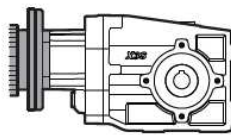
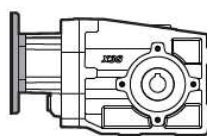
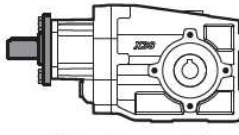
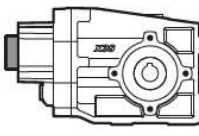
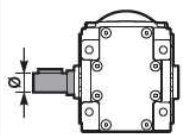
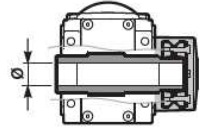
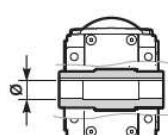
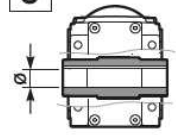
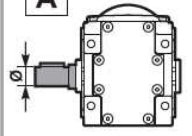
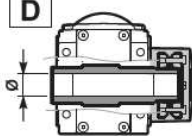


CODIFICA / HOW TO ORDER / TYPENBEZEICHNUNGEN / CODIFICACIÓN

Type - Tipo - Typ - Tipo	Size - Grandezza Größe - Tamaño	Mounting - Montaggio Montaje - Tipo de montaje	Rapporto - Ratio Untersetzung - Relacion	Output shaft Albero uscita Ausgangsflansch Brida en solida
M	X22S	C	4.83	A
<p>Helical-bevel gear Riduttori ortogonali</p>  <p>With IEC motor M</p>  <p>With motor flange P</p>  <p>With male input shaft R</p>  <p>Modular base B</p>	<p>2 Stages Riduzioni Stufen Etapas</p> <p>3 Stages Riduzioni Stufen Etapas</p> <p>Aluminum Alluminio Aluminium Aluminio</p> <p>X22S X32S X42A X52A X62A</p> <p>X33S X43A X53A X63A</p>	<p>Hollow output shaft C</p>  <p>Single output shaft A</p>  <p>Shrink Disk (only on the DX side) D</p> <p>Only on request for Q.ty A richiesta per quantità</p>  <p>Stainless steel hub I</p> <p>Stainless steel hub Mozzo in acciaio Inox Edelstahlhohwelle Nucleo corona de acero Inox</p> <p>Only on request for Q.ty A richiesta per quantità</p>	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Technisches Datenblatt beachten.</p> <p>Ver tabla datos técnicos</p>	<p>C</p>  <p>→ STANDARD</p> <p>X22S A → $\varnothing 18$ B → $\varnothing 20$</p> <p>X32S X33S B → $\varnothing 20$ C → $\varnothing 25$</p> <p>X42A X43A C → $\varnothing 25$ D → $\varnothing 30$</p> <p>X52A X53A D → $\varnothing 30$ E → $\varnothing 35$</p> <p>X62A X63A E → $\varnothing 35$ F → $\varnothing 40$</p> <p>A</p>  <p>Single output shaft</p> <p>I X22S X32/3S → $\varnothing 20$ L X32/3S X42/3A → $\varnothing 25$ M X52/3A → $\varnothing 30$ N X62/3A → $\varnothing 35$</p> <p>D</p>  <p>Shrink Disk</p> <p>U X22S X32/3S → $\varnothing 20$ Q X42/3A → $\varnothing 30$ R X52/3A → $\varnothing 35$ S X62/3A → $\varnothing 40$</p>



A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

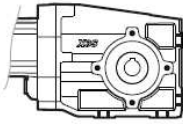
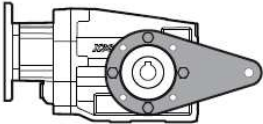
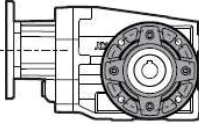
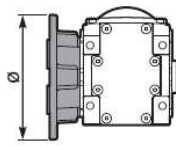




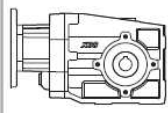


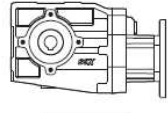
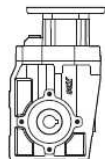
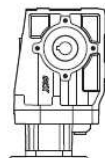
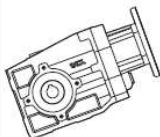
On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

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



CODIFICA / HOW TO ORDER / TYPENBEZEICHNUNGEN / CODIFICACIÓN

Type - Tipo Typ - Tipo	Output flange Flangia di uscita Ausgangs Flansch Brida en salida	Motor size Grandezza motore Motor Grösse Tamaño motor	Terminal box position Posizione morsettiere Klemmkastenlage Posición caja de bornes	Mounting position Posizione montaggio Einbaulage Posición de montaje																												
BR	N	O	B	B3																												
 <p>FB Forma base Universal</p>  <p>BR Braccio d reazione Reaction arm</p>  <p>- F Flangia uscita output flange</p>	 <p>N Senza flangia Without flange</p> <p>X22S</p> <p>0 ⇨ Ø110</p> <p>1 ⇨ Ø120</p> <p>X32S X33S</p> <p>1 ⇨ Ø120</p> <p>2 ⇨ Ø160</p> <p>X42A X43A</p> <p>2 ⇨ Ø160</p> <p>3 ⇨ Ø200</p> <p>4 ⇨ Ø250</p> <p>X52A X53A X62A X63A</p> <p>2 ⇨ Ø160</p> <p>3 ⇨ Ø200</p> <p>4 ⇨ Ø250</p>	<p>Standard motor flange Flangia motore standard</p> <table border="1"> <tr> <td>B5</td> <td>B14</td> </tr> <tr> <td>A=56 (Ø120)</td> <td>O=56 (Ø80)</td> </tr> <tr> <td>B=63 (Ø140)</td> <td>P=63 (Ø90)</td> </tr> <tr> <td>C=71 (Ø160)</td> <td>Q=71 (Ø105)</td> </tr> <tr> <td>D=80 (Ø200)</td> <td>R=80 (Ø120)</td> </tr> <tr> <td>E=90 (Ø200)</td> <td>T=90 (Ø140)</td> </tr> <tr> <td>F=100+112 (Ø250)</td> <td>U=100+112 (Ø160)</td> </tr> <tr> <td></td> <td>V=132 (Ø200)</td> </tr> </table> <p>Input shaft type R / Tipo R</p> <table border="1"> <tr> <td>X22S X33S X43A</td> <td>X32S X42A X53A X63A</td> </tr> <tr> <td>1 ⇨ Ø14</td> <td>2 ⇨ Ø19</td> </tr> </table> <p>X52A X62A</p> <p>3 ⇨ Ø24</p> <p>Input model base bore Foro entrata standard</p> <table border="1"> <tr> <td>X22S X33S X43A</td> <td>X32S X42A X53A X63A</td> </tr> <tr> <td>Z ⇨ Ø9 (56B5)</td> <td>1 ⇨ Ø14 (71B5)</td> </tr> <tr> <td>0 ⇨ Ø11 (63B5)</td> <td>2 ⇨ Ø19 (80B5)</td> </tr> <tr> <td>1 ⇨ Ø14 (71B5)</td> <td>3 ⇨ Ø24 (90B5)</td> </tr> </table> <p>X52A X62A</p> <p>2 ⇨ Ø19 (80B5)</p> <p>3 ⇨ Ø24 (90B5)</p> <p>4 ⇨ Ø28 (100B5)</p> <p>STANDARD</p>	B5	B14	A =56 (Ø120)	O =56 (Ø80)	B =63 (Ø140)	P =63 (Ø90)	C =71 (Ø160)	Q =71 (Ø105)	D =80 (Ø200)	R =80 (Ø120)	E =90 (Ø200)	T =90 (Ø140)	F =100+112 (Ø250)	U =100+112 (Ø160)		V =132 (Ø200)	X22S X33S X43A	X32S X42A X53A X63A	1 ⇨ Ø14	2 ⇨ Ø19	X22S X33S X43A	X32S X42A X53A X63A	Z ⇨ Ø9 (56B5)	1 ⇨ Ø14 (71B5)	0 ⇨ Ø11 (63B5)	2 ⇨ Ø19 (80B5)	1 ⇨ Ø14 (71B5)	3 ⇨ Ø24 (90B5)	 <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p>	 <p>B3 STANDARD</p>  <p>B6</p>  <p>B7</p>  <p>B8</p>  <p>V5</p>  <p>V6</p>  <p>V8</p> <p>Specify only for vertical positions</p> <p>Specificare solo per posizione verticale</p>
B5	B14																															
A =56 (Ø120)	O =56 (Ø80)																															
B =63 (Ø140)	P =63 (Ø90)																															
C =71 (Ø160)	Q =71 (Ø105)																															
D =80 (Ø200)	R =80 (Ø120)																															
E =90 (Ø200)	T =90 (Ø140)																															
F =100+112 (Ø250)	U =100+112 (Ø160)																															
	V =132 (Ø200)																															
X22S X33S X43A	X32S X42A X53A X63A																															
1 ⇨ Ø14	2 ⇨ Ø19																															
X22S X33S X43A	X32S X42A X53A X63A																															
Z ⇨ Ø9 (56B5)	1 ⇨ Ø14 (71B5)																															
0 ⇨ Ø11 (63B5)	2 ⇨ Ø19 (80B5)																															
1 ⇨ Ø14 (71B5)	3 ⇨ Ø24 (90B5)																															



X22S Angletech Gear 50Nm

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

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

EN Unit X22S is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore X22S viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe X22S ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño 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. Para documentación completa, consultar nuestra Web.

