

Aluminum and cast iron helical bevel gearboxes

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

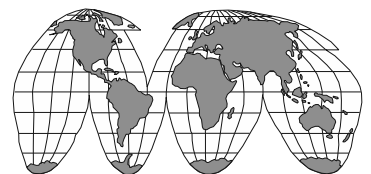
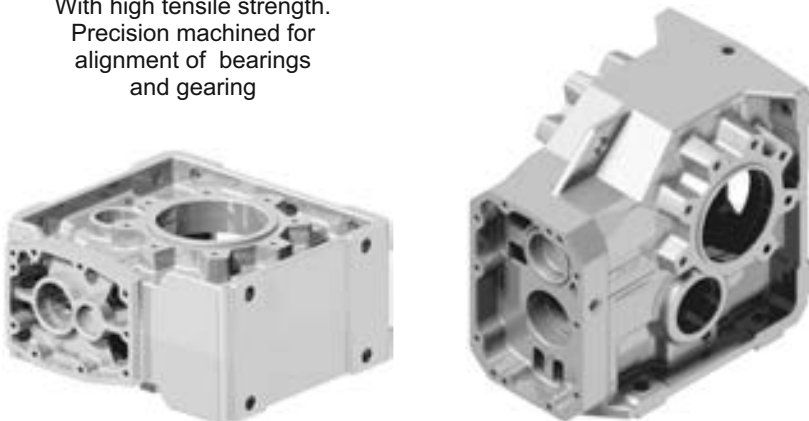
Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing

Flange

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

Cast Iron housing

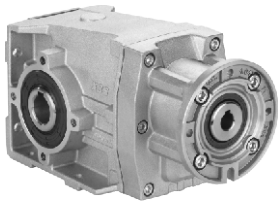
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World wide sales network.

Specific type datasheet on page...

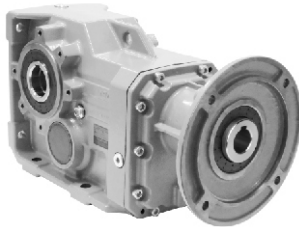
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Types / Tipi
Typen / Types
Tipos

7-5	7-7	7-9	7-11	7-13	7-15	7-17	7-19	7-21
X22S 50Nm	X32S 90Nm	X33S 100Nm	X42A 150Nm	X43A 160Nm	X52A 250Nm	X53A 250Nm	X62A 410Nm	X63A 410Nm

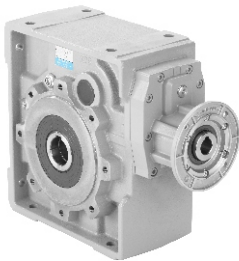
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Types / Tipi
Typen / Types
Tipos

7-31	7-33	7-35	7-37	7-39	7-41
X93C 1600Nm	X94C 1650Nm	X103 3000Nm	X104 3000Nm	X113 4500Nm	X114 4600Nm

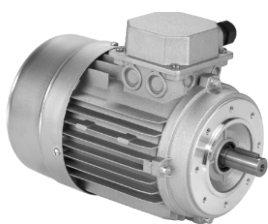
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Types / Tipi
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Tipos

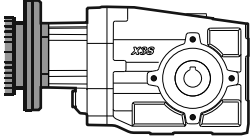
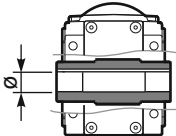
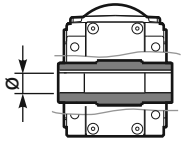
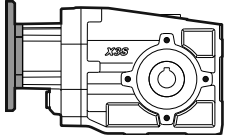
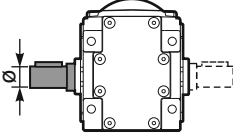
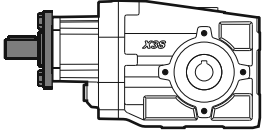
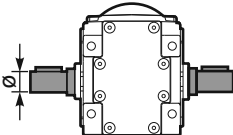
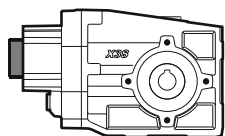
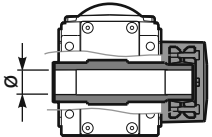
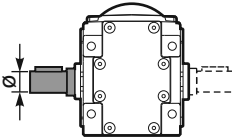
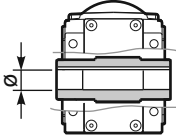
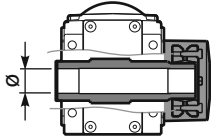
7-23	7-25	7-27	7-29
113C 675Nm	114C 675Nm	133C 1000Nm	134C 1000Nm

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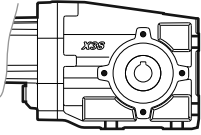
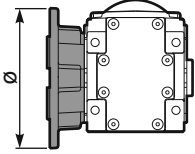






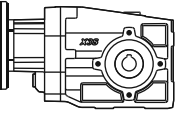

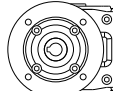
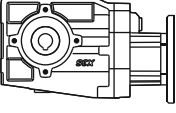
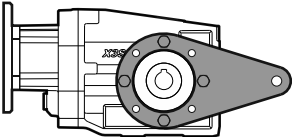
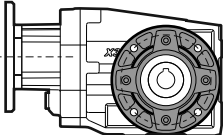

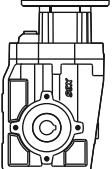
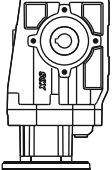
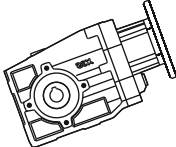
Types / Tipi
Typen / Types
Tipos

M-1									
56A 56B	63A 63B	71A 71B	80A 80B	90S 90L	100LA 100LB	112M	132S 132M	160M 160L	180M 180L

Type - Tipo - Typ Type - Tipo	Size - Grandezza - Größe Taille - Tomaño	Mounting - Montaggio Montage - Fixation Tipo de montaje	Rapporto - Ratio Untersetzung Reduction Relacion	Output shaft - Albero uscita Ausgangsflansch Arbre de sortie Brida en solida																														
M	X22S	C	4.83	-A																														
<p>Helical-bevel gear Riduttori ortogonali</p>  <p>With IEC motor</p> <p>M</p>	<p>2 Stages Riduzioni Stufen Trains Etapas</p> <p>3 Stages Riduzioni Stufen Trains Etapas</p> <p>Aluminum Alluminio Aluminium Aluminio</p>	 <p>Hollow output shaft</p> <p>C</p>	<p>See technical data table</p> <p>Vedi tabella dati tecnici.</p> <p>Technisches Datenblatt beachten</p> <p>Voir Tableau données techniques</p> <p>Ver tabla datos técnicos</p>	 <p>→ STANDARD</p> <p>Hollow output shaft</p> <table border="1" data-bbox="1209 555 1519 1070"> <tr> <td>X22S</td> <td>113C 114C</td> </tr> <tr> <td>-A ⇒ $\varnothing 18$</td> <td>-F ⇒ $\varnothing 40$</td> </tr> <tr> <td>-B ⇒ $\varnothing 20$</td> <td>-G ⇒ $\varnothing 42$</td> </tr> <tr> <td>X32S X33S</td> <td>133C 134C</td> </tr> <tr> <td>-B ⇒ $\varnothing 20$</td> <td>-F ⇒ $\varnothing 40$</td> </tr> <tr> <td>-C ⇒ $\varnothing 25$</td> <td>-H ⇒ $\varnothing 45$</td> </tr> <tr> <td>X42A X43A</td> <td>X93C X94C</td> </tr> <tr> <td>-C ⇒ $\varnothing 25$</td> <td>-H ⇒ $\varnothing 45$</td> </tr> <tr> <td>-D ⇒ $\varnothing 30$</td> <td>-J ⇒ $\varnothing 50$</td> </tr> <tr> <td>X52A X53A</td> <td>X103 X104</td> </tr> <tr> <td>-D ⇒ $\varnothing 30$</td> <td>-K ⇒ $\varnothing 60$</td> </tr> <tr> <td>-E ⇒ $\varnothing 35$</td> <td>X113 X114</td> </tr> <tr> <td>X62A X63A</td> <td>-T ⇒ $\varnothing 70$</td> </tr> <tr> <td>-E ⇒ $\varnothing 35$</td> <td></td> </tr> <tr> <td>-F ⇒ $\varnothing 40$</td> <td></td> </tr> </table>	X22S	113C 114C	-A ⇒ $\varnothing 18$	-F ⇒ $\varnothing 40$	-B ⇒ $\varnothing 20$	-G ⇒ $\varnothing 42$	X32S X33S	133C 134C	-B ⇒ $\varnothing 20$	-F ⇒ $\varnothing 40$	-C ⇒ $\varnothing 25$	-H ⇒ $\varnothing 45$	X42A X43A	X93C X94C	-C ⇒ $\varnothing 25$	-H ⇒ $\varnothing 45$	-D ⇒ $\varnothing 30$	-J ⇒ $\varnothing 50$	X52A X53A	X103 X104	-D ⇒ $\varnothing 30$	-K ⇒ $\varnothing 60$	-E ⇒ $\varnothing 35$	X113 X114	X62A X63A	-T ⇒ $\varnothing 70$	-E ⇒ $\varnothing 35$		-F ⇒ $\varnothing 40$	
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-F ⇒ $\varnothing 40$																																		
 <p>With motor flange</p> <p>P</p>	<p>X22S X32S X42A X52A X62A</p>	 <p>Single output shaft</p> <p>A</p>																																
 <p>With male input shaft</p> <p>R</p>	<p>X33S X43A X53A X63A</p>	 <p>Double output shaft only for 113/4C, 133/4C, X93/4C, X103/4 and X113/4</p> <p>B</p>																																
 <p>Modular base</p> <p>B</p> <p>Not available for: X93C, X103, X104, X113, X114.</p>	<p>3 Stages Riduzioni Stufen Trains Etapas</p> <p>4 Stages Riduzioni Stufen Trains Etapas</p> <p>Cast Iron Ghisa Grauguss Fonte Fundicion</p> <table border="1" data-bbox="379 1503 699 1742"> <tr> <td>113C</td> <td>114C</td> </tr> <tr> <td>133C</td> <td>134C</td> </tr> <tr> <td>X93C</td> <td>X94C</td> </tr> <tr> <td>X103</td> <td>X104</td> </tr> <tr> <td>X113</td> <td>X114</td> </tr> </table>	113C	114C	133C	134C	X93C	X94C	X103	X104	X113	X114	 <p>Shrink Disk (only on the DX side)</p> <p>D</p> <p>Only on request for Q.ty A richiesta per quantità</p>		 <p>Single and double output shaft</p> <table border="1" data-bbox="1209 1256 1519 1653"> <tr> <td>-I</td> <td>X22S X32/3S ⇒ $\varnothing 20$</td> </tr> <tr> <td>-L</td> <td>X32/3S X42/3A ⇒ $\varnothing 25$</td> </tr> <tr> <td>-M</td> <td>X52/3A ⇒ $\varnothing 30$</td> </tr> <tr> <td>-N</td> <td>X52/3A X62/3A ⇒ $\varnothing 35$</td> </tr> <tr> <td>-V</td> <td>113/4C ⇒ $\varnothing 40^*$</td> </tr> <tr> <td>-O</td> <td>113/4C ⇒ $\varnothing 42^*$</td> </tr> <tr> <td>-P</td> <td>133/4C ⇒ $\varnothing 45^*$</td> </tr> <tr> <td>-1</td> <td>X93/4C ⇒ $\varnothing 50^*$</td> </tr> <tr> <td>-3</td> <td>X103/4 ⇒ $\varnothing 60^*$</td> </tr> <tr> <td>-5</td> <td>X113/4 ⇒ $\varnothing 70^*$</td> </tr> </table> <p>* Also available double output shaft</p>	-I	X22S X32/3S ⇒ $\varnothing 20$	-L	X32/3S X42/3A ⇒ $\varnothing 25$	-M	X52/3A ⇒ $\varnothing 30$	-N	X52/3A X62/3A ⇒ $\varnothing 35$	-V	113/4C ⇒ $\varnothing 40^*$	-O	113/4C ⇒ $\varnothing 42^*$	-P	133/4C ⇒ $\varnothing 45^*$	-1	X93/4C ⇒ $\varnothing 50^*$	-3	X103/4 ⇒ $\varnothing 60^*$	-5	X113/4 ⇒ $\varnothing 70^*$
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-M	X52/3A ⇒ $\varnothing 30$																																	
-N	X52/3A X62/3A ⇒ $\varnothing 35$																																	
-V	113/4C ⇒ $\varnothing 40^*$																																	
-O	113/4C ⇒ $\varnothing 42^*$																																	
-P	133/4C ⇒ $\varnothing 45^*$																																	
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-3	X103/4 ⇒ $\varnothing 60^*$																																	
-5	X113/4 ⇒ $\varnothing 70^*$																																	
		 <p>Stainless steel hub</p> <p>I</p> <p>Stainless steel hub Mozzo in acciaio Inox Edelstahlhohlwelle Moyeu en acier Inox Nucleo corona de acero Inox</p> <p>Only on request for Q.ty A richiesta per quantità</p>		 <p>Shrink Disk</p> <table border="1" data-bbox="1209 1861 1519 2152"> <tr> <td>-U</td> <td>X22S X32/3S ⇒ $\varnothing 20$</td> </tr> <tr> <td>-Q</td> <td>X42/3A ⇒ $\varnothing 30$</td> </tr> <tr> <td>-R</td> <td>X52/3A ⇒ $\varnothing 35$</td> </tr> <tr> <td>-S</td> <td>X62/3A 113/4C ⇒ $\varnothing 40$</td> </tr> <tr> <td>-6</td> <td>133/4C ⇒ $\varnothing 45$</td> </tr> <tr> <td>-7</td> <td>X93/4C ⇒ $\varnothing 50$</td> </tr> <tr> <td>-8</td> <td>X103/4 ⇒ $\varnothing 65$</td> </tr> <tr> <td>-9</td> <td>X113/4 ⇒ $\varnothing 75$</td> </tr> </table>	-U	X22S X32/3S ⇒ $\varnothing 20$	-Q	X42/3A ⇒ $\varnothing 30$	-R	X52/3A ⇒ $\varnothing 35$	-S	X62/3A 113/4C ⇒ $\varnothing 40$	-6	133/4C ⇒ $\varnothing 45$	-7	X93/4C ⇒ $\varnothing 50$	-8	X103/4 ⇒ $\varnothing 65$	-9	X113/4 ⇒ $\varnothing 75$														
-U	X22S X32/3S ⇒ $\varnothing 20$																																	
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-R	X52/3A ⇒ $\varnothing 35$																																	
-S	X62/3A 113/4C ⇒ $\varnothing 40$																																	
-6	133/4C ⇒ $\varnothing 45$																																	
-7	X93/4C ⇒ $\varnothing 50$																																	
-8	X103/4 ⇒ $\varnothing 65$																																	
-9	X113/4 ⇒ $\varnothing 75$																																	



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern
 Sur demande nos produits peuvent se conformer à la réglementation ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Type - Tipo - Typ Type - Tipo	Output flange Flangia di uscita Ausgangs Flansch Bride de sortie Brida en salida	Motor size - Grandezza motore Motor Grösse Grandeur moteur - Tamaño motor	Terminal box position Posizione morsettieria Klemmkastenlage Position boîte à bornes Posición caja de bornes	Mounting position Posizione montaggio Einbaulage Position de montage Posición de montaje
BR	N	-O	B	B3
 <p>FB Forma base Universal</p>		<p>Flange Flangia </p> <p>B5</p> <p>-A=56 (ø120) -B=63 (ø140) -C=71 (ø160) -D=80 (ø200) -E=90 (ø200) -F=100+112 (ø250) -G=132 (ø300) -H=160 (ø350) -I=180 (ø350) -L=200 (ø400) CA=225 (ø450)</p>	<p>Without flange Senza flangia </p> <p>X22S X33S X43A</p> <p>-Z ⇨ ø9 (56B5) -0 ⇨ ø11 (63B5) -1 ⇨ ø14 (71B5)</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-1 ⇨ ø14 (71B5) -2 ⇨ ø19 (80B5) -3 ⇨ ø24 (90B5)</p> <p>X52A X62A 113C 133C X94C</p> <p>-2 ⇨ ø19 (80B5) -3 ⇨ ø24 (90B5) -4 ⇨ ø28 (100B5)</p>	
 <p>BR Braccio di reazione Reaction arm</p>	<p>N Senza flangia Without flange</p> <p>X22S</p> <p>0 ⇨ ø110 1 ⇨ ø120</p>	<p>B14</p> <p>-O=56 (ø80) -P=63 (ø90) -Q=71 (ø105) -R=80 (ø120) -T=90 (ø140) -U=100+112 (ø160) -V=132 (ø200)</p>	<p>A</p>	<p>B3 STANDARD</p>
 <p>-F Flangia uscita output flange</p>	<p>X32S X33S</p> <p>1 ⇨ ø120 2 ⇨ ø160</p> <p>X42-3A X52-3A X62-3A</p> <p>2 ⇨ ø160 3 ⇨ ø200 4 ⇨ ø250</p> <p>113C 114C X93C X94C</p> <p>C ⇨ ø280 L ⇨ ø280</p> <p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>X22S X33S X43A</p> <p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p>	<p>B STANDARD</p>	<p>B6</p>
	<p>X42-3A X52-3A X62-3A</p> <p>2 ⇨ ø160 3 ⇨ ø200 4 ⇨ ø250</p> <p>113C 114C X93C X94C</p> <p>C ⇨ ø280 L ⇨ ø280</p> <p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>X52A X62A 113C 133C X94C</p> <p>-2 ⇨ ø19 (80B5) -3 ⇨ ø24 (90B5) -4 ⇨ ø28 (100B5)</p>	<p>C</p>	<p>B7</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>Type R Tipo R </p> <p>X22S X33S X43A</p> <p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>
	<p>133C 134C</p> <p>C ⇨ ø320</p> <p>X103 X104</p> <p>6 ⇨ ø350</p> <p>X113 X114</p> <p>7 ⇨ ø450</p>	<p>-1 ⇨ ø14</p> <p>X32S X42A X53A X63A 114C 134C</p> <p>-2 ⇨ ø19</p> <p>X52A X62A 113C 133C X94C</p> <p>-3 ⇨ ø24</p> <p>X93C X104 X114</p> <p>-4 ⇨ ø28</p> <p>X103 X113</p> <p>-6 ⇨ ø42</p>	<p>D</p>	<p>B8</p>

POTENZA RICHIESTA / REQUIRED POWER / ERFORDERLICHE LEISTUNG / PUISSANCE NECESSAIRE / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / levage / elevación

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

Rotation / rotazione / drehung / rotation / rotação

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

Linear movement / traslazione / linearbewegung / translation / translación

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

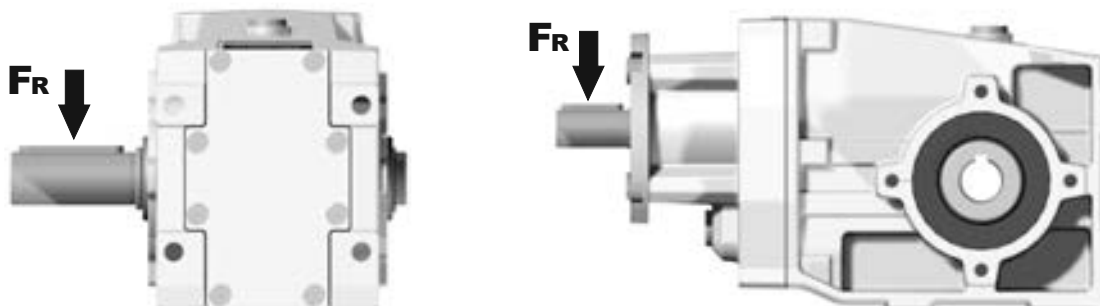
TORQUE / COPPIA / DREHMOMENT / COUPLE / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CHARGES RADIALES / 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.
- Charge radiale générée par la transmissions calés sur les entrées et / ou des arbres de sortie
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



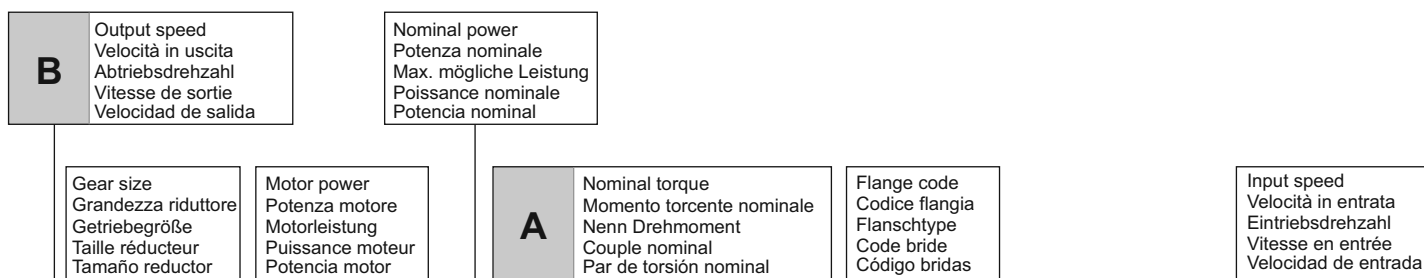
$$F_R [N] = \frac{M [Nm] \cdot 2000}{d [mm]} \cdot f_k$$

$$F_R [N] = \frac{M [lb in] \cdot 8.9}{d [in]} \cdot f_k$$

M	Momento torcente / Output torque / Abtriebsdrehmoment / Couple / Par torsion
d	Diametro primitivo / Diam. of driving element / Durchmesser der Abtriebseinheit / Diamètre primitif / Diámetro primitivo
f_k	Coefficiente di trasformazione / Factor / Faktor / Coefficient de transmission / Coeficiente de transmisión 1.15 Ingranaggi / Gearwheels / Zahnrad / Engrenage / Engranaje 1.25 Catena / Chain sprockets / Antriebskette / Chaîne / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Keilriemen / Courroie trap. / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / Flachzahnriem. / Courroie crantée / 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.
- Si votre application demande des charges radiales supérieures, s'adresser à notre bureau technique.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

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



X22S Angletech Gear **50Nm** Rating - Aluminum
HELICAL-BEVEL GEARBOXES

QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-O	-P	-Q		
289.7	4.83	0.37	11.7	2.6	0.95	30	63	71	C	C		289	01
189.2	7.40	0.37	17.9	1.7	0.62	30			C	C		287	02
146.2	9.58	0.37	23.2	1.7	0.64	40			C	C		199	03
127.5	10.98	0.37	26.6	1.7	0.63	45			C	C		179	04



fs

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

D Motor flange available
Flange disponibili
Erhältliche Motorflansche
Brides disponibles
Bridas disponibles

B) Mounting with reduction ring
Montaggio con boccia di riduzione
Reduzierhülsen
Montage avec douille de réduction
Montaje con casquillo de reducción

C) Motor flangeholes position/terminal box position
Posizione fori flangia/basetta motore
Bohrungsposition am Motorflansch/-sockel
Position trous bride/barrette à bornes moteur
Posición agujeros brida / base motor

B) Available without reduction bushes
Disponibile anche senza boccia
Auch ohne Reduzierbuchse verfügbar
Disponible aussi sans douille de réduction
Disponible tambien sin casquillo

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



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-O	-P	-Q		
							63	71	56	63	71		
290	4.83	0.37	12	2.6	0.95	30			C	C		289	01
189	7.40	0.37	18	1.7	0.62	30			C	C		287	02
146	9.58	0.37	23	1.7	0.64	40			C	C		199	03
128	10.98	0.37	27	1.7	0.63	45			C	C		179	04
107	13.07	0.37	32	1.4	0.53	45			C	C		159	05
95	14.66	0.37	35	1.3	0.47	45			C	C		197	06
89	15.79	0.37	38	1.2	0.44	45			C	C		139	07
83	16.81	0.37	41	1.1	0.41	45			C	C		177	08
70	20.00	0.37	48	1.0	0.37	48			C	C		157	09
64	21.93	0.37	53	0.9	0.35	50			C	C		109	10
58	24.18	0.25	39	1.3	0.32	50			C	C		137	11
48.2	29.04	0.25	47	1.1	0.26	50			C	C		99	12
41.7	33.57	0.18	42	1.2	0.23	50			C	C		107	13
36.2	38.67	0.18	48	1.0	0.20	50			C	C		79	14
31.5	44.44	0.18	55	0.9	0.17	50			C	C		97	15
23.7	59.18	0.12	48	1.0	0.13	50			C	C		77	16
19.9	70.24	0.09	45	1.1	0.11	50			C	C		67	17

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.

