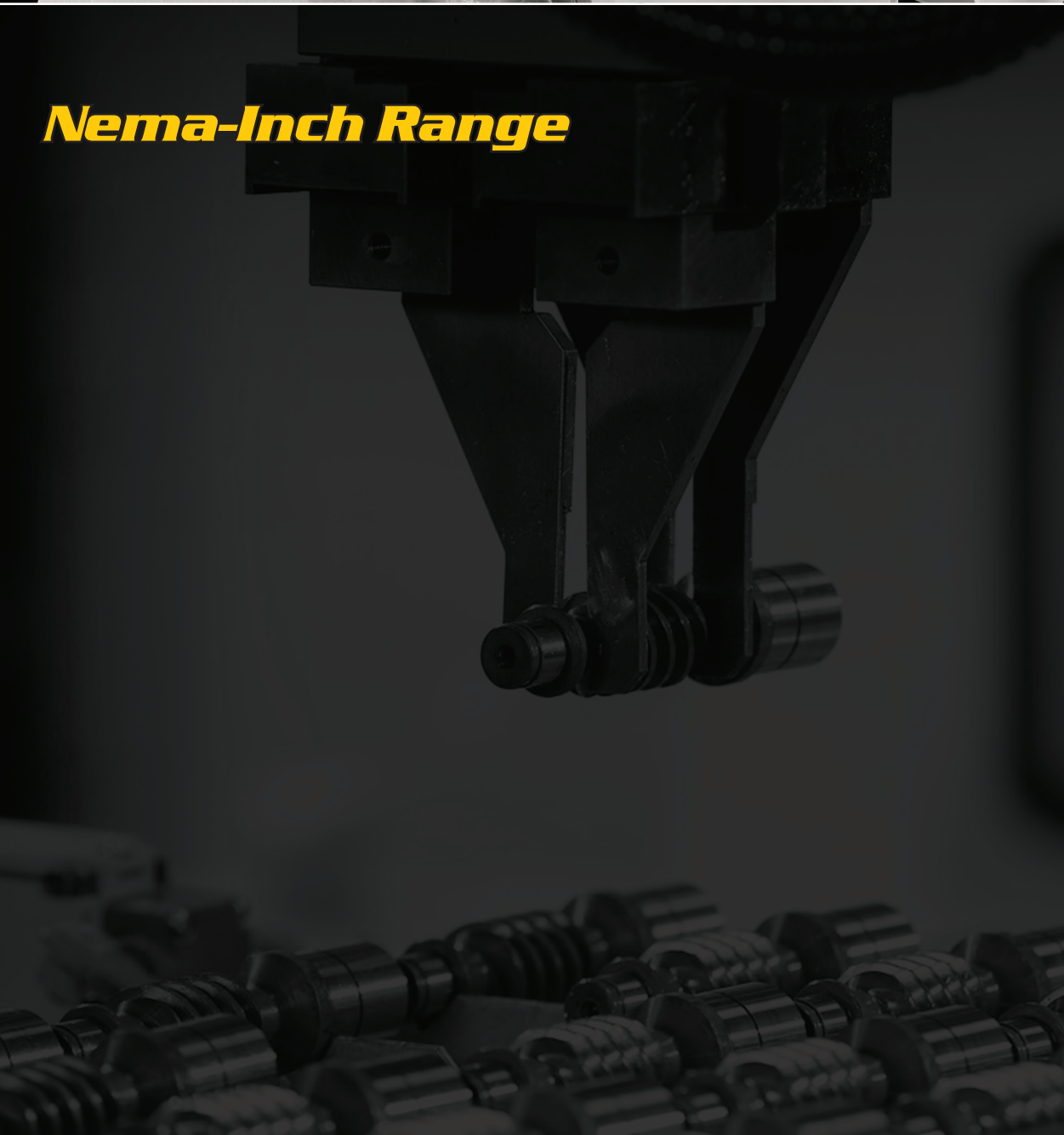




General Catalogue



Nema-Inch Range



Catalogue code: CT-GEI-A-HM015

GEI:MEC HYDRO

IN THIS CATALOGUE



Rightangle-Gear

Worm gearboxes
Riduttori a vite senza fine

Paragraph **1**



Square-Gear

Square worm gearboxes
Riduttori a vite senza fine quadri

Paragraph **2**



One step-Gear

One step gearboxes
Riduttori a uno stadio

Paragraph **3**



Coaxial-Gear

Aluminum gearboxes
Riduttori coassiali in alluminio

Paragraph **4**



Coaxial-Gear

Cast iron gearboxes
Riduttori coassiali in ghisa

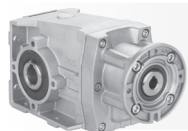
Paragraph **5**



Compact-Gear

Shaft mounted gearboxes
Riduttori ad assi paralleli

Paragraph **6**



Angletech-Gear

Helical bevel gearboxes
Riduttori a coppia conica

Paragraph **7**



Electric motors

Aluminum and stainless steel electric motors
Motori elettrici in alluminio e acciaio inox

Paragraph **M**

Worm gearboxes type 045 ÷ 085

A modular and compact product

Single-piece aluminum alloy housing

Is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint. Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing.

Single piece alloy steel input shaft and worm shaft.

High helix angle worm is case-hardened (Rc 58-60), ground, teeth are profiled and radiused, for noise reduction and enhanced efficiency.

Flange

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

Oversized bearings

Support positively-retained, high speed shaft for higher shock load capacity - ideal for frequent starting and reversing application. Premium, Nitrile® high temperature seals each end.

Premium, high temperature

Nitrile® output seals

Bronze alloy worm gears.

Is centrifugally cast onto an iron hub for maximum strength and superior life.

Standard hollow output shaft mounting

Reduces total drive envelope size, weight and cost. Single and double solid output shaft is available.

Impregnated and machined bearing caps

With exterior machined surfaces enable a variety of mounting accessories. Extra-deep thread engagement provided for greater support strength. Zinc plated hardware.

Oversize bearing

For radial load capability and maximum hollow output shaft diameter.

Vent Free Design.

No breather or vents to leak! Factory lubricated for life with synthetic, semi-fluid gear lubricant with an operating range of -15°C to 130°C.

oil free



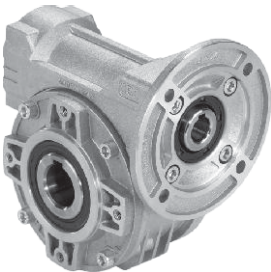
vent free



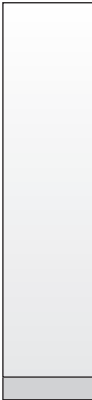
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On page / A pagina / En la página

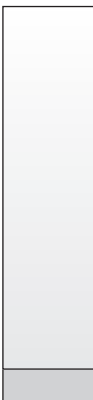
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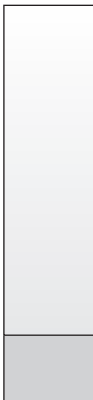
Types / tipi / Tipos →



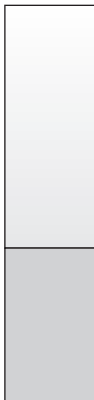
045
345 lb in



050
611 lb in



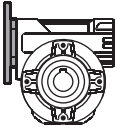
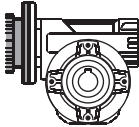

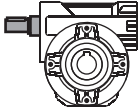
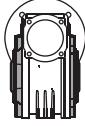
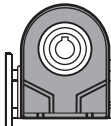
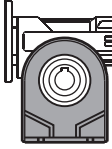
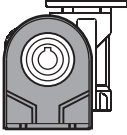
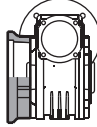
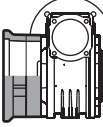
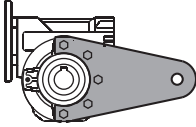
063
1240 lb in



085
2921lb in

CODIFICA / HOW TO ORDER / CODIFICACIÓN

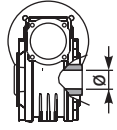
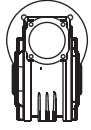
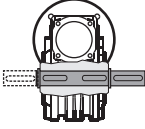
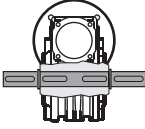
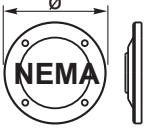




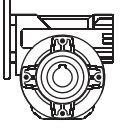
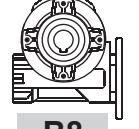
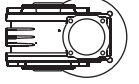
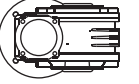

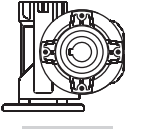
1

Type - Tipo	Size - Grandezza Tamaño	Mounting - Montaggio - Tipo de montaje
P	045	PA
<p>Worm gearboxes Riduttori a vite senza fine Reductores de corona sin fin</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  P </div> <div style="text-align: center;">  M </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  B </div> <div style="text-align: center;">  R </div> </div>	<p>045 050 063 085</p>	<div style="display: flex; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;">  FB </div> <div style="text-align: center;">  PB </div> <div style="text-align: center;">  PA </div> <div style="text-align: center;">  PV </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  FC </div> <div style="text-align: center;">  FL </div> <div style="text-align: center;"> <p>F1 F2 F3 F4</p> </div> <div style="text-align: center;">  BR </div> </div>



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

CODIFICA / HOW TO ORDER / CODIFICACIÓN

Ratio Rapporto Relación	Hub Mozzo corona Nucleo corona	Output shaft Albero lento Eje solida	Motor size Grandezza motore Tamaño motor	Terminal box position Posizione morsetiera Posición caja de bornes	Mounting position Posizione montaggio Position de montaje
10	U	∅	-W	B	B3
<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	 <p>U</p> <p>INCH</p> <p>045 ⇒ ∅0.750"</p> <p>050 ⇒ ∅1.000"</p> <p>063 ⇒ ∅1.125"</p> <p>085 ⇒ ∅1.500"</p>	 <p>∅</p>  <p>S</p>  <p>D</p>	 <p>NEMA</p> <p>With Flange for type P</p> <p>-W ⇒ 56C</p> <p>-X ⇒ 143/5TC</p> <p>-Y ⇒ 182/4TC</p> <p>-N without flange Senza flangia</p> <p>For Modular Base type B</p> <p>045 ⇒ ∅0.625</p> <p>050 ⇒ ∅0.625</p> <p>063 ⇒ ∅0.875</p> <p>085 ⇒ ∅1.125</p> <p>-Z For Type - R</p>	 <p>A</p>  <p>B</p> <p>STANDARD</p>  <p>C</p>  <p>D</p>	 <p>B3</p>  <p>B8</p>  <p>B6</p>  <p>B7</p>  <p>V5</p>  <p>V6</p>

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

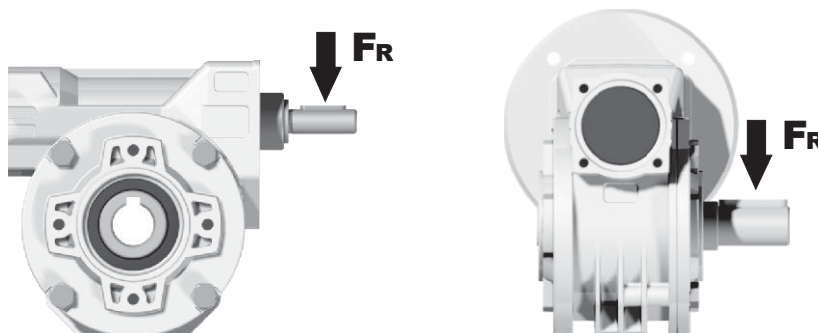
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / 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.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida

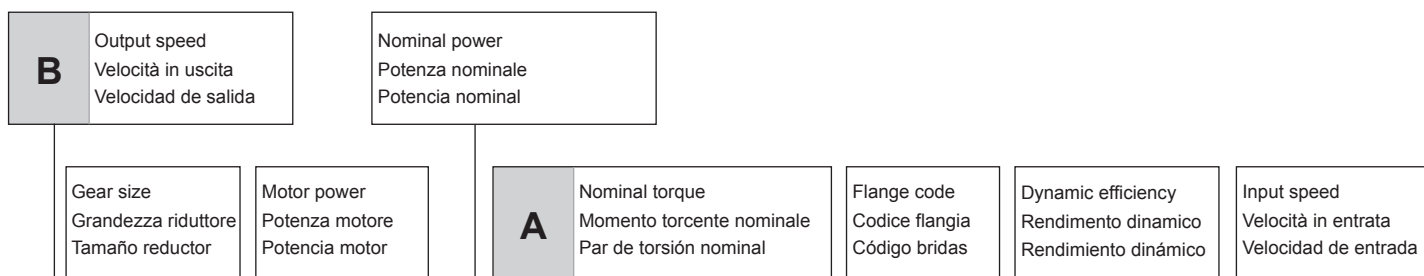


$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$		$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$	
M	Momento torcente / Output torque / Par torsion		
d	Diametro primitivo / Diam. of driving element / Diámetro primitivo		
f_k	Coefficiente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

1



045 Rightangle - Gear 345lb in

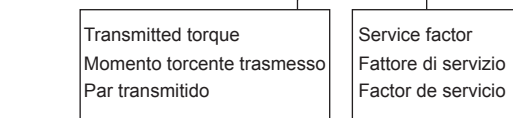
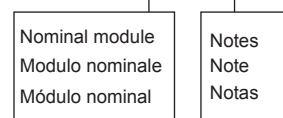
Rating - Alluminum WORM GEARBOXES