Standard supplied For these mounting position specify in the order or add oil
Per queste posizioni specificare in fase d'ordine o aggiungere olio

B3	B6	B7	B8	V5	V6	V8
0.25 LT	0.25 LT	0.25 LT	0.25 LT	0.43 LT	0.31 LT	0.25 LT
AGIP Telenium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

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

•RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

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
600	190	950

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



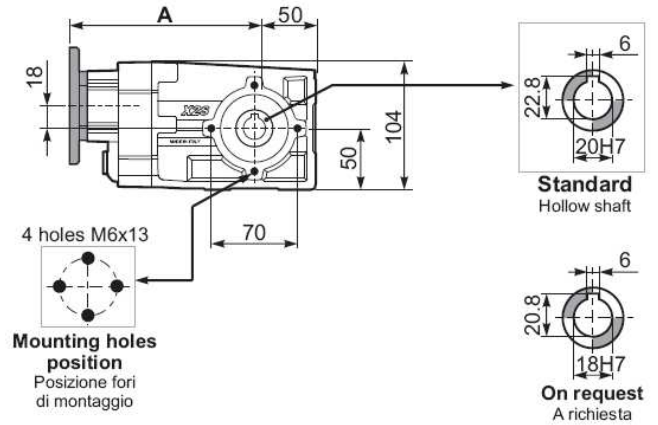
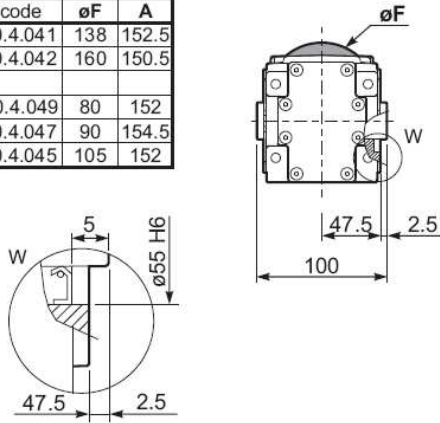
3D dimensions on the Web

Angletech Gear
50Nm X22S

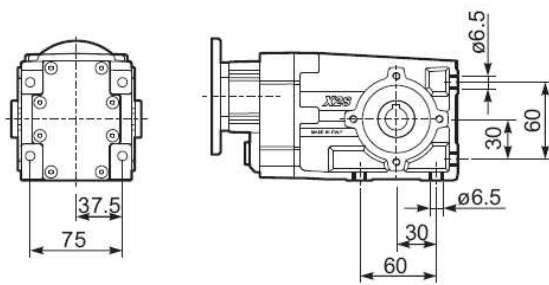
PX22S C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **3.70 kg**

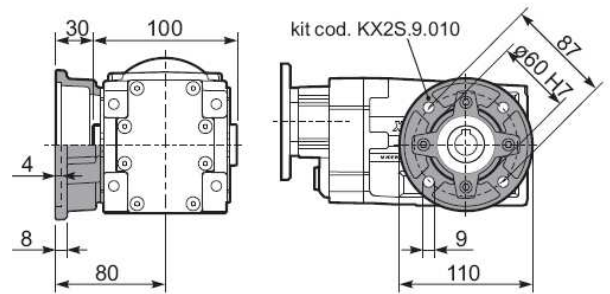
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	152.5
71B5	K050.4.042	160	150.5
56B14	KC40.4.049	80	152
63B14	K050.4.047	90	154.5
71B14	K050.4.045	105	152



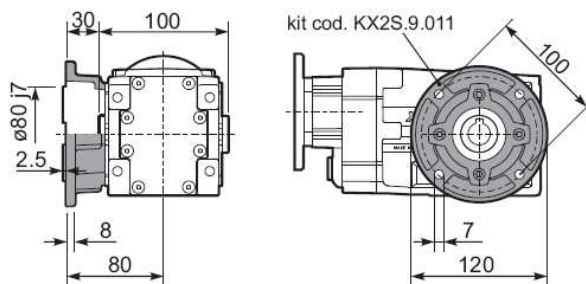
PX22S..-N.. Feet
Piedini



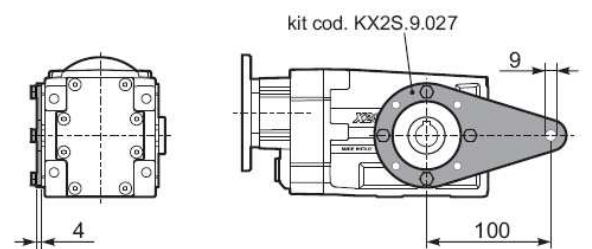
PX22S-F0.. Output flange
Flangia uscita



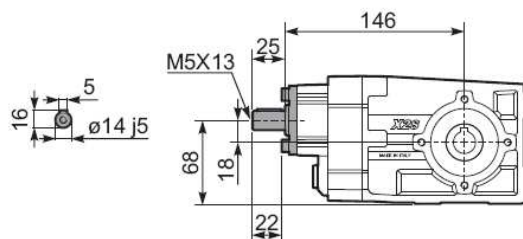
PX22S-F1.. Output flange
Flangia uscita



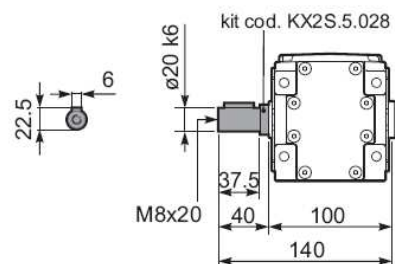
PX22S BR.. Reaction Arm
Braccio di reazione



RX22S.. Input shaft
Albero in entrata

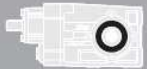


PX22S..A.. Single output shaft
Albero semplice in uscita



X32S Angletech Gear 90Nm

Rating - Alluminum
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 \varnothing Ratios code	
							B	C	D	E	Q	R	T		
							63	71	80	90	71	80	90		
190.9	7.33	1.5	71.8	1.0	1.46	70	B				C	C		289	standard ø20
124.7	11.22	1.1	80.3	1.1	1.16	85	B				C	C		287	
105.6	13.26	1.1	94.9	0.9	0.98	85	B				C	C		199	
91.1	15.37	1.1	110.0	0.8	0.89	90	B				C	C		179	
77.6	18.04	0.75	88.6	1.0	0.76	90	B				C	C		159	
69.0	20.30	0.75	99.6	0.9	0.68	90	B				C	C		197	
65.0	21.54	0.75	105.7	0.9	0.64	90	B				C	C		139	
59.5	23.53	0.55	85.2	1.1	0.58	90	B				C	C		177	
50.7	27.62	0.55	100.0	0.9	0.50	90	B				C	C		157	
47.6	29.40	0.55	106.4	0.8	0.47	90	B				C	C		109	
42.5	32.97	0.37	79.8	1.1	0.42	90	B				C	C		137	
36.5	38.37	0.37	92.9	1.0	0.36	90	B				C	C		99	
31.1	45.00	0.25	73.5	1.2	0.31	90	B				C	C		107	
27.6	50.67	0.25	82.7	1.1	0.27	90	B				C	C		79	
23.8	58.73	0.18	73.3	1.2	0.23	90	B				C	C		97	
18.1	77.55	0.18	96.8	0.9	0.18	90	B				C	C		77	

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

EN Unit **X32S** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **X32S** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X32S** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X32S** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil					
0.40 LT	0.60 LT	0.40 LT	0.60 LT	0.85 LT	0.60 LT	0.40 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

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

-RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n 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
600	340	1700