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.

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.

F Le réducteur **X22S** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **X22S** 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.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.25 LT	0.25 LT	0.25 LT	0.25 LT	0.43 LT	0.31 LT	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

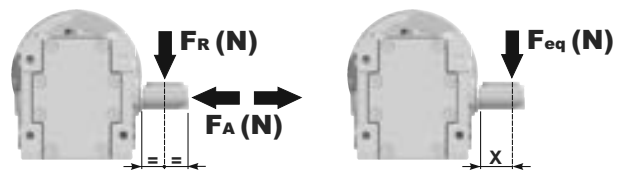
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

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

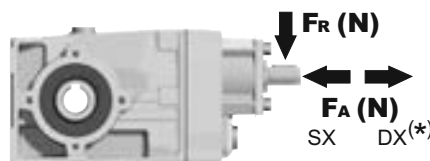


n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
400	360	1800	100	440	2200	25	440	2200
250	380	1900	75	440	2200	15	440	2200
150	420	2100	50	440	2200			

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

Input shaft

albero in entrata



n ₁ [min ⁻¹]	FA	FR
1400	140	700
900	160	800
500	190	950

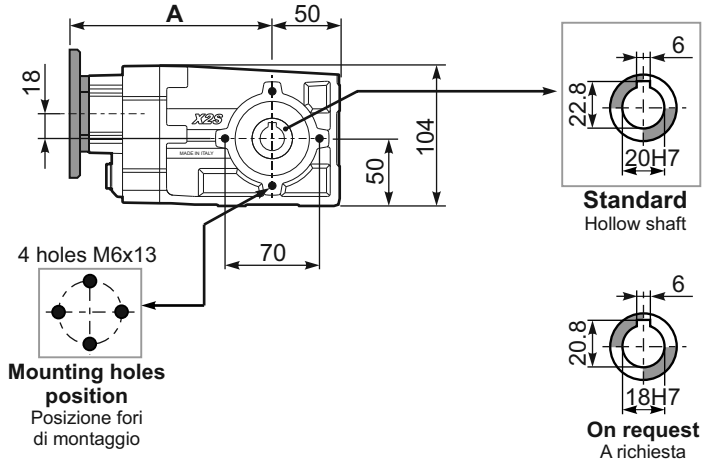
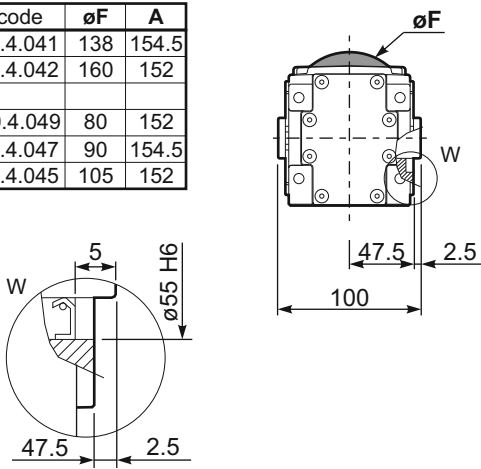
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

PX22SC... Basic Gearbox
Riduttore base

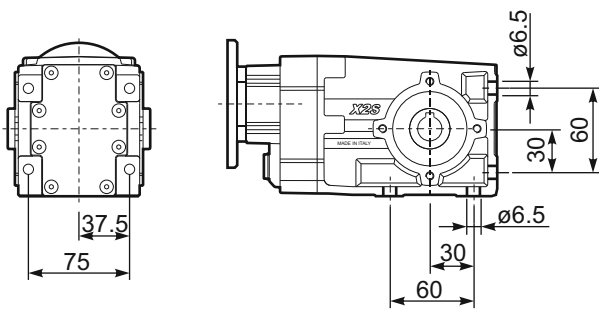
Gearbox weight
peso riduttore **3.70 kg**

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

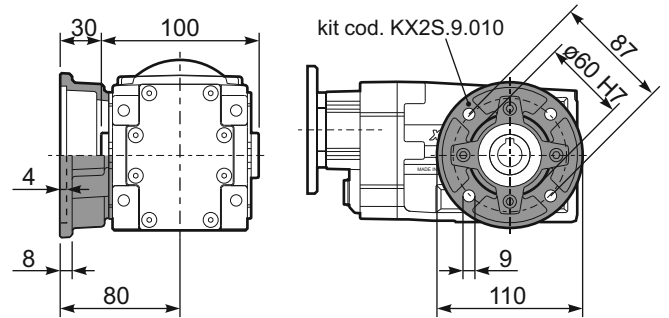


Mounting holes position
Posizione fori di montaggio

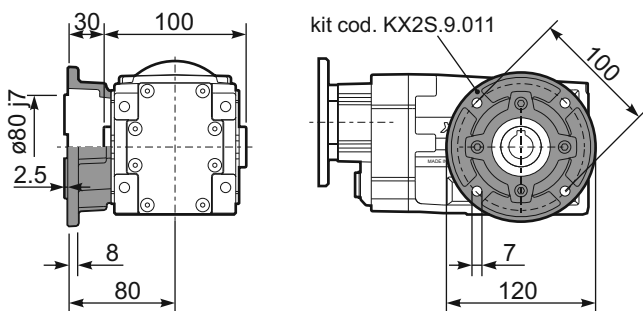
PX22S..-N.. Feet
Piedini



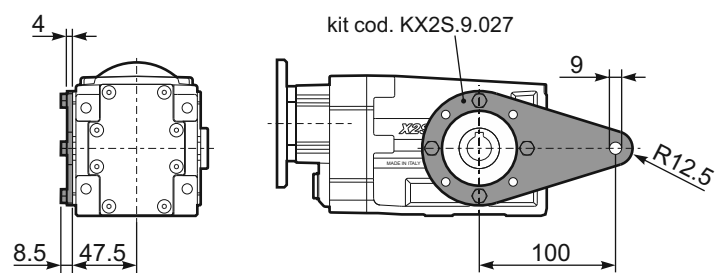
PX22S-F0.. Output flange
Flangia uscita



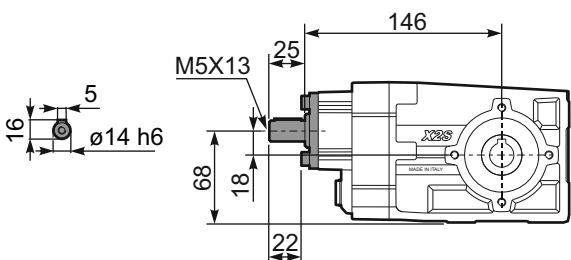
PX22S-F1.. Output flange
Flangia uscita



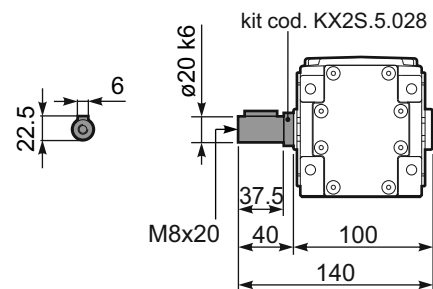
PX22SBR.. Reaction Arm
Braccio di reazione

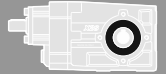


RX22S.. Input shaft
Albero in entrata



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





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
							63	71	80	90	71	80	90		
191	7.33	1.5	72	1.0	1.5	70	B				C	C		289	01
125	11.22	1.1	80	1.1	1.2	85	B				C	C		287	02
106	13.26	1.1	95	0.9	0.98	85	B				C	C		199	03
91	15.37	1.1	110	0.8	0.89	90	B				C	C		179	04
78	18.04	0.75	89	1.0	0.76	90	B				C	C		159	05
69	20.30	0.75	100	0.9	0.68	90	B				C	C		197	06
65	21.54	0.75	106	0.9	0.64	90	B				C	C		139	07
59	23.53	0.55	85	1.1	0.58	90	B				C	C		177	08
51	27.62	0.55	100	0.9	0.50	90	B				C	C		157	09
47.6	29.40	0.55	106	0.8	0.47	90	B				C	C		109	10
42.5	32.97	0.37	80	1.1	0.42	90	B				C	C		137	11
36.5	38.37	0.37	93	1.0	0.36	90	B				C	C		99	12
31.1	45.00	0.25	73	1.2	0.31	90	B				C	C		107	13
27.6	50.67	0.25	83	1.1	0.27	90	B				C	C		79	14
23.8	58.73	0.18	73	1.2	0.23	90	B				C	C		97	15
18.1	77.55	0.18	97	0.9	0.18	90	B				C	C		77	16

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.

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.

D Das Getriebe **X32S** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **X32S** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

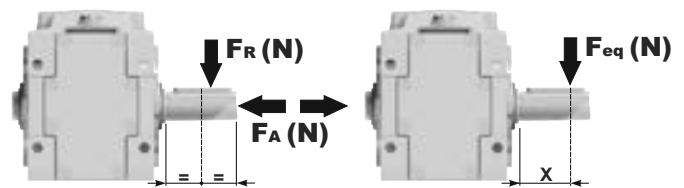
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
0.40 LT	0.60 LT	0.40 LT	0.60 LT	0.85 LT	0.60 LT	Ask	
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

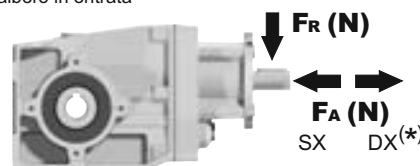
$$F_{eq} = F_R \cdot \frac{47.5}{X+28.5}$$



n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	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 ₁ [min ⁻¹]	FA	FR
1400	240	1200
900	280	1400
500	340	1700

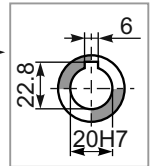
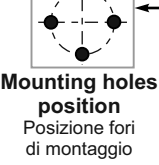
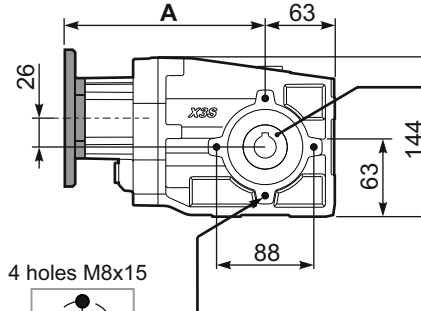
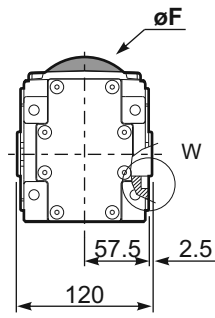
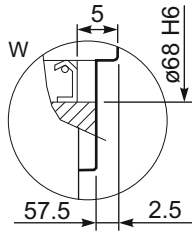
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

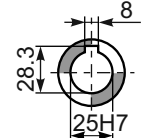
PX32SC... Basic Gearbox
Riduttore base

Gearbox weight 6.30 kg
peso riduttore

M. flanges	Kit code	ϕF	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	184
90B14	K063.4.041	140	184

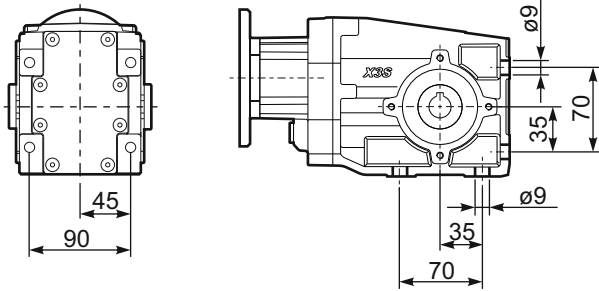


Standard
Hollow shaft

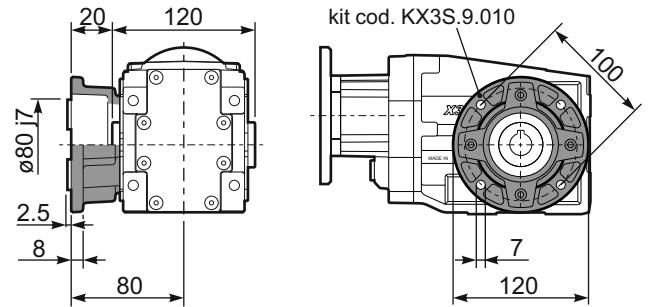


On request
A richiesta

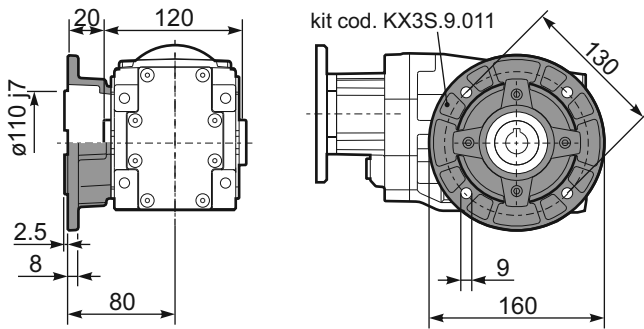
PX32S..-N.. Feet
Piedini



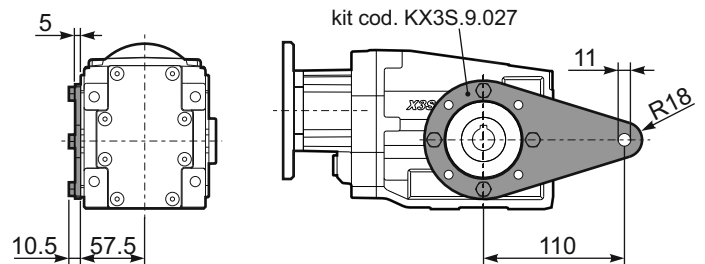
PX32S-F1.. Output flange
Flangia uscita



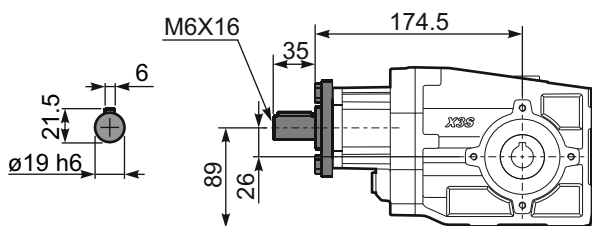
PX32S-F2.. Output flange
Flangia uscita



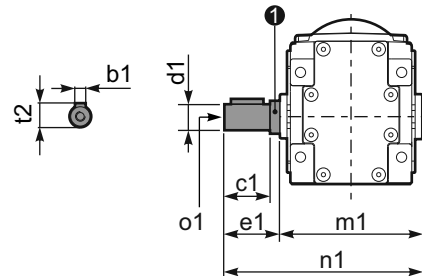
PX32SBR.. Reaction Arm
Braccio di reazione



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
$\phi 20_{-0.020}^{-0.005}$	6	37.5	40	120	160	22.5	M8x20	KX2S.5.028
$\phi 25_{-0.020}^{-0.005}$	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 (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-O	-P	-Q		
							63	71	56	63	71		
38.7	36.17	0.37	86	1.2	0.43	100			C	C		17179	02
31.7	44.21	0.37	105	1.0	0.35	100			C	C		19139	03
27.6	50.68	0.25	81	1.2	0.31	100			C	C		17139	04
25.3	55.36	0.25	89	1.1	0.28	100			C	C		17177	05
23.2	60.31	0.25	96	1.0	0.26	100			C	C		15139	06
21.2	65.88	0.25	105	0.9	0.24	100			C	C		15177	07
19.4	72.25	0.18	88	1.1	0.22	100			C	C		10179	08
17.6	79.64	0.18	97	1.0	0.20	100			C	C		13177	09
15.2	92.31	0.18	113	0.9	0.17	100			C	C		15137	10
14.6	95.65	0.18	117	0.9	0.16	100			C	C		9179	11
13.8	101.23	0.12	80	1.2	0.15	100			C	C		10139	12
11.0	127.37	0.12	101	1.0	0.12	100			C	C		7179	13
9.3	151.16	0.09	95	1.0	0.10	100			C	C		6179	14
7.8	178.46	0.09	113	0.9	0.09	100			C	C		7139	15
6.6	211.79	0.06	88	1.1	0.07	100			C	C		6139	16
6.1	231.37	0.06	96	1.0	0.07	100			C	C		6177	17
5.1	273.16	0.06	113	0.9	0.06	100			C	C		7137	18
4.3	324.18	0.06	134	0.7	0.05	100			C	C		6137	19

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.

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.

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.

F Le réducteur **X33S** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

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	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

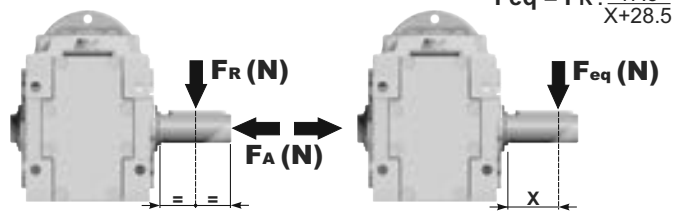
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

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

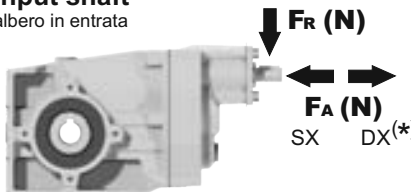


n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
250	400	2000	75	560	2800	15	560	2800
150	450	2250	50	560	2800			
100	500	2500	25	560	2800			

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 ₁ [min ⁻¹]	FA	FR
1400	140	700
900	160	800
500	190	950

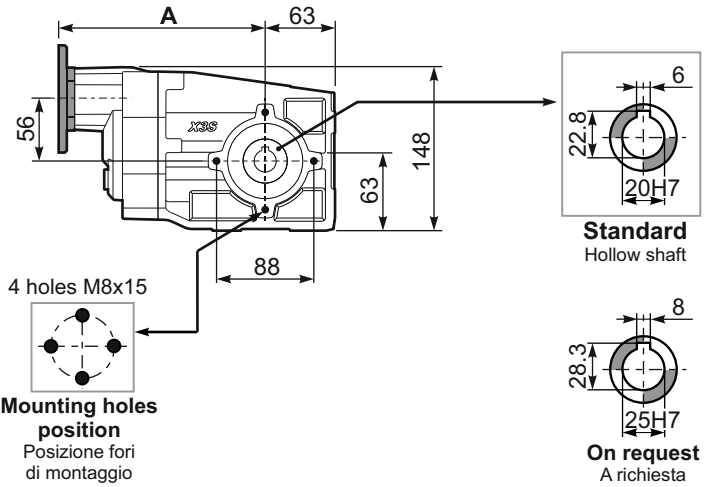
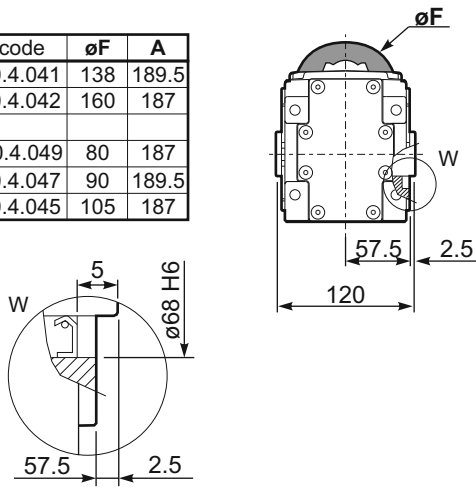
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

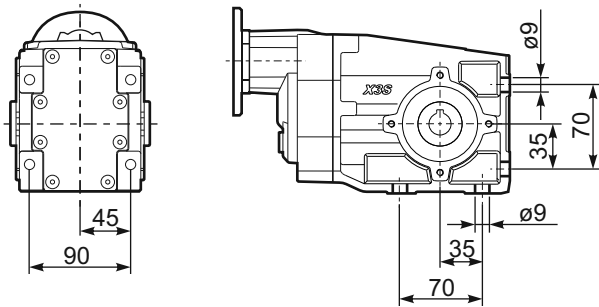
PX33SC... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **6.55 kg**

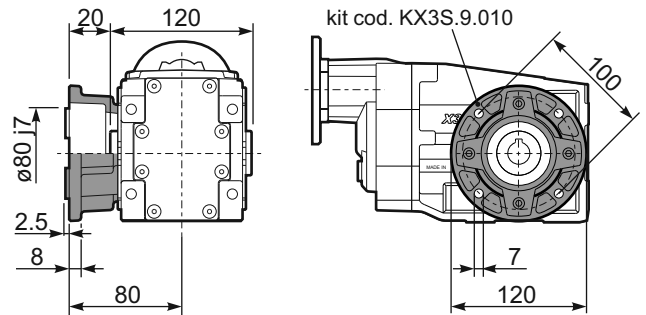
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	189.5
71B5	K050.4.042	160	187
56B14	KC40.4.049	80	187
63B14	K050.4.047	90	189.5
71B14	K050.4.045	105	187



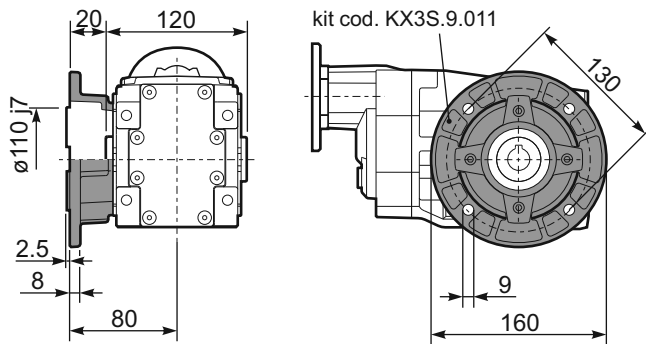
PX33S-N.. Feet
Piedi



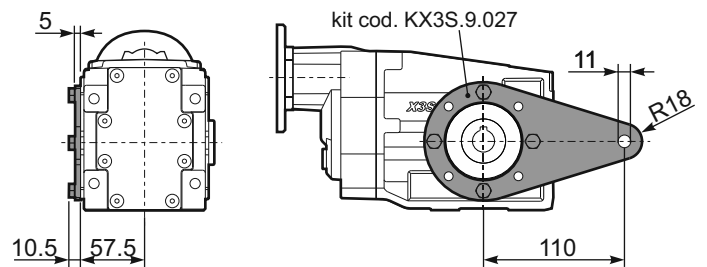
PX33S-F1.. Output flange
Flangia uscita



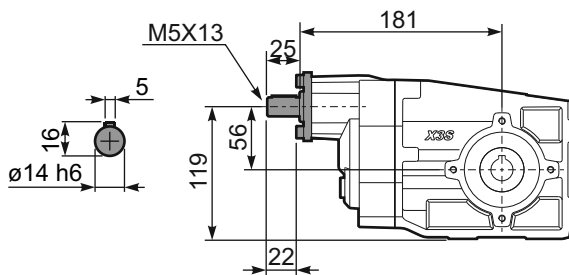
PX33S-F2.. Output flange
Flangia uscita



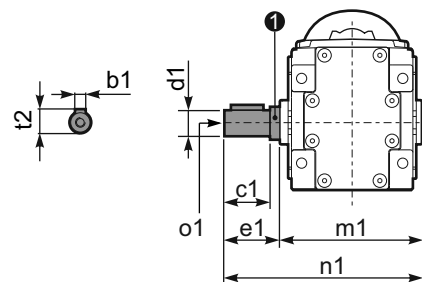
PX33SBR.. Reaction Arm
Braccio di reazione



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 ^{-0.005/-0.020}	6	37.5	40	120	160	22.5	M8x20	KX2S.5.028
ø25 ^{-0.005/-0.020}	8	60	63.2	126.8	190	28	M8x20	K063.5.028



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft 	Ratios code
							-B	-C	-D	-E	-F	-Q	-R	-T	-U		
							63	71	80	90	100	112	71	80	90		
192	7.29	2.2	104	0.9	2.0	95	B					C	C			2811	01
125	11.20	2.2	159	0.9	2.0	150	B					C	C			288	02
106	13.18	1.5	129	1.2	1.7	150	B					C	C			1911	03
92	15.27	1.1	109	1.4	1.5	150	B					C	C			1711	04
78	17.93	1.1	128	1.2	1.3	150	B					C	C			1511	05
69	20.25	1.1	145	1.0	1.1	150	B					C	C			198	06
65	21.40	1.1	153	1.0	1.1	150	B					C	C			1311	07
60	23.47	0.75	115	1.3	0.98	150	B					C	C			178	08
51	27.55	0.75	135	1.1	0.83	150	B					C	C			158	09
47.9	29.21	0.75	143	1.0	0.78	150	B					C	C			1011	10
42.6	32.88	0.75	161	0.9	0.70	150	B					C	C			138	11
36.7	38.12	0.55	138	1.1	0.60	150	B					C	C			911	12
31.2	44.89	0.55	163	0.9	0.51	150	B					C	C			108	13
27.8	50.34	0.37	122	1.1	0.40	131	B					C	C			711	14
23.9	58.58	0.37	142	1.1	0.39	150	B					C	C			98	15
18.1	77.36	0.25	126	1.2	0.30	150	B					C	C			78	16

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.