QUICK SELECTION / Selezione veloce

input speed (n_i) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges	Dynamic efficiency RD	Tooth Module [mm]	Ratios code
250.0	7	1	202	1.3	1.29	257	-W	80	2.2	01
175.0	10	0.75	213	1.2	0.91	257	-	79	2.2	02
125.0	14	0.5	194	1.3	0.67	257	56C	77	2.4	03



Type of load and starts per hour Tipo di carico e avviamenti per ora		Oper. hours per day Ore di funz. giorn.		
		<2 h	2 - 8 h	8 - 16 h
Continuous or intermittent appl. with start / hour Applicazione cont. o interm. con n.ro operazioni/ora	Uniform / Uniforme	0.9	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	1.25	1.5	1.75
	Moderate / Moderato	1.5	1.75	2
	Heavy / Forte	1.75	2	2.25

D	Motor flange available Flange disponibili Bridas disponibles	
B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción	
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor	
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile tambien sin casquillo	

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	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	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)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module [mm]	Ratios code
							-W	-			
250.0	7	1	202	1.3	1.29	257	56C	-	80	2.2	01
175.0	10	0.75	213	1.2	0.91	257			79	2.2	02
125.0	14	0.5	194	1.3	0.67	257			77	2.4	03
83.3	21	0.5	253	1.4	0.69	345			67	1.6	04
62.5	28	0.5	328	1.1	0.53	345			65	2.5	05
47.3	37	0.33	277	1.2	0.42	345			63	1.8	06
38.0	46	0.33	323	1.1	0.36	345			59	1.5	07
29.2	60	0.25	303	1.1	0.29	345			56	1.2	08
25.0	70	0.25	340	0.8	0.19	257			54	1.0	09
17.2	102	0.25*	450	<0.8	0.14	248			49	0.72	10

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

* Power higher than the maximum one which can be 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 045 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo 045 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño 045 se suministra, lubricado de por vida con aceites sintéticos. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

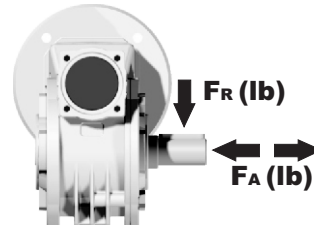
LUBRICATION 045 Oil Quantity 3.17 ounces

AGIP Telium VSF 320	SHELL Omala S4 WE 320
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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

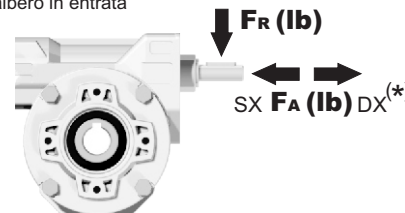
RADIAL AND AXIAL LOADS

Output shaft Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	40	202
150	45	225
100	49	247
75	54	270
50	58	315
25	67	405
15	90	450

Input shaft albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	9	47

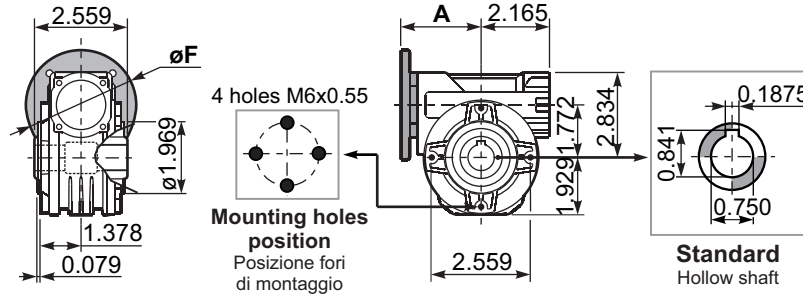
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

P045**FB**... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **5.30 lb**

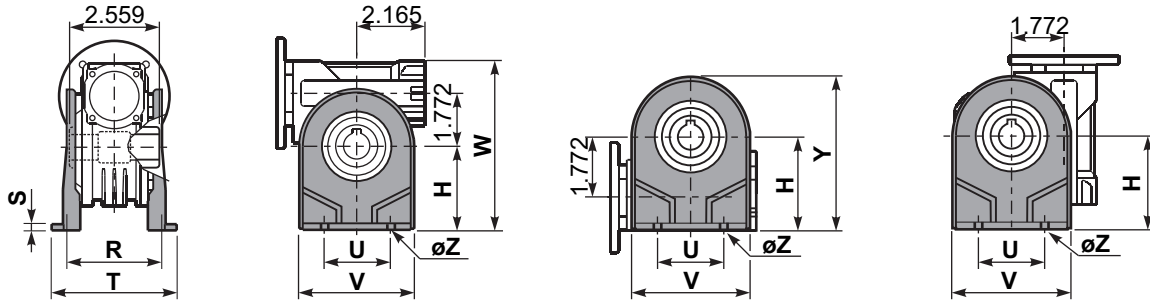
M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	3.709



P045**PA**... Feet
Piedini

P045**PB**... Feet
Piedini

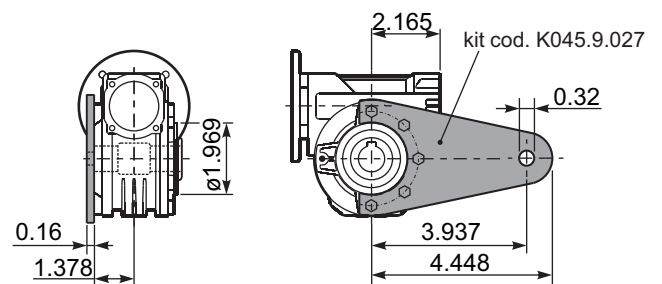
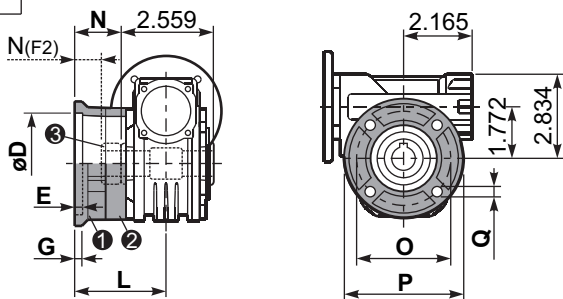
P045**PV**... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	2.835	3.189	0.118	3.937	2.047	3.858	4.764	5.669	0.41	K045.9.022
type S	2.795	3.307	0.315	3.937	2.756	3.543	4.724	5.630	0.31	KS045.9.023

P045**FC**... Output flange
Flangia uscita

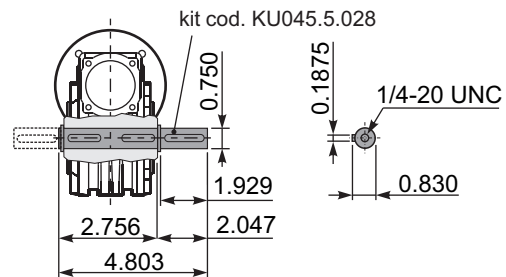
P045**BR**... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.3681	0.35	0.35	2.382	1.102	3.425	4.331	0.33	1 K045.9.010
	2.3642								2
FL	2.3681	0.35	0.35	3.563	2.283	3.425	4.331	0.33	1 K045.9.010
	2.3642								2 K045.0.200

type S	øD	E	G	L	N	O	P	Q	kit code
F1	3.7480	0.16	0.43	2.894	1.614	4.528	5.512	0.35	1 KS045.9.013
	3.7461								2
F2	2.3681	0.35	0.35	2.382	0.748	3.425	4.331	0.33	1 KS045.9.010
	2.3642								2 S045.0.204
F3	3.1555	0.12	0.31	2.028	0.748	3.937	4.724	0.35	1 KS045.9.014
	3.1535								2

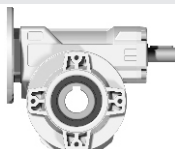
P045.....**S**... Single Shaft
Albero lento semplice



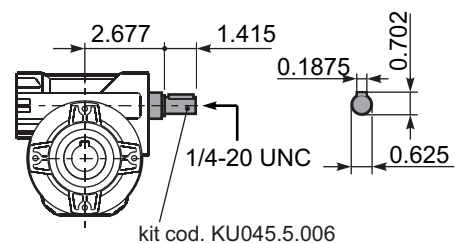
On request : Special Hollow Shafts
Mozzo Uscita Speciale

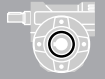


On request : Double extended worm shaft
Vite bisporgente



R045**FB**... Input shaft
Albero in entrata





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module [mm]	Ratios code
							-W	-			
250.0	7	2	413	1.2	2.34	478	56C	-	82	2.5	01
175.0	10	1.5	432	1.2	1.84	522			80	2.4	02
125.0	14	1	398	1.4	1.46	575			79	2.6	03
97.2	18	1	486	1.1	1.09	522			75	2.0	04
67.3	26	0.75	485	1.2	0.87	558			69	2.7	05
58.3	30	0.75	567	1.1	0.82	611			70	2.5	12
48.6	36	0.5	447	1.4	0.69	611			69	2.1	06
40.7	43	0.5	511	1.1	0.57	575			66	1.8	07
29.2	60	0.33	414	1.3	0.42	522			58	1.3	08
25.7	68	0.33	461	1.1	0.35	487			57	1.2	09
21.9	80	0.25	389	1.2	0.31	478			54	1.0	10
17.5	100	0.25	450	1.0	0.24	434			50	0.8	11

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 050 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo 050 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.](#)

E El reductor tamaño 050 se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. [Para documentación completa, consultar nuestra Web.](#)

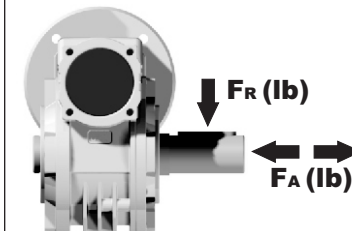
LUBRICATION 050 Oil Quantity 6.35 ounces

AGIP Telium VSF 320	SHELL Omala S4 WE 320
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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

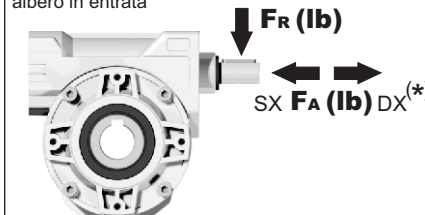
RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	54	270
150	63	315
100	67	337
75	76	382
50	85	427
25	108	562
15	126	629

Input shaft
albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	17	85

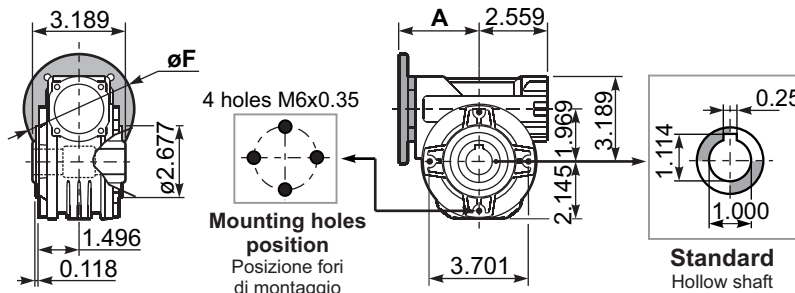
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

P050**FB**... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **8.40 lb**

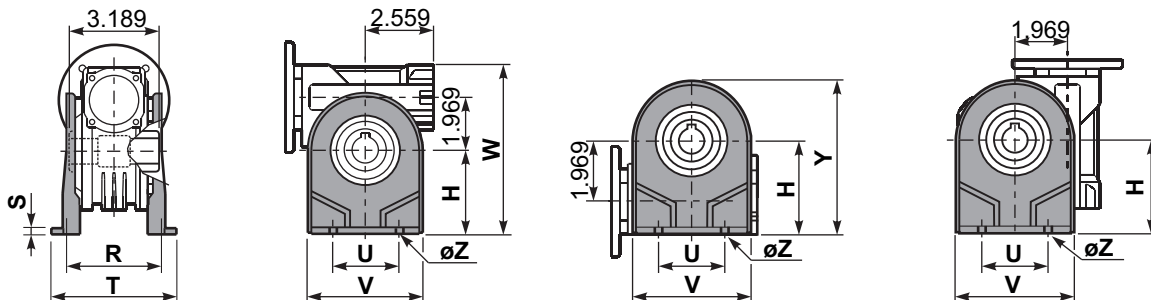
M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	3.886



P050**PA**... Feet
Piedini

P050**PB**... Feet
Piedini

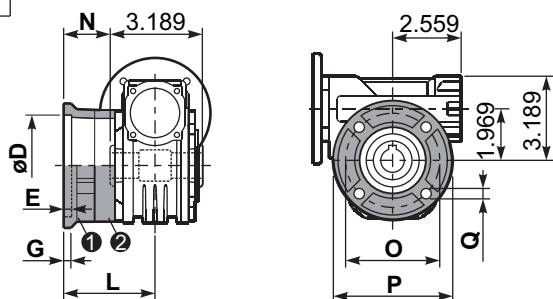
P050**PV**... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	3.228	3.878	0.138	4.843	2.480	4.449	5.453	6.417	0.41	K050.9.022
type S	3.346	3.780	0.394	4.488	3.346	4.331	5.492	6.535	0.39	KS050.9.023