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



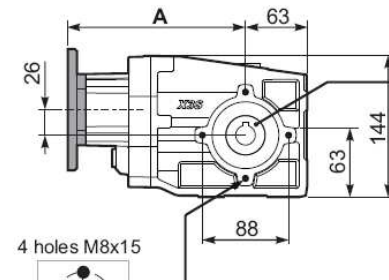
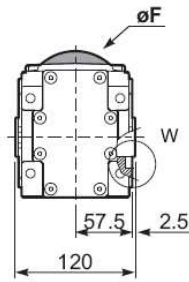
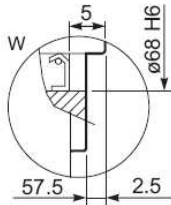
3D dimensions on the Web

Angletech Gear **90Nm X32S**

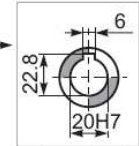
PX32S**C**... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **6.30 kg**

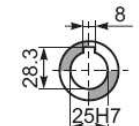
M. flanges	Kit code	øF	A
63B5	K063.4.041	140	184
71B5	K063.4.042	160	182
80/90B5	K063.4.043	200	184
71B14	K063.4.047	105	182
80B14	K063.4.046	120	183
90B14	K063.4.041	140	184



4 holes M8x15
Mounting holes position
Posizione fori di montaggio

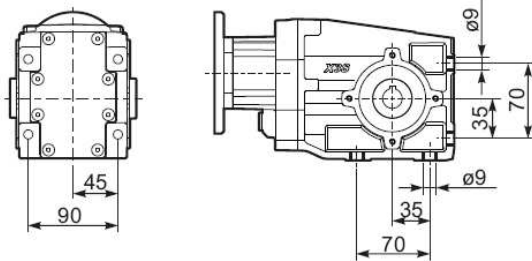


Standard
Hollow shaft

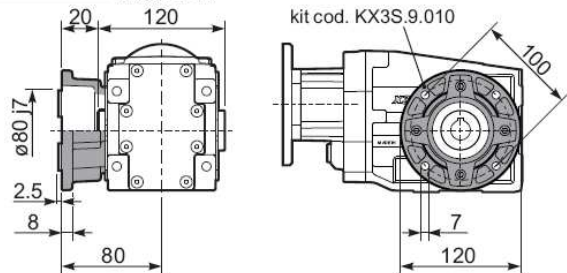


On request
A richiesta

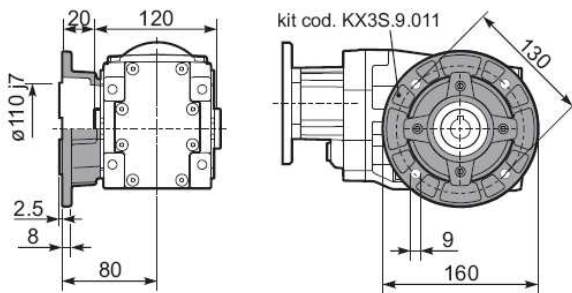
PX32S..**N**... Feet
Piedini



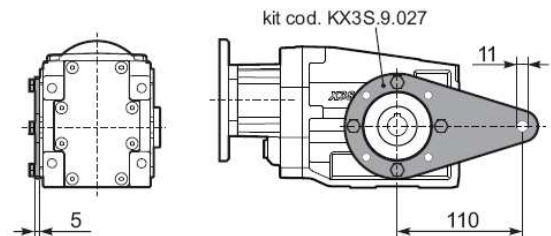
PX32S..**F1**... Output flange
Flangia uscita



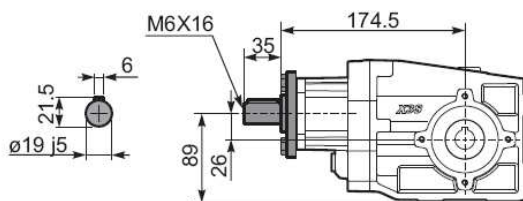
PX32S..**F2**... Output flange
Flangia uscita



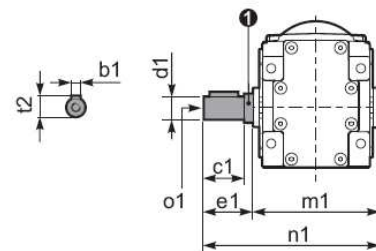
PX32S..**BR**... Reaction Arm
Braccio di reazione



RX32S... Input shaft
Albero in entrata



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



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



MSF-Vathauer Antriebstechnik GmbH & Co KG Am Hessentuch 6-8 32758 Detmold

Tel: +49 (0)5231 – 66193 + 63030 Fax: +49 (0)5231 – 66856

Email: info@msf-technik.de www.msf-technik.de

X33S Angletech Gear 100Nm

Rating - Alluminum
HELICAL-BEVEL GEARBOXES



QUICK SELECTION / Selezione veloce The dynamic efficiency is **0.93** for all ratios **input speed (n₁) = 1400 min⁻¹**

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Output Shaft Ratios code	
							B	C	O	P	Q		
							63	71	56	63	71		
38.7	36.17	0.37	85.8	1.2	0.42	100			C	C		17179	standard ø20 ø25 On request
31.7	44.21	0.37	104.9	1.0	0.35	100			C	C		19139	
27.6	50.68	0.25	81.1	1.2	0.30	100			C	C		17139	
25.3	55.36	0.25	88.6	1.1	0.28	100			C	C		17177	
23.2	60.31	0.25	96.5	1.0	0.25	100			C	C		15139	
21.3	65.88	0.25	105.4	0.9	0.23	100			C	C		15177	
19.4	72.25	0.18	88.4	1.1	0.21	100			C	C		10179	
17.6	79.64	0.18	97.4	1.0	0.19	100			C	C		13177	
15.2	92.31	0.18	112.9	0.9	0.17	100			C	C		15137	
14.6	95.65	0.18	117.0	0.9	0.16	100			C	C		9179	
13.8	101.23	0.12	80.0	1.2	0.15	100			C	C		10139	
11.0	127.37	0.12	100.7	1.0	0.12	100			C	C		7179	
9.3	151.16	0.09	95.3	1.0	0.10	100			C	C		6179	
7.8	178.46	0.09	112.5	0.9	0.09	100			C	C		7139	
6.6	211.79	0.06	87.7	1.1	0.07	100			C	C		6139	
6.1	231.37	0.06	95.8	1.0	0.07	100			C	C		6177	
5.1	273.16	0.06	113.1	0.9	0.06	100			C	C		7137	
4.3	324.18	0.06	134.2	0.7	0.05	100			C	C		6137	

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

EN Unit **X33S** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **X33S** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X33S** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X33S** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied For these mounting position specify in the order or add oil
Per queste posizioni specificare in fase d'ordine o aggiungere olio

B3	B6	B7	B8	V5	V6	V8
0.70 LT	0.65 LT	0.40 LT	0.65 LT	0.95 LT	0.65 LT	0.45 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

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

-RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n 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
600	190	950

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



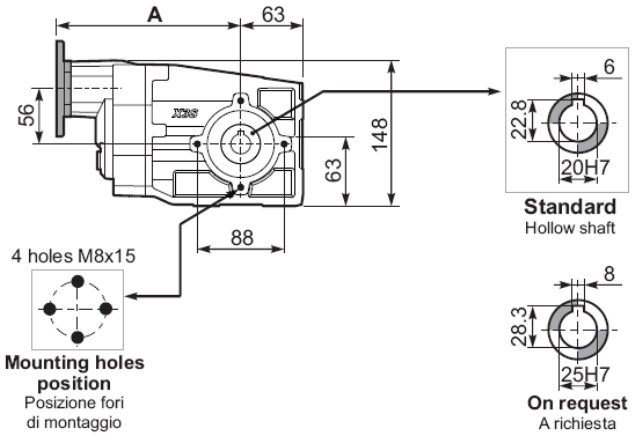
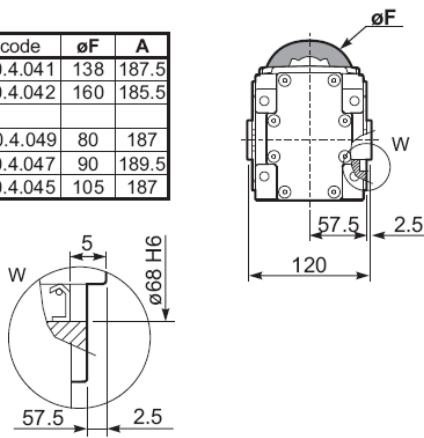
3D dimensions on the Web

