15.36</b>	2.2	218	1.1	<b>2.5</b>	<b>250</b>	B							1611		
80.2	<b>17.46</b>	2.2	248	1.0	<b>2.2</b>	<b>250</b>	B							208		
70.1	<b>19.97</b>	2.2	284	0.9	<b>1.9</b>	<b>250</b>	B							1311		
59.3	<b>23.60</b>	1.5	231	1.1	<b>1.6</b>	<b>250</b>	B							168		
57.3	<b>24.45</b>	1.5	240	1.0	<b>1.6</b>	<b>250</b>	B							1111		
45.6	<b>30.69</b>	1.1	220	1.1	<b>1.2</b>	<b>250</b>	B							138		
39.6	<b>35.35</b>	1.1	253	1.0	<b>1.1</b>	<b>250</b>	B							811		
37.3	<b>37.57</b>	1.1	269	0.9	<b>1.0</b>	<b>250</b>	B							118		
28.8	<b>48.68</b>	0.75	239	1.0	<b>0.78</b>	<b>250</b>	B							611		
25.8	<b>54.33</b>	0.75	267	0.9	<b>0.70</b>	<b>250</b>	B							88		
18.7	<b>74.81</b>	0.37	181	1.2	<b>0.43</b>	<b>210</b>	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	V8	V8
0.90 LT	1.50LT	0.75 LT	1.40 LT	1.95 LT	1.15 LT	0.80 LT		
AGIP Telium VSF 320	BP Energel 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

$F_{eq} = F_R \cdot \frac{61.5}{X+31}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	600	3000	75	820	4100	15	1660	8300
150	700	3500	50	960	4800			
100	800	4000	25	1350	6750			

**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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

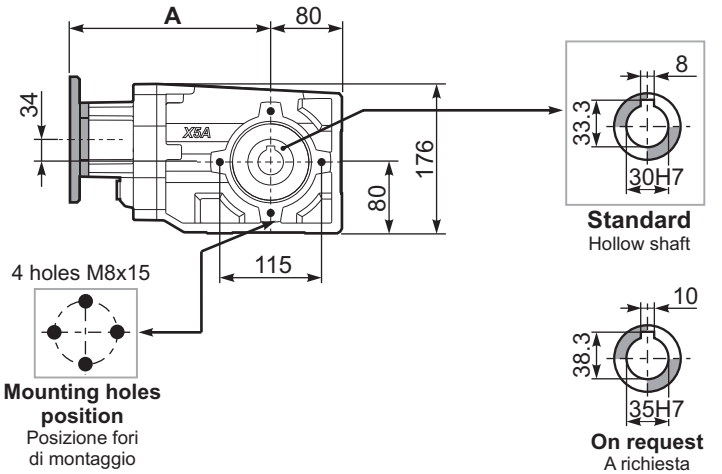
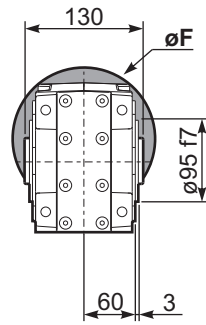
**tab. 2**

**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.

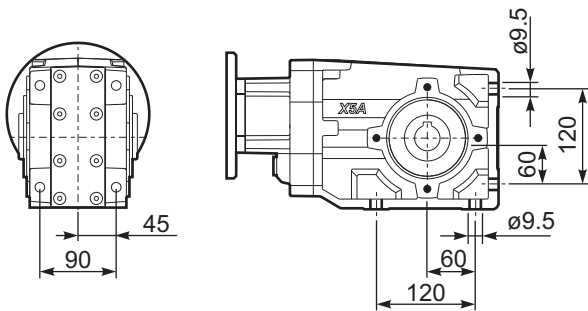
**PX52A-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **12.80 kg**

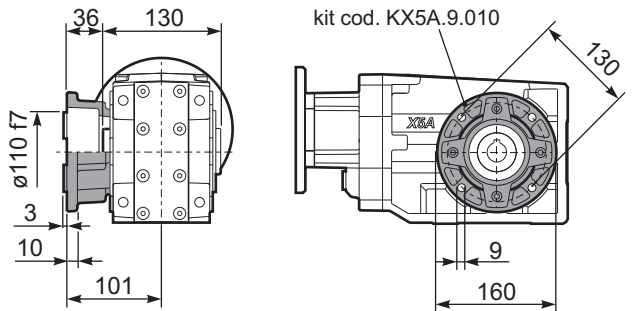
M. flanges	Kit code	øF	A
<b>71B5</b>	KC023.4.041	160	234
<b>80/90B5</b>	KC023.4.042	200	236
<b>100/112B5</b>	KC023.4.043	250	242
<b>80B14</b>	KC085.4.046	120	234
<b>90B14</b>	KC085.4.045	140	234
<b>100/112B14</b>	KC085.4.047	160	245



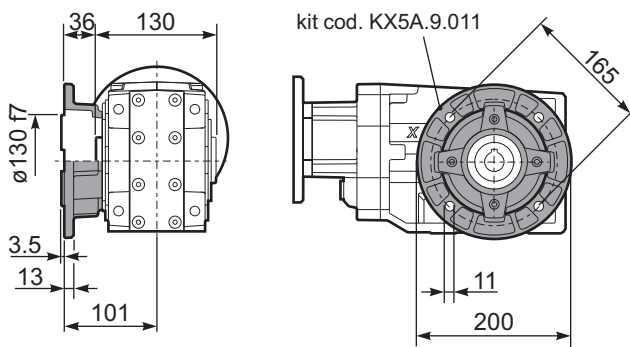
**PX52A-N..** Feet  
Piedini



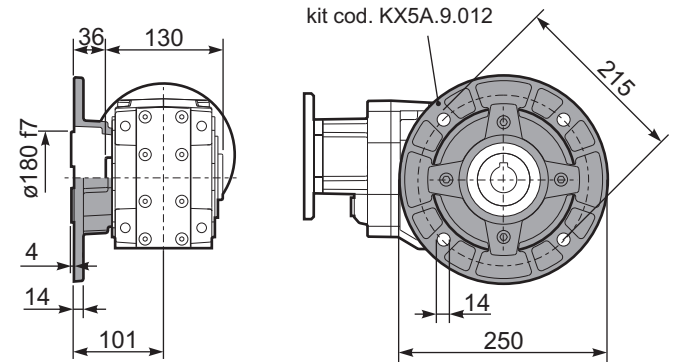
**PX52A-F2..** Output flange  
Flangia uscita