P050**FC**... Output flange
Flangia uscita

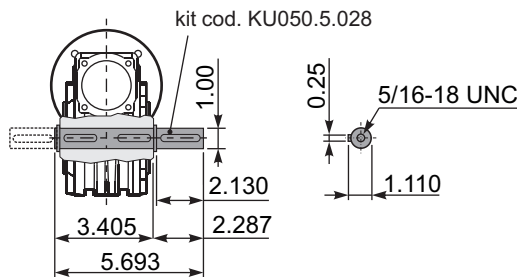
P050**BR**... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.7638	0.35	0.47	3.346	1.752	3.543	4.843	0.41	① K050.9.010 ② -
FL	2.7638	0.35	0.47	4.508	2.913	3.543	4.843	0.41	① K050.9.010 ② K050.0.200

type S	øD	E	G	L	N	O	P	Q	kit code
F1	4.3386	0.16	0.43	3.287	1.693	5.118	6.299	0.39	① KS050.9.012 ② -
F2	2.7638	0.35	0.47	3.012	1.417	3.543	4.843	0.41	① KS050.9.014 ② -
F3	3.7480	0.16	0.39	2.618	1.024	4.528	5.512	0.39	① KS050.9.013 ② -

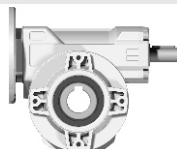
P050.....**S**... Single Shaft
Albero lento semplice



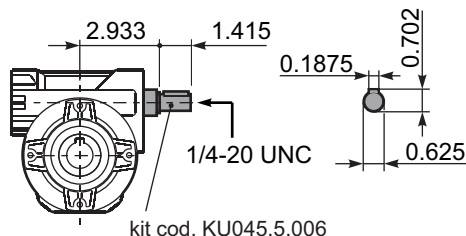
On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente



R050**FB**... Input shaft
Albero in entrata





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module [mm]	 Ratios code
							-W 56C	-X 143-5TC			
250.0	7	2	419	2.5	5.10	1053	B		83	3.1	01
175.0	10	2	583	1.9	3.93	1133	B		81	3.1	02
116.7	15	2	854	1.4	2.75	1159	B		79	3.1	03
92.1	19	2	1068	1.1	2.20	1159	B		78	2.6	04
72.9	24	1.5	972	1.2	1.87	1195	B		75	2.0	05
58.3	30	1.5	1199	1.0	1.56	1230	B		74	3.2	06
48.6	36	1	882	1.4	1.42	1239	B		68	2.7	07
38.9	45	1	1070	1.1	1.08	1142	B		66	2.1	08
29.2	60	0.75	1005	1.1	0.83	1097	B		62	1.6	12
26.1	67	0.5	724	1.4	0.73	1044	B		60	1.5	09
21.9	80	0.5	821	1.2	0.62	1000	B		57	1.3	10
18.6	94	0.5	880	1.1	0.58	1000	B		52	1.1	11

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 063 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo 063 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño 063 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 063 Oil Quantity 14.11 ounces

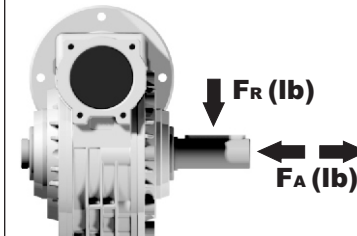
AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

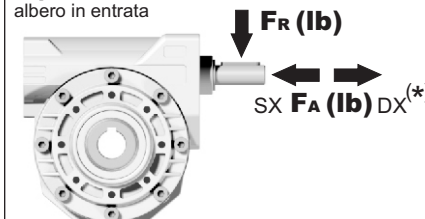
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	81	404.5
150	90	450
100	103.5	517
75	112.5	562
50	135	674.5
25	157	854
15	180	899

Input shaft

albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	20	101

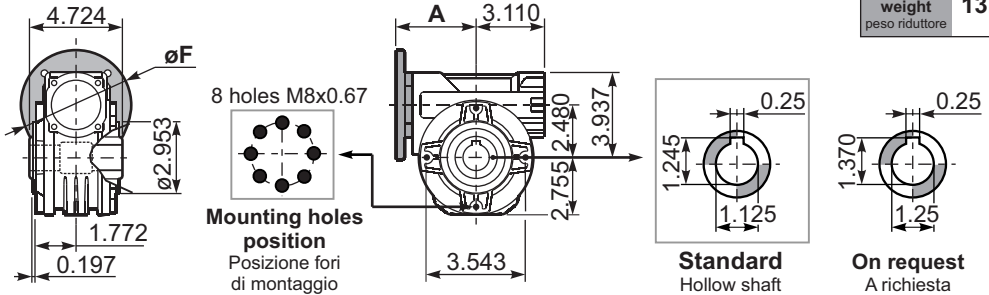
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

P063FB... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **13.23 lb**

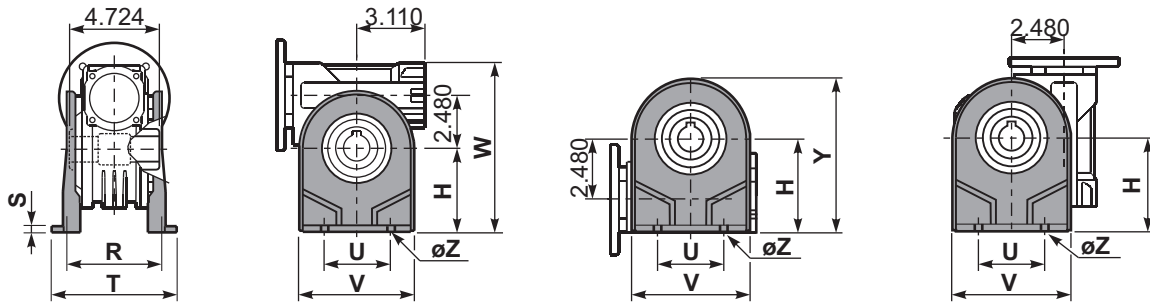
M. flanges	Kit code	øF	A
56C	KU063.4.041	6.50	4.409
143/5 TC	KU063.4.041	6.50	4.409



P063PA... Feet
Piedini

P063PB... Feet
Piedini

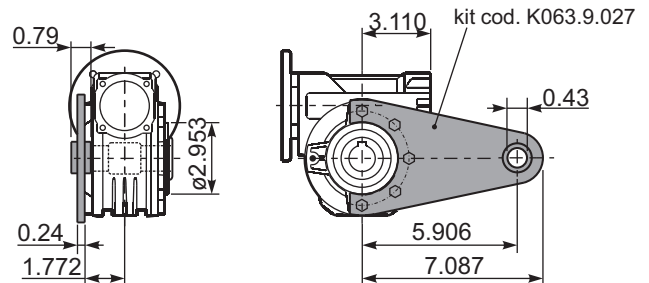
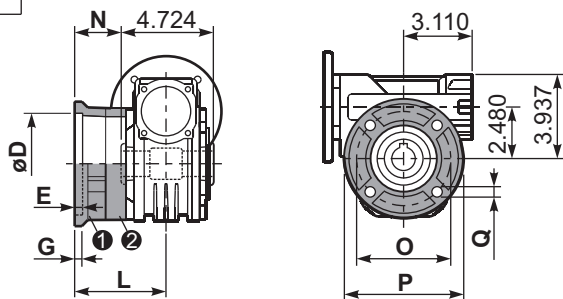
P063PV... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	3.937	4.370	0.157	5.669	3.740	5.236	6.693	7.874	0.41	K063.9.022
type S	-	-	-	-	-	-	-	-	-	-

P063FC... Output flange
Flangia uscita

P063BR... Reaction arm
Braccio di reazione

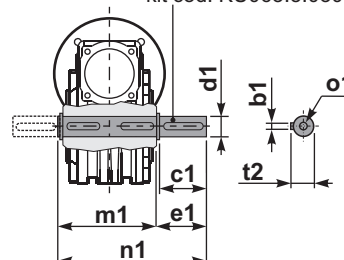


type B	øD	E	G	L	N	O	P	Q	kit code
FC	4.5354	0.28	0.51	3.386	1.024	5.906	6.890	0.43	1 K063.9.010
	4.5354	-	-	-	-	-	-	-	2 -
FL	4.5354	0.28	0.51	4.567	2.205	5.906	6.890	0.43	1 K063.9.010
	4.5354	-	-	-	-	-	-	-	2 K063.0.200

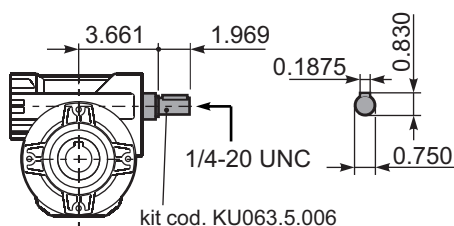
type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1260	0.28	0.51	4.016	1.654	6.496	7.874	0.51	1 KS070.9.013
	5.1240	-	-	-	-	-	-	-	2 -
F2	4.5354	0.28	0.51	4.567	2.205	5.906	6.890	0.43	1 KS063.9.013
	4.5354	-	-	-	-	-	-	-	2 -
F3	4.3321	0.20	0.43	3.228	0.866	5.118	6.299	0.39	1 KS063.9.011
	4.3307	-	-	-	-	-	-	-	2 -

P063.....S... Single Shaft
Albero lento semplice

kit cod. KU063.5.028 standard
kit cod. KU063.5.030 on request



R063FB... Input shaft
Albero in entrata



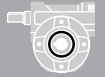
	b1	c1	d1	e1	m1	n1	t2	ø1	kit code
Standard	0.25	2.240	1.125	2.437	4.992	7.429	1.23	5/16-18	KU063.5.028
On request	0.25	2.362	1.250	2.559	4.992	7.551	1.36	5/16-18	KU063.5.030

On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Dynamic efficiency RD	Tooth Module [mm]	 Ratios code
							-W	-X	-Y			
							56C	143-5TC	182-4TC			
250.0	7	7.5	1664	1.3	9.90	2168	B	B		88	4.23	01
175.0	10	7.5	2161	1.1	8.40	2390	B	B		80	4.2	02
125.0	14	5	1967	1.3	6.61	2567	B	B		78	4.5	03
87.5	20	3	1707	1.5	4.41	2478	B	B		79	3.4	04
79.5	22	3	1854	1.3	4.06	2478	B	B		78	3.1	05
62.5	28	3	2269	1.3	3.91	2921	B	B		75	4.7	06
46.1	38	3	2915	1.0	2.95	2832	B	B		71	3.5	07
38.0	46	2	2253	1.2	2.47	2744	B	B		68	3.1	08
33.7	52	2	2472	1.0	1.99	2434	B	B		66	2.7	09
26.1	67	1.5	2353	1.0	1.57	2434	B	B		65	2.1	10
23.6	74	1.5	2319	1.0	1.48	2257	B	B		58	1.9	11
18.2	96	1	1833	1.1	1.13	2036	B	B		53	1.5	12

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 085 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo 085 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño 085 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 085 Oil Quantity 42.33 ounces

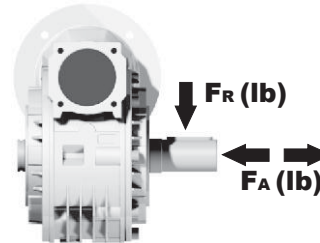
AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

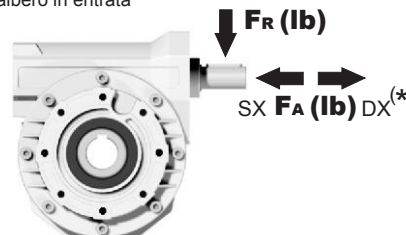
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	112	562
150	130	652
100	135	674
75	157	787
50	180	899
25	225	1124
15	261	1304

Input shaft

albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	36	182

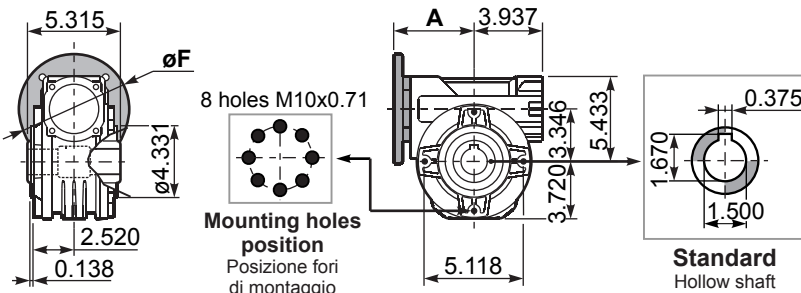
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