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.

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.

F Le réducteur **X42A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

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	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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



n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	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 ₁ [min ⁻¹]	FA	FR
1400	240	1200
900	280	1400
500	340	1700

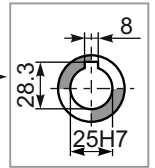
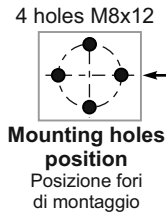
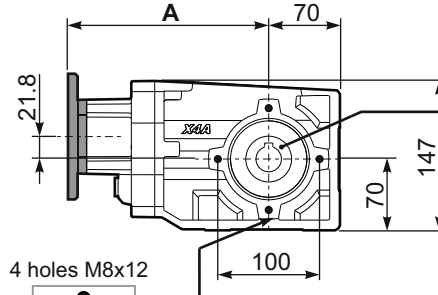
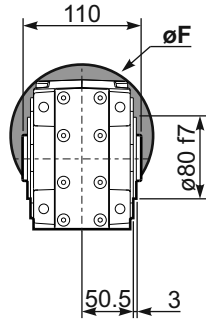
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

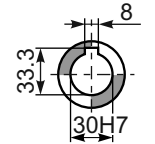
PX42AC... Basic Gearbox
Riduttore base

Gearbox weight **7.82 kg**
peso riduttore

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
100/112B5	KC40.4.043	250	214.3
71B14	K063.4.047	105	197.5
80B14	K063.4.046	120	199.5
90B14	K063.4.041	140	199.5
100/112B14	KC40.4.041	160	214.3

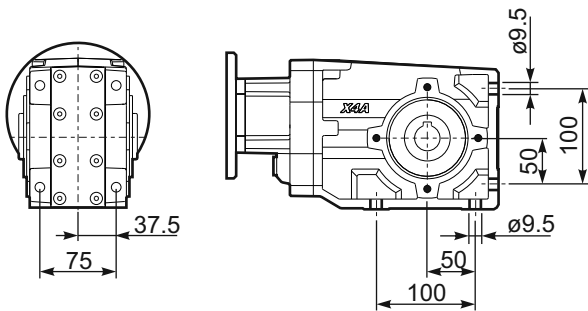


Standard
Hollow shaft

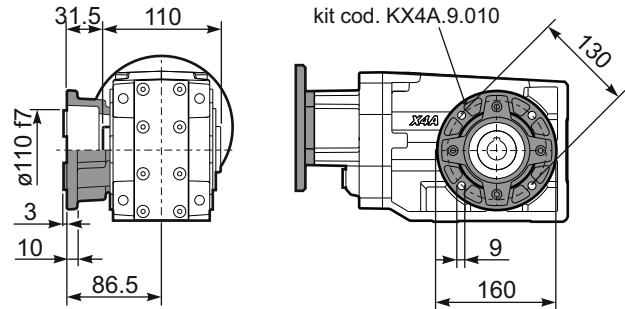


On request
A richiesta

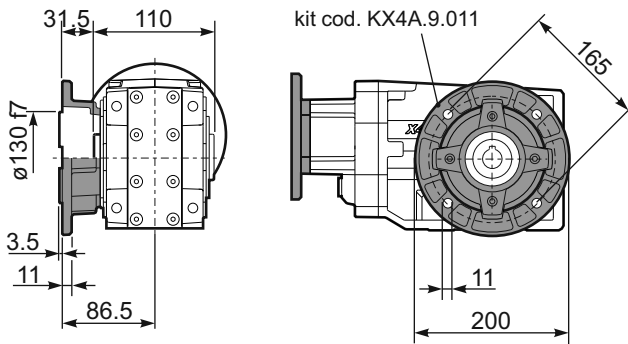
PX42A-N.. Feet
Piedini



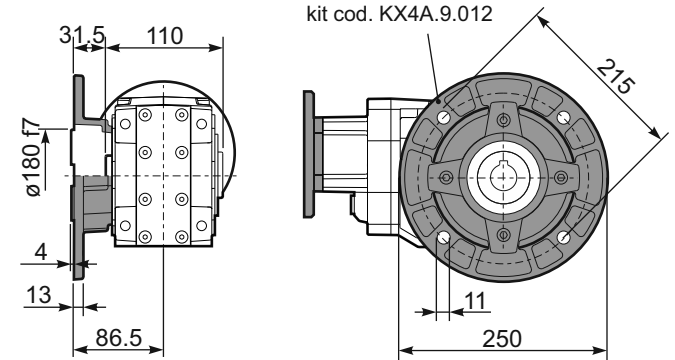
PX42A-F2.. Output flange
Flangia uscita



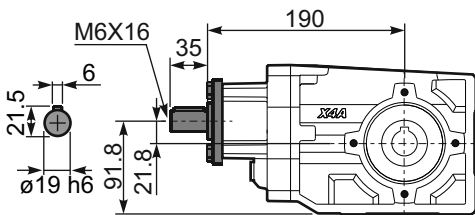
PX42A-F3.. Output flange
Flangia uscita



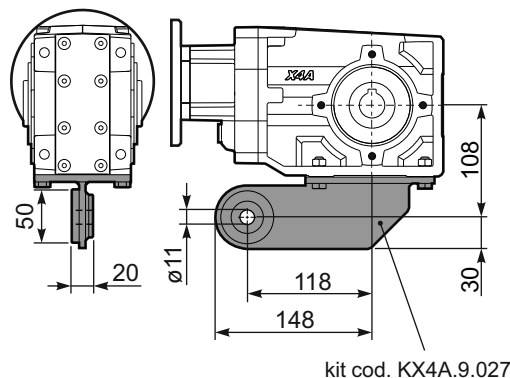
PX42A-F4.. Output flange
Flangia uscita



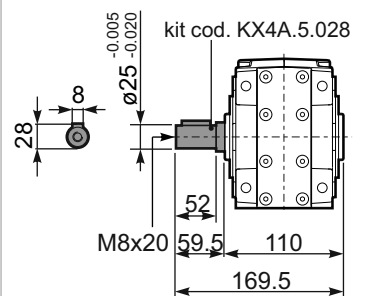
RX42A... Input shaft
Albero in entrata

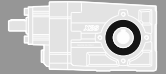


PX42ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.94** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-O	-P	-Q		
							63	71	56	63	71		
27.8	50.35	0.37	119	1.3	0.46	150			C	C		171311	01
25.4	55.22	0.37	131	1.1	0.42	150			C	C		17178	02
23.4	59.92	0.37	142	1.1	0.39	150			C	C		151311	03
21.3	65.72	0.37	156	1.0	0.36	150			C	C		15178	04
19.5	71.78	0.25	115	1.3	0.33	150			C	C		101711	05
17.6	79.44	0.25	127	1.2	0.29	150			C	C		13178	06
15.2	92.08	0.25	147	1.0	0.25	150			C	C		15138	07
14.7	95.03	0.25	152	1.0	0.25	150			C	C		91711	08
11.1	126.55	0.18	155	1.0	0.20	160			C	C		71711	09
10.5	133.15	0.18	163	1.0	0.19	160			C	C		91311	10
9.3	150.18	0.12	119	1.3	0.17	160			C	C		61711	11
7.9	177.30	0.12	140	1.1	0.14	160			C	C		71311	12
6.7	210.42	0.09	133	1.2	0.12	160			C	C		61311	13
6.1	230.79	0.09	146	1.1	0.11	160			C	C		6178	14
5.1	272.47	0.06	113	1.4	0.09	160			C	C		7138	15
4.3	323.37	0.06	134	1.2	0.08	160			C	C		6138	16

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.

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.

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.

F Le réducteur **X43A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

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	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

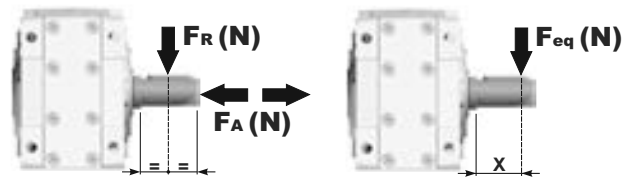
For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

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

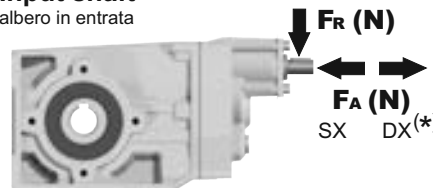


n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
250	500	2500	75	800	4000	15	960	4800
150	600	3000	50	960	4800			
100	700	3500	25	960	4800			

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



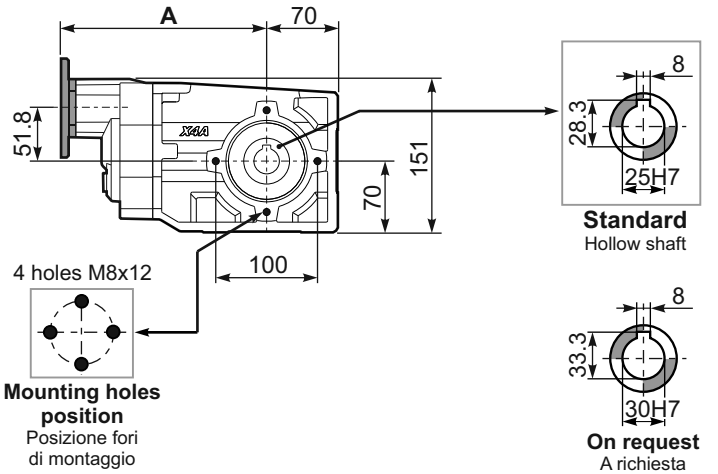
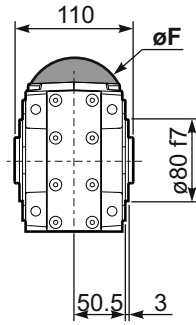
n ₁ [min ⁻¹]	FA [N]	FR [N]
1400	140	700
900	160	800
500	190	950

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

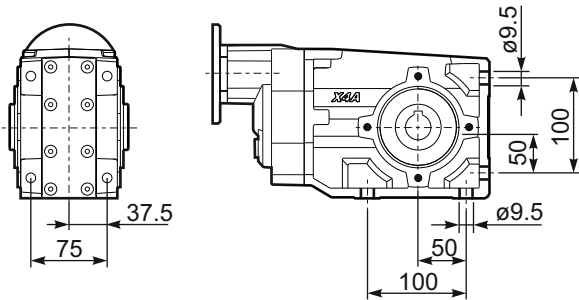
PX43AC... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **7.93 kg**

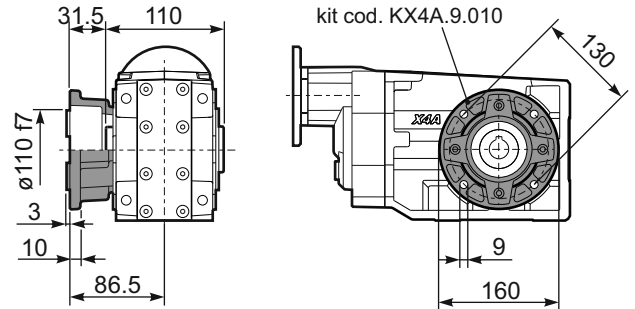
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	205
71B5	K050.4.042	160	202.5
56B14	KC40.4.049	80	202.5
63B14	K050.4.047	90	205
71B14	K050.4.045	105	202.5



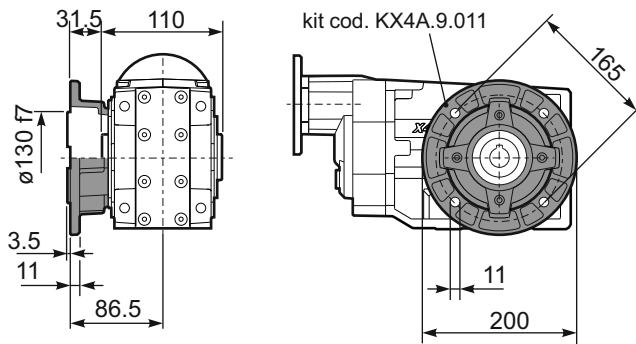
PX43A-N.. Feet
Piedini



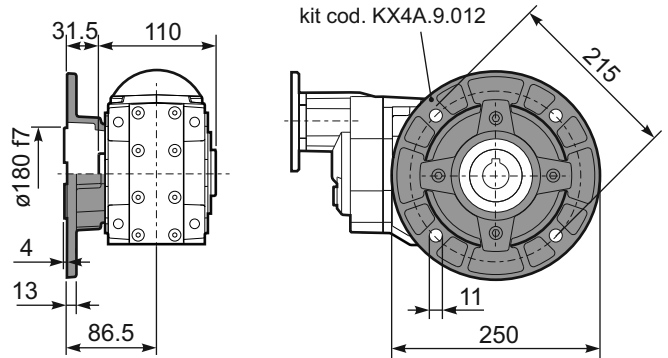
PX43A-F2.. Output flange
Flangia uscita



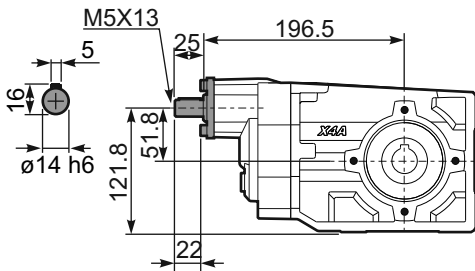
PX43A-F3.. Output flange
Flangia uscita



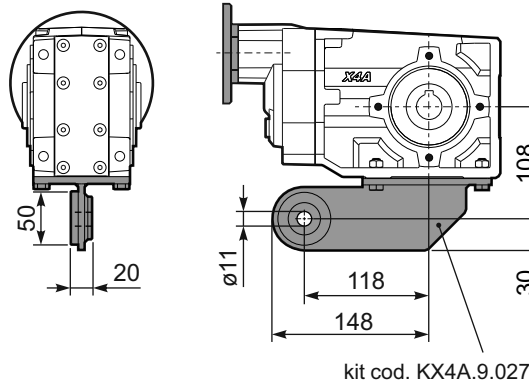
PX43A-F4.. Output flange
Flangia uscita



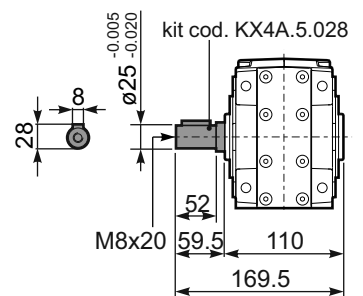
RX43A... Input shaft
Albero in entrata

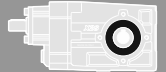


PX43ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.96** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-C	-D	-E	-F	-R	-T	-U		
							71	80	90	100 112	80	90	100 112		
232	6.03	3	116	1.2	3.4	135	B							3011	01
151	9.26	3	179	0.9	2.6	155	B							308	02
123	11.36	3	219	1.0	3.1	230	B							2011	03
91	15.36	2.2	218	1.1	2.5	250	B							1611	04
80	17.46	2.2	248	1.0	2.2	250	B							208	05
70	19.97	2.2	284	0.9	1.9	250	B							1311	06
59	23.60	1.5	231	1.1	1.6	250	B							168	07
57	24.45	1.5	239	1.0	1.6	250	B							1111	08
45.6	30.69	1.1	220	1.1	1.2	250	B							138	09
39.6	35.35	1.1	253	1.0	1.1	250	B							811	10
37.3	37.57	1.1	269	0.9	1.0	250	B							118	11
28.8	48.68	0.75	239	1.0	0.78	250	B							611	12
25.8	54.33	0.75	267	0.9	0.70	250	B							88	13
18.7	74.81	0.37	181	1.2	0.43	210	B							68	14

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 **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.

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.

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.

F Le réducteur **X52A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

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
0.90 LT	1.50LT	0.75 LT	1.40 LT	1.95 LT	1.15 LT	Ask	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

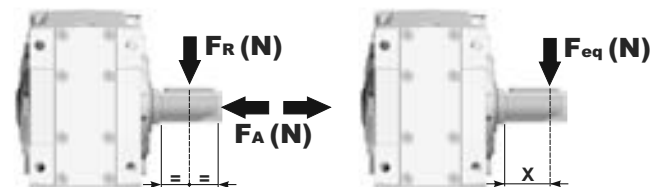
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

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

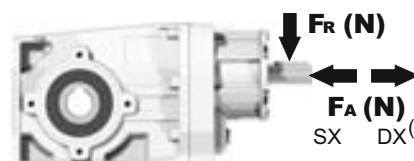


n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
250	600	3000	75	820	4100	15	1660	8300
150	700	3500	50	960	4800			
100	800	4000	25	1350	6750			

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

Input shaft

albero in entrata



n ₁ [min ⁻¹]	FA	FR
1400	450	2250
900	500	2500
500	600	3000

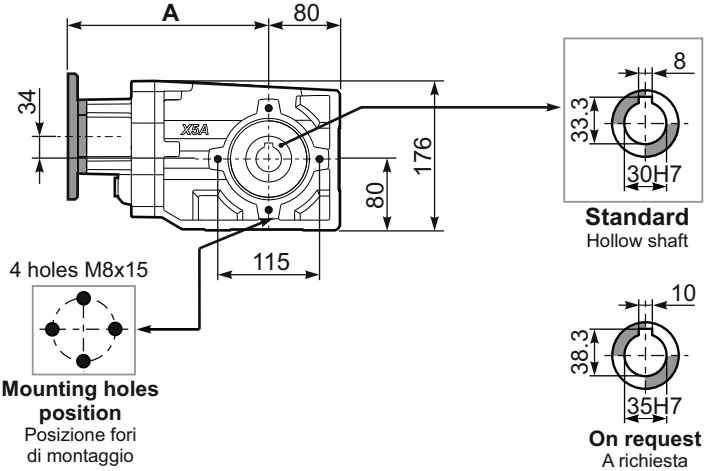
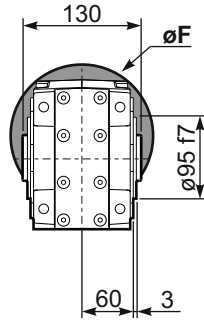
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

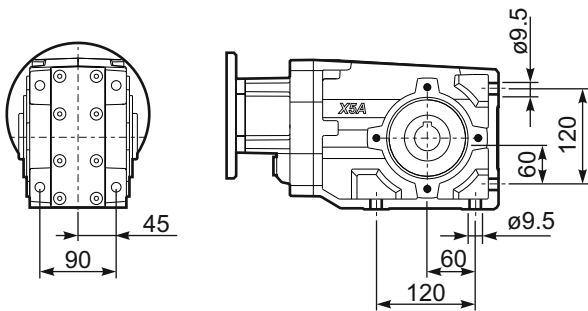
PX52AC... Basic Gearbox
Riduttore base

Gearbox weight **12.80 kg**
peso riduttore

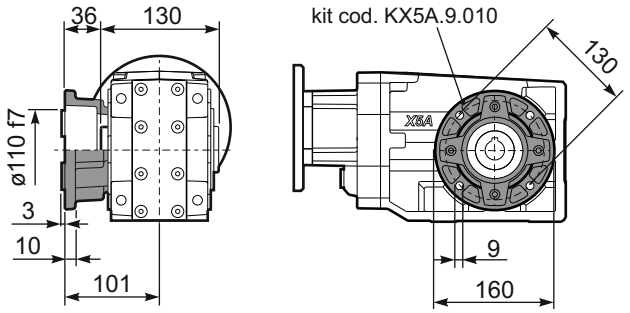
M. flanges	Kit code	øF	A
71B5	KC023.4.041	160	234
80/90B5	KC023.4.042	200	236
100/112B5	KC023.4.043	250	245
80B14	KC085.4.046	120	236
90B14	KC085.4.045	140	236
100/112B14	KC085.4.047	160	245



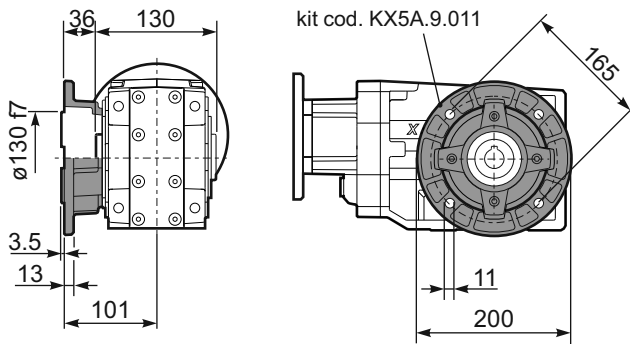
PX52A-N.. Feet
Piedini



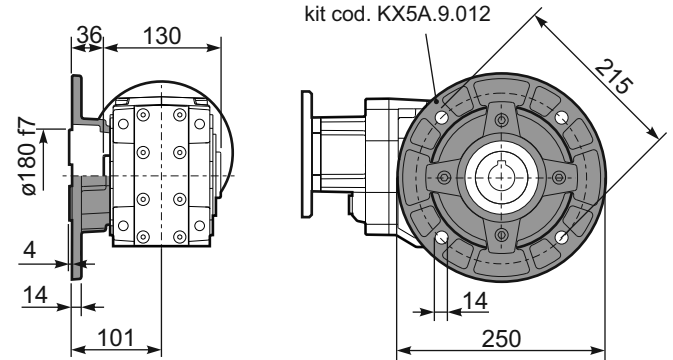
PX52A-F2.. Output flange
Flangia uscita



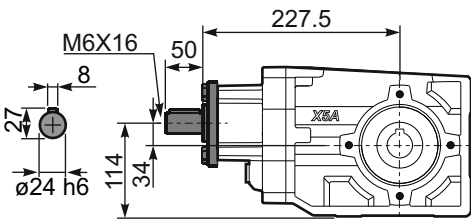
PX52A-F3.. Output flange
Flangia uscita



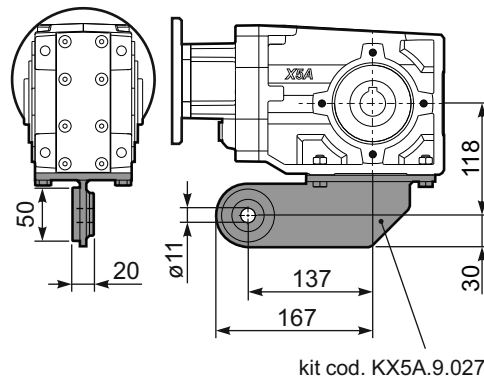
PX52A-F4.. Output flange
Flangia uscita



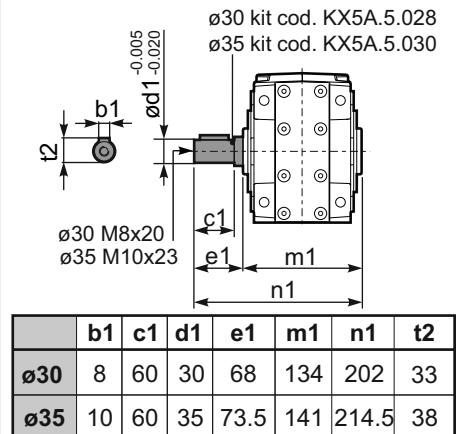
RX52A... Input shaft
Albero in entrata



PX52ABR.. 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 (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
							63	71	80	90	71	80	90		
24.7	56.76	0.55	201	1.2	0.69	250	B				C	C		191311	01
21.3	65.79	0.55	233	1.1	0.59	250	B				C	C		171311	02
18.1	77.23	0.55	274	0.9	0.50	250	B				C	C		151311	03
16.0	87.23	0.37	207	1.2	0.45	250	B				C	C		19138	04
15.2	92.18	0.37	219	1.1	0.42	250	B				C	C		131311	05
13.9	100.47	0.37	238	1.0	0.39	250	B				C	C		19811	06
12.0	116.45	0.37	276	0.9	0.33	250	B				C	C		17811	07
11.1	125.82	0.25	201	1.2	0.31	250	B				C	C		101311	08
9.9	141.66	0.25	227	1.1	0.28	250	B				C	C		13138	09
8.6	163.16	0.25	261	1.0	0.24	250	B				C	C		13811	10
7.8	178.96	0.18	219	1.1	0.22	250	B				C	C		1788	11
7.2	193.36	0.18	237	1.1	0.20	250	B				C	C		10138	12
6.5	216.84	0.18	265	0.9	0.18	250	B				C	C		71311	13
5.5	252.36	0.12	200	1.3	0.15	250	B				C	C		9138	14
4.8	290.67	0.12	230	1.1	0.13	250	B				C	C		9811	15
4.2	333.23	0.12	263	0.9	0.12	250	B				C	C		7138	16
3.6	383.82	0.12	303	0.8	0.10	250	B				C	C		7811	17
3.1	446.70	0.12*	353	0.7	0.09	250	B				C	C		988	18
2.4	589.85	0.12*	466	0.5	0.07	250	B				C	C		788	19

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

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

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.