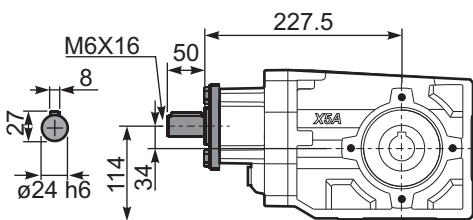
**PX52A-F3..** Output flange  
Flangia uscita



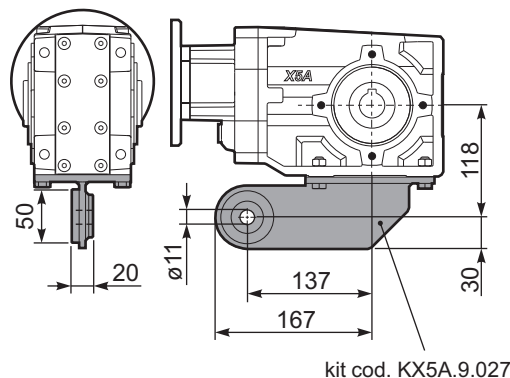
**PX52A-F4..** Output flange  
Flangia uscita



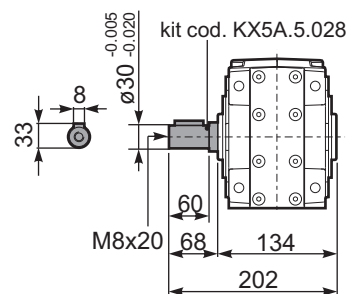
**RX52A...** Input shaft  
Albero in entrata

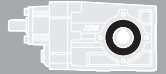


**PX52A-BR..** Reaction Arm  
Braccio di reazione



**PX52A..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.94** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>56.76</b>	0.55	201	1.2	0.69	<b>250</b>	B				C	C		191311	standard ø30
21.3	<b>65.79</b>	0.55	233	1.1	0.59	<b>250</b>	B				C	C		171311	
18.1	<b>77.23</b>	0.55	274	0.9	0.50	<b>250</b>	B				C	C		151311	
16.0	<b>87.23</b>	0.37	207	1.2	0.45	<b>250</b>	B				C	C		19138	
15.2	<b>92.18</b>	0.37	219	1.1	0.42	<b>250</b>	B				C	C		131311	
13.9	<b>100.47</b>	0.37	238	1.0	0.39	<b>250</b>	B				C	C		19811	
12.0	<b>116.45</b>	0.37	276	0.9	0.33	<b>250</b>	B				C	C		17811	
11.1	<b>125.82</b>	0.25	201	1.2	0.31	<b>250</b>	B				C	C		101311	
9.9	<b>141.66</b>	0.25	227	1.1	0.28	<b>250</b>	B				C	C		13138	
8.6	<b>163.16</b>	0.25	261	1.0	0.24	<b>250</b>	B				C	C		13811	
7.8	<b>178.96</b>	0.18	219	1.1	0.22	<b>250</b>	B				C	C		1788	
7.2	<b>193.36</b>	0.18	237	1.1	0.20	<b>250</b>	B				C	C		10138	
6.5	<b>216.84</b>	0.18	265	0.9	0.18	<b>250</b>	B				C	C		71311	
5.5	<b>252.36</b>	0.12	200	1.3	0.15	<b>250</b>	B				C	C		9138	
4.8	<b>290.67</b>	0.12	230	1.1	0.13	<b>250</b>	B				C	C		9811	
4.2	<b>333.23</b>	0.09	210	1.2	0.12	<b>250</b>	B				C	C		7138	
3.6	<b>383.82</b>	0.09	242	1.0	0.10	<b>250</b>	B				C	C		7811	
3.1	<b>446.70</b>	0.09	282	0.9	0.09	<b>250</b>	B				C	C		988	
2.4	<b>589.85</b>	0.06	244	1.0	0.07	<b>250</b>	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	V8	V8
1.30 LT	1.55 LT	0.85 LT	1.45 LT	2.10 LT	1.25 LT	0.95 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

$F_{eq} = F_R \cdot \frac{61.5}{X+31}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	600	3000	75	820	4100	15	1660	8300
150	700	3500	50	960	4800			
100	800	4000	25	1350	6750			

**F<sub>R</sub>** 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 <sub>1</sub> [min <sup>-1</sup> ]	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

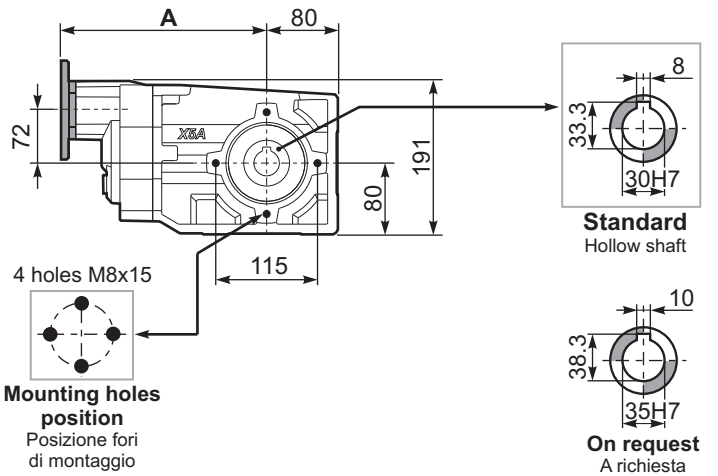
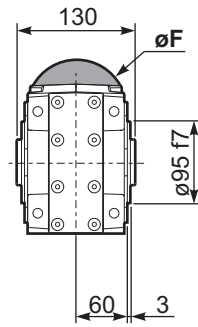
**tab. 2**