Angletech Gear **100Nm X33S**

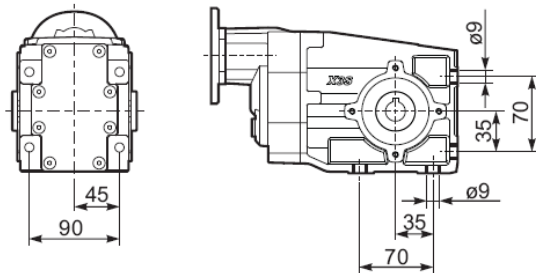
PX33S**C**... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **6.55 kg**

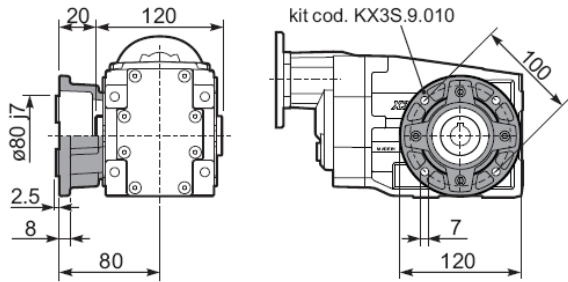
M. flanges	Kit code	øF	A
63B5	K050.4.041	138	187.5
71B5	K050.4.042	160	185.5
56B14	KC40.4.049	80	187
63B14	K050.4.047	90	189.5
71B14	K050.4.045	105	187



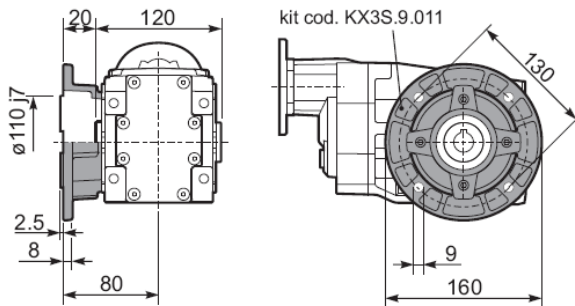
PX33S-**N**.. Feet
Piedini



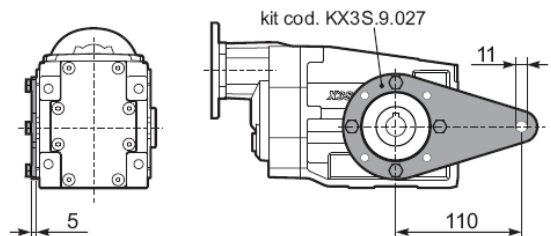
PX33S-**F1**.. Output flange
Flangia uscita



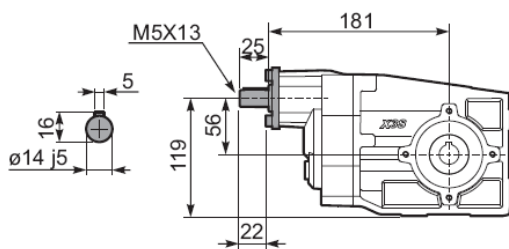
PX33S-**F2**.. Output flange
Flangia uscita



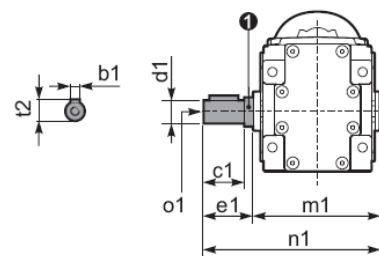
PX33S-**BR**.. Reaction Arm
Braccio di reazione



RX33S... Input shaft
Albero in entrata



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



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



X42A Angletech Gear 150Nm

Rating - Alluminum 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	D	E	Q	R	T	U		
							63	71	80	90	71	80	90	100 112		
192.2	7.29	2.2	103.6	0.9	1.99	95	B				C	C			2811	standard ø25
125.0	11.20	2.2	159.1	0.9	2.05	150	B				C	C			288	
106.2	13.18	1.5	129.1	1.2	1.74	150	B				C	C			1911	
91.7	15.27	1.1	109.3	1.4	1.50	150	B				C	C			1711	
78.1	17.93	1.1	128.3	1.2	1.28	150	B				C	C			1511	
69.1	20.25	1.1	144.9	1.0	1.13	150	B				C	C			198	
65.4	21.40	1.1	153.1	1.0	1.07	150	B				C	C			1311	
59.6	23.47	0.75	115.2	1.3	0.98	150	B				C	C			178	
50.8	27.55	0.75	135.2	1.1	0.83	150	B				C	C			158	
47.9	29.21	0.75	143.3	1.0	0.78	150	B				C	C			1011	
42.6	32.88	0.75	161.4	0.9	0.70	150	B				C	C			138	
36.7	38.12	0.55	138.0	1.1	0.60	150	B				C	C			911	
31.2	44.89	0.55	162.5	0.9	0.51	150	B				C	C			108	
27.8	50.34	0.37	121.8	1.1	0.40	131	B				C	C			711	
23.9	58.58	0.37	141.8	1.1	0.39	150	B				C	C			98	
18.1	77.36	0.25	126.3	1.2	0.30	150	B				C	C			78	

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

EN Unit **X42A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.
For complete documentation please visit our web site.

I Il riduttore **X42A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore.
Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X42A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.
Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X42A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.
Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
0.60 LT	0.75 LT	0.50 LT	0.70 LT	1.10 LT	0.60 LT	0.50 LT
AGIP Tellium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

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

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n 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
600	340	1700

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



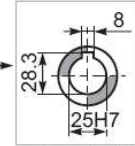
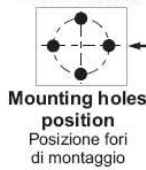
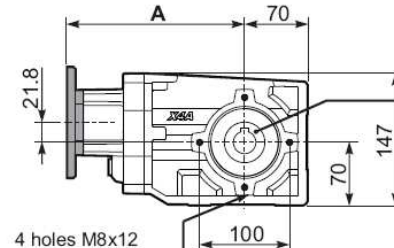
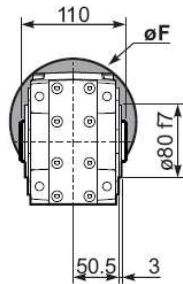
3D dimensions on the Web

Angletech Gear
150Nm X42A

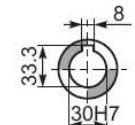
PX42A**C**... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **7.82 kg**

M. flanges	Kit code	øF	A
63B5	K063.4.041	140	199.5
71B5	K063.4.042	160	197.5
80/90B5	K063.4.043	200	199.5
71B14	K063.4.047	105	197.5
80B14	K063.4.046	120	198.5
90B14	K063.4.041	140	199.5
100/112B14	KC40.4.011	160	235

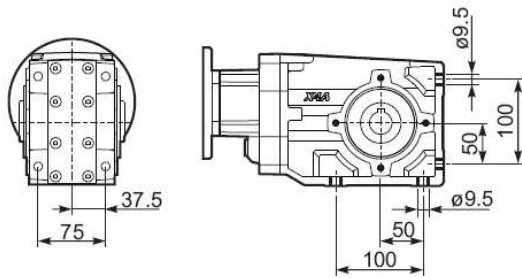


Standard
Hollow shaft

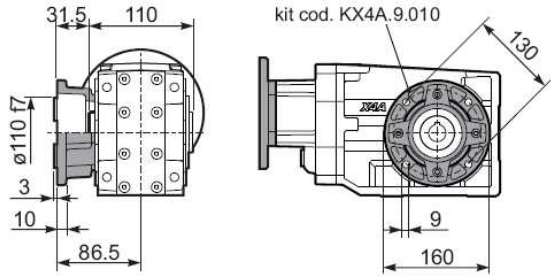


On request
A richiesta

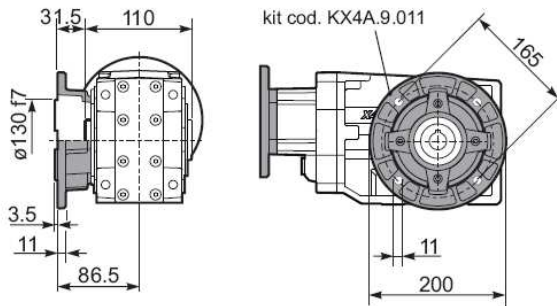
PX42A-**N**.. Feet
Piedini



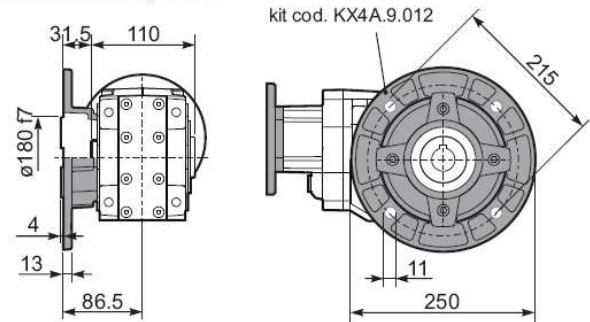
PX42A-**F2**.. Output flange
Flangia uscita