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.

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.

F Le réducteur **X53A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
1.30 LT	1.55 LT	0.85 LT	1.45 LT	2.10 LT	1.25 LT	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

For all details on lubrication and plugs check our website **tab. 1**
 Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

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

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

Input shaft
albero in entrata

n ₁ [min ⁻¹]	FA	FR
1400	400	2000
900	440	2200
500	440	2200

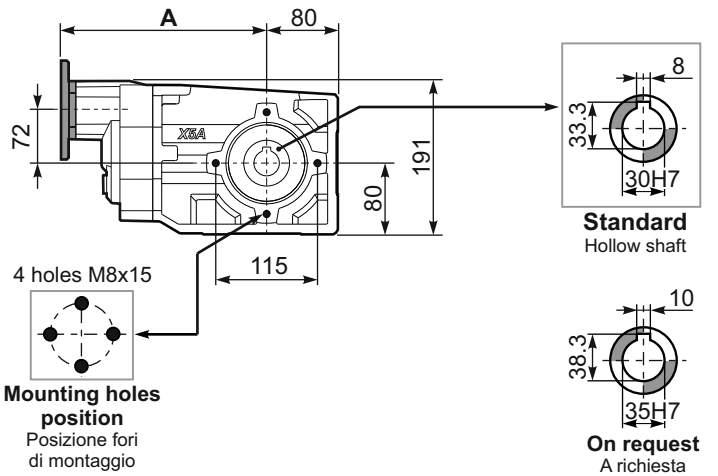
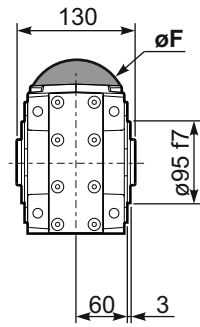
*Strong axial loads in the DX direction are not allowed.
 Non sono consentiti forti carichi assiali con direzione DX

tab. 2

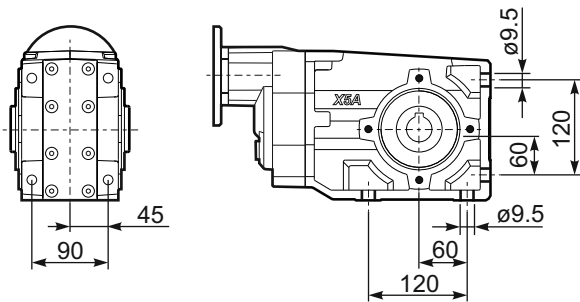
PX53AC... Basic Gearbox
Riduttore base

Gearbox weight **12.65 kg**
peso riduttore

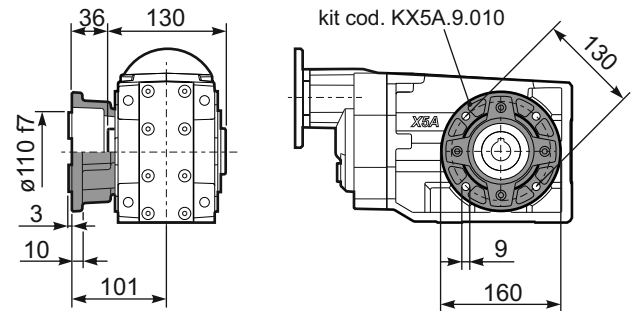
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	246
71B5	K063.4.042	160	244
80/90B5	K063.4.043	200	246
71B14	K063.4.047	105	244
80B14	K063.4.046	120	246
90B14	K063.4.041	140	246



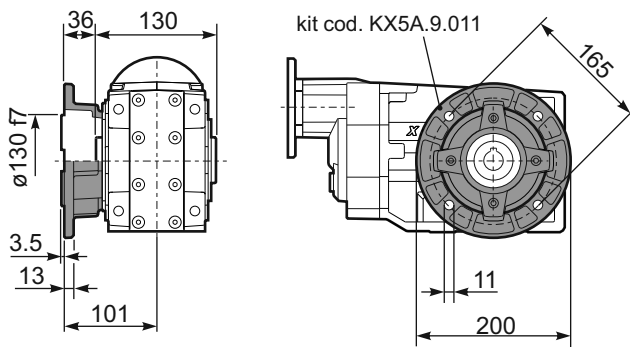
PX53A-N.. Feet
Piedini



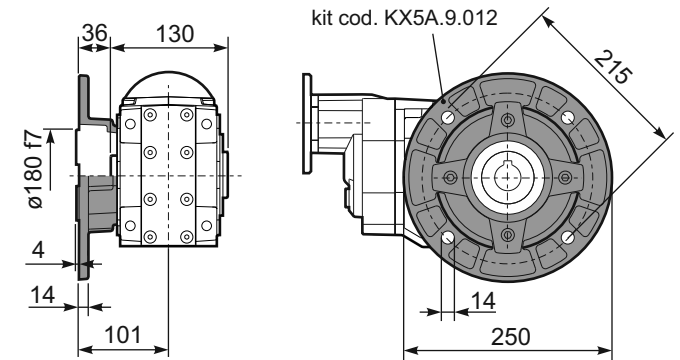
PX53A-F2.. Output flange
Flangia uscita



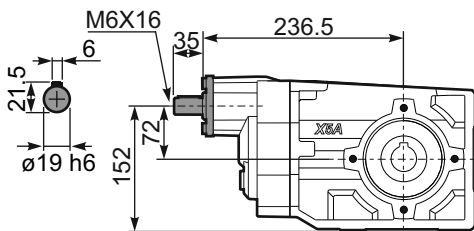
PX53A-F3.. Output flange
Flangia uscita



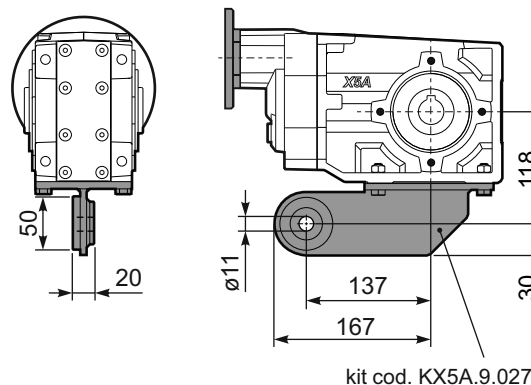
PX53A-F4.. Output flange
Flangia uscita



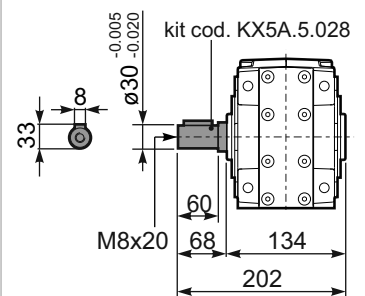
RX53A... Input shaft
Albero in entrata



PX53ABR.. 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 (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft 	Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V		
							71	80	90	100 112	132	80	90	100 112	132		
232	6.03	5.5	211	1.1	6.1	240	B									3011	01
151	9.26	4	238	1.1	4.5	270	B									308	02
123	11.36	4	291	1.2	4.7	350	B									2011	03
91	15.36	4	394	1.0	3.8	385	B									1611	04
80	17.46	4	448	0.9	3.5	400	B									208	05
70	19.97	3	386	1.1	3.1	410	B									1311	06
59	23.60	3	456	0.9	2.7	410	B									168	07
57	24.45	3	472	0.9	2.6	410	B									1111	08
45.6	30.69	2.2	436	0.9	2.0	410	B									138	09
39.6	35.35	1.5	346	1.2	1.8	410	B									811	10
37.3	37.57	1.5	368	1.1	1.7	410	B									118	11
28.8	48.68	1.1	348	1.0	1.1	365	B									611	12
25.8	54.33	1.1	389	1.1	1.2	410	B									88	13
18.7	74.81	0.75	367	1.0	0.73	360	B									68	14

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.

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.

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.

F Le réducteur **X62A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

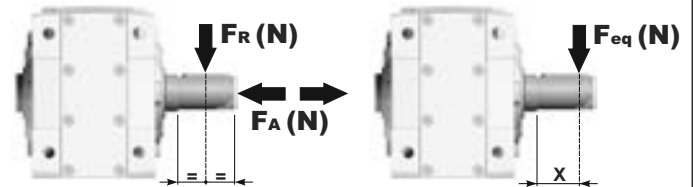
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
B3	B6	B7	B8	V5	V6	V8	V8
1.25 LT	1.70 LT	0.95 LT	1.60 LT	2.45 LT	1.50 LT	Ask	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

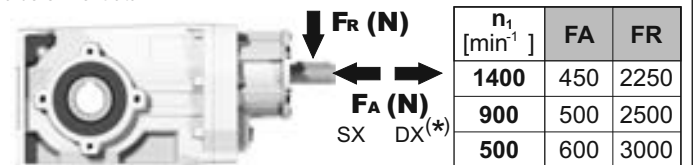
$$F_{eq} = F_R \cdot \frac{69}{X+39}$$



n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	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 ₁ [min ⁻¹]	FA	FR
1400	450	2250
900	500	2500
500	600	3000

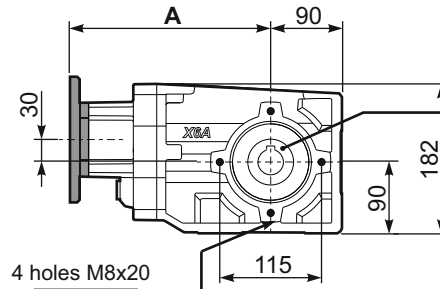
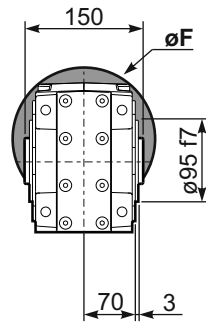
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

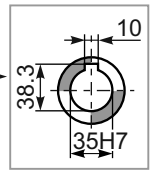
PX62AC... Basic Gearbox
Riduttore base

Gearbox weight **15.80 kg**
peso riduttore

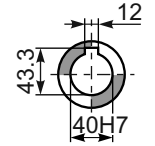
M. flanges	Kit code	øF	A
71B5	KC023.4.041	160	253
80/90B5	KC023.4.042	200	255
100/112B5	KC023.4.043	250	264
132B5	KC50.4.043	300	282
80B14	KC085.4.046	120	255
90B14	KC085.4.045	140	255
100/112B14	KC085.4.047	160	264
132B14	KC50.4.041	200	282



4 holes M8x20
Mounting holes position
Posizione fori di montaggio

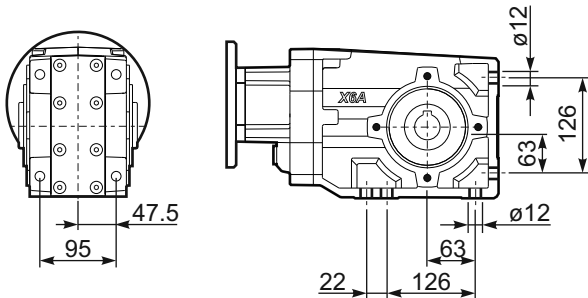


Standard
Hollow shaft

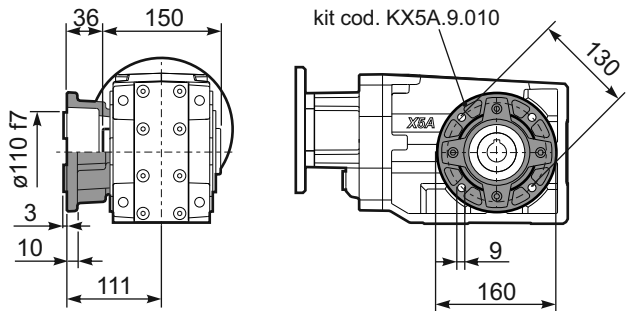


On request
A richiesta

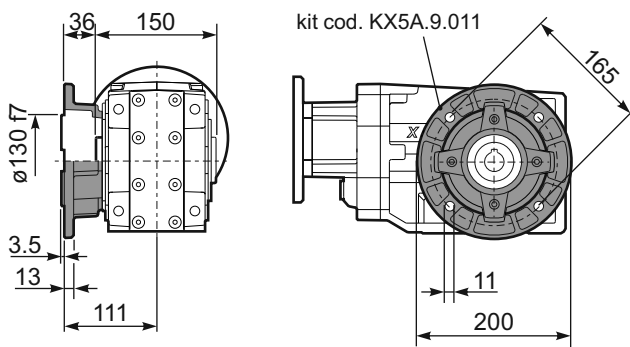
PX62A-N.. Feet
Piedini



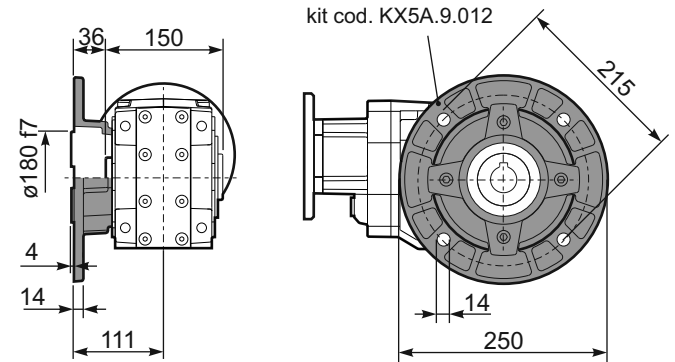
PX62A-F2.. Output flange
Flangia uscita



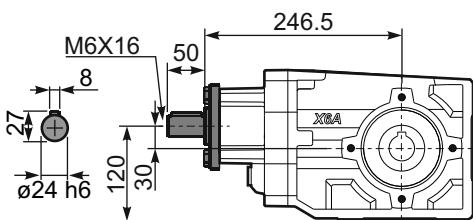
PX62A-F3.. Output flange
Flangia uscita



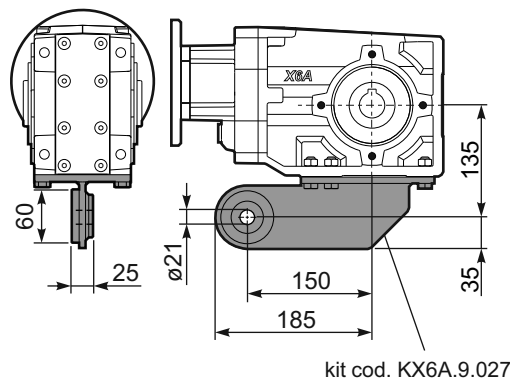
PX62A-F4.. Output flange
Flangia uscita



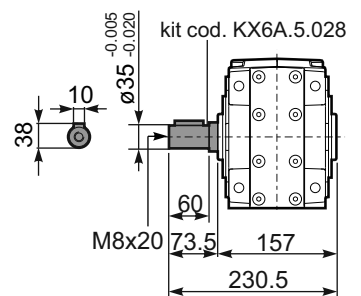
RX62A... Input shaft
Albero in entrata



PX62ABR.. 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 (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
							63	71	80	90	71	80	90		
24.7	56.76	1.1	398	1.0	1.1	410	B				C	C		191311	01
21.3	65.79	0.75	316	1.3	0.97	410	B				C	C		171311	02
18.1	77.23	0.75	371	1.1	0.83	410	B				C	C		151311	03
16.0	87.23	0.75	420	1.0	0.73	410	B				C	C		19138	04
15.2	92.18	0.75	443	0.9	0.69	410	B				C	C		131311	05
13.9	100.47	0.55	357	1.2	0.64	410	B				C	C		19811	06
12.0	116.45	0.55	413	1.0	0.55	410	B				C	C		17811	07
11.1	125.82	0.55	446	0.9	0.51	410	B				C	C		101311	08
9.9	141.66	0.37	336	1.2	0.45	410	B				C	C		13138	09
8.6	163.16	0.37	387	1.1	0.39	410	B				C	C		13811	10
7.8	178.96	0.37	424	1.0	0.36	410	B				C	C		1788	11
7.2	193.36	0.37	459	0.9	0.33	410	B				C	C		10138	12
6.5	216.84	0.25	347	1.2	0.29	410	B				C	C		71311	13
5.5	252.36	0.25	404	1.0	0.25	410	B				C	C		9138	14
4.8	290.67	0.25	465	0.9	0.22	410	B				C	C		9811	15
4.2	333.23	0.18	408	1.0	0.19	410	B				C	C		7138	16
3.6	383.82	0.18	470	0.9	0.17	410	B				C	C		7811	17
3.1	446.70	0.12	353	1.2	0.14	410	B				C	C		988	18
2.4	589.85	0.12	466	0.9	0.11	410	B				C	C		788	19

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.

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.

D Das Getriebe **X63A** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

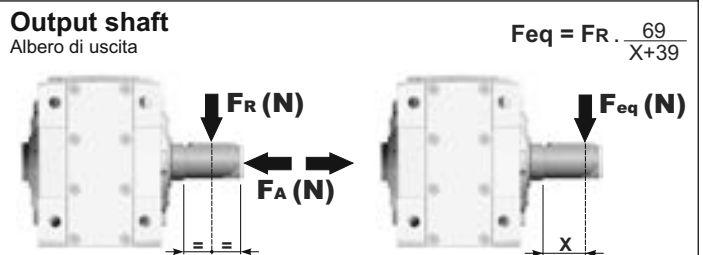
F Le réducteur **X63A** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

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.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
B3	B6	B7	B8	V5	V6	V8	
1.80 LT	1.80 LT	1.05 LT	1.70 LT	2.60 LT	1.65 LT	Ask	
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

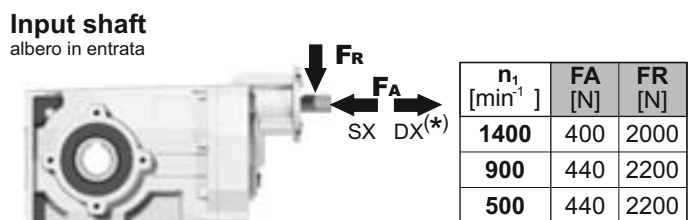
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS



n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	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.