**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

Gearbox weight  
peso riduttore **12.65 kg**

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

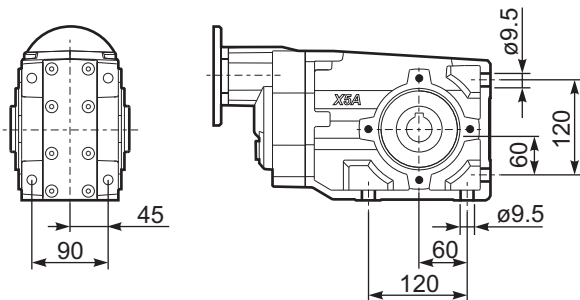


**Mounting holes position**  
Posizione fori di montaggio

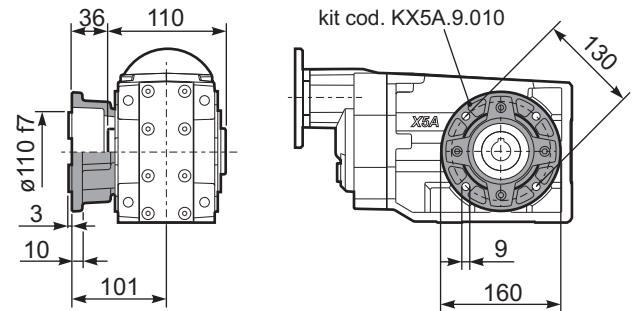
**Standard**  
Hollow shaft

**On request**  
A richiesta

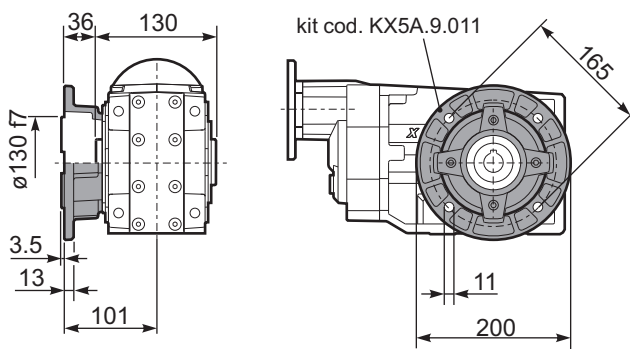
**PX53A-N..** Feet  
Piedini



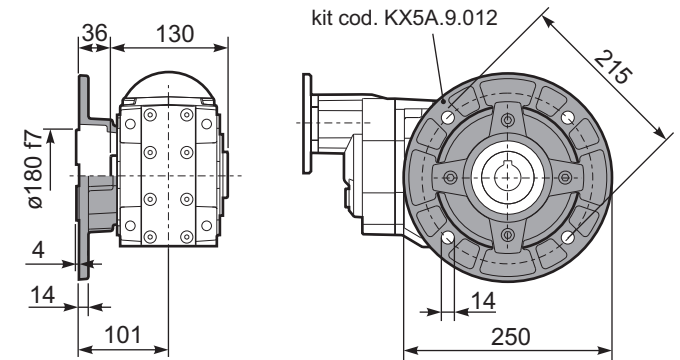
**PX53A-F2..** Output flange  
Flangia uscita



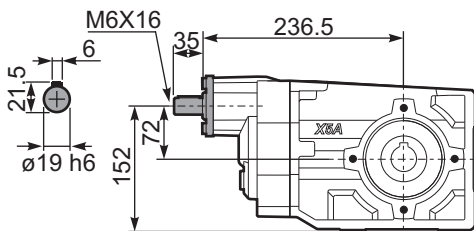
**PX53A-F3..** Output flange  
Flangia uscita



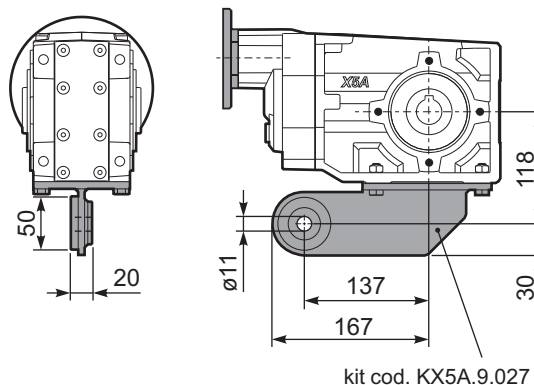
**PX53A-F4..** Output flange  
Flangia uscita



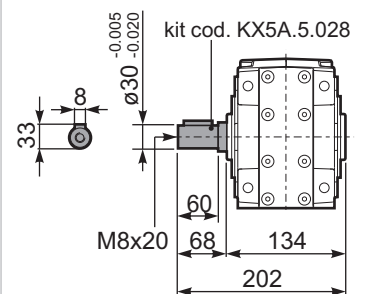
**RX53A...** Input shaft  
Albero in entrata

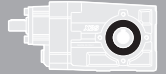


**PX53A-BR..** Reaction Arm  
Braccio di reazione



**PX53A..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.96** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>6.03</b>	5.5	211	1.1	6.1	240	B								3011	-
151.1	<b>9.26</b>	4	238	1.1	4.5	270	B								308	
123.2	<b>11.36</b>	4	291	1.2	4.7	350	B								2011	
91.2	<b>15.36</b>	4	394	1.0	3.8	385	B								1611	
80.2	<b>17.46</b>	4	448	0.9	3.5	400	B								208	<b>standard</b>
70.1	<b>19.97</b>	3	386	1.1	3.1	410	B								1311	<b>ø35</b>
59.3	<b>23.60</b>	3	456	0.9	2.7	410	B								168	
57.3	<b>24.45</b>	3	472	0.9	2.6	410	B								1111	
45.6	<b>30.69</b>	2.2	436	0.9	2.0	410	B								138	<b>ø40</b>
39.6	<b>35.35</b>	1.5	346	1.2	1.8	410	B								811	On request
37.3	<b>37.57</b>	1.5	368	1.1	1.7	410	B								118	
28.8	<b>48.68</b>	1.1	348	1.0	1.2	365	B								611	
25.8	<b>54.33</b>	1.1	389	1.1	1.2	410	B								88	
18.7	<b>74.81</b>	0.75	367	1.0	0.73	360	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 **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	V8	V8
1.25 LT	1.70 LT	0.95 LT	1.60 LT	2.45 LT	1.50 LT	1.10 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