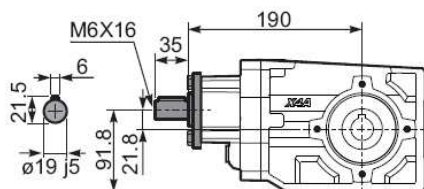
PX42A-**F3**.. Output flange
Flangia uscita



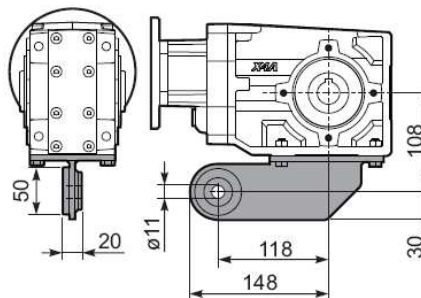
PX42A-**F4**.. Output flange
Flangia uscita



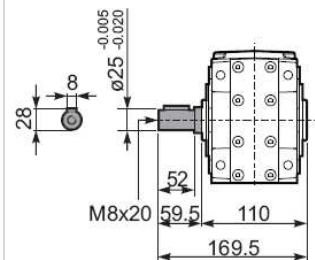
RX42A... Input shaft
Albero in entrata



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



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



X43A Angletech Gear 160Nm

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

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

EN Unit **X43A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **X43A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X43A** ist mit synthetischem Öl gefüllt und ist lebensdauer geschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter. Per la documentazione completa, consultare la nostra Web.

E El reductor tamaño **X43A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
0.80 LT	0.80 LT	0.60 LT	0.80 LT	1.20 LT	0.70 LT	0.70 LT	
AGIP	BP	SHELL	KLUBER	MOBIL			
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30			

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

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n ₂ [min ⁻¹]	FA [N]	FR [N]	n ₂ [min ⁻¹]	FA [N]	FR [N]	n ₂ [min ⁻¹]	FA [N]	FR [N]
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
600	190	950

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



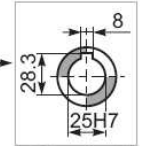
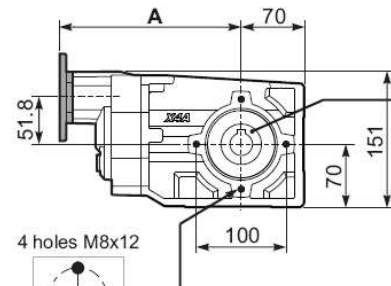
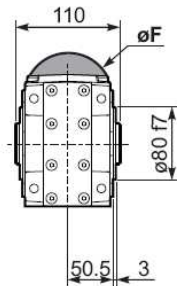
3D dimensions on the Web

Angletech Gear
160Nm X43A

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

Wormbox weight
peso riduttore **7.93 kg**

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



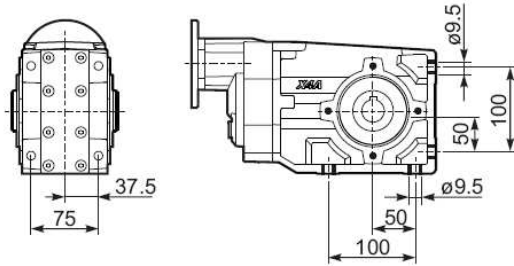
Standard
Hollow shaft



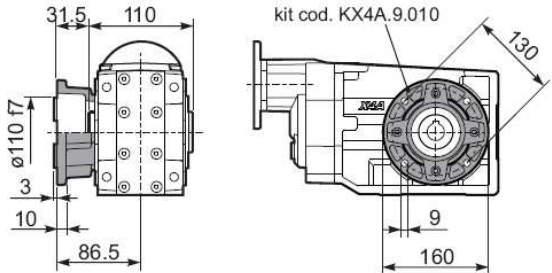
On request
A richiesta

4 holes M8x12
Mounting holes position
Posizione fori di montaggio

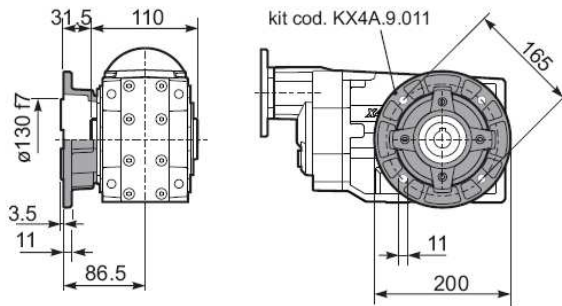
PX43A-**N**.. Feet
Piedini



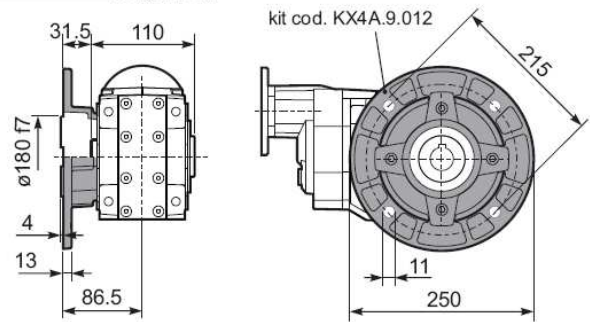
PX43A-**F2**.. Output flange
Flangia uscita



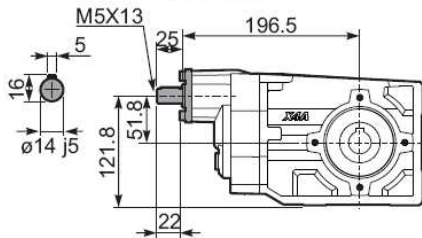
PX43A-**F3**.. Output flange
Flangia uscita



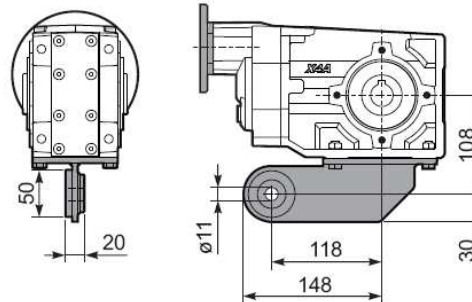
PX43A-**F4**.. Output flange
Flangia uscita



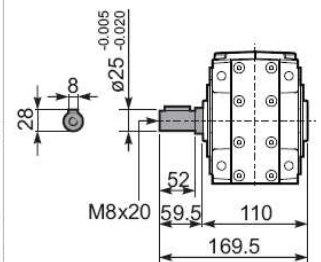
RX43A... Input shaft
Albero in entrata



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



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



X52A Angletech Gear 250Nm

Rating - Alluminum
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 _{IM} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{IR} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges			Output Shaft Ø	Ratios code
							C	D	E	F	R	T	U		
							71	80	90	100 112	80	90	100 112		
232.3	6.03	3	116.4	1.2	3.42	135	B							3011	standard ø30 ø35 On request
151.1	9.26	3	178.8	0.9	2.56	155	B							308	
123.2	11.36	3	219.3	1.0	3.09	230	B							2011	
91.2	15.36	2.2	218.3	1.1	2.49	250	B							1611	
80.2	17.46	2.2	248.1	1.0	2.19	250	B							208	
70.1	19.97	2.2	283.9	0.9	1.91	250	B							1311	
59.3	23.60	1.5	231.2	1.1	1.62	250	B							168	
57.3	24.45	1.5	239.5	1.0	1.56	250	B							1111	
45.6	30.69	1.1	219.6	1.1	1.24	250	B							138	
39.6	35.35	1.1	252.9	1.0	1.08	250	B							811	
37.3	37.57	1.1	268.8	0.9	1.02	250	B							118	
28.8	48.68	0.75	238.9	1.0	0.78	250	B							611	
25.8	54.33	0.75	266.6	0.9	0.70	250	B							88	
18.7	74.81	0.37	181.1	1.2	0.43	210	B							68	

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

EN Unit **X52A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **X52A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X52A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X52A** se suministra, lubricado de por vida con aceite sintético y no requiren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
0.90 LT	1.50LT	0.75 LT	1.40 LT	1.95 LT	1.15 LT	0.80 LT	
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30			