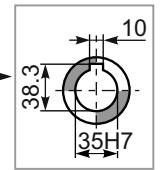
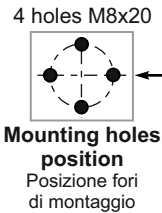
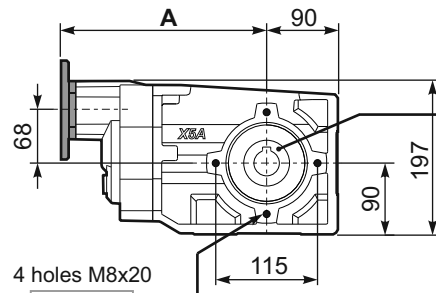
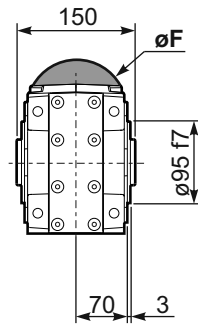
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

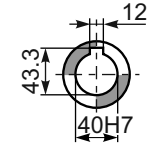
PX63AC... Basic Gearbox
Riduttore base

Gearbox weight **15.98 kg**
peso riduttore

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

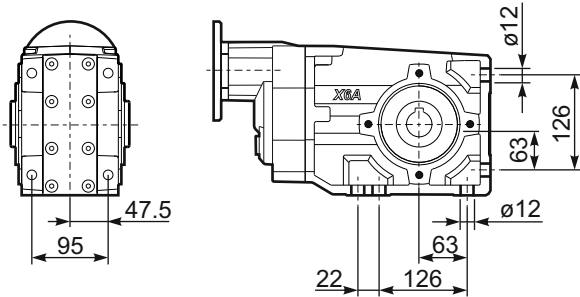


Standard
Hollow shaft

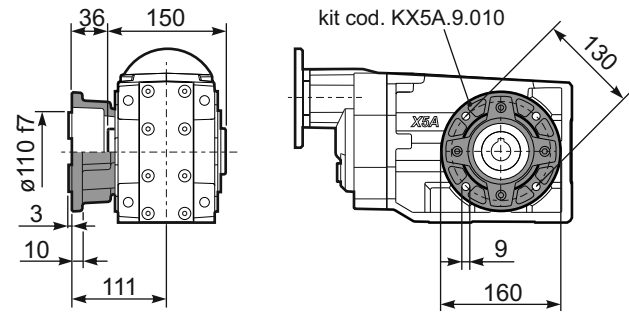


On request
A richiesta

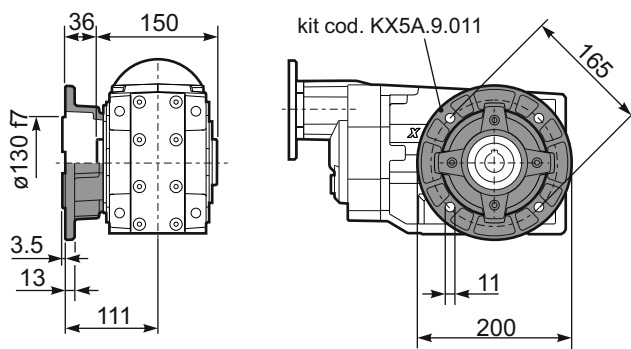
PX63A-N.. Feet
Piedini



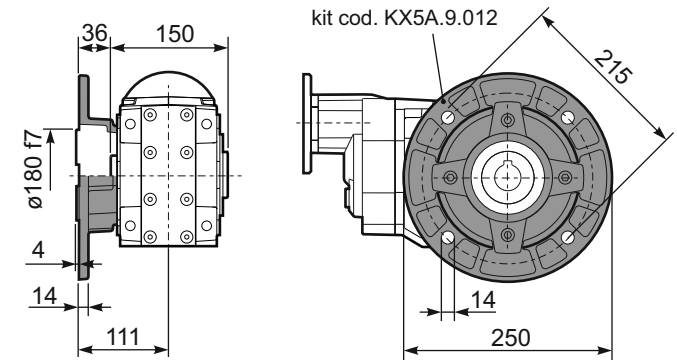
PX63A-F2.. Output flange
Flangia uscita



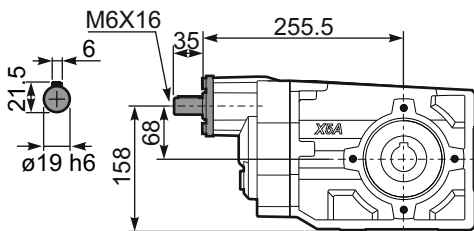
PX63A-F3.. Output flange
Flangia uscita



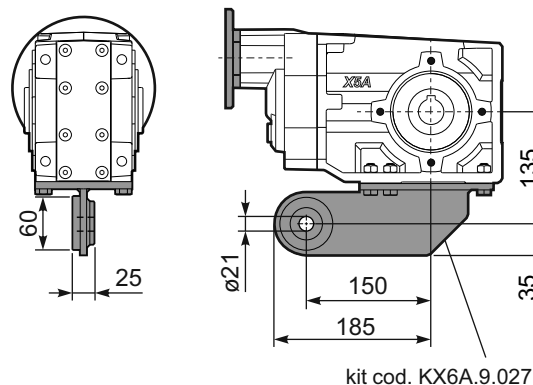
PX63A-F4.. Output flange
Flangia uscita



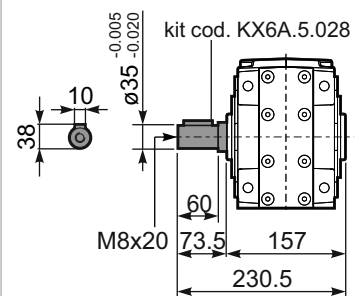
RX63A... Input shaft
Albero in entrata

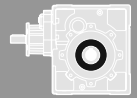


PX63ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor $f.s.$	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft 	Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V		
							71	80	90	100 112	132	80	90	100 112	132		
176	7.94	7.5	369	1.0	7.5	380	B									302418	01
153	9.13	7.5	425	0.9	6.7	390	B									302416	02
131	10.66	5.5	366	1.1	6.0	410	B									302414	03
94	14.97	5.5	514	1.1	6.0	580	B									202418	04
81	17.21	5.5	591	1.0	5.4	600	B									202416	05
69	20.24	5.5	695	1.0	5.2	675	B									162418	06
60	23.27	4	585	1.2	4.5	675	B									162416	07
53	26.31	4	661	1.0	4.0	675	B									132418	08
46.3	30.25	4	760	0.9	3.5	675	B									132416	09
39.6	35.32	3	668	1.0	3.0	675	B									132414	10
37.8	37.03	3	701	1.0	2.8	675	B									112416	11
32.4	43.23	2.2	602	1.1	2.4	675	B									112414	12
30.1	46.58	2.2	649	1.0	2.3	675	B									82418	13
26.1	53.55	2.2	746	0.9	2.0	675	B									82416	14
22.4	62.52	1.5	600	1.1	1.7	675	B									82414	15
19.0	73.75	1.1	517	1.1	1.2	580	B									62416	16
16.3	86.09	1.1	604	1.1	1.2	675	B									62414	17

The dynamic efficiency is **0.94** for all ratios

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

EN Unit **113C** 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.

I Il riduttore **113C** 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.

D Das Getriebe **113C** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur **113C** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **113C** 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.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
4.00 LT	2.60 LT	2.60 LT	2.60 LT	5.15 LT	2.20 LT	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_R (N)$
 $F_A (N)$

$F_{eq} = F_R \cdot \frac{171}{X+131}$

$F_{eq} (N)$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	640	3200	140	860	4300	70	1080	5400
250	700	3500	120	900	4500	40	1300	6500
200	740	3700	85	1000	5000	15	1840	9200

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

$F_R (N)$
 $F_A (N)$

n_1	FA	FR
1400	400	2000
900	440	2200
500	440	2200

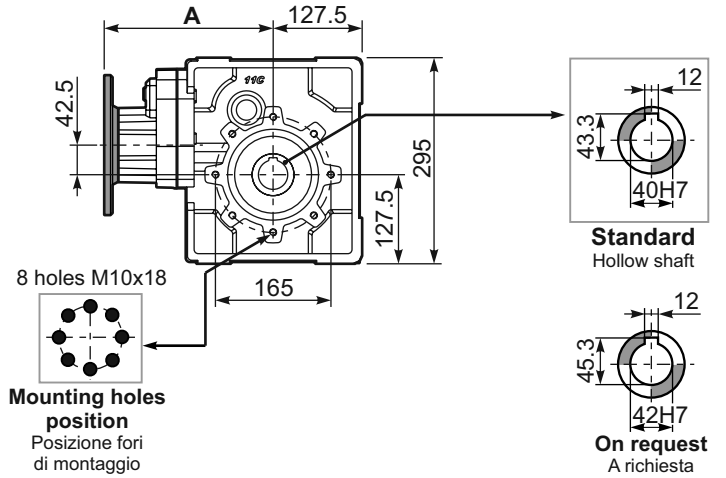
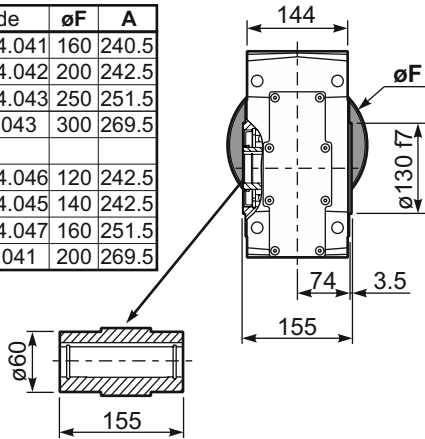
tab. 2

P113CC...

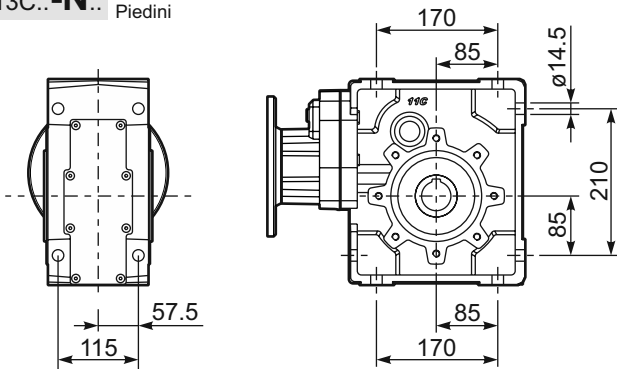
Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **38.0 kg**

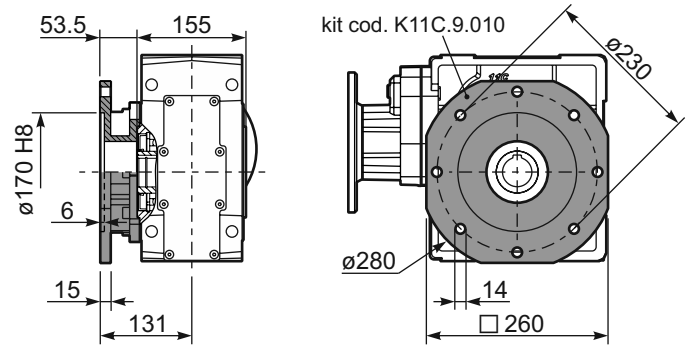
M. flanges	Kit code	øF	A
71B5	KC023.4.041	160	240.5
80/90B5	KC023.4.042	200	242.5
100/112B5	KC023.4.043	250	251.5
132B5	KC50.4.043	300	269.5
80B14	KC085.4.046	120	242.5
90B14	KC085.4.045	140	242.5
100/112B14	KC085.4.047	160	251.5
132B14	KC50.4.041	200	269.5



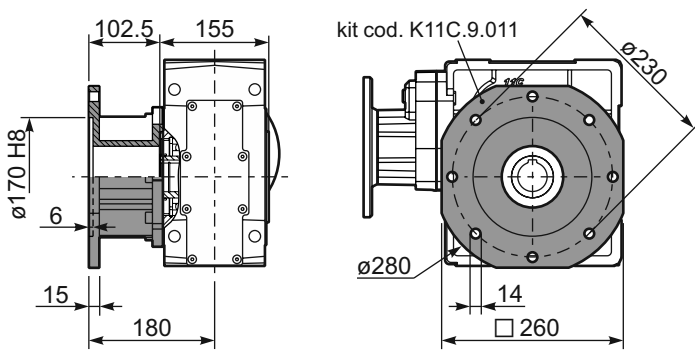
P113C..-N.. Feet
Piedini



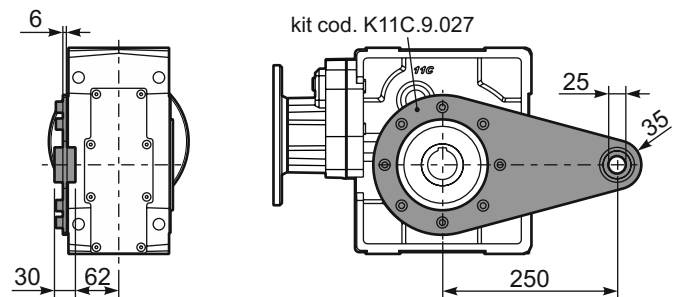
P113C-FC.. Output flange
Flangia uscita



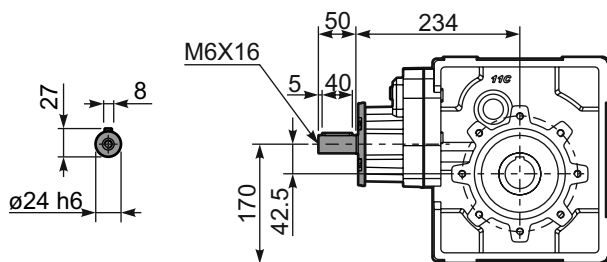
P113C-FL.. Output flange
Flangia uscita



P113CBR.. Reaction Arm
Braccio di reazione

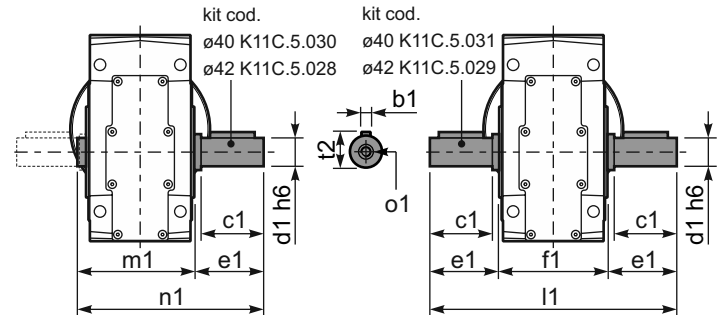


R113C... Input shaft
Albero in entrata

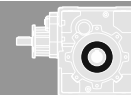


P113C..A.. Single shaft
Albero lento semplice

P113C..B.. Double shaft
Albero lento bisp.



	b1	c1	d1	e1	f1	l1	m1	n1	t2	o1
ø40 Standard	12	80	40	84.5	155	324	164.5	249	43	M12
ø42 On request	12	80	42	84.5	155	324	164.5	249	45	M16



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
							63	71	80	90	71	80	90		
18.7	74.79	1.5	704	1.0	1.4	675	B				C	C		19132418	01
16.3	85.99	1.1	591	1.1	1.3	675	B				C	C		19132416	02
14.0	99.66	1.1	685	1.0	1.1	675	B				C	C		17132416	03
12.0	116.35	0.75	548	1.2	0.92	675	B				C	C		17132414	04
11.5	121.45	0.75	572	1.2	0.89	675	B				C	C		13132418	05
10.0	139.64	0.75	658	1.0	0.77	675	B				C	C		13132416	06
9.2	152.21	0.75	717	0.9	0.71	675	B				C	C		19082416	07
8.6	163.02	0.55	567	1.2	0.66	675	B				C	C		13132414	08
7.9	177.69	0.55	618	1.1	0.61	675	B				C	C		19082414	09
6.8	205.95	0.55	716	0.9	0.52	675	B				C	C		17082414	10
6.3	222.52	0.55	774	0.9	0.48	675	B				C	C	On request	10132414	11
5.6	248.76	0.37	578	1.2	0.43	675	B				C	C		9132416	12
4.8	290.41	0.37	675	1.0	0.37	675	B				C	C		9132414	13
4.1	337.39	0.37	784	0.9	0.32	675	B				C	C		10082416	14
3.6	393.88	0.25	618	1.1	0.27	675	B				C	C		10082414	15
3.2	440.33	0.25	690	1.0	0.24	675	B				C	C		9082416	16
2.7	514.06	0.18	616	1.1	0.21	675	B				C	C		9082414	17
2.4	581.44	0.18	697	1.0	0.18	675	B				C	C		7082416	18
2.1	678.79	0.12	526	1.3	0.16	675	B				C	C		7082414	19

The dynamic efficiency is **0.92** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **114C** 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.

I Il riduttore **114C** 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.

D Das Getriebe **114C** 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.

F Le réducteur **114C** est fourni complet avec de l'huile synthétique pour la lubrification permanente et ne nécessite aucun entretien. Voir tableau 1 concernant les huiles et les quantités conseillées. Les charges radiales et axiales applicables au réducteur sont précisées dans le tableau 2.

E El reductor tamaño **114C** 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.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
4.10 LT	2.70 LT	2.70 LT	2.70 LT	5.30 LT	2.35 LT	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

For all details on lubrication and plugs check our website [www.angletech.com](#) **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{171}{X+131}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	640	3200	140	860	4300	70	1080	5400
250	700	3500	120	900	4500	40	1300	6500
200	740	3700	85	1000	5000	15	1840	9200

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

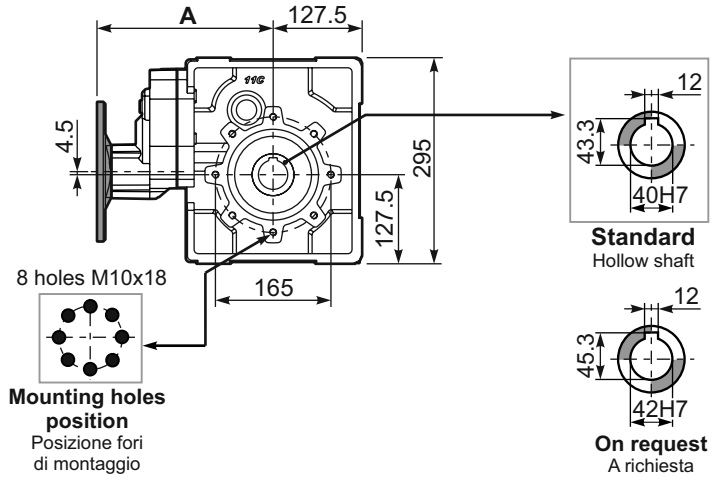
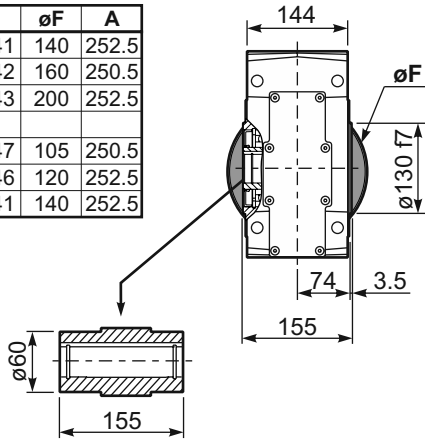
n_1	FA	FR
1400	240	1200
900	280	1400
500	310	1700

tab. 2

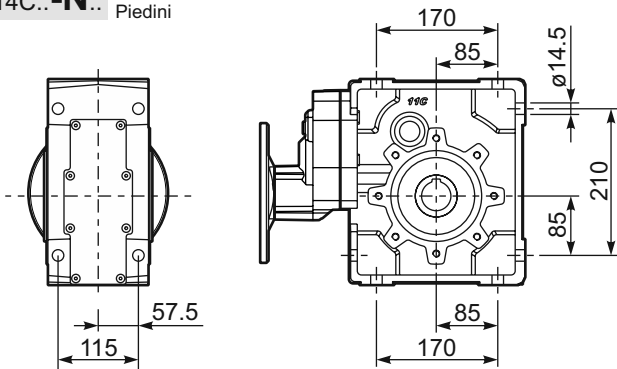
P114CC... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **38.0 kg**

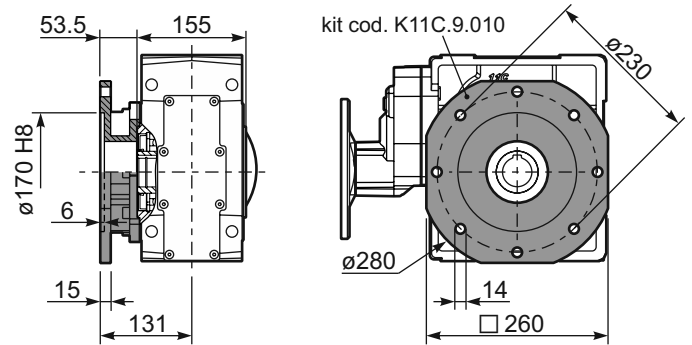
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	252.5
71B5	K063.4.042	160	250.5
80/90B5	K063.4.043	200	252.5
71B14	K063.4.047	105	250.5
80B14	K063.4.046	120	252.5
90B14	K063.4.041	140	252.5



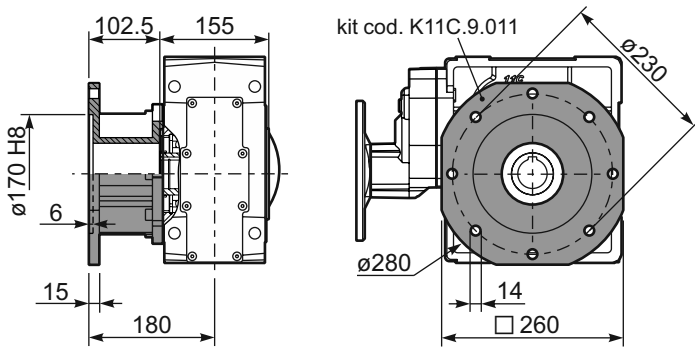
P114C..-N.. Feet
Piedini



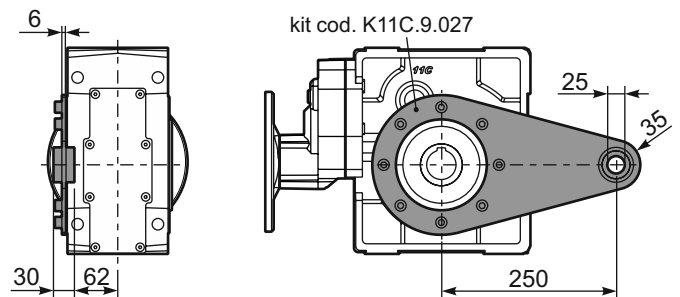
P114C-FC.. Output flange
Flangia uscita



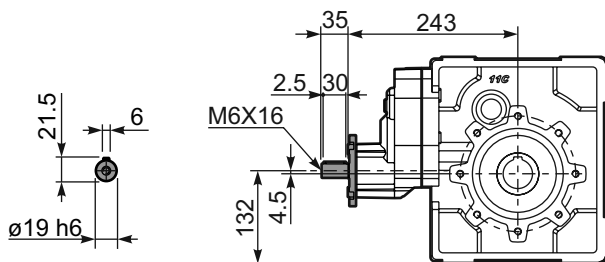
P114C-FL.. Output flange
Flangia uscita



P114CBR.. Reaction Arm
Braccio di reazione

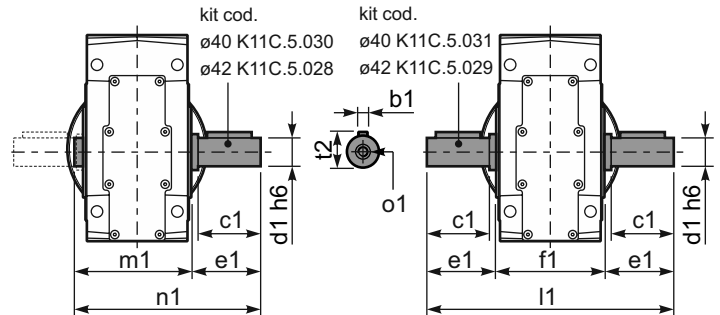


R114C... Input shaft
Albero in entrata

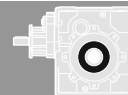


P114C..A.. Single shaft
Albero lento semplice

P114C..B.. Double shaft
Albero lento bisp.



	b1	c1	d1	e1	f1	l1	m1	n1	t2	o1
ø40 Standard	12	80	40	84.5	155	324	164.5	249	43	M12
ø42 On request	12	80	42	84.5	155	324	164.5	249	45	M16



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹										
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft Ø	Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V		
							71	80	90	100 112	132	80	90	100 112	132		
145	9.69	9	560	1.3	12.2	755	B									302418	01
126	11.09	9	641	1.1	9.6	680	B									302416	02
108	12.90	9	746	1.1	9.6	790	B									302414	03
77	18.26	7.5	849	1.1	8.0	935	B									202418	04
67	20.91	7.5	972	1.0	7.5	1000	B									202416	05
58	24.32	5.5	835	1.2	6.4	1000	B									202414	06
49.5	28.27	5.5	971	1.0	5.5	1000	B									162416	07
42.6	32.88	4	826	1.2	4.7	1000	B									162414	08
38.1	36.76	4	924	1.1	4.2	1000	B									132416	09
32.7	42.76	3	809	1.2	3.6	1000	B									132414	10
31.1	45.00	3	851	1.2	3.5	1000	B									112416	11
26.8	52.33	3	990	1.0	3.0	1000	B									112414	12
24.6	56.82	2.2	791	1.1	2.3	850	B									82418	13
21.5	65.07	2.2	906	1.1	2.3	975	B									82416	14
18.5	75.68	2.2	1054	0.9	2.1	1000	B									82414	15
15.6	89.61	1.1	628	1.1	1.2	710	B									62416	16
13.4	104.22	1.1	731	1.1	1.2	820	B									62414	17

The dynamic efficiency is **0.94** for all ratios

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

EN Unit 133C is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo 133C è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße 133C wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type 133C est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño 133C se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