$F_{eq} = F_R \cdot \frac{69}{X+39}$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	600	3000	75	890	4450	15	1660	8300
150	700	3500	50	1140	5700			
100	780	3900	25	1330	6650			

**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 <sub>1</sub> [min <sup>-1</sup> ]	FA	FR
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

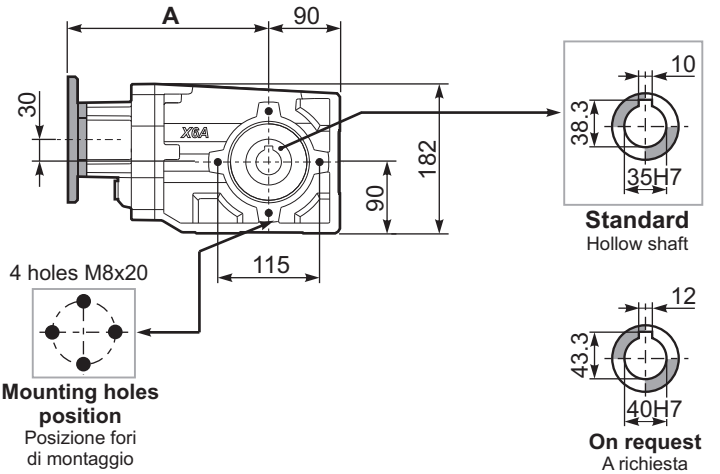
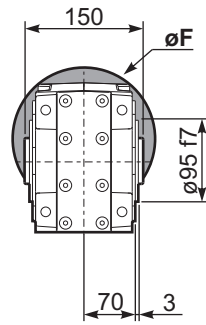
**tab. 2**

**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.

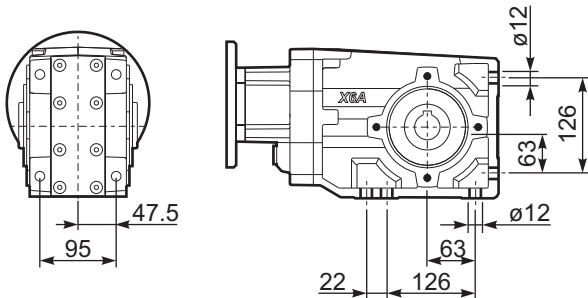
**PX62A-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **15.80 kg**

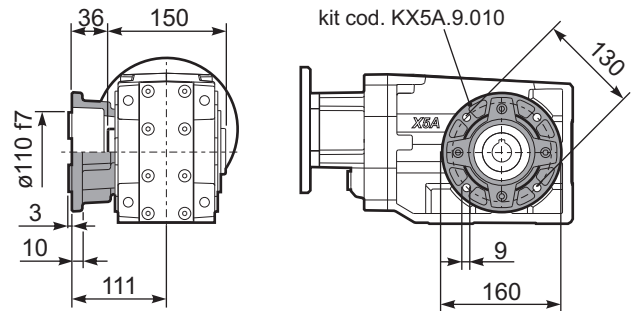
M. flanges	Kit code	øF	A
<b>71B5</b>	KC023.4.041	160	253
<b>80/90B5</b>	KC023.4.042	200	255
<b>100/112B5</b>	KC023.4.043	250	261
<b>80B14</b>	KC085.4.046	120	253
<b>90B14</b>	KC085.4.045	140	253
<b>100/112B14</b>	KC085.4.047	160	264
<b>132B14</b>	KC50.4.041	200	282.5



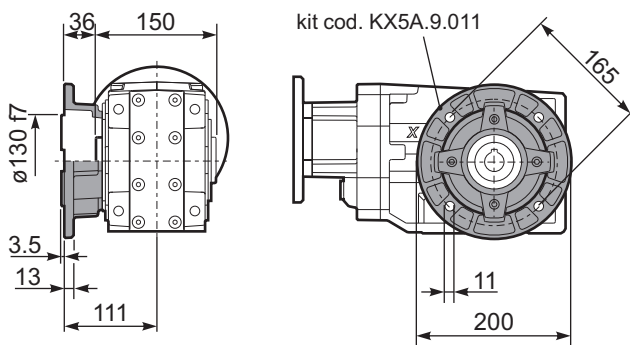
**PX62A-N..** Feet  
Piedini



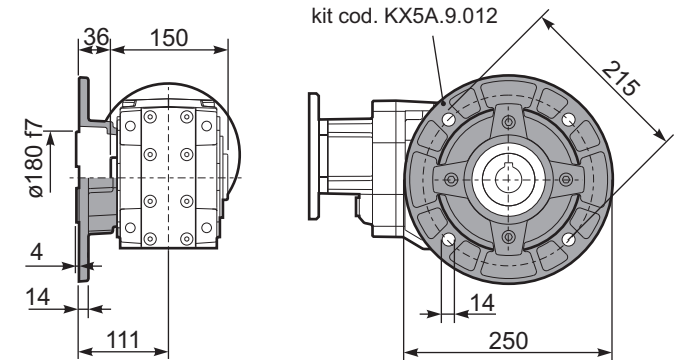
**PX62A-F2..** Output flange  
Flangia uscita



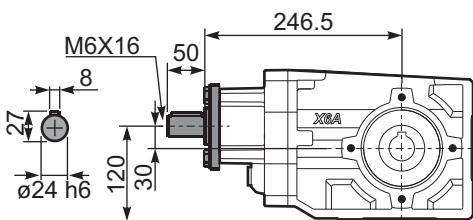
**PX62A-F3..** Output flange  
Flangia uscita



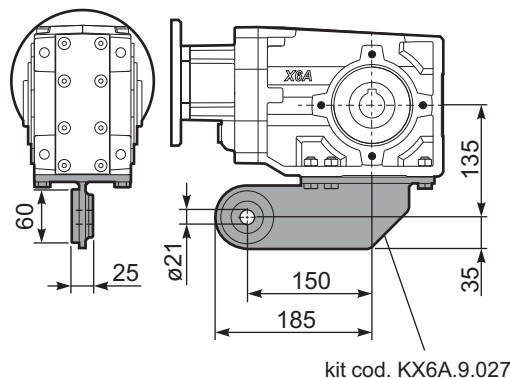
**PX62A-F4..** Output flange  
Flangia uscita