P085**FB**... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **24.25 lb**

M. flanges	Kit code	øF	A
56C	KU085.4.041	6.50	4.823
143/5 TC	KU085.4.041	6.50	4.823
182/4 TC	KU085.4.042	8.88	5.527

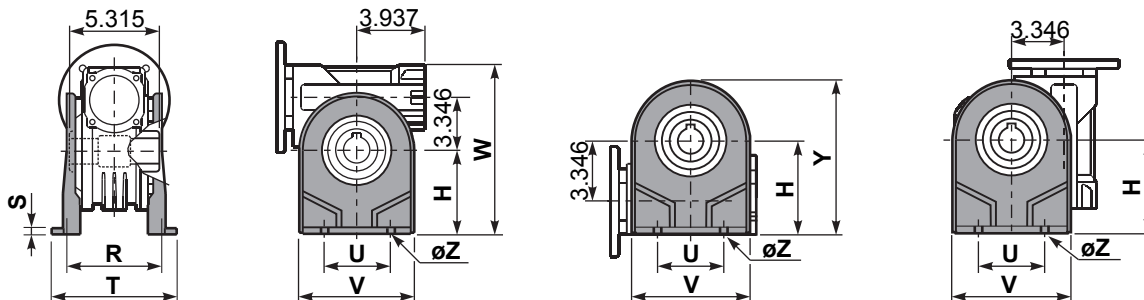


Standard
Hollow shaft

P085**PA**... Feet
Piedini

P085**PB**... Feet
Piedini

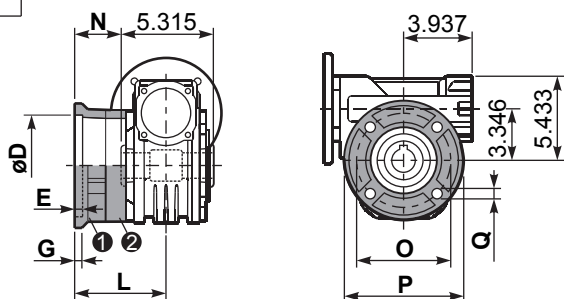
P085**PV**... Feet
Piedini



	H	R	S	T	U	V	Y	W	øZ	kit code
type B	5.591	5.709	0.197	7.165	5.512	7.087	9.311	11.024	0.41	K085.9.022
type S	-	-	-	-	-	-	-	-	-	-

P085**FC**... Output flange
Flangia uscita

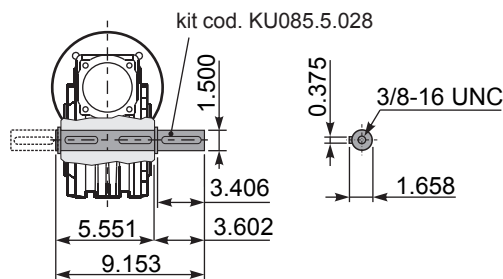
P085**BR**... Reaction arm
Braccio di reazione



type B	øD	E	G	L	N	O	P	Q	kit code
FC	5.9867 5.9843	0.20	0.63	4.252	1.594	6.929	8.071	0.51	1 K085.9.010 2 -
FL	5.9867 5.9843	0.20	0.63	5.846	3.189	6.929	8.071	0.51	1 K085.9.010 2 K085.0.201

type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1197 5.1181	0.20	0.51	4.626	1.969	6.496	7.874	0.45	1 KS085.9.012 2 -
F2	5.9867 5.9843	0.20	0.59	5.807	3.150	7.087	8.071	0.49	1 KS085.9.013 2 -
F4	5.1197 5.1181	0.20	0.51	4.193	1.535	6.496	7.874	0.51	1 KS085.9.015 2 -

P085...**S**... Single Shaft
Albero lento semplice



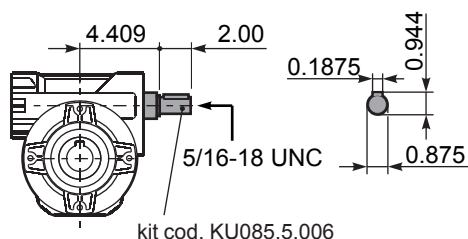
On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente



R085**FB**... Input shaft
Albero in entrata



Worm gearboxes type Q45 ÷ Q85

A modular and compact product

Single-piece aluminum alloy housing

Is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint. Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing.

Single piece alloy steel input shaft and worm shaft.

High helix angle worm is case-hardened (Rc 58-60), ground, teeth are profiled and radiused, for noise reduction and enhanced efficiency.

Oversized bearings

Support positively-retained, high speed shaft for higher shock load capacity - ideal for frequent starting and reversing application. Premium, Nitrile® high temperature seals each end.

Flange

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

Premium, high temperature

Nitrile® output seals

Bronze alloy worm gears.

Is centrifugally cast onto an iron hub for maximum strength and superior life.

Over-size bearing

For radial load capability and maximum hollow output shaft diameter.

Standard hollow output shaft mounting

Reduces total drive envelope size, weight and cost. Single and double solid output shaft is available.

Impregnated and machined bearing caps

With exterior machined surfaces enable a variety of mounting accessories. Extra-deep thread engagement provided for greater support strength. Zinc plated hardware.

Vent Free Design.

No breather or vents to leak! Factory lubricated for life with synthetic, semi-fluid gear lubricant with an operating range of -15°C to 130°C.

oil free



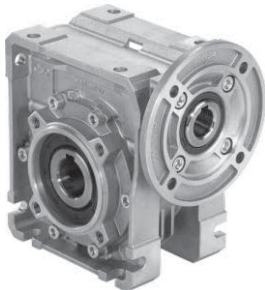
vent free



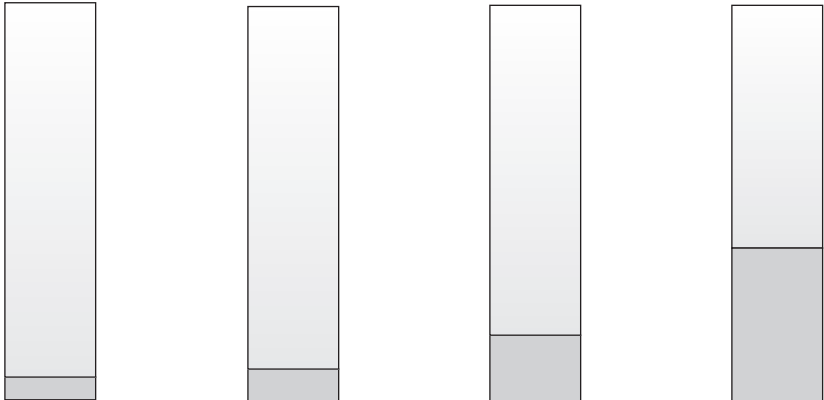
Specific type datasheet on page...

On page / A pagina / En la página

2-5 2-7 2-9 2-11



Types / tipi / Tipos →



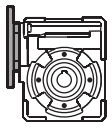
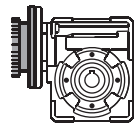
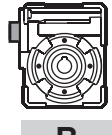
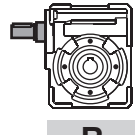
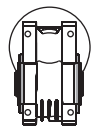
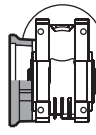
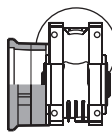
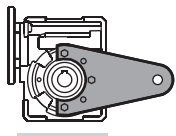
Q45
345 lb in

Q50
611 lb in

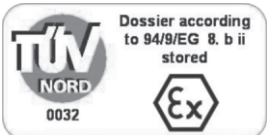
Q63
1240 lb in

Q85
2921lb in

CODIFICA / HOW TO ORDER / CODIFICACIÓN

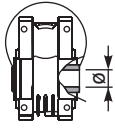

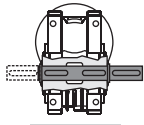
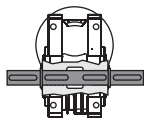
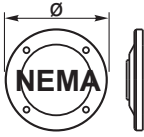




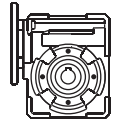
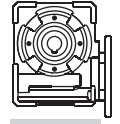
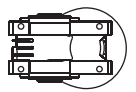
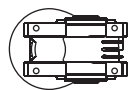
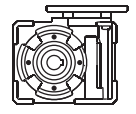
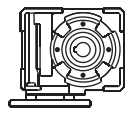
Type - Tipo	Size - Grandezza Tamaño	Mounting - Montaggio - Tipo de montaje
P	Q45	FC
<p>Worm gearboxes Riduttori a vite senza fine Reductores de corona sin fin</p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;">  P </div> <div style="width: 50%; text-align: center;">  M </div> <div style="width: 50%; text-align: center;">  B </div> <div style="width: 50%; text-align: center;">  R </div> </div>	<p>Q45 Q50 Q63 Q85</p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  FB </div> <div style="text-align: center;">  FC </div> <div style="text-align: center;">  FL </div> <div style="text-align: center;"> <p>F1 F2 F3 F4</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  BR </div>

2



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

CODIFICA / HOW TO ORDER / CODIFICACIÓN

Ratio Rapporto Relación	Hub Mozzo corona Nucleo corona	Output shaft Albero lento Eje solida	Motor size Grandezza motore Tamaño motor	Terminal box position Posizione morsettiera Posición caja de bornes	Mounting position Posizione montaggio Position de montaje
10	U	∅	-W	B	B3
<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	 <p>U</p> <p>INCH</p> <p>Q45 ⇒ ∅0.750"</p> <p>Q50 ⇒ ∅1.000"</p> <p>Q63 ⇒ ∅1.125"</p> <p>Q85 ⇒ ∅1.500"</p>	 <p>∅</p>  <p>S</p>  <p>D</p>	 <p>NEMA</p> <p>With Flange for type P</p> <p>-W ⇒ 56C</p> <p>-X ⇒ 143/5TC</p> <p>-Y ⇒ 182/4TC</p> <p>-N without flange Senza flangia</p> <p>For Modular Base type B</p> <p>Q45 ⇒ ∅0.625</p> <p>Q50 ⇒ ∅0.625</p> <p>Q63 ⇒ ∅0.875</p> <p>Q85 ⇒ ∅1.125</p> <p>-Z For Type - R</p>	 <p>A</p>  <p>B</p> <p>STANDARD</p>  <p>C</p>  <p>D</p>	 <p>B3</p>  <p>B8</p>  <p>B6</p>  <p>B7</p>  <p>V5</p>  <p>V6</p>

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

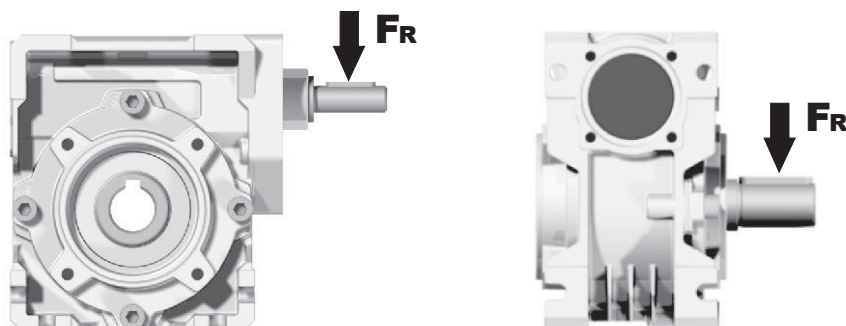
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / CARGA RADIAL Y AXIAL

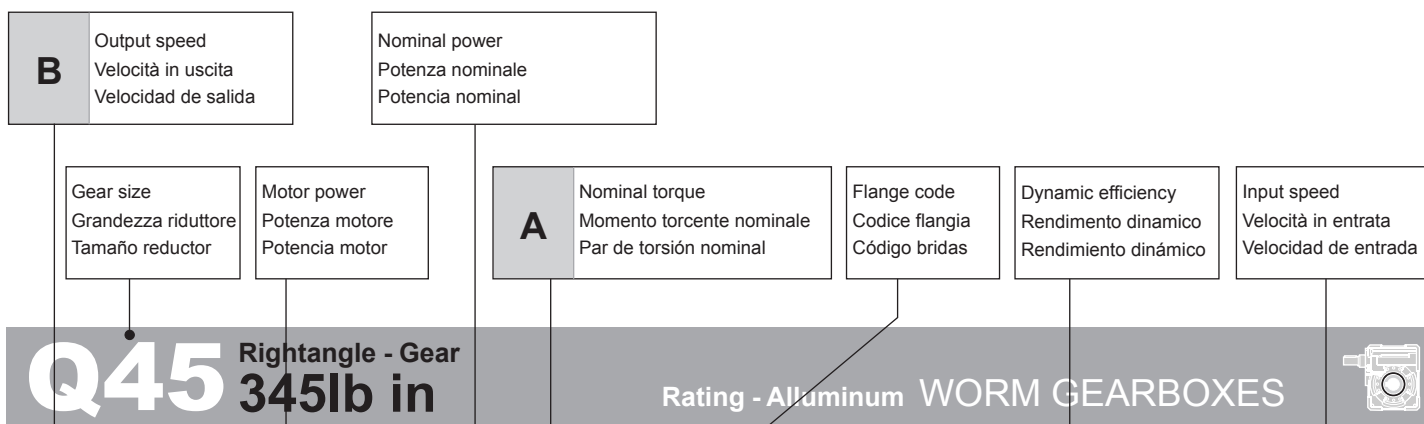
- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