B3	B6	B7	B8	V5	V6	V8
6.00 LT	4.30 LT	4.30 LT	3.30 LT	7.40 LT	3.10 LT	Ask

AGIP Blasias 460

For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{184.5}{X+144.5}$

Input shaft
Albero in entrata

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	800	4000	140	1120	5600	70	1400	7000
250	900	4500	120	1200	6000	40	1700	8500
200	960	4800	85	1300	6500	15	2400	12000

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

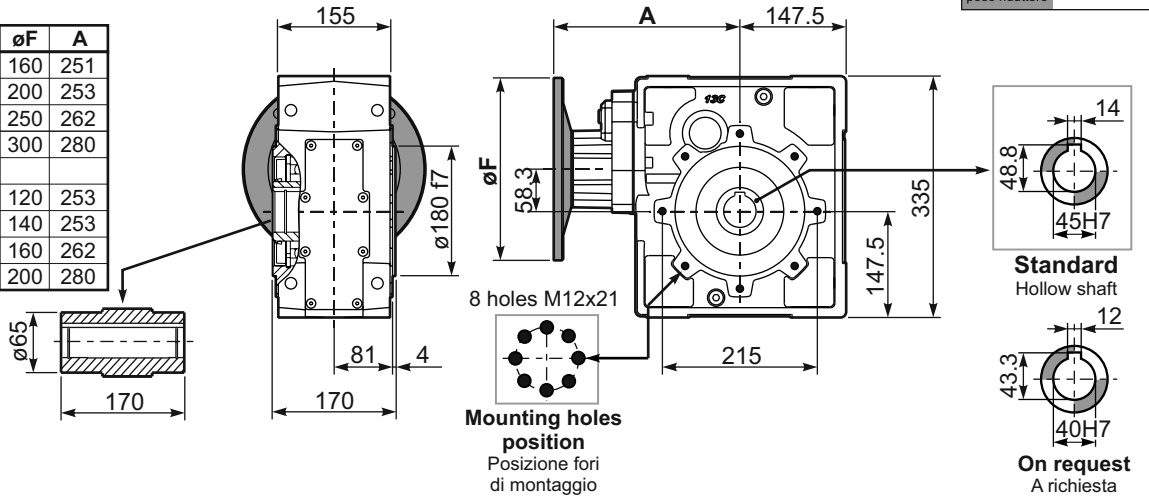
n ₁	FA	FR
1400	450	2250
900	500	2500
500	600	3000

tab. 2

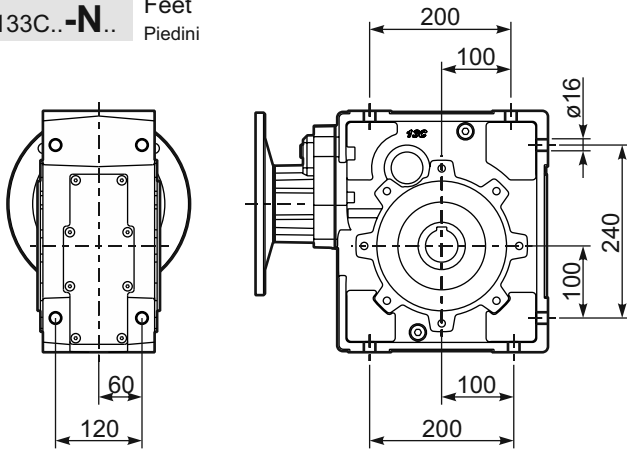
P133CC... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **53.5 kg**

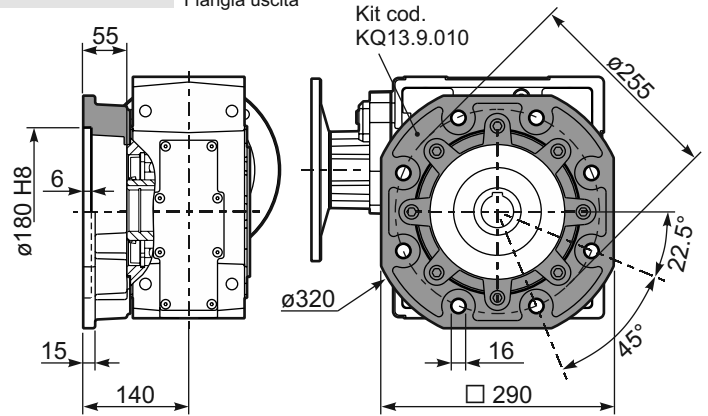
M. flanges	Kit code	øF	A
71B5	KC023.4.041	160	251
80/90B5	KC023.4.042	200	253
100/112B5	KC023.4.043	250	262
132B5	KC50.4.043	300	280
80B14	KC085.4.046	120	253
90B14	KC085.4.045	140	253
100/112B14	KC085.4.047	160	262
132B14	KC50.4.041	200	280



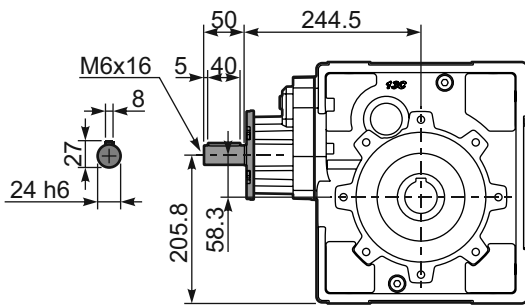
P133C..-N.. Feet
Piedini



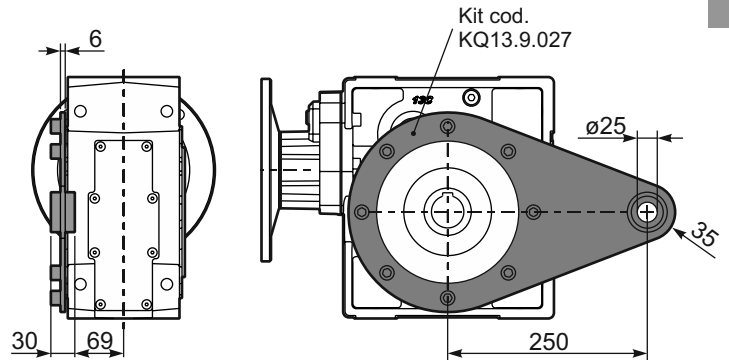
P133C..-FC.. Output flange
Flangia uscita



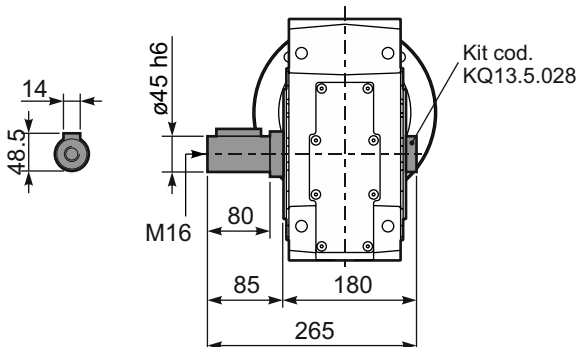
R133C... Input Shaft
Albero in entrata



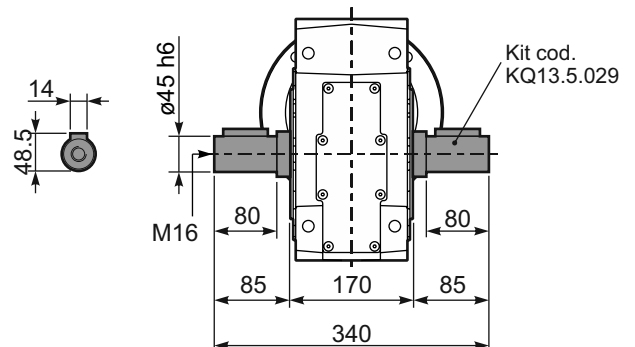
P133CBR.. Reaction arm
Braccio di reazione

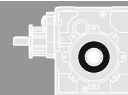


P133C..A.. Single output Shaft
Albero lento semplice



P133C..B.. Double Input Shaft
Albero lento bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft 	Ratios code
							-B	-C	-D	-E	-Q	-R	-T		
							63	71	80	90	71	80	90		
15.3	91.23	1.5	858	1.2	1.7	1000	B				C	C		19132418	01
13.4	104.48	1.5	983	1.0	1.5	1000	B				C	C		19132416	02
11.6	121.10	1.5	1139	0.9	1.3	1000	B				C	C		17132416	03
9.9	140.84	1.1	968	1.0	1.1	1000	B				C	C		17132414	04
8.5	165.32	1.1	1136	0.9	0.96	1000	B				C	C		15132414	05
7.6	184.94	0.75	872	1.1	0.86	1000	B				C	C		19082416	06
7.1	197.34	0.75	930	1.1	0.81	1000	B				C	C		13132414	07
6.5	215.10	0.75	1014	1.0	0.74	1000	B				C	C		19082414	08
6.0	231.60	0.55	805	1.2	0.69	1000	B				C	C		10132416	09
5.6	249.31	0.55	867	1.2	0.64	1000	B				C	C		17082414	10
5.2	269.37	0.55	937	1.1	0.59	1000	B				C	C		10132414	11
4.8	292.64	0.55	1018	1.0	0.54	1000	B				C	C		15082414	12
4.6	302.26	0.55	1051	1.0	0.53	1000	B				C	C		9132416	13
4.0	349.30	0.37	812	1.2	0.46	1000	B				C	C		13082414	14
3.5	399.12	0.37	928	1.1	0.40	1000	B				C	C		7132416	15
2.9	476.80	0.37	1108	0.9	0.33	1000	B				C	C		10082414	16
2.2	622.28	0.25	976	1.0	0.26	1000	B				C	C		9082414	17
1.7	821.70	0.18	985	1.0	0.19	1000	B				C	C		7082414	18

The dynamic efficiency is **0.92** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **134C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug.
See table 1 for lubrication and recommended quantity.
In table 2 please see possible radial loads and axial loads on the gearbox.

B3	B6	B7	B8	V5	V6	V8
6.10 LT	4.40 LT	4.40 LT	3.40 LT	7.50 LT	3.20 LT	Ask

AGIP Blasias 460

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

I Il riduttore tipo **134C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso.
Tab.1 per oli e quantità consigliati.
Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **134C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen.
In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben
In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **134C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants.
S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé.
Voir tableau 1 concernant les huiles et les quantités conseillées.
Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{184.5}{X + 144.5}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	800	4000	140	1120	5600	70	1400	7000
250	900	4500	120	1200	6000	40	1700	8500
200	960	4800	85	1300	6500	15	2400	12000

On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata

n_1	FA	FR
1400	400	2000
900	440	2200
500	440	2200

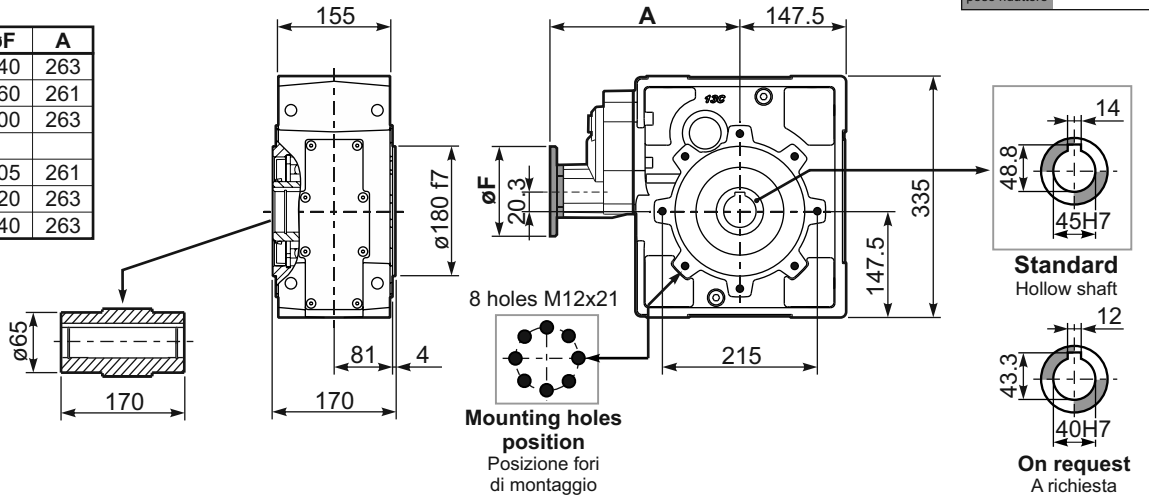
tab. 2

E El reductor tamaño **134C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético.
Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

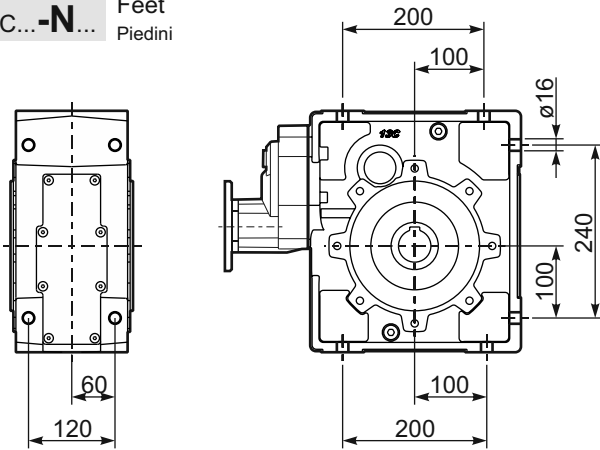
P134CC... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **53.5 kg**

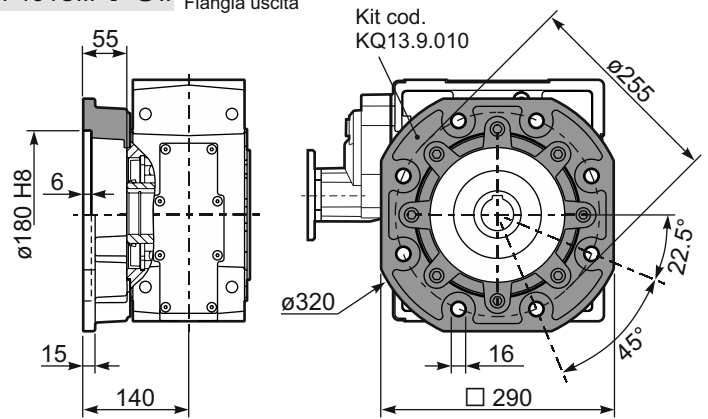
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	263
71B5	K063.4.042	160	261
80/90B5	K063.4.043	200	263
71B14	K063.4.047	105	261
80B14	K063.4.046	120	263
90B14	K063.4.041	140	263



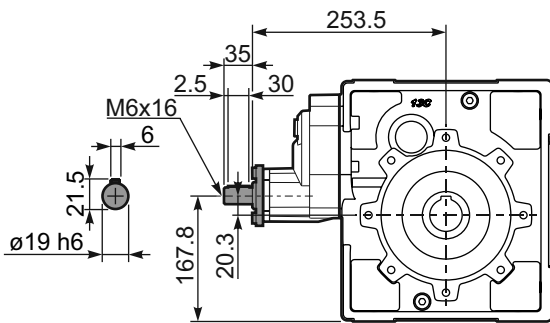
P134C...-N... Feet
Piedini



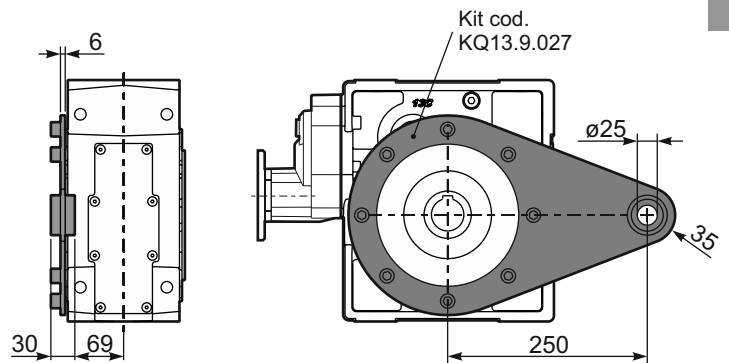
P134C...-FC.. Output flange
Flangia uscita



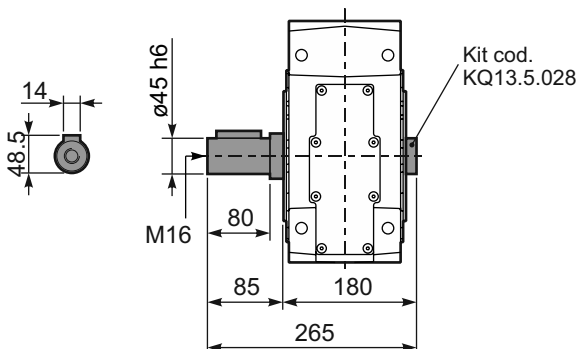
R134C... Input Shaft
Albero in entrata



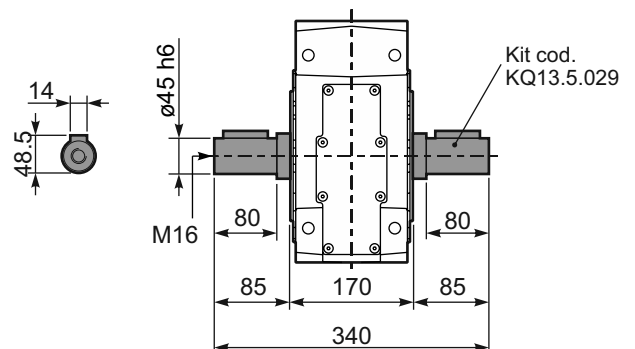
P134CBR.. Reaction arm
Braccio di reazione

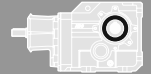


P134C..A.. Single output Shaft
Albero lento semplice



P134C..B.. Double Input Shaft
Albero lento bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges				B14 motor flanges				Output Shaft 	Ratios code
							-F	-G	-H	-I	-	-	-	-		
							100 112	132	160	180	-	-	-	-		
236	5.94	22	806	1.0	21.0	800	B							302915	01	
196	7.13	18.5	812	1.0	17.9	820	B							302913	02	
163	8.58	18.5	977	1.0	17.3	950	B							302911	03	
125	11.20	15	1033	1.0	13.9	1000	B							202915	04	
104	13.43	15	1239	1.1	15.7	1350	B							202913	05	
92	15.15	15	1397	1.0	14.4	1400	B							162915	06	
87	16.17	15	1492	1.0	14.0	1450	B							202911	07	
77	18.16	15	1675	0.9	13.3	1550	B							162913	08	
71	19.70	11	1335	1.2	12.3	1550	B							132915	09	
64	21.87	11	1482	1.1	11.4	1600	B							162911	10	
59	23.62	11	1600	1.0	10.6	1600	B							132913	11	
48.4	28.91	9	1671	1.0	8.6	1600	B							112913	12	
40.2	34.81	7.5	1618	1.0	7.2	1600	B							112911	13	
33.5	41.81	5.5	1436	1.1	6.0	1600	B							82913	14	
27.8	50.34	5.5	1729	0.9	5.0	1600	B							82911	15	

The dynamic efficiency is **0.94** for all ratios

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

EN Unit **X93C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **X93C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **X93C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **X93C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño **X93C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

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
4.20 LT	3.60 LT	4.40 LT	5.10 LT	7.10 LT	5.00 LT	Ask
AGIP Blasias 460						

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{218}{X+168}$

$F_{eq} (N)$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	1800	9000	140	2700	13500	70	3020	15100
250	2400	12000	120	2800	14000	40	3200	16000
200	2600	13000	85	2900	14500	15	3500	17500

Input shaft
Albero in entrata

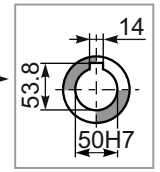
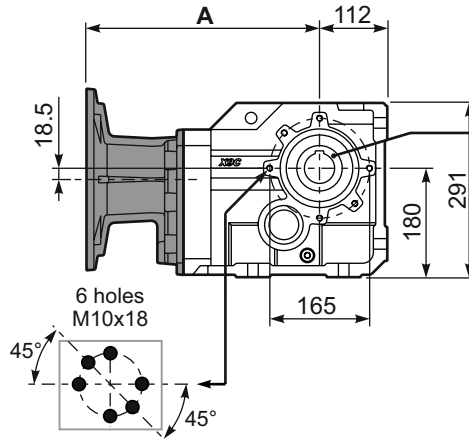
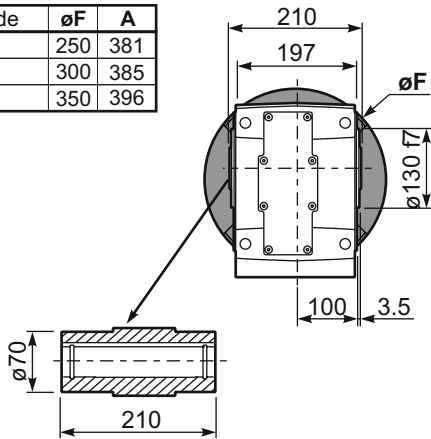
n_1	FA	FR
1400	700	3500
900	840	4200
500	900	4500

tab. 2

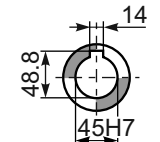
PX93CC... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **75.0 kg**

M. flanges	Kit code	øF	A
100/112B5	-	250	381
132B5	-	300	385
160/180B5	-	350	396



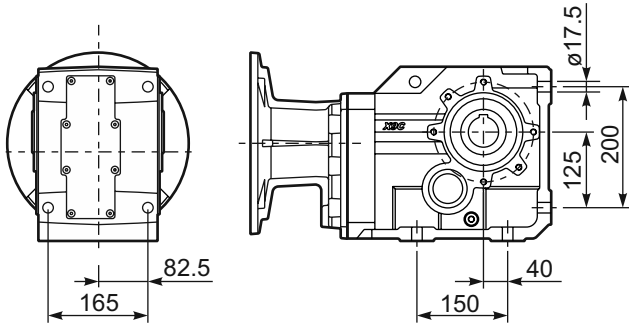
Standard
Hollow shaft



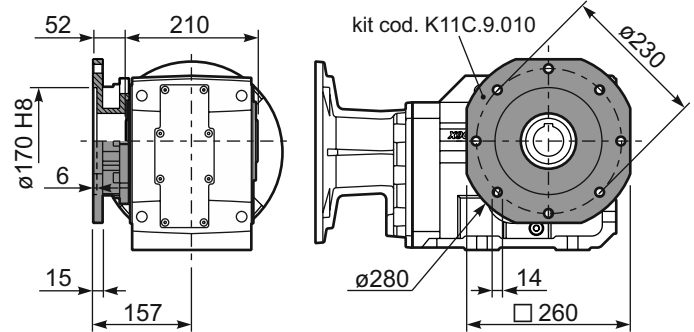
On request
A richiesta

Mounting holes position
Posizione fori di montaggio

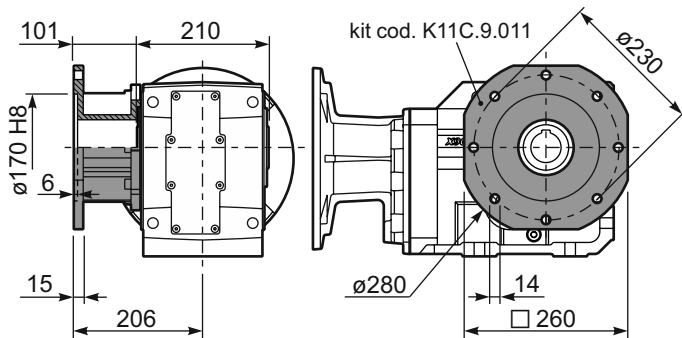
PX93C...FB.. Feet
Piedini



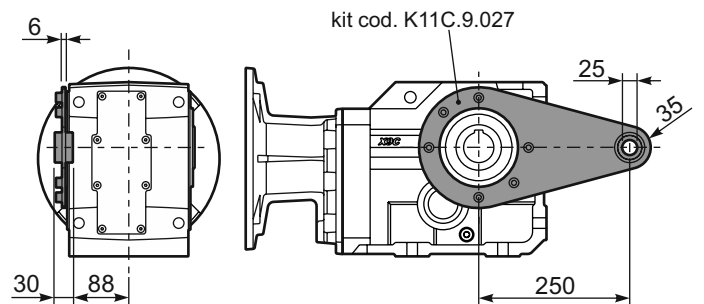
PX93C...-FC.. Output flange
Flangia uscita