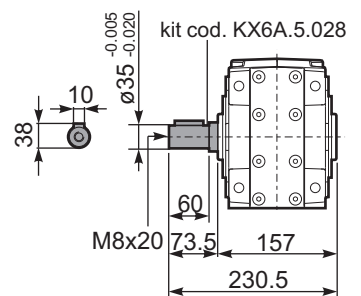
**RX62A...** Input shaft  
Albero in entrata



**PX62A-BR..** Reaction Arm  
Braccio di reazione



**PX62A..A..** Single output shaft  
Albero semplice in uscita





**QUICK SELECTION / Selezione veloce** The dynamic efficiency is **0.94** for all ratios **input speed (n<sub>1</sub>) = 1400 min<sup>-1</sup>**

Output Speed n <sub>2</sub> [min <sup>-1</sup> ]	Ratio i	Motor power P <sub>1M</sub> [kW]	Output torque M <sub>2M</sub> [Nm]	Service factor f.s.	Nominal power P <sub>1R</sub> [kW]	Nominal torque M <sub>2R</sub> [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	<b>56.76</b>	1.1	398	1.0	<b>1.1</b>	<b>410</b>	B				C	C		191311	standard ø35  ø40 On request	-
21.3	<b>65.79</b>	0.75	316	1.3	<b>0.97</b>	<b>410</b>	B				C	C		171311		
18.1	<b>77.23</b>	0.75	371	1.1	<b>0.83</b>	<b>410</b>	B				C	C		151311		
16.0	<b>87.23</b>	0.75	420	1.0	<b>0.73</b>	<b>410</b>	B				C	C		19138		
15.2	<b>92.18</b>	0.75	443	0.9	<b>0.69</b>	<b>410</b>	B				C	C		131311		
13.9	<b>100.47</b>	0.55	357	1.2	<b>0.64</b>	<b>410</b>	B				C	C		19811		
12.0	<b>116.45</b>	0.55	413	1.0	<b>0.55</b>	<b>410</b>	B				C	C		17811		
11.1	<b>125.82</b>	0.55	447	0.9	<b>0.51</b>	<b>410</b>	B				C	C		101311		
9.9	<b>141.66</b>	0.37	336	1.2	<b>0.45</b>	<b>410</b>	B				C	C		13138		
8.6	<b>163.16</b>	0.37	387	1.1	<b>0.39</b>	<b>410</b>	B				C	C		13811		
7.8	<b>178.96</b>	0.37	425	1.0	<b>0.36</b>	<b>410</b>	B				C	C		1788		
7.2	<b>193.36</b>	0.37	459	0.9	<b>0.33</b>	<b>410</b>	B				C	C		10138		
6.5	<b>216.84</b>	0.25	347	1.2	<b>0.29</b>	<b>410</b>	B				C	C		71311		
5.5	<b>252.36</b>	0.25	404	1.0	<b>0.25</b>	<b>410</b>	B				C	C		9138		
4.8	<b>290.67</b>	0.25	465	0.9	<b>0.22</b>	<b>410</b>	B				C	C		9811		
4.2	<b>333.23</b>	0.18	408	1.0	<b>0.19</b>	<b>410</b>	B				C	C		7138		
3.6	<b>383.82</b>	0.18	470	0.9	<b>0.17</b>	<b>410</b>	B				C	C		7811		
3.1	<b>446.70</b>	0.12	353	1.2	<b>0.14</b>	<b>410</b>	B				C	C		988		
2.4	<b>589.85</b>	0.09	372	1.1	<b>0.11</b>	<b>410</b>	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 **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						
1.80 LT	1.80 LT	1.05 LT	1.70 LT	2.60 LT	1.65 LT	1.30 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

$$F_{eq} = F_R \cdot \frac{69}{X+39}$$

n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR	n <sub>2</sub> [min <sup>-1</sup> ]	FA	FR
250	600	3000	75	890	4450	15	1660	8300
150	700	3500	50	1140	5700			
100	780	3900	25	1330	6650			

**F<sub>R</sub>** 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 <sub>1</sub> [min <sup>-1</sup> ]	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

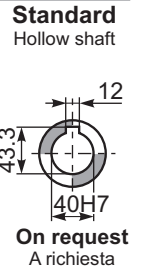
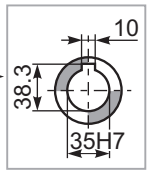
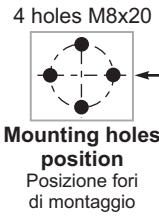
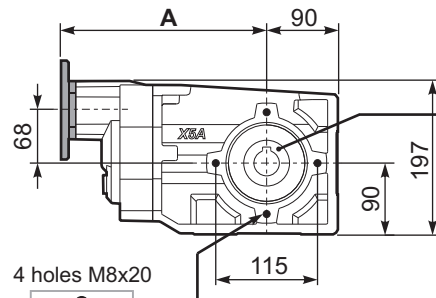
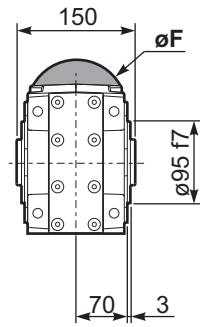
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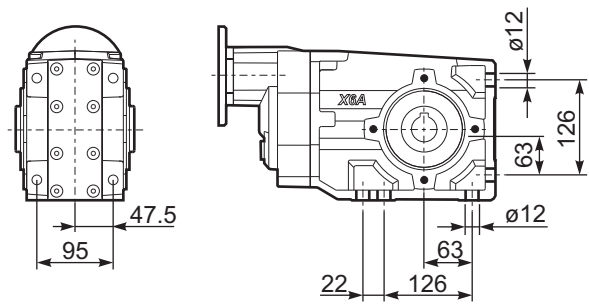
**PX63A-C...** Basic Gearbox  
Riduttore base