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



QUICK SELECTION / Selezione veloce input speed (n_i) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges	Dynamic efficiency RD	Tooth Module [mm]	Ratios code
250.0	7	1	202	1.3	1.29	257	-W	80	2.2	01
175.0	10	0.75	213	1.2	0.91	257	-	79	2.2	02
125.0	14	0.5	194	1.3	0.67	257	56C	77	2.4	03



fs

Type of load and starts per hour Tipo di carico e avviamenti per ora		Oper. hours per day Ore di funz. giorn.		
		<2 h	2 - 8 h	8 - 16 h
Continuous or intermittent appl. with start / hour Applicazione cont. o interm. con n.ro operazioni/ora	Uniform / Uniforme	0.9	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	1.25	1.5	1.75
	Moderate / Moderato	1.5	1.75	2
	Heavy / Forte	1.75	2	2.25

D Motor flange available
Flange disponibili
Bridas disponibles

B) Mounting with reduction ring
Montaggio con boccola di riduzione
Montaje con casquillo de reducción

C) Motor flangeholes position/terminal box position
Posizione fori flangia/basetta motore
Posición agujeros brida / base motor



B) Available without reduction bushes
Disponibile anche senza boccola
Disponibile tambien sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	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	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)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency	Tooth Module  [mm]	Ratios code 
							-W	-			
250.0	7	1	202	1.3	1.29	257	56C	-	RD		01
175.0	10	0.75	213	1.2	0.91	257					02
125.0	14	0.5	194	1.3	0.67	257					03
83.3	21	0.5	253	1.4	0.69	345					04
62.5	28	0.5	328	1.1	0.53	345					05
47.3	37	0.33	277	1.2	0.42	345					06
38.0	46	0.33	323	1.1	0.36	345					07
29.2	60	0.25	303	1.1	0.29	345					08
25.0	70	0.25	340	0.8	0.19	257					09
17.2	102	0.25*	450	<0.8	0.14	248					10

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

* Power higher than the maximum one which can be 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 Q45 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo Q45 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.](#)

E El reductor tamaño Q45 se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. [Para documentación completa, consultar nuestra Web.](#)

LUBRICATION Q45 Oil Quantity 3.17 ounces

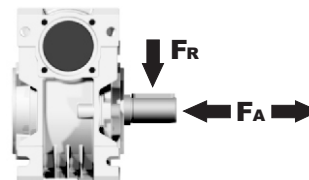
AGIP Telium VSF 320

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

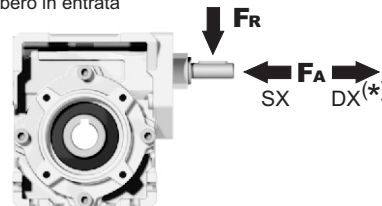
RADIAL AND AXIAL LOADS

Output shaft Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	40	202
150	45	225
100	49	247
75	54	270
50	58	315
25	67	405
15	90	450

Input shaft albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	9	47

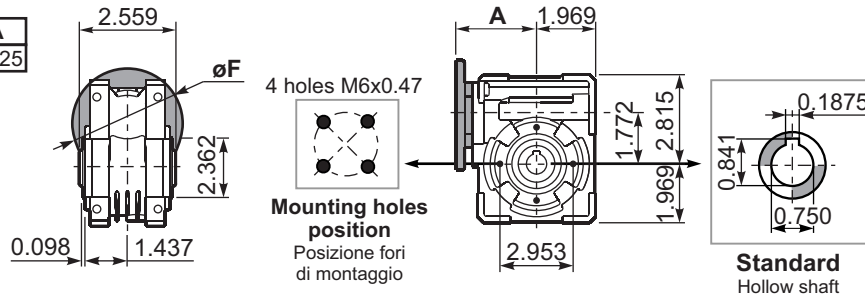
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

PQ45**FB**... Basic wormbox
Riduttore base

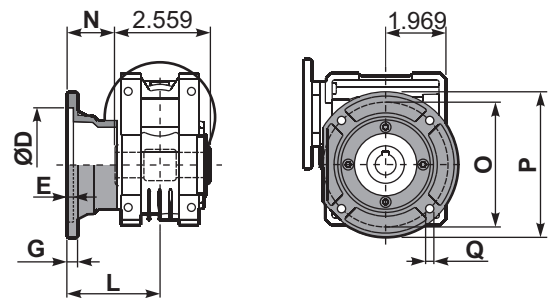
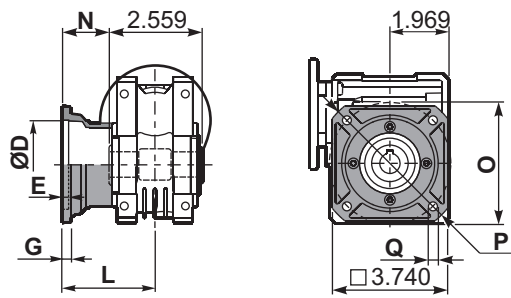
Gearbox weight
peso riduttore **5.07 lb**

M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	3.925



PQ45**FC**... Square flange
Flangia quadrata

PQ45**F1**... Round flange
Flangia rotonda

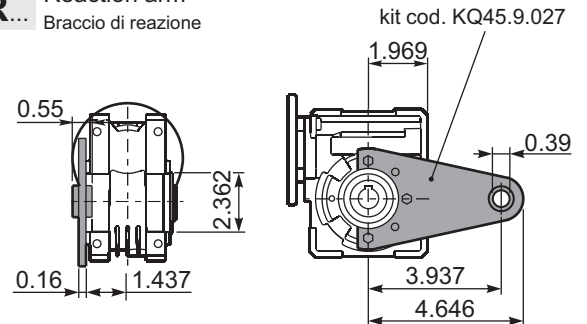
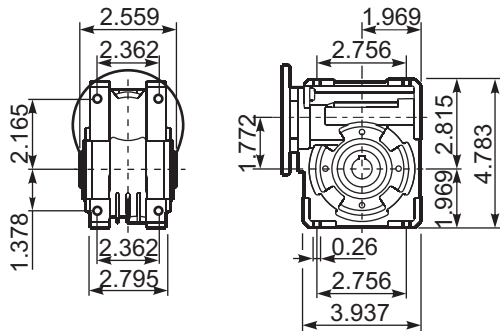


type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.3640 2.3622	0.16	0.28	2.638	1.358	2.953	4.331	0.35	KQ45.9.010
FL	2.3640 2.3622	0.16	0.28	3.819	2.539	2.953	4.331	0.35	KQ45.9.011

type S	øD	E	G	L	N	O	P	Q	kit code
F1	3.7423 3.7402	0.20	0.35	3.150	1.870	4.528	5.512	0.37	KSQ45.9.012
F2	3.1514 3.1496	0.20	0.47	2.283	1.004	3.937	4.724	0.35	KSQ45.9.013

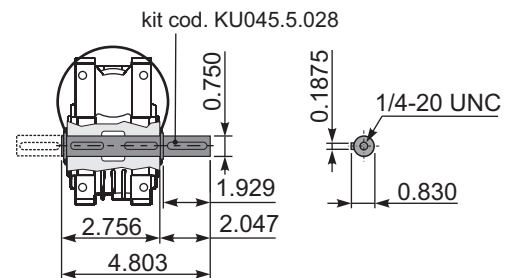
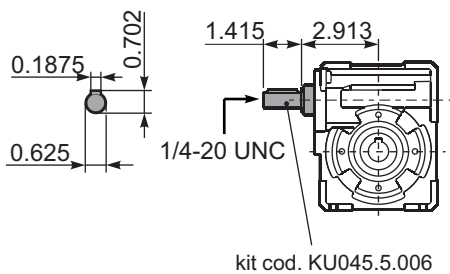
PQ45**FB**... Feet
Piedini

PQ45**BR**... Reaction arm
Braccio di reazione



RQ45**FB**... Input shaft
Albero in entrata

PQ45.....**S**... Single Shaft
Albero lento semplice



On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency	Tooth Module  [mm]	 Ratios code
							-W	-			
250.0	7	2	413	1.2	2.34	478	56C	-	RD		01
175.0	10	1.5	432	1.2	1.84	522					02
125.0	14	1	398	1.4	1.46	575					03
97.2	18	1	486	1.1	1.09	522					04
67.3	26	0.75	485	1.2	0.87	558					05
58.3	30	0.75	567	1.1	0.82	611					12
48.6	36	0.5	447	1.4	0.69	611					06
40.7	43	0.5	511	1.1	0.57	575					07
29.2	60	0.33	414	1.3	0.42	522					08
25.7	68	0.33	461	1.1	0.35	487					09
21.9	80	0.25	389	1.2	0.31	478					10
17.5	100	0.25	450	1.0	0.24	434					11

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 Q50 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo Q50 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño Q50 se suministra, lubricado de por vida con aceites sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION 050 Oil Quantity 4.93 ounces

AGIP Telium VSF 320

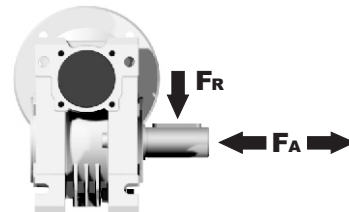
SHELL Omala S4 WE 320

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

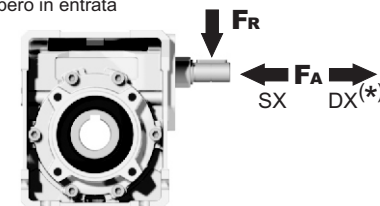
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	54	270
150	63	315
100	67	337
75	76	382
50	85	427
25	108	562
15	126	629

Input shaft

albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	17	85

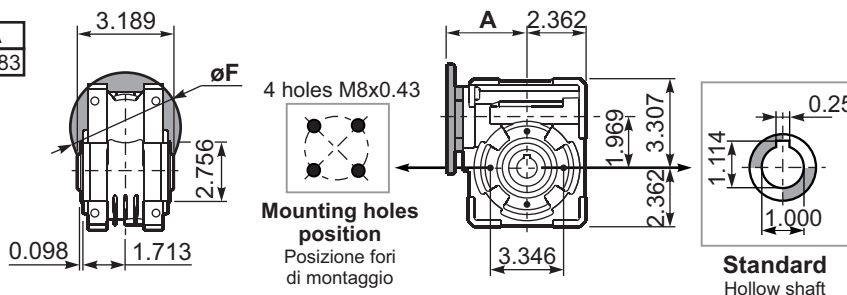
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

PQ50FB... Basic wormbox
Riduttore base

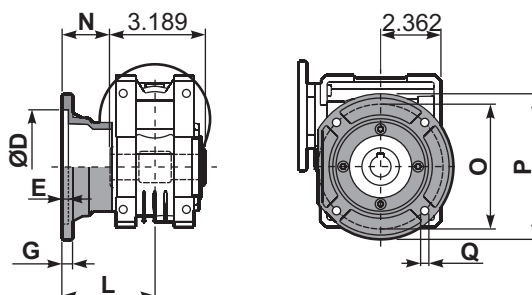
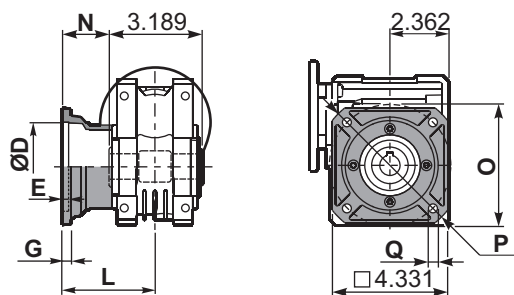
Gearbox weight
peso riduttore **7.165 lb**

M. flanges	Kit code	øF	A
56C	KU050.4.041	6.5	4.083



PQ50FC... Square flange
Flangia quadrata

PQ50F1... Round flange
Flangia rotonda



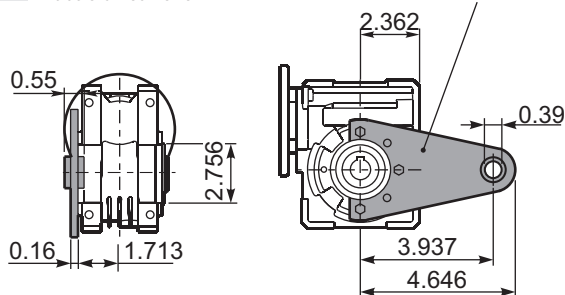
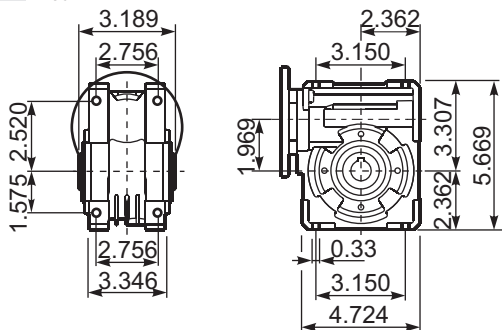
type B	øD	E	G	L	N	O	P	Q	kit code
FC	2.7577 2.7559	0.20	0.35	3.543	1.949	3.346	4.921	0.43	KQ50.9.010
FL	2.7577 2.7559	0.20	0.35	4.724	3.130	3.346	4.921	0.43	KQ50.9.011

type S	øD	E	G	L	N	O	P	Q	kit code
F1	4.3328 4.3307	0.20	0.39	3.504	1.909	5.118	6.299	0.37	KSQ50.9.012
F2	3.7423 3.7402	0.20	0.57	2.835	1.240	4.528	5.512	0.43	KSQ50.9.013