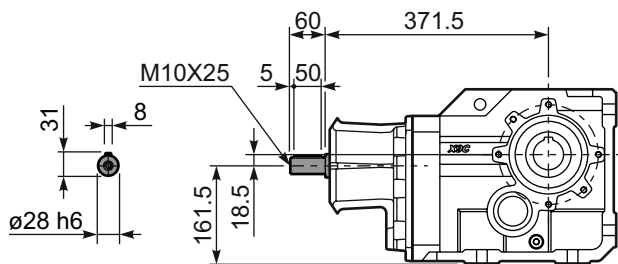
PX93C...-FL.. Output flange
Flangia uscita



PX93C...BR.. Reaction Arm
Braccio di reazione

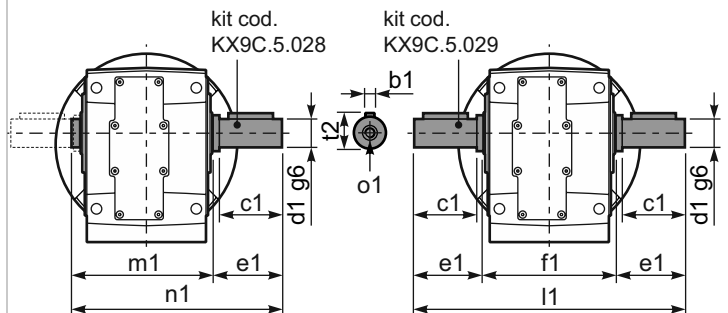


RX93C... Input shaft
Albero in entrata

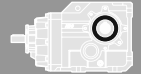


PX93CA... Single shaft
Albero lento semplice

PX93CB... Double shaft
Albero lento bisp.



	b1	c1	d1	e1	f1	l1	m1	n1	t2	o1
Standard	14	100	50	105	210	420	218	323	53.5	M16
-	-	-	-	-	-	-	-	-	-	-



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor $f.s.$	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges					Available B14 motor flanges				Output Shaft 	Ratios code
							-C	-D	-E	-F	-G	-R	-T	-U	-V		
							71	80	90	100 112	132	80	90	100 112	132		
45.6	30.70	7.5	1399	1.1	8.3	1600	B									30132913	01
37.9	36.97	7.5	1685	0.9	6.9	1600	B									30132911	02
29.0	48.26	5.5	1625	1.0	5.3	1600	B									20132915	03
24.2	57.86	4	1425	1.1	4.4	1600	B									20132913	04
21.5	65.24	4	1607	1.0	3.9	1600	B									16132915	05
20.1	69.68	4	1716	1.0	3.8	1650	B									20132911	06
17.9	78.23	3	1450	1.1	3.4	1650	B									16132913	07
16.5	84.85	3	1573	1.0	3.0	1600	B									13132915	08
14.9	94.20	3	1747	0.9	2.8	1650	B									16132911	09
13.8	101.74	3	1886	0.9	2.6	1650	B									13132913	10
11.4	122.51	2.2	1672	1.0	2.1	1650	B									13132911	11
9.3	149.95	1.5	1411	1.2	1.8	1650	B									11132911	12
7.8	180.09	1.5	1694	1.0	1.5	1650	B									8132913	13
6.8	206.81	1.1	1421	1.1	1.2	1600	B									6132915	14
6.5	216.85	1.1	1490	1.1	1.2	1650	B									8132911	15
5.6	247.99	1.1	1704	1.0	1.1	1650	B									6132913	16
4.7	298.61	0.75	1407	1.2	0.88	1650	B									6132911	17

The dynamic efficiency is **0.92** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **X94C** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **X94C** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **X94C** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **X94C** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur

E El reductor tamaño **X94C** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

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
4.50 LT	3.80 LT	4.50 LT	5.30 LT	7.60 LT	5.30 LT	Ask
AGIP Blasias 460						

For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_R (N)$
 $F_A (N)$

$F_{eq} = FR \cdot \frac{218}{X+168}$

$F_{eq} (N)$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	1800	9000	140	2700	13500	70	3020	15100
250	2400	12000	120	2800	14000	40	3200	16000
200	2600	13000	85	2900	14500	15	3500	17500

Input shaft
Albero in entrata

$F_R (N)$
 $F_A (N)$

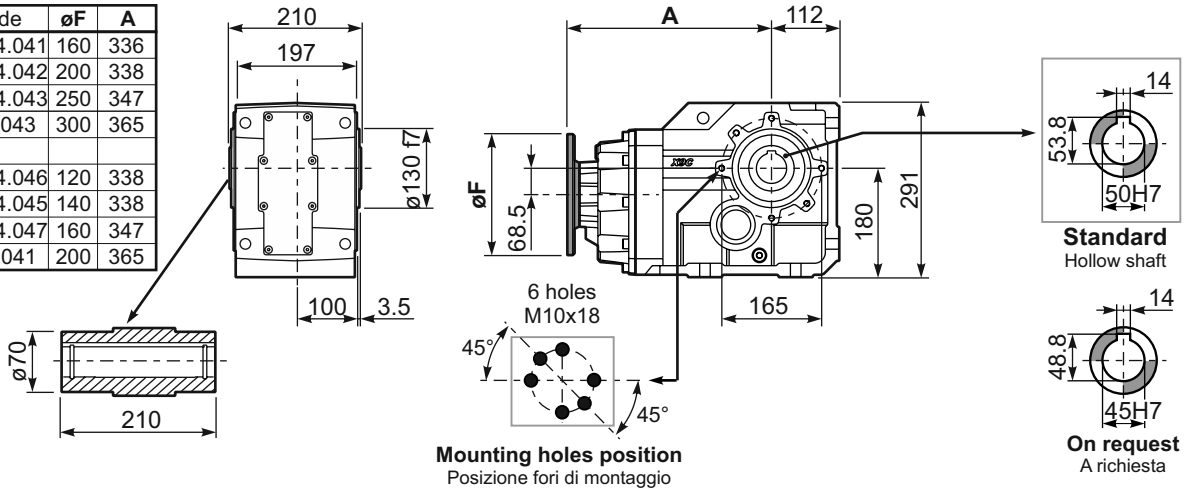
n_1	FA	FR
1400	450	2250
900	500	2500
500	600	3000

tab. 2

PX94CC... Basic Gearbox
Riduttore base

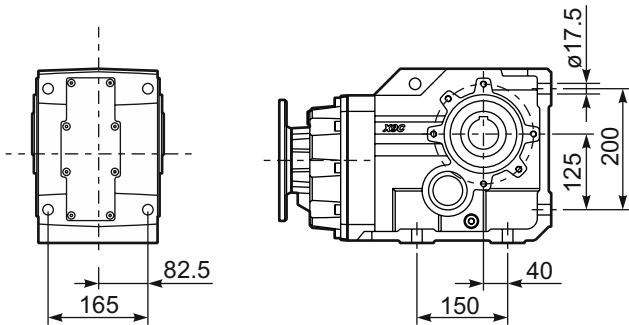
Gearbox weight
peso riduttore **68.5 kg**

M. flanges	Kit code	øF	A
71B5	KC023.4.041	160	336
80/90B5	KC023.4.042	200	338
100/112B5	KC023.4.043	250	347
132B5	KC50.4.043	300	365
80B14	KC085.4.046	120	338
90B14	KC085.4.045	140	338
100/112B14	KC085.4.047	160	347
132B14	KC50.4.041	200	365

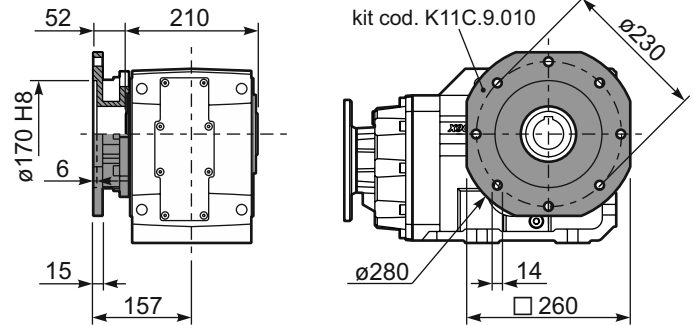


Mounting holes position
Posizione fori di montaggio

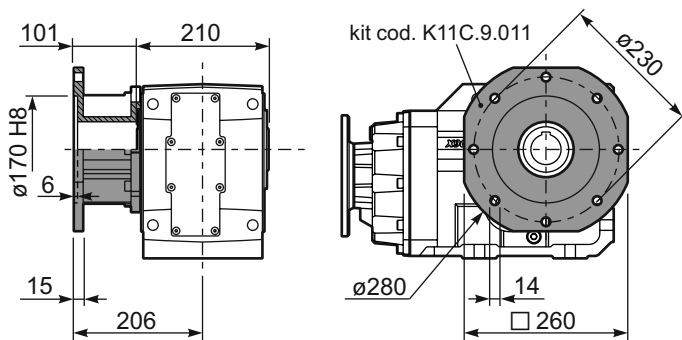
PX94C...FB.. Feet
Piedini



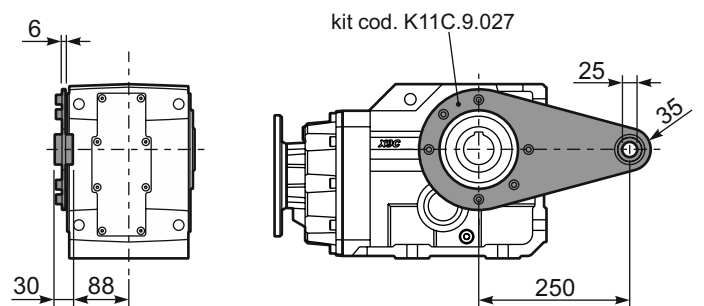
PX94C...-FC.. Output flange
Flangia uscita



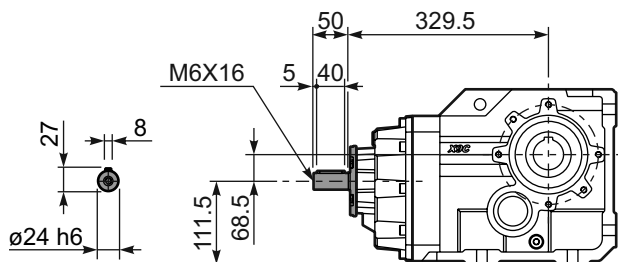
PX94C...-FL.. Output flange
Flangia uscita



PX94C...BR.. Reaction Arm
Braccio di reazione

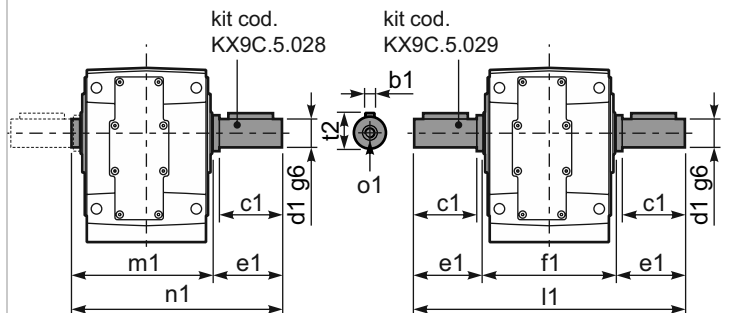


RX94C... Input shaft
Albero in entrata

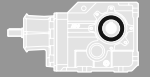


PX94CA... Single shaft
Albero lento semplice

PX94CB... Double shaft
Albero lento bisp.



	b1	c1	d1	e1	f1	l1	m1	n1	t2	o1
Standard	14	100	50	105	210	420	218	323	53.5	M16
-	-	-	-	-	-	-	-	-	-	-



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges				B14 motor flanges				Output Shaft 	Ratios code
							-G	-H	-I	-L	-	-	-	-		
							132	160	180	200	-	-	-	-		
219	6.39	30	1180	1.1	31.7	1300								392914	01	
200	7.00	30	1292	1.1	31.2	1400								392913	02	
164	8.55	30	1578	1.0	27.4	1500								392911	03	
140	10.01	22	1357	1.2	24.9	1600								302914	04	
128	10.97	22	1486	1.1	24.2	1700								302913	05	
105	13.39	22	1815	1.2	24.5	2100								302911	06	
89	15.71	22	2130	1.0	21.8	2200								222914	07	
81	17.21	22	2333	1.0	20.8	2300								222913	08	
67	21.02	18.5	2394	1.0	17.8	2400								222911	09	
59	23.73	18.5	2703	1.0	17.1	2600								162914	10	
54	25.99	18.5	2960	0.9	16.8	2800								162913	11	
50	27.93	15	2576	1.1	16.2	2900								142914	12	
45.8	30.59	15	2822	1.0	14.8	2900								142913	13	
44.1	31.74	15	2928	1.0	14.2	2900								162911	14	
37.5	37.36	11	2532	1.1	12.1	2900								142911	15	
33.8	41.37	11	2804	1.0	10.9	2900								102914	16	
30.9	45.31	9	2618	1.1	10.0	2900								102913	17	
25.3	55.33	7.5	2573	1.2	8.5	3000								102911	18	

The dynamic efficiency is **0.94** for all ratios

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

EN Unit **X103** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **X103** è fornito privo di lubrificazione con tappi di sfianto, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **X103** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **X103** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño **X103** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
11.50 LT	5.50 LT	10.50 LT	7.50 LT	13.50 LT	9.50 LT	Ask
AGIP Blasias 460						

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			Freq = $FR \cdot \frac{253}{X+193}$					
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	2000	10000	140	2800	14000	70	3500	17500
250	2500	12500	120	3000	15000	40	4200	21000
200	2700	13500	85	3200	16000	15	5400	27000
Input shaft Albero in entrata								
n_1	FA	FR						
1400	1120	5600						
900	1220	6100						
500	1300	6500						

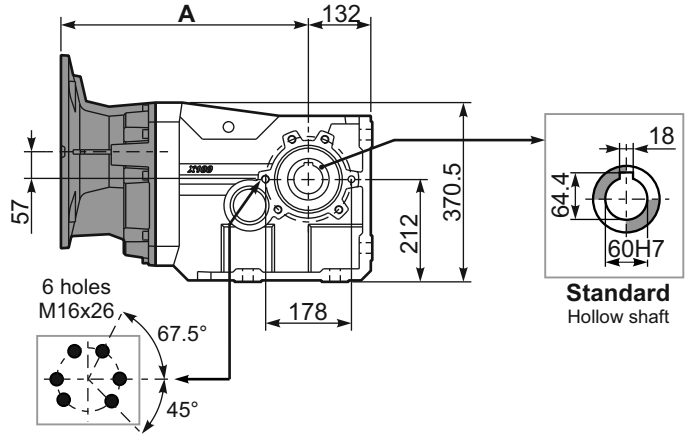
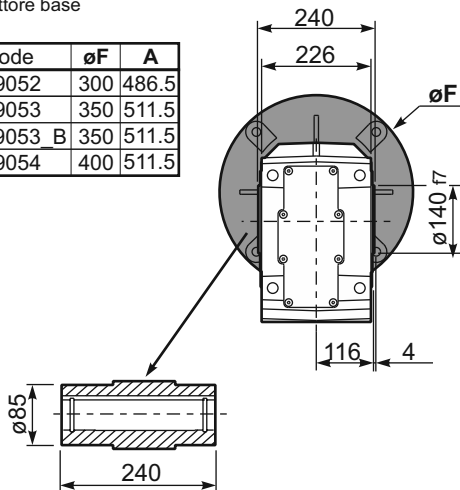
tab. 2

PX103C...

Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **125 kg**

M. flanges	Kit code	øF	A
132B5	KC1109052	300	486.5
160B5	KC1109053	350	511.5
180B5	KC1109053_B	350	511.5
200B5	KC1109054	400	511.5

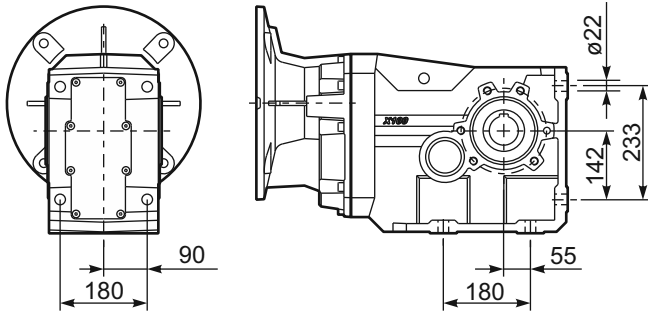


Mounting holes position
Posizione fori di montaggio

Standard
Hollow shaft

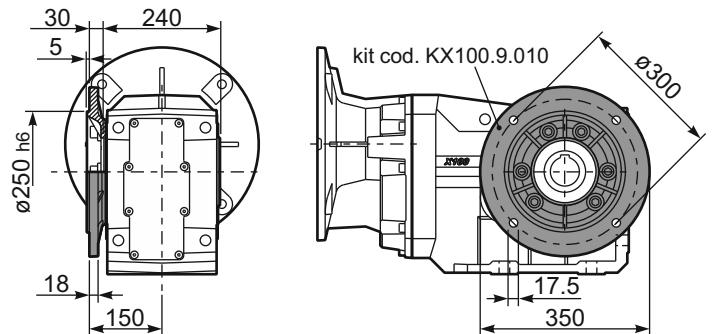
PX103...FB..

Feet
Piedini



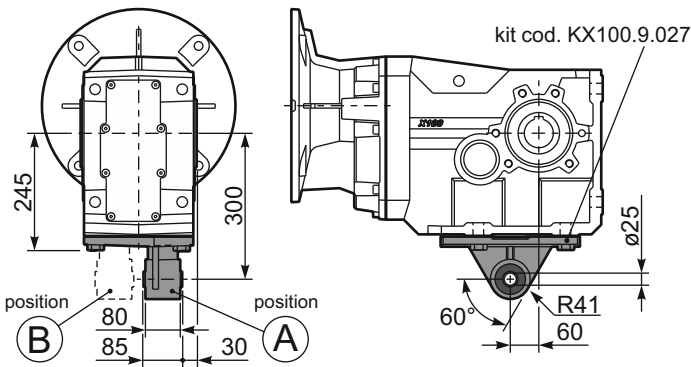
PX103...-F6..

Output flange
Flangia uscita



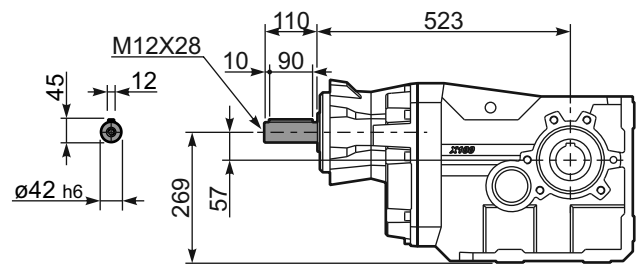
PX103...BR..

Reaction Arm
Braccio di reazione



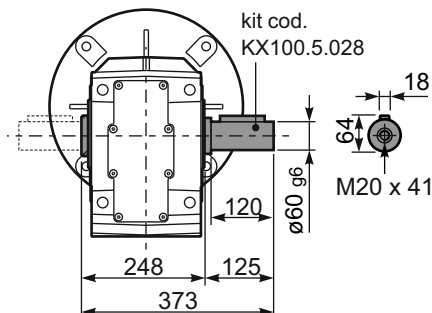
RX103...

Input shaft
Albero in entrata



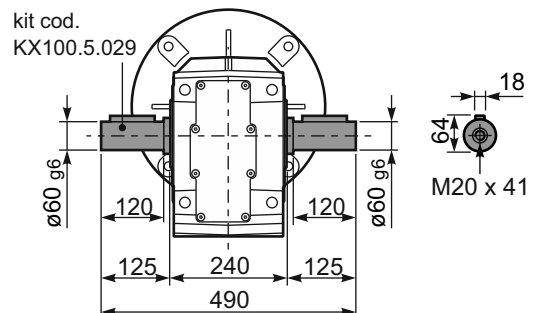
PX103A...

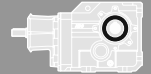
Single shaft
Albero lento semplice



PX103B...

Double shaft
Albero lento bisp.