Gearbox weight  
peso riduttore **15.98 kg**

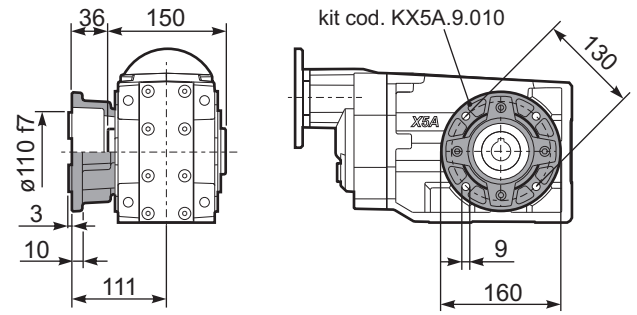
M. flanges	Kit code	øF	A
<b>63B5</b>	K063.4.041	140	265
<b>71B5</b>	K063.4.042	160	263
<b>80/90B5</b>	K063.4.043	200	265
<b>71B14</b>	K063.4.047	105	263
<b>80B14</b>	K063.4.046	120	264
<b>90B14</b>	K063.4.041	140	265



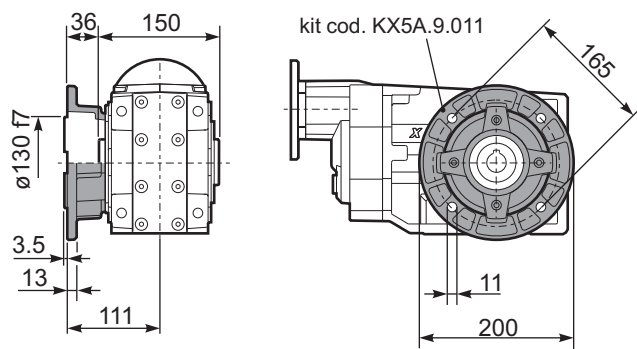
**PX63A-N..** Feet  
Piedini



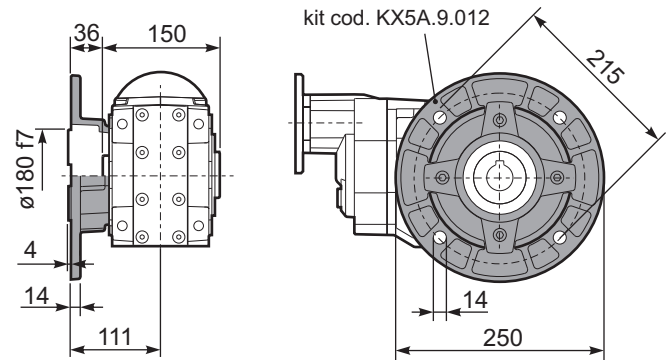
**PX63A-F2..** Output flange  
Flangia uscita



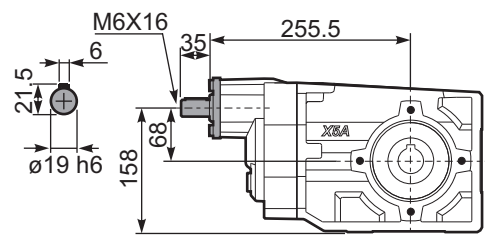
**PX63A-F3..** Output flange  
Flangia uscita



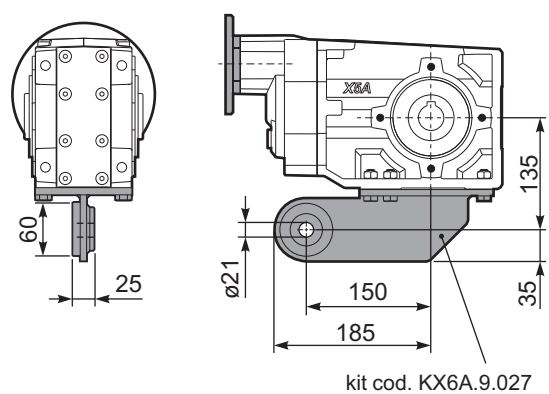
**PX63A-F4..** Output flange  
Flangia uscita



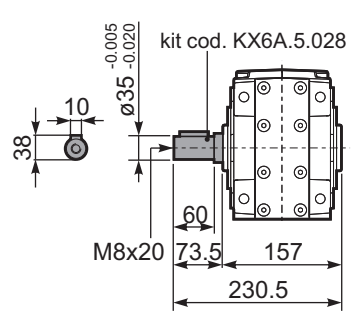
**RX63A...** Input shaft  
Albero in entrata



**PX63A-BR..** Reaction Arm  
Braccio di reazione

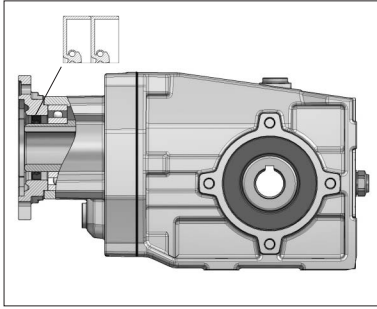


**PX63A..A..** Single output shaft  
Albero semplice in uscita



ACCESSORIES AND OPTIONS / ACCESSORI E VARIANTI

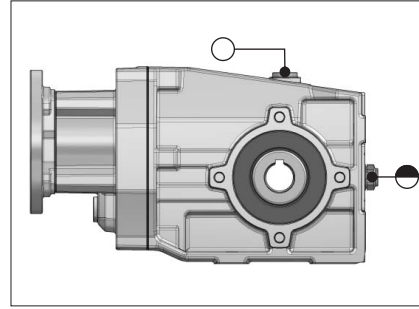
AC



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

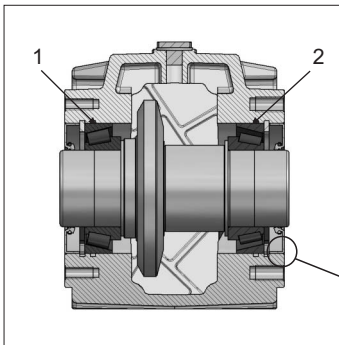
Double input seal.  
Doppio anello di tenuta in entrata.