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

• RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n 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			

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	400	2000
900	440	2200
600	440	2200

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



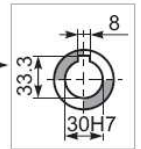
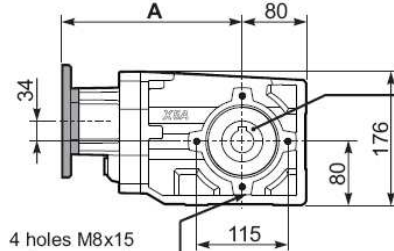
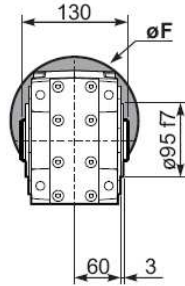
3D dimensions on the Web

Angletech Gear **250Nm X52A**

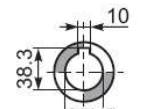
PX52A**C**... Basic Gearbox
Riduttore base

Wombbox weight
peso riduttore **12.80 kg**

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

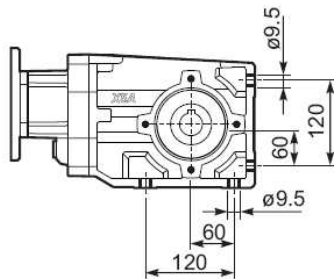
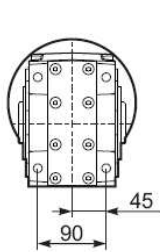


Standard
Hollow shaft

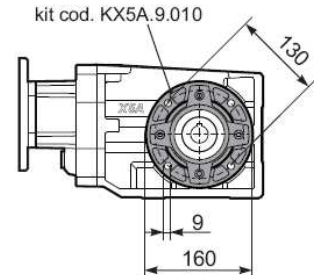
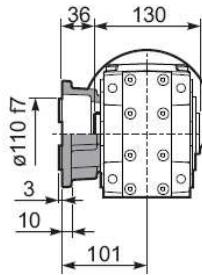


On request
A richiesta

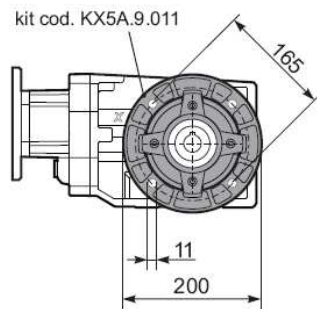
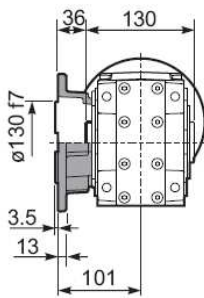
PX52A-**N**.. Feet
Piedini



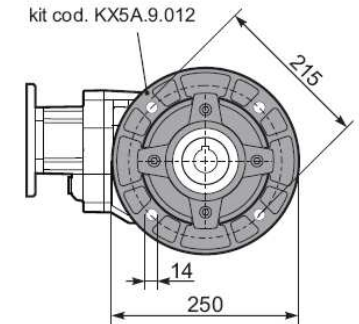
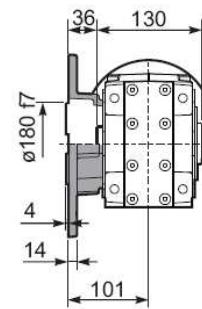
PX52A-**F2**.. Output flange
Flangia uscita



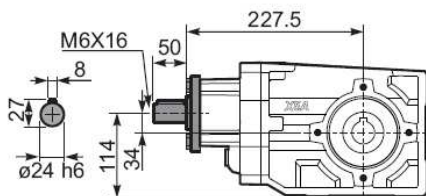
PX52A-**F3**.. Output flange
Flangia uscita



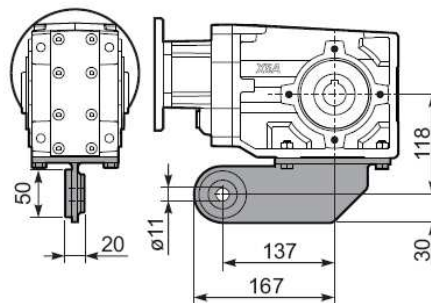
PX52A-**F4**.. Output flange
Flangia uscita



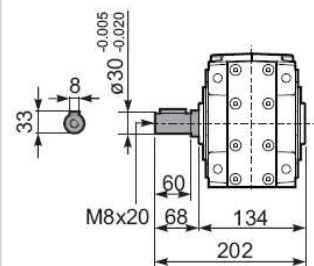
RX52A... Input shaft
Albero in entrata



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



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



X53A Angletech Gear 250Nm

Rating - Alluminum
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	D	E	Q	R	T		
							63	71	80	90	71	80	90		
24.7	56.76	0.55	201.4	1.2	0.67	250	B				C	C		191311	-
21.3	65.79	0.55	233.4	1.1	0.58	250	B				C	C		171311	
18.1	77.23	0.55	274.0	0.9	0.49	250	B				C	C		151311	
16.0	87.23	0.37	206.9	1.2	0.44	250	B				C	C		19138	
15.2	92.18	0.37	218.6	1.1	0.41	250	B				C	C		131311	
13.9	100.47	0.37	238.3	1.0	0.38	250	B				C	C		19811	
12.0	116.45	0.37	276.2	0.9	0.33	250	B				C	C		17811	
11.1	125.82	0.25	201.3	1.2	0.30	250	B				C	C		101311	standard ø30
9.9	141.66	0.25	226.7	1.1	0.27	250	B				C	C		13138	
8.6	163.16	0.25	261.1	1.0	0.23	250	B				C	C		13811	
7.8	178.96	0.18	219.0	1.1	0.21	250	B				C	C		1788	ø35 On request
7.2	193.36	0.18	236.6	1.1	0.20	250	B				C	C		10138	
6.5	216.84	0.18	265.3	0.9	0.18	250	B				C	C		71311	
5.5	252.36	0.12	199.5	1.3	0.15	250	B				C	C		9138	
4.8	290.67	0.12	229.8	1.1	0.13	250	B				C	C		9811	
4.2	333.23	0.09	210.1	1.2	0.11	250	B				C	C		7138	
3.6	383.82	0.09	242.0	1.0	0.10	250	B				C	C		7811	
3.1	446.70	0.09	281.7	0.9	0.09	250	B				C	C		988	
2.4	589.85	0.06	244.3	1.0	0.06	250	B				C	C		788	

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

EN Unit X53A is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore X53A viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe X53A ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño X53A se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied	For these mounting position specify in the order or add oil					
	Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
1.30 LT	1.55 LT	0.85 LT	1.45 LT	2.10 LT	1.25 LT	0.95 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Telium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

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

-RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

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			

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

Input shaft
albero in entrata

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

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



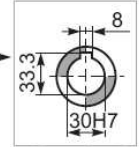
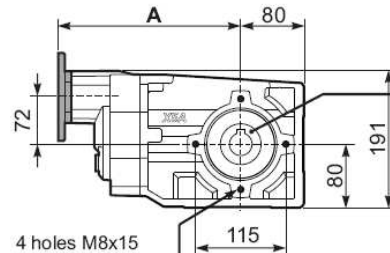
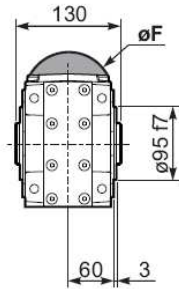
3D dimensions on the Web

Angletech Gear
250Nm X53A

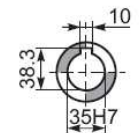
PX53A**C**... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **12.65 kg**