PQ50FB... Feet
Piedini

PQ50BR... Reaction arm
Braccio di reazione

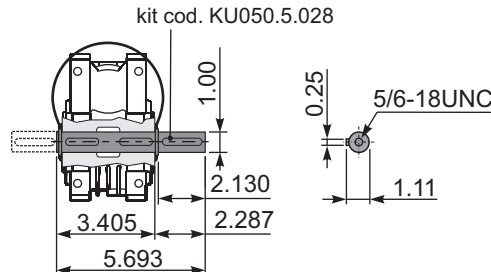
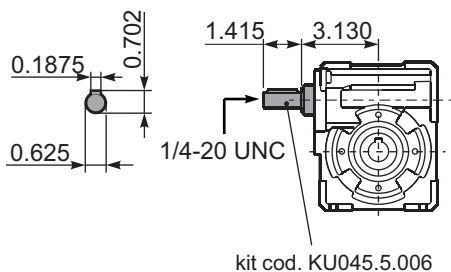
kit cod. KQ50.9.027



RQ50FB... Input shaft
Albero in entrata

PQ50.....S... Single Shaft
Albero lento semplice

kit cod. KU050.5.028



On request : Special Hollow Shafts
Mozzo Uscita Speciale

On request : Double extended worm shaft
Vite bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Dynamic efficiency RD	Tooth Module [mm]	 Ratios code
							-W 56C	-X 143-5TC			
250.0	7	2	419	2.5	5.10	1053	B		83	3.1	01
175.0	10	2	583	1.9	3.93	1133	B		81	3.1	02
116.7	15	2	854	1.4	2.75	1159	B		79	3.1	03
92.1	19	2	1068	1.1	2.20	1159	B		78	2.6	04
72.9	24	1.5	972	1.2	1.87	1195	B		75	2.0	05
58.3	30	1.5	1199	1.0	1.56	1230	B		74	3.2	06
48.6	36	1	882	1.4	1.42	1239	B		68	2.7	07
38.9	45	1	1070	1.1	1.08	1142	B		66	2.1	08
29.2	60	0.75	1005	1.1	0.83	1097	B		62	1.6	12
26.1	67	0.5	724	1.4	0.73	1044	B		60	1.5	09
21.9	80	0.5	821	1.2	0.62	1000	B		57	1.3	10
18.6	94	0.5	880	1.1	0.58	1000	B		52	1.1	11

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 Q63 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo Q63 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño Q63 se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION Q63 Oil Quantity 10.56 ounces

AGIP Telium VSF 320

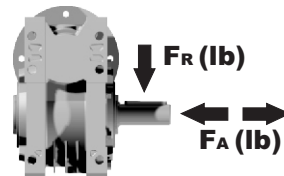
SHELL Omala S4 WE 320

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

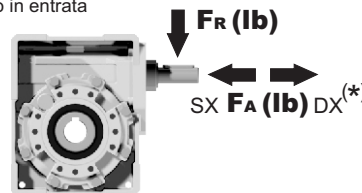
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	81	404.5
150	90	450
100	103.5	517
75	112.5	562
50	135	674.5
25	157	854
15	180	899

Input shaft

albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	20	101

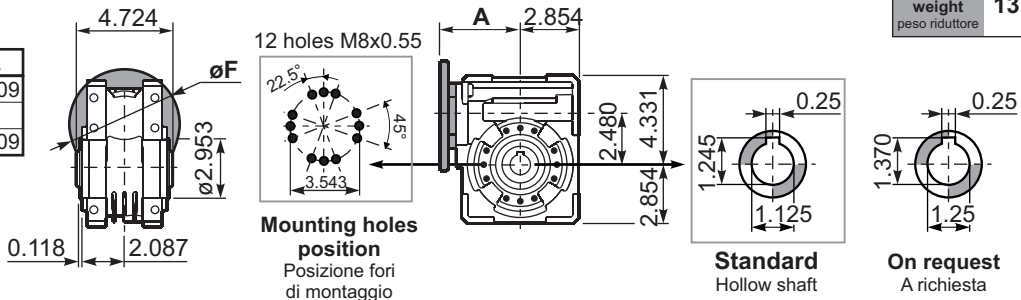
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

PQ63FB... Basic wormbox
Riduttore base

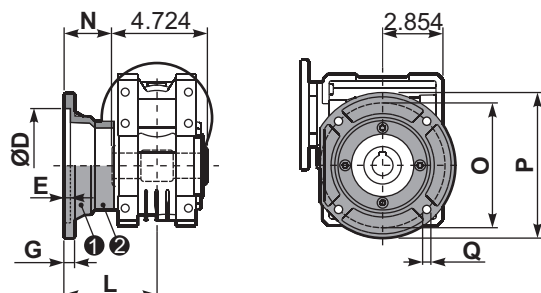
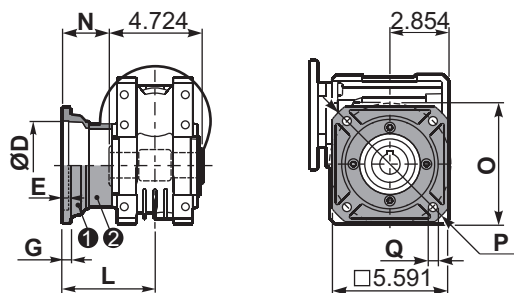
Gearbox weight
peso riduttore **13.23 lb**

M. flanges	Kit code	øF	A
56C	KU063.4.041	6.50	4.409
143/5 TC	KU063.4.041	6.50	4.409



PQ63FC... Square flange
Flangia quadrata

PQ63F1... Round flange
Flangia rotonda

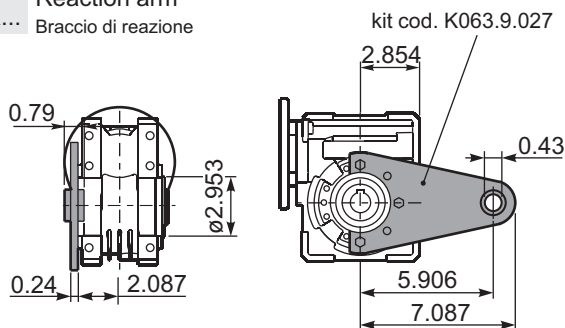
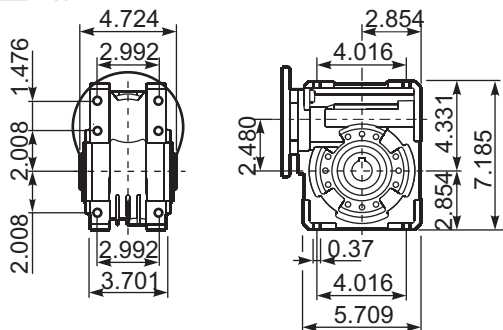


type B	øD	E	G	L	N	O	P	Q	kit code
FC	4.5354 4.5335	0.24	0.47	3.386	1.024	5.906	7.087	0.43	① KQ63.9.010 ② -
FL	4.5354 4.5335	0.24	0.47	4.567	2.205	5.906	7.087	0.43	① KQ63.9.010 ② K063.0.200

type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1260 5.1240	0.28	0.51	4.331	1.969	6.496	7.874	0.51	① KS070.9.013 ② -
F2	4.5354 4.5335	0.28	0.51	4.882	2.520	5.906	6.890	0.43	① KS063.9.013 ② -
F3	4.3321 4.3307	0.20	0.43	3.543	1.181	5.118	6.299	0.39	① KS063.9.011 ② -

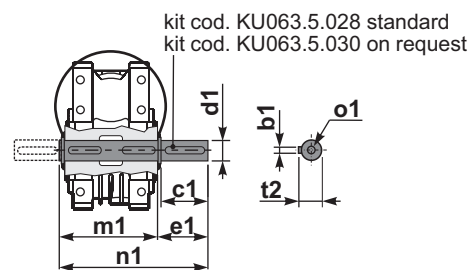
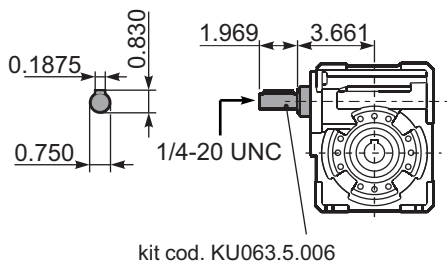
PQ63FB... Feet
Piedini

PQ63BR... Reaction arm
Braccio di reazione



RQ63FB... Input shaft
Albero in entrata

PQ63.....S... Single Shaft
Albero lento semplice



	b1	c1	d1	e1	m1	n1	t2	o1	kit code
Standard	0.25	2.240	1.125	2.437	4.992	7.429	1.23	5/16-18	KU063.5.028
On request	0.25	2.362	1.250	2.559	4.992	7.551	1.36	5/16-18	KU063.5.030

On request : Special Hollow Shafts
Mozzo Uscita Speciale



On request : Double extended worm shaft
Vite bisporgente





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Dynamic efficiency RD	Tooth Module [mm]	 Ratios code
							-W	-X	-Y			
							56C	143-5TC	182-4TC			
250.0	7	7.5	1664	1.3	9.90	2168	B	B		88	4.23	01
175.0	10	7.5	2161	1.1	8.40	2390	B	B		80	4.2	02
125.0	14	5	1967	1.3	6.61	2567	B	B		78	4.5	03
87.5	20	3	1707	1.5	4.41	2478	B	B		79	3.4	04
79.5	22	3	1854	1.3	4.06	2478	B	B		78	3.1	05
62.5	28	3	2269	1.3	3.91	2921	B	B		75	4.7	06
46.1	38	3	2915	1.0	2.95	2832	B	B		71	3.5	07
38.0	46	2	2253	1.2	2.47	2744	B	B		68	3.1	08
33.7	52	2	2472	1.0	1.99	2434	B	B		66	2.7	09
26.1	67	1.5	2353	1.0	1.57	2434	B	B		65	2.1	10
23.6	74	1.5	2319	1.0	1.48	2257	B	B		58	1.9	11
18.2	96	1	1833	1.1	1.13	2036	B	B		53	1.5	12

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 Q85 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us. 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 tipo Q85 viene fornito lubrificato a vita con olio sintetico. Per posizioni V5-V6 contattare il ns. servizio tecnico. 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.

E El reductor tamaño Q85 se suministra, lubricado de por vida con aceite sintético. Para las posiciones V5 y V6 contactar con nuestro servicio técnico. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor. Para documentación completa, consultar nuestra Web.

LUBRICATION Q85 Oil Quantity 42.23 ounces

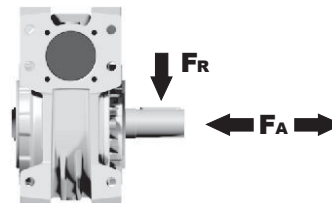
AGIP Telium VSF 320	SHELL Omala S4 WE 320
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For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

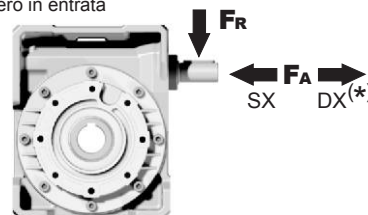
Albero di uscita



n_2 [min ⁻¹]	FA [lb]	FR [lb]
200	112	562
150	130	652
100	135	674
75	157	787
50	180	899
25	225	1124
15	261	1304

Input shaft

albero in entrata



n_1 [min ⁻¹]	FA [lb]	FR [lb]
1750	36	182

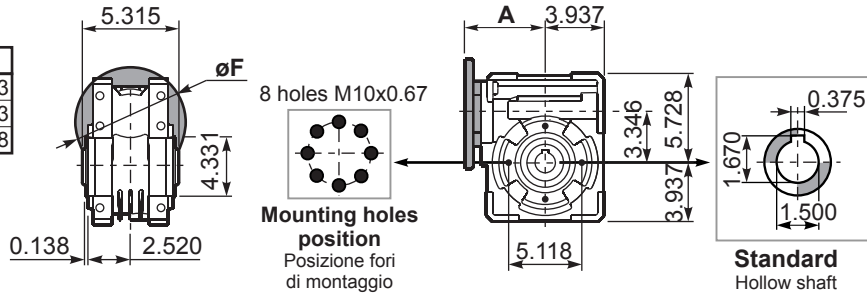
***Strong axial loads in the DX direction are not allowed.**
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

PQ85FB... Basic wormbox
Riduttore base

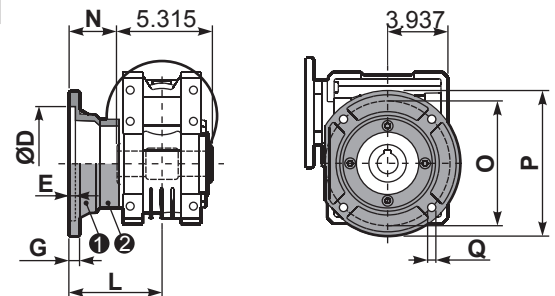
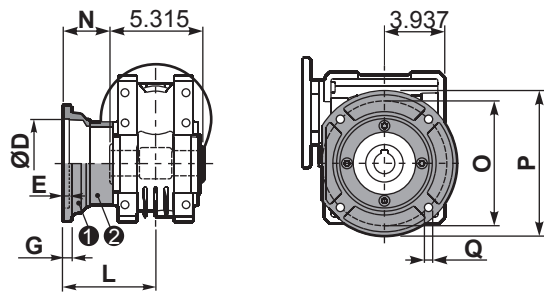
Gearbox weight
peso riduttore **41.23 lb**