AD



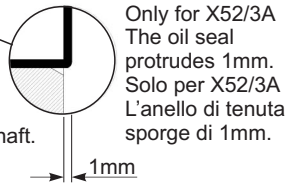
Gearbox lubricated with mineral oil and breather plug.  
Riduttore lubrificato con olio minerale e tappo di sfiato.

AH

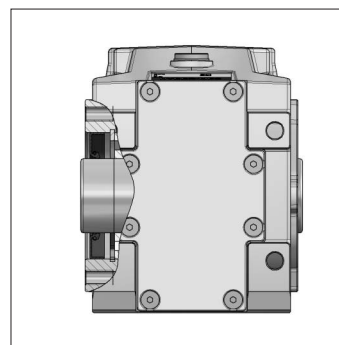


	1	2
X22S	32006X	32006X
X32/3S	32008X	32008X
X42/3A	32009X	32009X
X52/3A	32010X	32010X
X62/3A	32011X	32011X

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



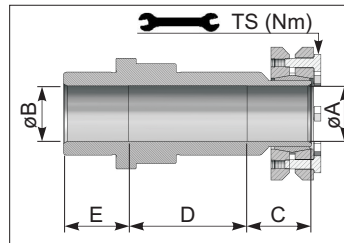
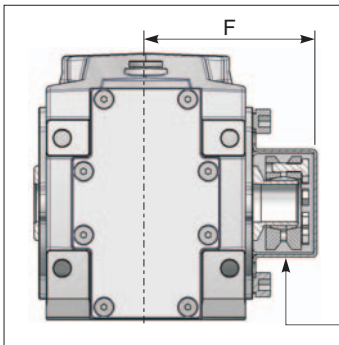
AE



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

	Type
X22S	30x55x7
X32/3S	40x68x8
X42/3A	45x75x8
X52/3A	50x80x8
X62/3A	55x90x8

AK

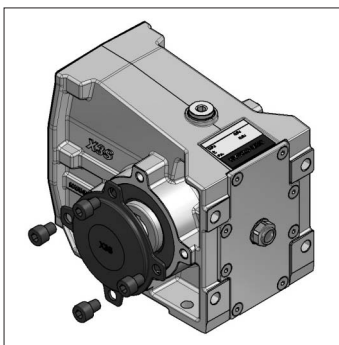


	øA H7	øB H7	C	D	E	F	TS Nm
X22S	20	20.05	20	80	20	82	6
X32/3S	20	20.05	20	102	20	92	6
X42/3A	30	30.05	35	64.5	35	90	14.5
X52/3A	35	35.05	40	77	40	105	14.5
X62/3A	40	40.05	45	88.5	45	115	14.5

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.

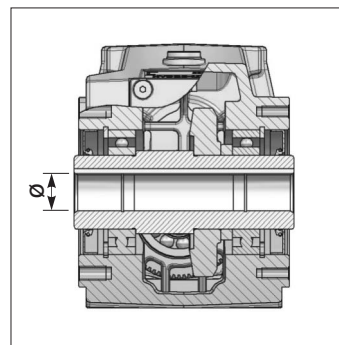
AP



	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

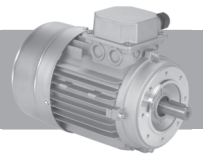


	ø H7
X22S	ø20
X32/3S	ø20
X42/3A	ø25
X52/3A	ø30
X62/3A	ø35

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



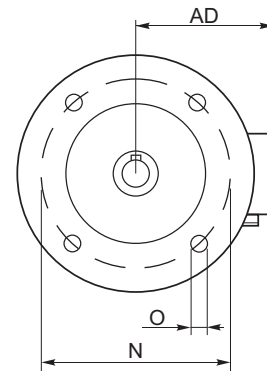
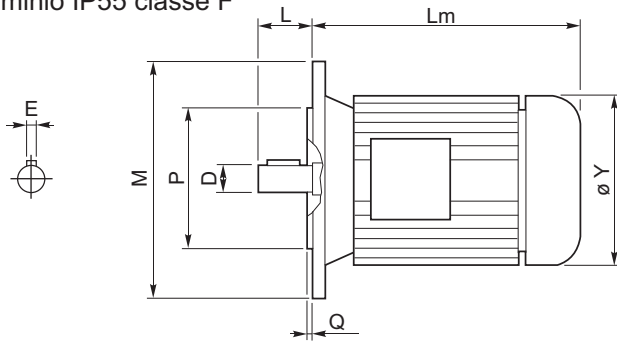
# Aluminum IEC motors



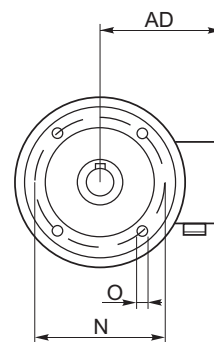
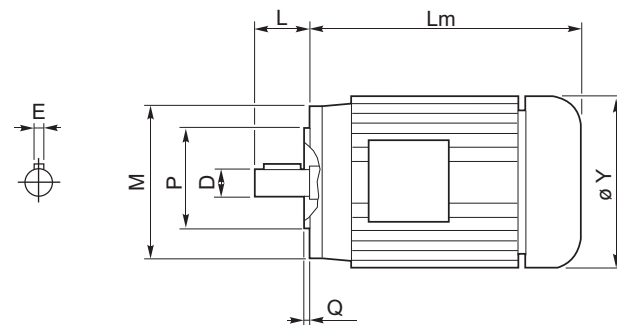
## Aluminum motor IP55 class F

Motori solo in alluminio IP55 classe F

**B5**



**B14**



Outside dimensions may be different according to manufacturers.

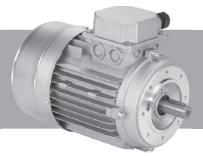
Le dimensioni esterne sono indicative, possono variare tra i vari costruttori.