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

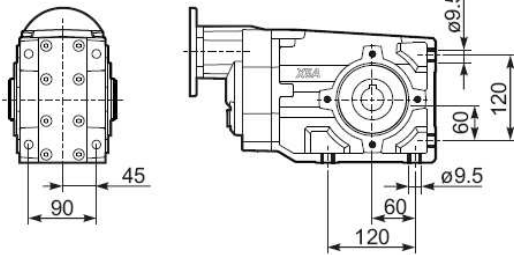


Standard
Hollow shaft

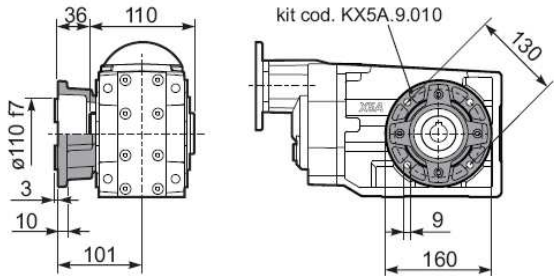


On request
A richiesta

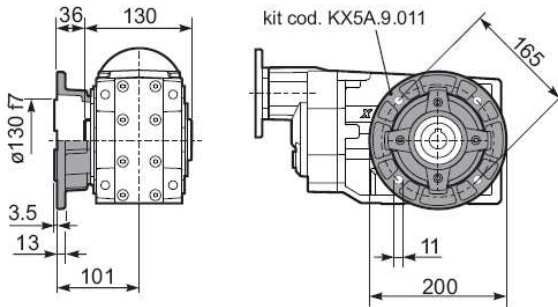
PX53A-**N**.. Feet
Piedini



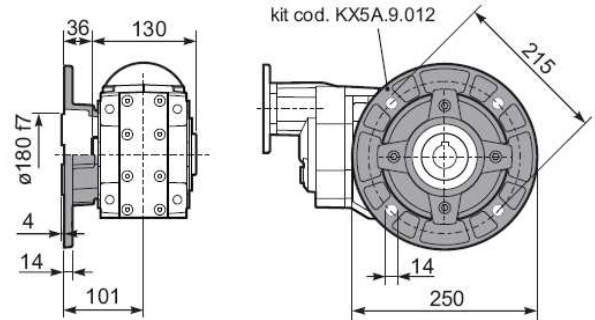
PX53A-**F2**.. Output flange
Flangia uscita



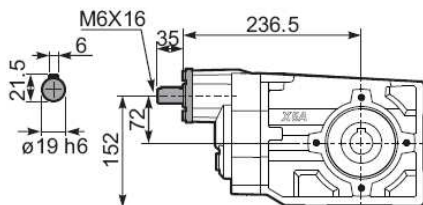
PX53A-**F3**.. Output flange
Flangia uscita



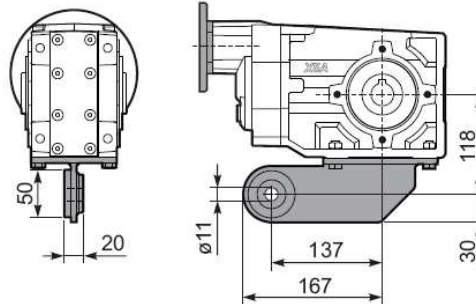
PX53A-**F4**.. Output flange
Flangia uscita



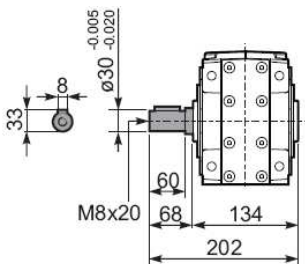
RX53A... Input shaft
Albero in entrata



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



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



X62A Angletech Gear 410Nm

Rating - Alluminum 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 _{TM} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	Available B5 motor flanges				Available B14 motor flanges				Output Shaft	Ratios code	
							C	D	E	F	R	T	U	V			
							71	80	90	100*	80	90	100	112			132
232.3	6.03	5.5	211.3	1.1	6.08	410	B									3011	standard ø35
151.1	9.26	4	237.5	1.1	4.45	410	B									308	
123.2	11.36	4	291.3	1.2	4.71	410	B									2011	
91.2	15.36	4	393.8	1.0	3.83	410	B									1611	
80.2	17.46	4	447.6	0.9	3.50	410	B									208	
70.1	19.97	3	385.5	1.1	3.13	410	B									1311	
59.3	23.60	3	455.6	0.9	2.65	410	B									168	
57.3	24.45	3	471.9	0.9	2.56	410	B									1111	
45.6	30.69	2.2	436.3	0.9	2.04	410	B									138	
39.6	35.35	1.5	346.3	1.2	1.77	410	B									811	
37.3	37.57	1.5	368.0	1.1	1.67	410	B									118	
28.8	48.68	1.1	348.3	1.0	1.15	410	B									611	
25.8	54.33	1.1	388.7	1.1	1.15	410	B									88	
18.7	74.81	0.75	367.2	1.0	0.73	410	B									68	

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

EN Unit **X62A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **X62A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X62A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X62A** se suministra, lubricado de por vida con aceite sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio

B3	B6	B7	B8	V5	V6	V8
1.25 LT	1.70 LT	0.95 LT	1.60 LT	2.45 LT	1.50 LT	1.10 LT
AGIP Telium VSF 320	BP Energol SGXP220	SHELL Tivela Oil WB	KLUBER Syntheso D220 EP	MOBIL Glygoyle 30		

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

• RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

n 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
600	600	3000

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



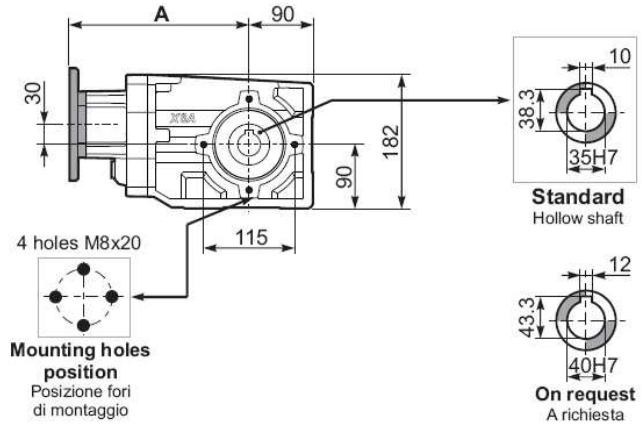
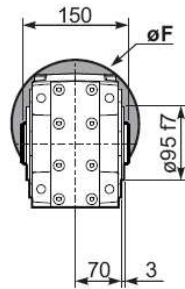
3D dimensions on the Web

Angletech Gear
410Nm X62A

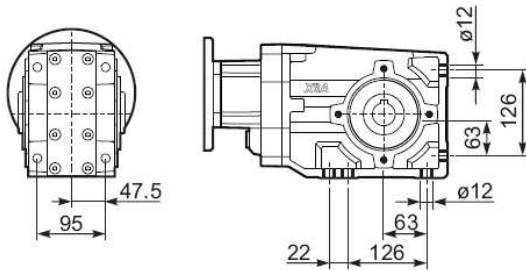
PX62A**C**... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **15.80 kg**

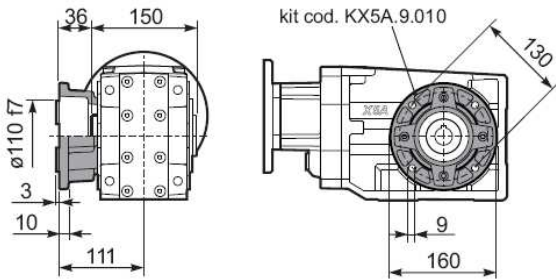
M. flanges	Kit code	øF	A
71B5	K023.4.041	160	253
80/90B5	K023.4.042	200	255
100/112B5	K023.4.043	250	261
80B14	K085.4.046	120	253
90B14	K085.4.045	140	253
100/112B14	K085.4.047	160	264
132B14	KC50.4.041	200	282.5



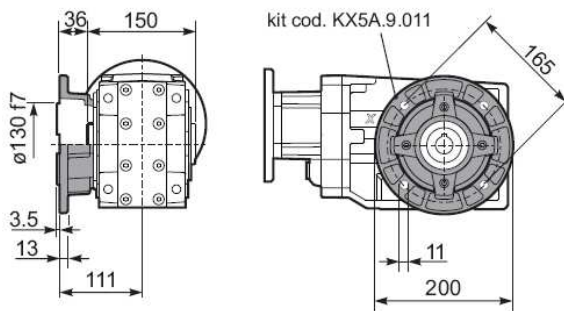
PX62A-**N**.. Feet
Piedini



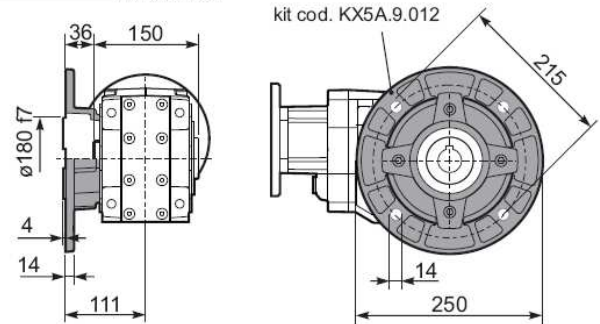
PX62A-**F2**.. Output flange
Flangia uscita