M. flanges	Kit code	øF	A
56C	KU085.4.041	6.50	4.823
143/5 TC	KU085.4.041	6.50	4.823
182/4 TC	KU085.4.042	8.88	5.528



PQ85FC... Output flange
Flangia uscita

PQ85F1... Output flange
Flangia uscita

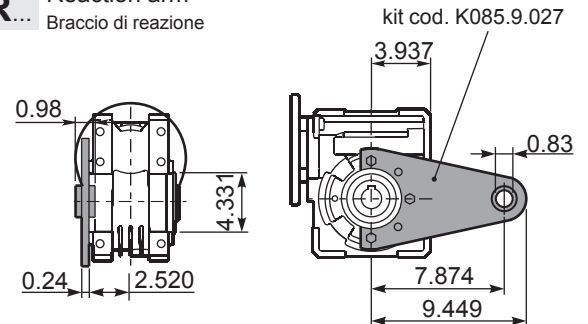
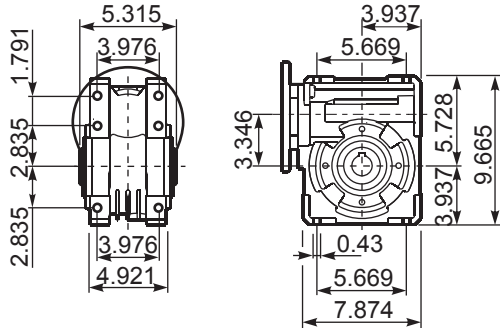


type B	øD	E	G	L	N	O	P	Q	kit code
FC	5.9867 5.9843	0.20	0.63	4.252	1.594	6.929	8.071	0.51	① K085.9.010 ② -
FL	5.9867 5.9843	0.20	0.63	5.846	3.189	6.929	8.071	0.51	① K085.9.010 ② K085.0.201

type S	øD	E	G	L	N	O	P	Q	kit code
F1	5.1200 5.1181	0.20	0.51	4.626	1.969	6.496	7.874	0.45	① KS085.9.012 ② -
F2	5.9867 5.9843	0.20	0.59	5.807	3.150	7.087	8.071	0.49	① KS085.9.013 ② -
F4	5.1200 5.1181	0.20	0.51	4.193	1.535	6.496	7.874	0.51	① KS085.9.015 ② -

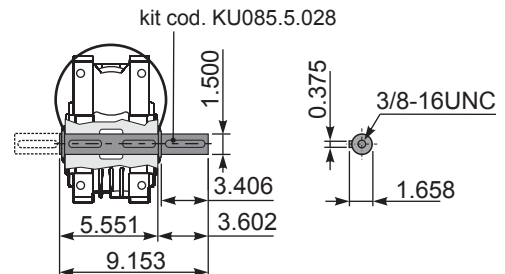
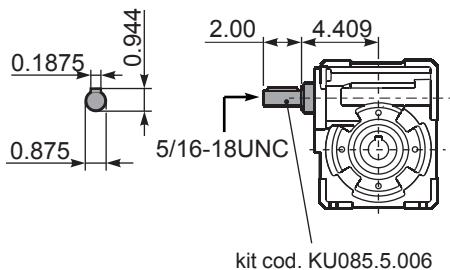
PQ85FB... Feet
Piedini

PQ85BR... Reaction arm
Braccio di reazione



RQ85FB... Input shaft
Albero in entrata

PQ85.....S... Single Shaft
Albero lento semplice



On request : Special Hollow Shafts
Mozzo Uscita Speciale

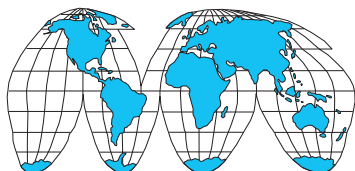
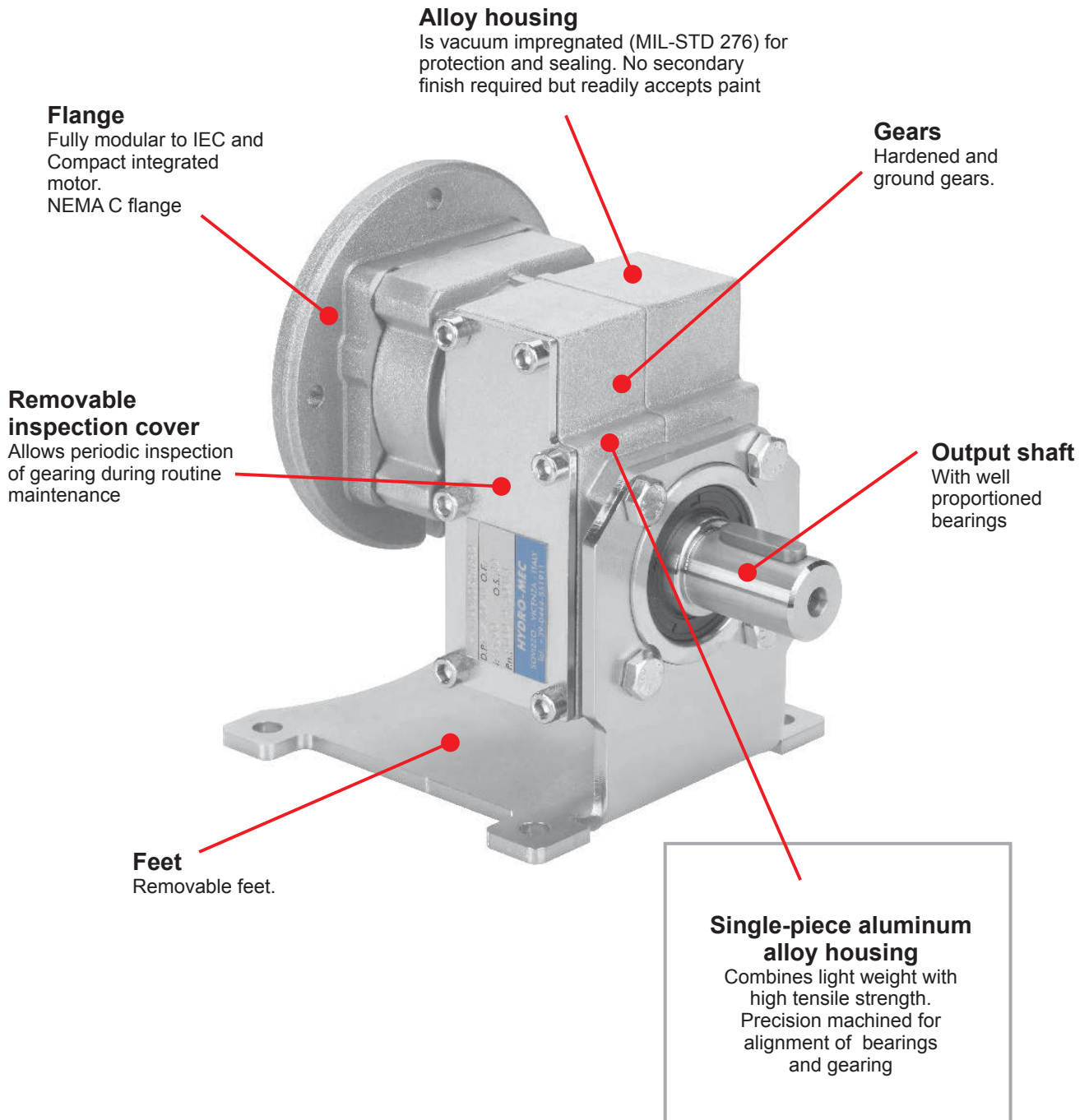
On request : Double extended worm shaft
Vite bisporgente



Aluminum one step gearboxes

A modular and compact product

3

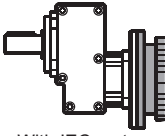
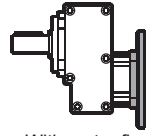
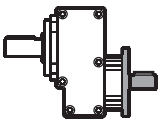
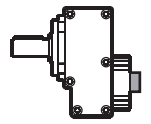
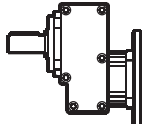
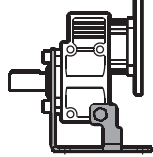
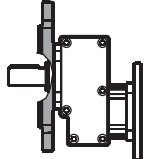
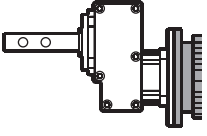


World wide sales network.

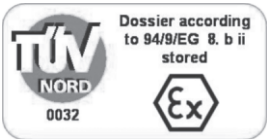
Lubricated for life with synthetic oil with operative range from -15° to $+130^{\circ}\text{C}$



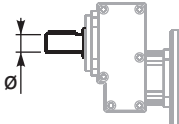
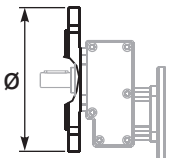
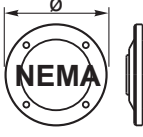


CODIFICA / HOW TO ORDER / CODIFICACIÓN

Type - Tipo - Tipo	Size - Grandezza - Tamaño	Mounting - Montaggio Tipo de montaje
P	311A	-F
<p>Aluminum one step gear Riduttori in alluminio a uno stadio</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  With IEC motor M </div> <div style="text-align: center;">  With motor flange P </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  With male input shaft R </div> <div style="text-align: center;">  Modular Base B </div> </div>	<p>1 Stages Riduzioni Etapas</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80px; text-align: center;"> 211A 311A 411A 511A </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;">  Without flange / feet -N </div> <div style="text-align: center;">  Mounted feet H1 </div> </div> <div style="text-align: center;">  Output flange mounted -F </div>
<div style="border: 1px solid black; padding: 10px;"> <p>Special output shaft Albero uscita speciale</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>Only on request for Q.ty A richiesta per quantità</p> </div>		

3



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Ratio - Rapporto Relación	Output shaft Albero uscita Eje en salida	Output flange Flangia uscita Brida en salida	Motor size - Grandezza motore Tamaño motor	Terminal box position Posizione morsettiera Posición caja de bornes	Mounting position Posizione montaggio Posición de montaje
2.84	X	U	-W	B	B3
<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	<p>Output shaft diameter Diametro albero uscita</p>  <p>→ STANDARD</p> <p>211A</p> <p>X → Ø0.625</p> <p>311A</p> <p>X → Ø0.625</p> <p>O → Ø0.750</p> <p>W → Ø0.875</p> <p>411A</p> <p>X → Ø0.625</p> <p>O → Ø0.750</p> <p>W → Ø0.875</p> <p>511A</p> <p>Y → Ø1.125</p>	<p>Output flange diameter Diametro flangia uscita</p>  <p>N Senza flangia Without flange</p> <p>211A</p> <p>I → Ø4.13</p> <p>Flangia integrata Integrated flange</p> <p>311A</p> <p>U → Ø6.50</p> <p>2 → Ø5.51</p> <p>3 → Ø6.30</p> <p>4 → Ø7.87</p> <p>411A</p> <p>U → Ø6.50</p> <p>2 → Ø5.51</p> <p>3 → Ø6.30</p> <p>4 → Ø7.87</p> <p>511A</p> <p>U → Ø6.50</p> <p>2 → Ø5.51</p> <p>3 → Ø6.30</p> <p>4 → Ø7.87</p> <p>5 → Ø9.84</p>	<p>With Flange for type P</p>  <p>-W ⇒ 56C</p> <p>-X ⇒ 143/5TC</p> <p>-Y ⇒ 182/4TC</p> <p>→ STANDARD</p> <p>Without flange Senza flangia</p>  <p>211A 311A</p> <p>-K → Ø0.625</p> <p>411A</p> <p>-K → Ø0.625</p> <p>-N → Ø0.875</p> <p>511A</p> <p>-K → Ø0.625</p> <p>-N → Ø0.875</p> <p>-S → Ø1.125</p> <p>Type R Tipo R</p>  <p>211A 311A</p> <p>-K → Ø0.625</p> <p>411A</p> <p>-J → Ø0.750</p> <p>511A</p> <p>-J → Ø0.750</p> <p>-N → Ø0.875</p>	<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>Specify only for vertical positions Specificare solo per posizione verticale</p>

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

3

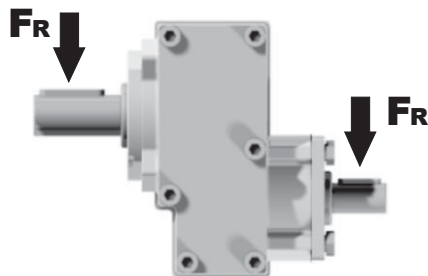
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / CARGA RADIAL Y AXIAL