	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	
<b>56 A</b>	0.09	0.32	0.38	0.06	0.44	0.27	—	—	—	9	3	20	179	108	96	80	100	120	7	2.5	50	65	80	M5	2.5	2.7
<b>56 B</b>	0.12	0.42	0.46	0.09	0.67	0.37	—	—	—	9	3	20	179	108	96	80	100	120	7	2.5	50	65	80	M5	2.5	2.9
<b>63 A</b>	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
<b>63 B</b>	0.25	0.87	0.76	0.18	1.30	0.69	0.12	1.32	0.74	11	4	23	185	120	99	95	115	140	9.5	3	60	75	90	M5	2.5	4.2
<b>71 A</b>	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
<b>71 B</b>	0.55	1.90	1.54	0.37	2.52	1.14	0.25	2.72	1.10	14	5	30	225	141	107	110	130	160	9.5	3.5	70	85	105	M6	2.5	6.5
<b>80 A</b>	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
<b>80 B</b>	1.1	3.90	2.64	0.75	5.11	2.57	0.55	5.84	1.80	19	6	40	256	159	127	130	165	200	11.5	3.5	80	100	120	M6	3	10
<b>90 S</b>	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
<b>90 L</b>	2.2	7.50	4.46	1.5	10.2	3.61	1.1	11.6	3.45	24	8	50	280	170	135	130	165	200	11.5	3.5	95	115	140	M8	3	15
<b>100 LA</b>	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
<b>100 LB</b>	—	—	—	3.0	20.1	6.66	—	—	—	28	8	60	-	190	148	180	215	250	13	4	110	130	160	M8	3.5	22
<b>112 M</b>	4.0	13.4	8.10	4.0	26.7	8.55	2.2	22.6	5.30	28	8	60	321	210	164	180	215	250	13	4	110	130	160	M8	3.5	35
<b>132 S</b>	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
<b>132 M</b>	—	—	—	7.5	49.4	15.0	4.0	40.0	9.13	38	10	80	420	244	180	230	265	300	14	4	130	165	200	M10	4	51
	—	—	—	9.2	61.4	18.5	—	—	—	38	10	80	420	244	180	230	265	300	14	4	130	165	200	M10	4	51
<b>160 M</b>	—	—	—	11	72	21.5	—	—	—	42	12	110	503	335	246	250	300	350	18	5	—	—	—	—	—	79.2
<b>160 L</b>	—	—	—	15	98	29	—	—	—	42	12	110	547	335	246	250	300	350	18	5	—	—	—	—	—	97.5
<b>180 M</b>	—	—	—	18.5	121	35.5	—	—	—	48	14	110	602	366	266	250	300	350	19	5	—	—	—	—	—	170
<b>180 L</b>	—	—	—	22	144	42	—	—	—	48	14	110	602	366	266	250	300	350	19	5	—	—	—	—	—	170



**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.*



**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 Isolierungsklas se 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**

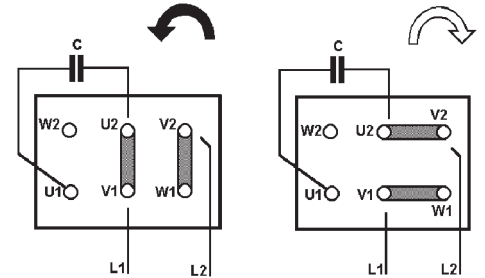
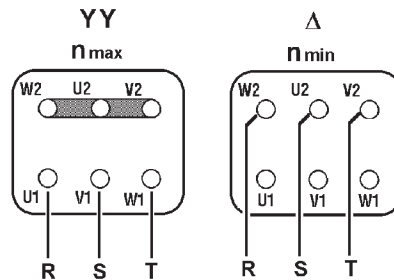
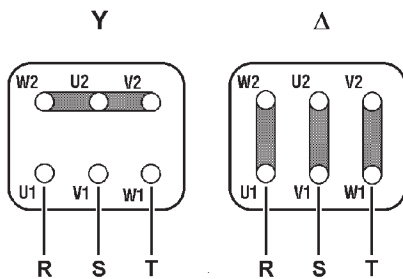
**Verbindungselemente**

**Conexiones**

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

Threephase asynchronous double 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.

**SELLING CONDITIONS**

Warranty for manufacturing defects will expire one-year the invoicing date. Hydro-Mec will replace or repair defective parts but will not accept any further changes for direct or indirect damages of any kind. The warranty will become null and void if repairs or changes are carried out without our prior written authorization.

**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.
- Assicurarsi 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.

**CONDIZIONI DI VENDITA**

La garanzia relativa a difetti di costruzione ha la durata di un anno dalla data di fatturazione della merce. Tale garanzia comporta per Hydro-mec l'onere della sostituzione o riparazione delle parti difettose ma non ammette ulteriori addebiti per eventuali danni diretti o indiretti di qualsiasi natura.

La garanzia decade nel caso in cui siano state eseguite riparazioni o apportate modifiche senza nostro consenso scritto.

**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..**

# HYDRO-MEC *A modern production of Modular products*



Worm gearboxes  
Rid. a vite senza fine



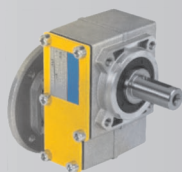
Square worm gearboxes  
Rid. a vite senza fine quadro



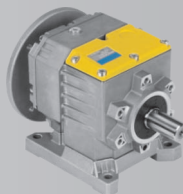
Stainless steel worm gearboxes  
Rid. a vite senza fine Inox



Stainless steel coaxial gearboxes  
Riduttori coassiali Inox



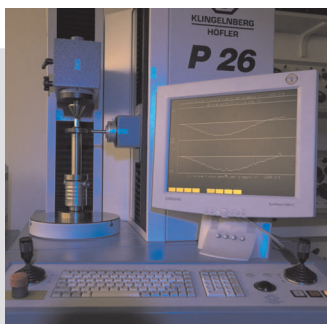
One step gearboxes  
Riduttori ad uno stadio



Coaxial gearboxes  
Riduttori coassiali



Shaft mounted gearboxes  
Rid. ad assi paralleli



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

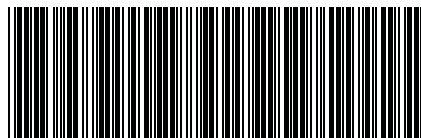
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**HYDRO-MEC**

Via della tecnica, 19  
36050 SOVIZZO (VI) ITALY

Tel. : +39 0444 551911  
Fax : +39 0444 536139

hydromec@hydromec.com



\* CT- BVM- X- HM10\*