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges		B14 motor flanges				Output Shaft 	Ratios code
							-F	-G	-	-	-			
							100	132	-	-	-			
28.8	48.57	9	2750	1.1	9.5	2900	B		not available			30142911	standard ø60	01
20.5	68.43	7.5	3118	1.0	7.0	3000	B					20142914		02
18.7	74.95	5.5	2523	1.2	6.4	3000	B					20142913		03
15.1	92.53	5.5	3115	1.0	5.2	3000	B					16142914		04
13.8	101.33	4	2496	1.2	4.7	3000	B					16142913		05
11.6	120.33	4	2963	1.0	4.0	3000	B					13142914		06
11.3	123.75	4	3048	1.0	3.9	3000	B					16142911		07
10.6	131.78	4	3245	0.9	3.6	3000	B					13142913		08
9.5	147.28	3	2731	1.1	3.2	3000	B					11142914		09
8.7	161.30	3	2990	1.0	3.0	3000	B					11142913		10
7.1	196.98	2.2	2689	1.1	2.4	3000	B					11142911		11
6.6	212.99	2.2	2907	1.0	2.2	3000	B					8142914		12
6.0	233.26	2.2	3184	0.9	2.0	3000	B					8142913		13
4.9	284.86	2.2	3889	0.8	1.7	3000	B					8142911		14

The dynamic efficiency is **0.92** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **X104** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **X104** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **X104** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **X104** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño **X104** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
12.00 LT	6.00 LT	11.50 LT	8.00 LT	14.50 LT	11.00 LT	Ask
AGIP Blasias 460						

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

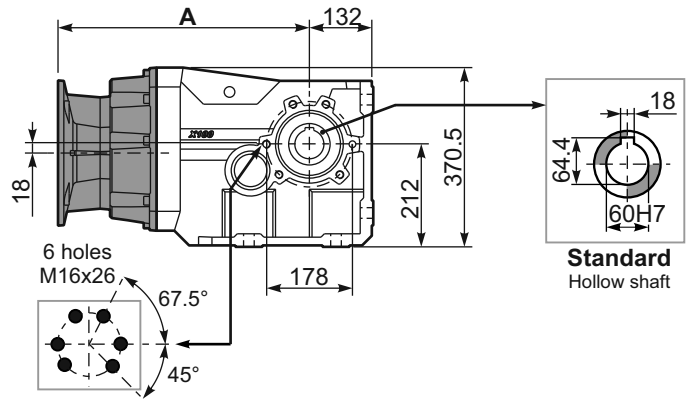
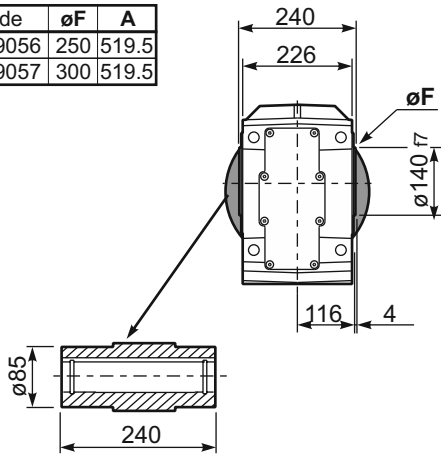
RADIAL AND AXIAL LOADS									
Output shaft Albero di uscita			$F_{eq} = FR \cdot \frac{253}{X+193}$						
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR	
300	2000	10000	140	2800	14000	70	3500	17500	
250	2500	12500	120	3000	15000	40	4200	21000	
200	2700	13500	85	3200	16000	15	5400	27000	
Input shaft Albero in entrata									
n_1	FA	FR							
1400	700	3500							
900	840	4200							
500	900	4500							

tab. 2

PX104C... Basic Gearbox
Riduttore base

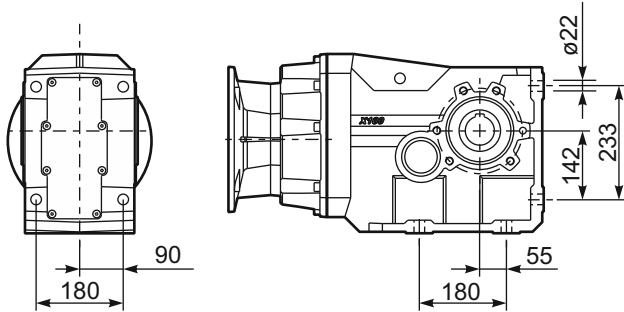
Gearbox weight **118 kg**
peso riduttore

M. flanges	Kit code	øF	A
100/112B5	KC1109056	250	519.5
132B5	KC1109057	300	519.5

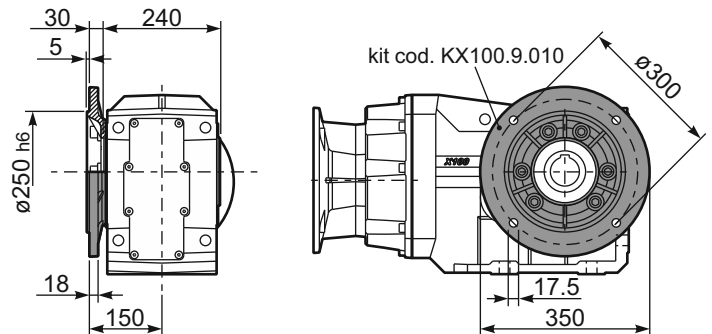


Mounting holes position
Posizione fori di montaggio

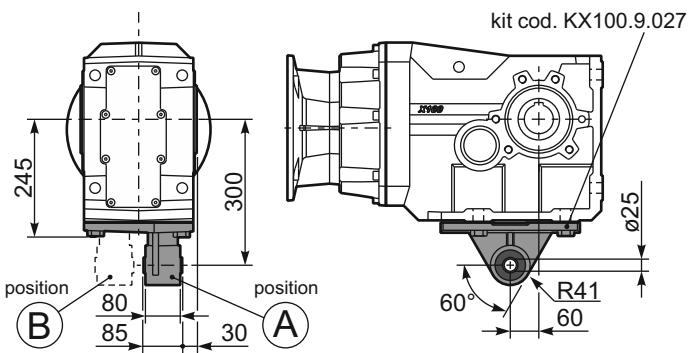
PX104...FB.. Feet
Piedini



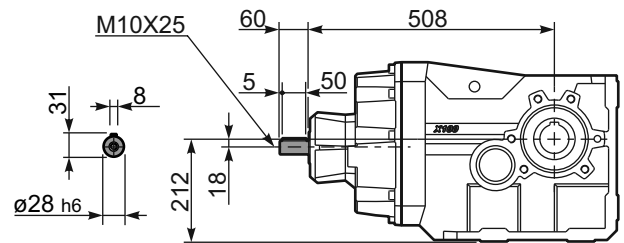
PX104...-F6.. Output flange
Flangia uscita



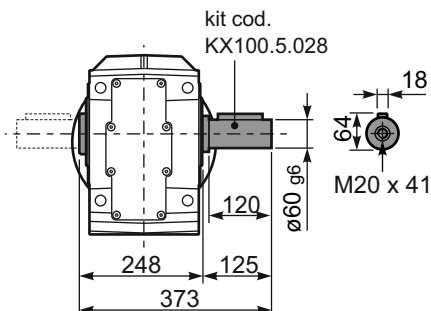
PX104...BR.. Reaction Arm
Braccio di reazione



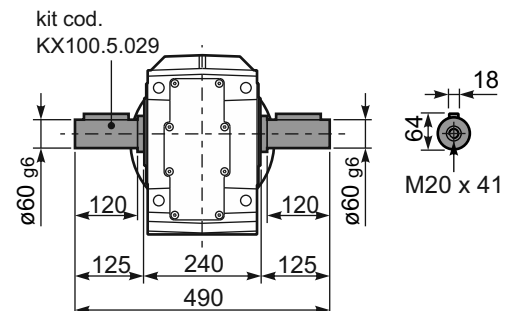
RX104... Input shaft
Albero in entrata

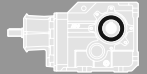


PX104A... Single shaft
Albero lento semplice



PX104B... Double shaft
Albero lento bisp.





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges					B14 motor flanges			Output Shaft 	Ratios code
							-G	-H	-I	-L	CA	-	-	-		
							132	160	180	200	225	-	-	-		
219	6.39	45	1757	1.4	61.0	2500								392914	01	
200	7.00	45	1925	1.4	59.0	2650								392913	02	
164	8.55	45	2350	1.2	51.1	2800								392911	03	
140	10.01	45	2752	1.2	49.8	3200								302914	04	
128	10.97	45	3014	1.1	45.5	3200								302913	05	
105	13.39	37	3025	1.1	39.6	3400								302911	06	
89	15.71	37	3550	1.0	34.7	3500								222914	07	
81	17.21	37	3888	1.0	33.5	3700								222913	08	
67	21.02	30	3877	1.0	29.7	4000								222911	09	
59	23.73	30	4378	0.9	26.9	4100								162914	10	
54	25.99	22	3523	1.2	25.8	4300								162913	11	
50	27.93	22	3786	1.1	24.0	4300								142914	12	
45.8	30.59	22	4146	1.1	22.9	4500								142913	13	
44.1	31.74	22	4302	1.0	22.1	4500								162911	14	
37.5	37.36	18.5	4255	1.1	18.8	4500								142911	15	
33.8	41.37	18.5	4712	1.0	17.0	4500								102914	16	
30.9	45.31	15	4179	1.1	15.5	4500								102913	17	
25.3	55.33	11	3750	1.2	12.7	4500								102911	18	

The dynamic efficiency is **0.94** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit X113 is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo X113 è fornito privo di lubrificazione con tappi di sfio, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße X113 wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type X113 est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño X113 se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
13.50 LT	8.00 LT	15.50 LT	14.50 LT	22.00 LT	13.00 LT	Ask
AGIP Blasias 460						

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = FR \cdot \frac{325.5}{X+255.5}$					
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	2100	10500	140	3100	15500	70	4200	21000
250	2600	13000	120	3240	16200	40	5600	28000
200	3000	15000	85	3600	18000	15	8000	40000
Input shaft Albero in entrata								
n_1	FA	FR						
1400	1120	5600						
900	1220	6100						
500	1300	6500						

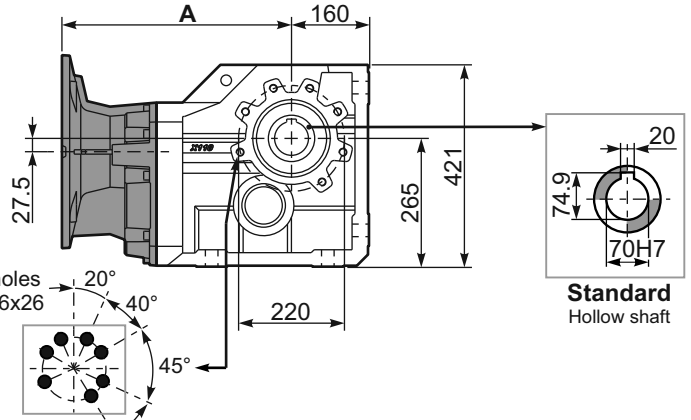
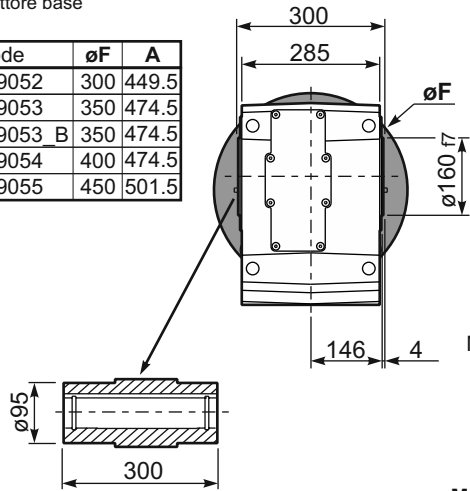
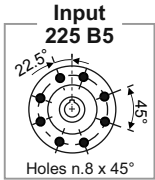
tab. 2

PX113C...

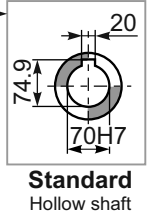
Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **170 kg**

M. flanges	Kit code	øF	A
132B5	KC1109052	300	449.5
160B5	KC1109053	350	474.5
180B5	KC1109053_B	350	474.5
200B5	KC1109054	400	474.5
225B5	KC1109055	450	501.5

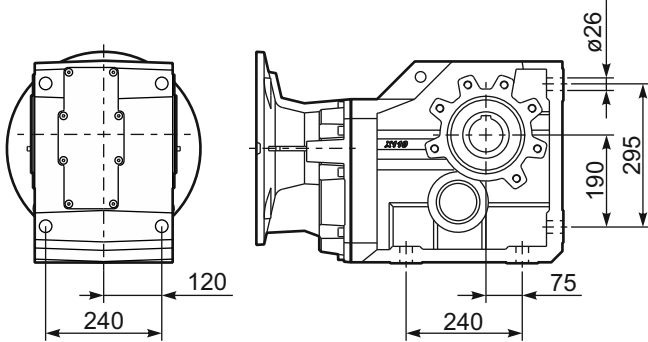


Mounting holes position
Posizione fori di montaggio



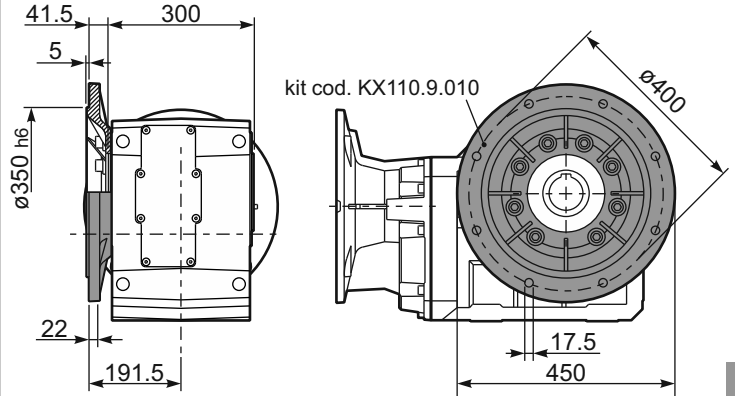
PX113...FB..

Feet
Piedini



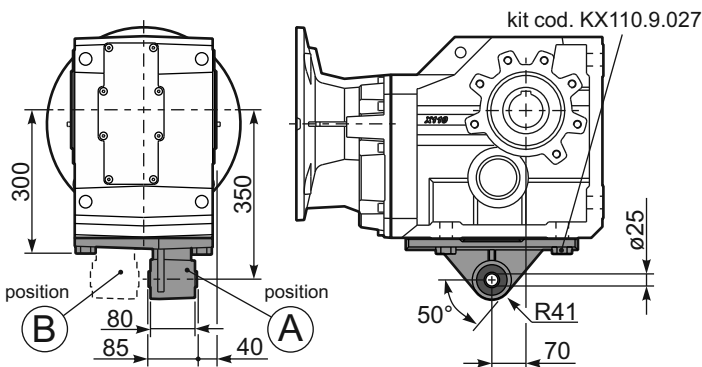
PX113...-F7..

Output flange
Flangia uscita



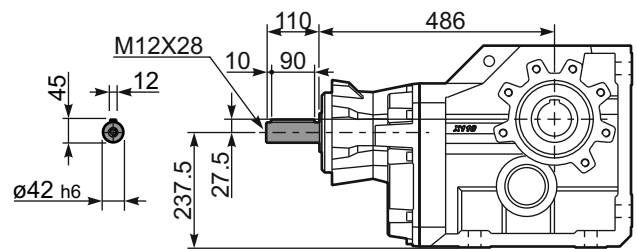
PX113...BR..

Reaction Arm
Braccio di reazione



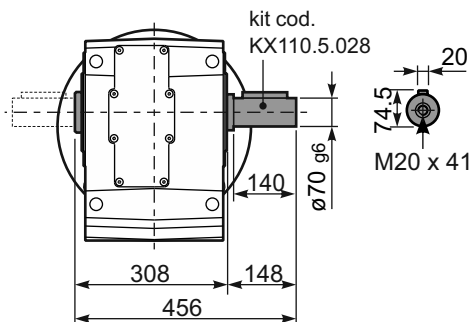
RX113...

Input shaft
Albero in entrata



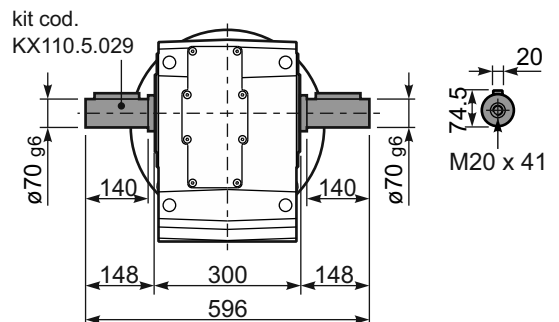
PX113A...

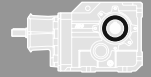
Single shaft
Albero lento semplice



PX113B...

Double shaft
Albero lento bisp.





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges			B14 motor flanges			Output Shaft 	Ratios code
							-F	-G	-H	-	-	-		
							100 112	132	160	-	-	-		
28.8	48.57	15	4390	1.0	14.8	4500	B						30142911	01
20.5	68.43	11	4545	1.0	10.7	4600	B						20142914	02
18.7	74.95	11	4977	0.9	9.8	4600	B						20142913	03
15.1	92.53	7.5	4216	1.1	7.9	4600	B						16142914	04
13.8	101.33	7.5	4617	1.0	7.2	4600	B						16142913	05
11.6	120.33	5.5	4051	1.1	6.1	4600	B						13142914	06
11.3	123.75	5.5	4166	1.1	5.8	4500	B						16142911	07
10.6	131.78	5.5	4436	1.0	5.6	4600	B						13142913	08
9.5	147.28	5.5	4958	0.9	5.0	4600	B						11142914	09
8.7	161.30	4	3972	1.2	4.5	4600	B						11142913	10
7.1	196.98	3	3652	1.2	3.6	4500	B						11142911	11
6.6	212.99	3	3949	1.2	3.4	4600	B						8142914	12
6.0	233.26	3	4324	1.1	3.1	4600	B						8142913	13
4.9	284.86	2.2	3889	1.2	2.5	4500	B						8142911	14

The dynamic efficiency is **0.92** for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **X114** is supplied without lubricant and equipped with a breather, level and drain plugs. User can add mineral oil keeping existing plugs. Should the user wish to fill it with synthetic oil, it is recommended to replace the existing plugs with a closed plug. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

I Il riduttore tipo **X114** è fornito privo di lubrificazione con tappi di sfiato, livello e scarico olio. L'utente può immettere olio minerale mantenendo i tappi esistenti. Se immetterà olio sintetico, dovrà sostituire i tappi esistenti con altri tipo chiuso. Tab.1 per oli e quantità consigliati. Tab.2 carichi radiali e assiali applicabili al riduttore.

D Das Getriebe der Baugröße **X114** wird ohne Schmiermittel geliefert. Es ist jedoch mit Einfüllschraube, Überdruckventil und Ablassschraube ausgerüstet. Das benötigte mineralische Öl kann über die Einfüllschraube eingefüllt werden. Sollte synthetisches Öl bevorzugt werden, so ist sind das eingebaute Überdruckventil durch eine geschlossenen Schraube zu ersetzen. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt.

F Le réducteur de type **X114** est fourni sans lubrification et avec un bouchon de remplissage, de niveau et d'évacuation de l'huile. L'utilisateur peut y verser de l'huile minérale en conservant les bouchons existants. S'il y versera de l'huile synthétique, il devra substituer les bouchons existants avec d'autres bouchons de type fermé. Voir tableau 1 concernant les huiles et les quantités conseillées. Voir tableau 2 concernant les charges radiales et axiales applicables au réducteur.

E El reductor tamaño **X114** se suministra sin lubricante, provisto de tapones de respiración, nivel y descarga de aceite. El usuario puede utilizar aceite mineral, manteniendo los tapones existentes. Si prefiere utilizar aceite sintético deberá sustituir los tapones existentes por tapones ciegos. La prerreducción se suministra con tapones ciegos, lubricado de por vida con aceite sintético. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

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
14.50 LT	8.50 LT	16.50 LT	16.00 LT	23.00 LT	14.50 LT	Ask

AGIP Blasias 460

For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{325.5}{X+255.5}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	2100	10500	140	3100	15500	70	4200	21000
250	2600	13000	120	3240	16200	40	5600	28000
200	3000	15000	85	3600	18000	15	8000	40000

Input shaft
Albero in entrata

n_1	FA	FR
1400	700	3500
900	840	4200
500	900	4500

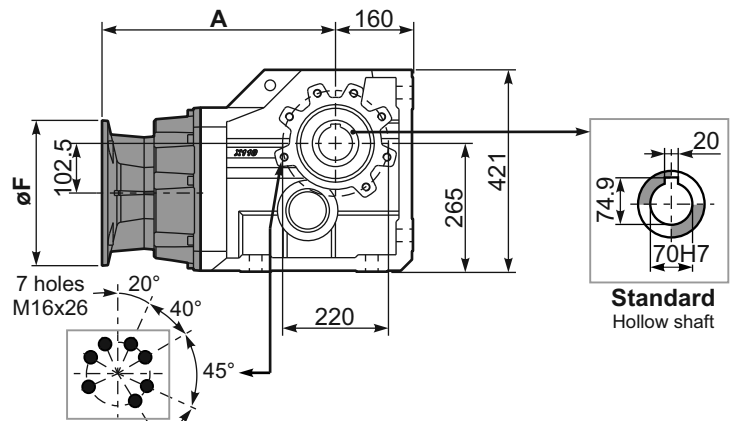
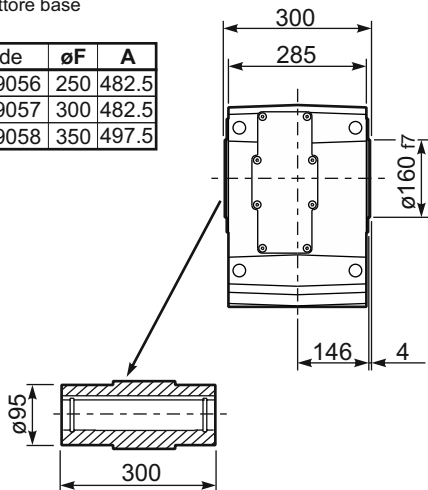
tab. 2

PX114C...

Basic Gearbox
Riduttore base

Gearbox weight **161 kg**
peso riduttore

M. flanges	Kit code	øF	A
100/112B5	KC1109056	250	482.5
132B5	KC1109057	300	482.5
160B5	KC1109058	350	497.5

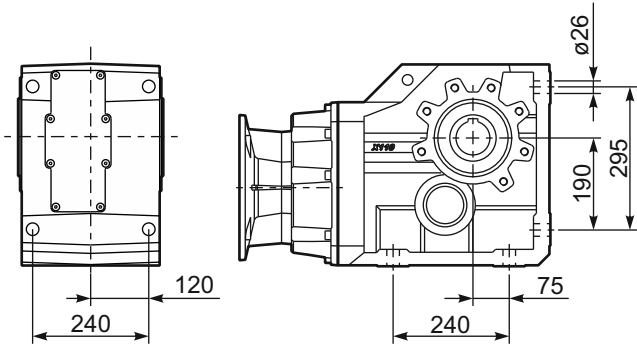


Mounting holes position
Posizione fori di montaggio

Standard
Hollow shaft

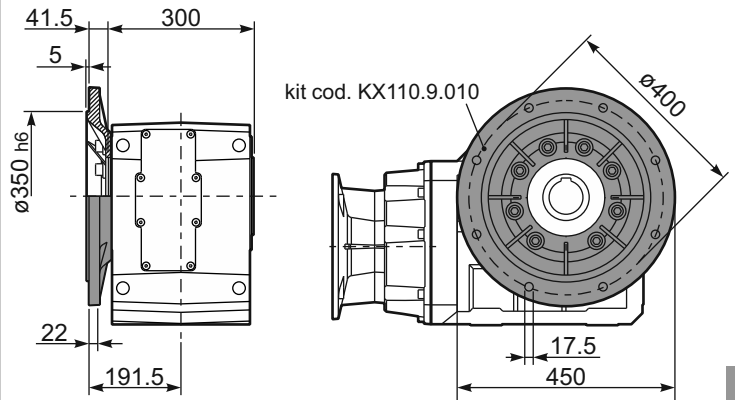
PX114...FB..

Feet
Piedini



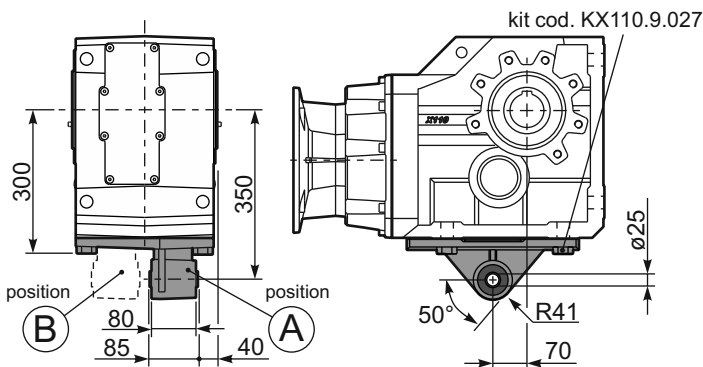
PX114...-F7..

Output flange
Flangia uscita



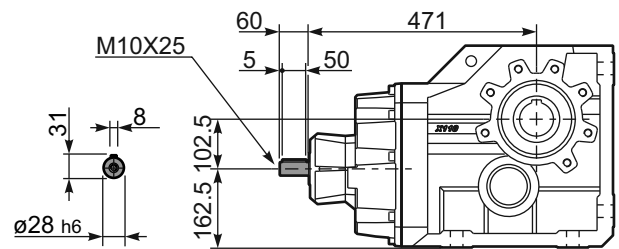
PX114...BR..

Reaction Arm
Braccio di reazione



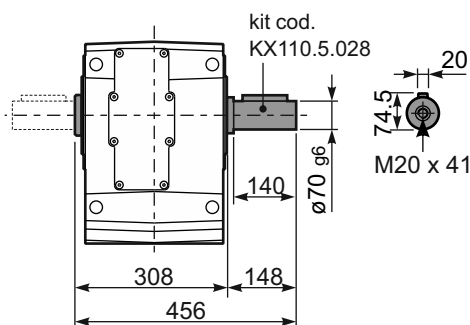
RX114...

Input shaft
Albero in entrata



PX114A...

Single shaft
Albero lento semplice



PX114B...

Double shaft
Albero lento bisp.