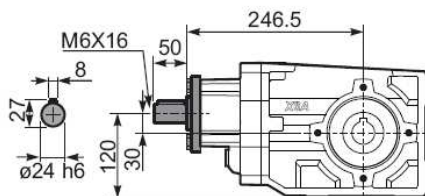
PX62A-**F3**.. Output flange
Flangia uscita



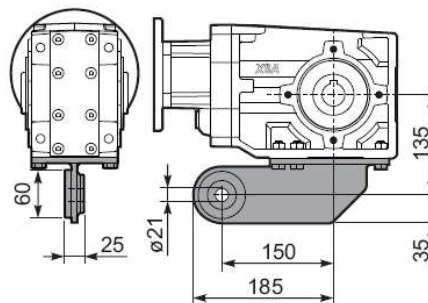
PX62A-**F4**.. Output flange
Flangia uscita



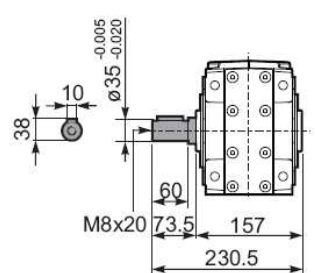
RX62A... Input shaft
Albero in entrata



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



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



X63A Angletech Gear 410Nm

Rating - Alluminum
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	D	E	Q	R	T		
							63	71	80	90	71	80	90		
24.7	56.76	1.1	398.0	1.0	1.10	410	B				C	C		191311	standard ø35 ø40 On request
21.3	65.79	0.75	316.4	1.3	0.95	410	B				C	C		171311	
18.1	77.23	0.75	371.4	1.1	0.81	410	B				C	C		151311	
16.0	87.23	0.75	419.5	1.0	0.72	410	B				C	C		19138	
15.2	92.18	0.75	443.3	0.9	0.68	410	B				C	C		131311	
13.9	100.47	0.55	356.5	1.2	0.62	410	B				C	C		19811	
12.0	116.45	0.55	413.2	1.0	0.54	410	B				C	C		17811	
11.1	125.82	0.55	446.5	0.9	0.50	410	B				C	C		101311	
9.9	141.66	0.37	336.0	1.2	0.44	410	B				C	C		13138	
8.6	163.16	0.37	387.0	1.1	0.38	410	B				C	C		13811	
7.8	178.96	0.37	424.5	1.0	0.35	410	B				C	C		1788	
7.2	193.36	0.37	458.6	0.9	0.32	410	B				C	C		10138	
6.5	216.84	0.25	346.9	1.2	0.29	410	B				C	C		71311	
5.5	252.36	0.25	403.8	1.0	0.25	410	B				C	C		9138	
4.8	290.67	0.25	465.1	0.9	0.22	410	B				C	C		9811	
4.2	333.23	0.18	407.7	1.0	0.19	410	B				C	C		7138	
3.6	383.82	0.18	469.6	0.9	0.16	410	B				C	C		7811	
3.1	446.70	0.12	353.2	1.2	0.14	410	B				C	C		988	
2.4	589.85	0.09	372.0	1.1	0.11	410	B				C	C		788	

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

EN Unit **X63A** is supplied with synthetic oil for lifetime lubrication, no maintenance is necessary. See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox. For complete documentation please visit our web site.

I Il riduttore **X63A** viene fornito completo di olio sintetico per la lubrificazione permanente e non necessita di alcuna manutenzione. Vedi tab.1 per oli e quantità consigliati. In tab.2 sono presenti i carichi radiali e assiali applicabili al riduttore. Per la documentazione completa consulta il nostro sito.

D Das Getriebe **X63A** ist mit synthetischem Öl gefüllt und ist lebensdauergeschmiert. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial - und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs - und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño **X63A** se suministra, lubricado de por vida con aceite sintético y no requiren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

Standard supplied For these mounting position specify in the order or add oil
Per queste posizioni specificare in fase d'ordine o aggiungere olio

1.80 LT	1.80 LT	1.05 LT	1.70 LT	2.60 LT	1.65 LT	1.30 LT
AGIP	BP	SHELL	KLUBER	MOBIL		
Tellium VSF 320	Energol SGXP220	Tivela Oil WB	Syntheso D220 EP	Glygoyle 30		

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

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

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

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			

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 [N]	FR [N]
1400	400	2000
900	440	2200
600	440	2200

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



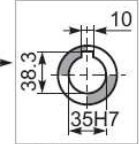
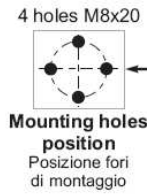
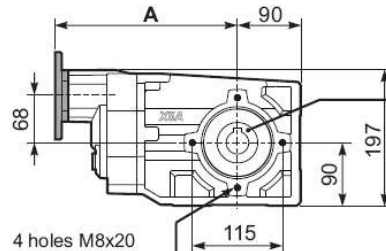
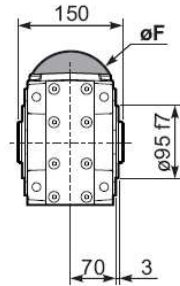
3D dimensions on the Web

Angletech Gear
410Nm X63A

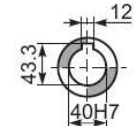
PX63A-C... Basic Gearbox
Riduttore base

Wormbox weight
peso riduttore **15.98 kg**

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

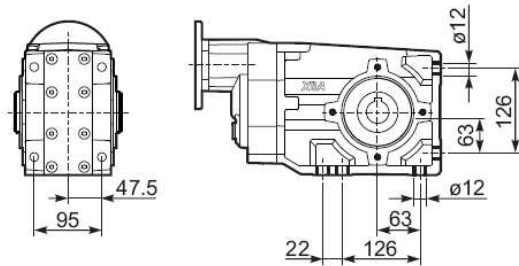


Standard
Hollow shaft

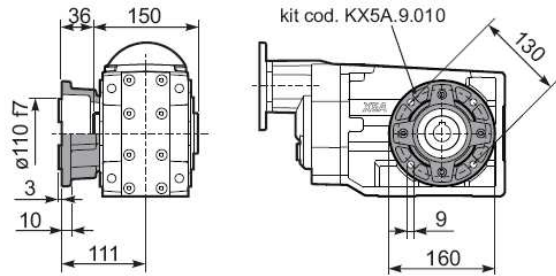


On request
A richiesta

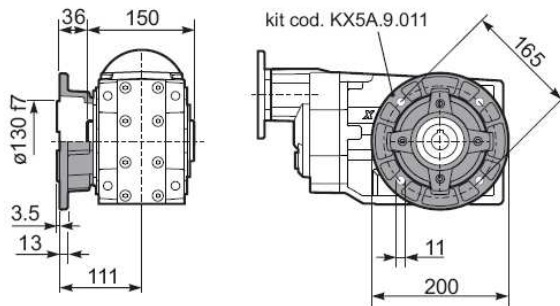
PX63A-N.. Feet
Piedini



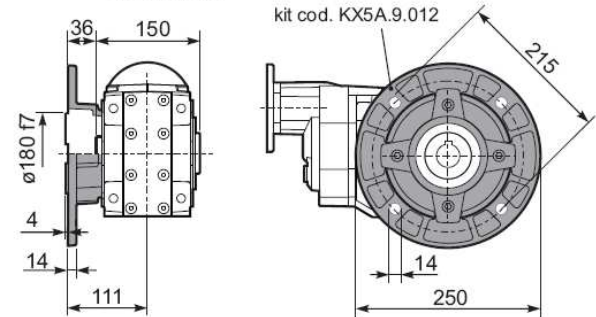
PX63A-F2.. Output flange
Flangia uscita



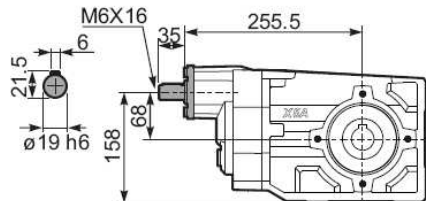
PX63A-F3.. Output flange
Flangia uscita



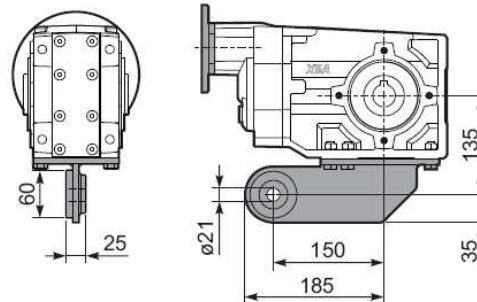
PX63A-F4.. Output flange
Flangia uscita



RX63A... Input shaft
Albero in entrata



PX63A-BR.. Reaction Arm
Braccio di reazione



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