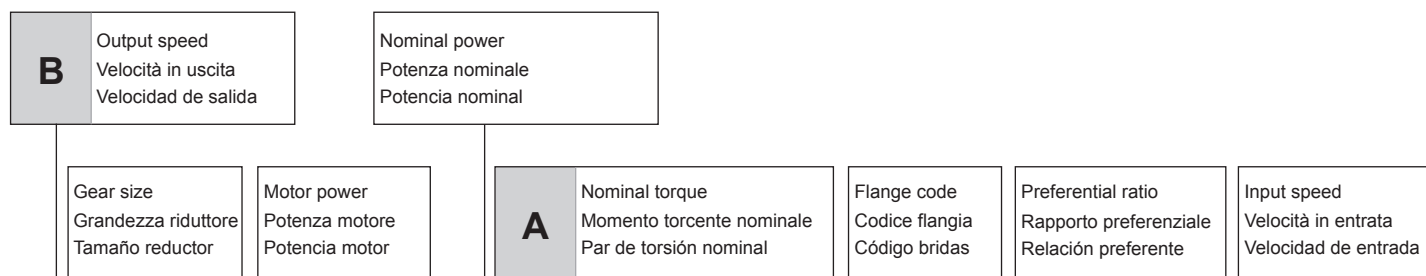
- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



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



311A

One step 266lb in

Rating - Alluminum ONE STEP GEARBOXES



3

QUICK SELECTION / Selezione veloce input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges	Output Shaft	Ratios code
1113.6	1.57	0.75	56	2.1	2.07	115	-W		-
615.7	2.84	0.75	100	2.0	2.03	204	-	2844	-
531.3	3.29	0.75	115	2.0	1.98	230	56C	1954	standard
								1756	ø0.625



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
Bridas disponibles



B) Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción	
C) Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor	
B) Available without reduction bushes Disponibile anche senza boccola Disponibile tambien sin casquillo	

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	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	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)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code 
							-W	-		
853	2.05	0.75	54	1.6	1.22	89	56C	-	1939	01
744	2.35	0.75	62	1.7	1.28	106			1740	02
625	2.80	0.75	74	1.7	1.25	124			1542	03
517	3.38	0.75	90	1.7	1.26	150			1344	04
372	4.70	0.75	124	1.4	1.07	177			1047	05
281	6.22	0.75	165	1.2	0.93	204			956	06
211	8.29	0.5	146	1.2	0.61	177			758	07
178	9.83	0.33	115	1.2	0.41	142			659	08

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

LUBRICATION 211A Oil Quantity 1.76 ounces

AGIP Telium VSF 320

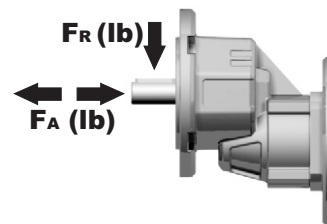
SHELL Omala S4 WE 320

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

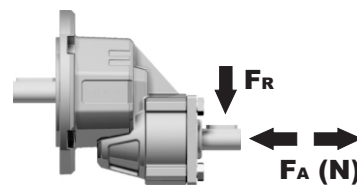
Albero di uscita



n_2	FA	FR
700	22.7	113.3
600	27.0	134.9
400	31.0	156.5
300	33.9	170.0
200	39.3	196.9
140	43.2	215.8

Input shaft

albero in entrata



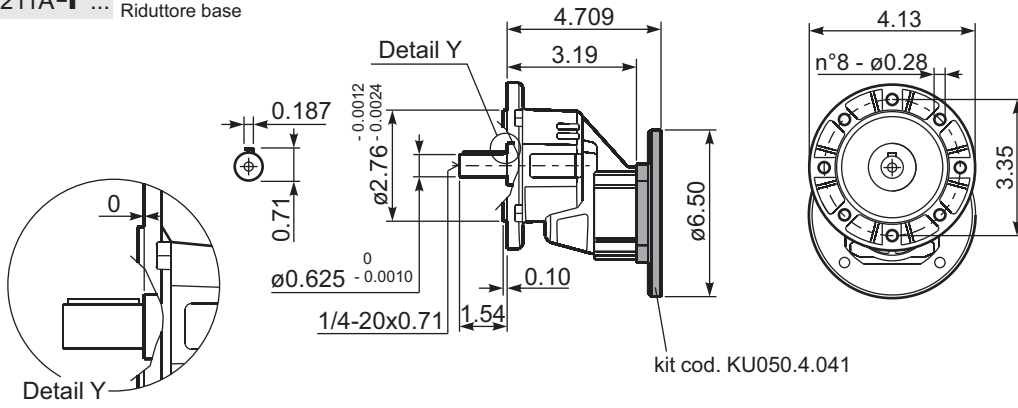
n_2	FA	FR
1750	37.8	188.8
1140	43.2	215.8

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

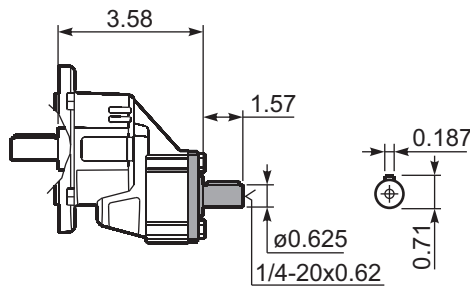
tab. 2

P211A-F... Basic wormbox
Riduttore base

Gearbox weight
peso riduttore **3.09 lb**



R211A-F... Basic wormbox
Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft	Ratios code
							-W	-		
							56C	-		
1114	1.57	1	55	2.1	2.07	115			2844	standard ø0.625 On request ø0.750 ø0.875
616	2.84	1	100	2.0	2.03	204			1954	
531	3.29	1	116	2.0	1.98	230			1756	
453	3.87	1	136	1.8	1.82	248			1558	
379	4.62	1	163	1.6	1.63	266			1360	
278	6.30	1	222	1.4	1.39	310			1063	
213	8.22	0.75	218	1.5	1.16	336			974	
161	10.86	0.50	192	1.3	0.65	248			776	

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

LUBRICATION 311A Oil Quantity 3.53 Ounces

AGIP Telium VSF 320

SHELL Omala S4 WE 320

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

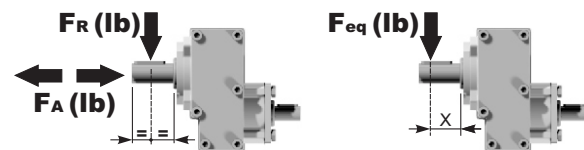
tab. 1

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

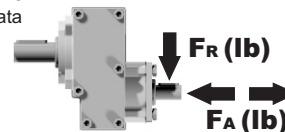
$$F_{eq} = FR \cdot \frac{1.61}{X+0.83}$$



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
700	18.9	94.4	400	25.8	130.3	200	32.8	164.0
600	22.5	112.3	300	28.3	141.5	140	35.9	179.7

Input shaft

Albero in entrata

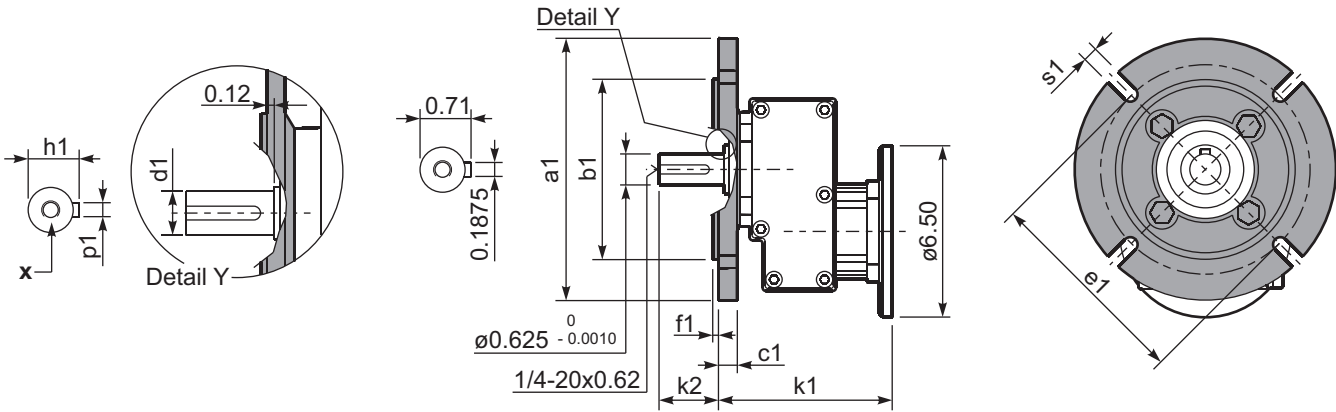


n_1	FA	FR
1750	31.4	157.3
1140	35.9	179.7

tab. 2

P311-F... Output flange
flange di uscita

Gearbox weight
peso riduttore Mold base **4.41 lb**
With flange **5.29 lb**



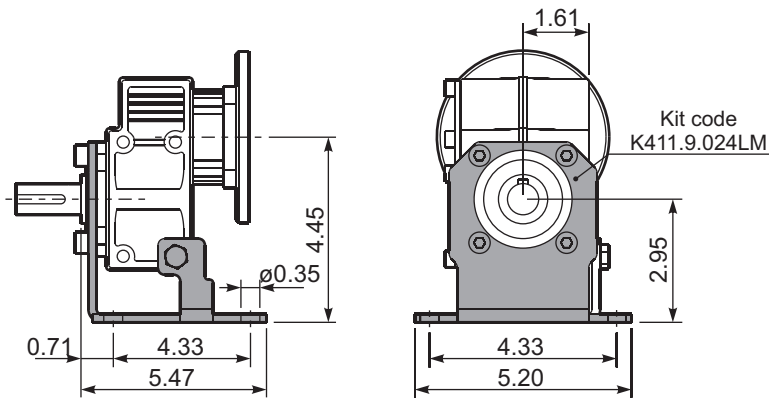
*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø0.625x2.06	0.187	0.71	1/4-20x0.71
On request A richiesta	ø0.750x2.125	0.187	0.84	1/4-20x0.71
	ø0.875x2.125	0.187	0.96	1/4-20x0.71

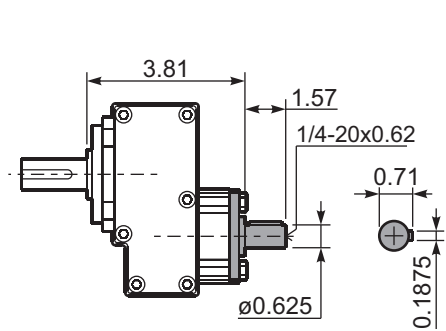
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	k1	k2	s1	kit code	Type
6.50	4.50 ^{-0.0017} _{-0.0033}	0.61	5.87	0.13	5.19	1.82	0.41	KU311.9.012	Nema
5.51	3.74 ^{-0.0014} _{-0.0028}	0.45	4.53	0.12	5.09	1.92	0.35	KC30.9.011	Metric
6.30	4.33 ^{-0.0014} _{-0.0028}	0.45	5.12	0.14	5.09	1.92	0.35	KC30.9.012	
7.87	5.12 ^{-0.0017} _{-0.0033}	0.45	6.50	0.14	5.09	1.92	0.43	KC30.9.013	

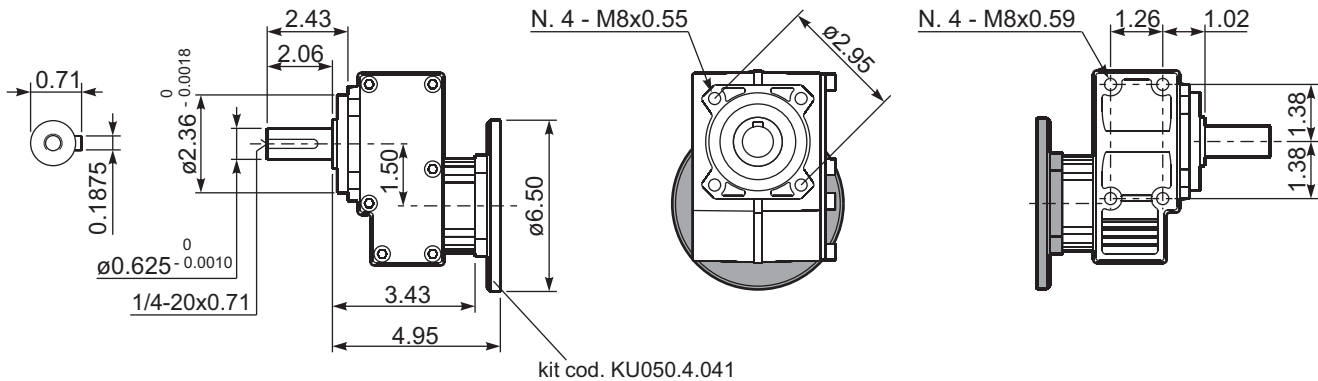
P311-H1... With feet
Con piedini



R311-N... Input Shaft
Albero in entrata



P311-N... Basic gearbox
Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code 	
							-W 56C	-X 143/5TC				
1114	1.57	2	111	1.6	3.19	177			2844	standard ø0.750	01	
616	2.84	2	201	1.5	3.09	310			1954		02	
531	3.29	2	233	1.4	2.89	336			1756		03	
453	3.87	2	273	1.3	2.59	354			1558		04	
379	4.62	2	326	1.3	2.55	416			1360		On request	05
278	6.30	1.5	334	1.2	1.83	407			1063		ø0.625	06
213	8.22	0.75	218	1.5	1.16	336			974		ø0.875	07
161	10.86	0.5	192	1.3	0.65	248			776			08

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

LUBRICATION 411A Oil Quantity 7.04 Ounces

AGIP Telium VSF 320

SHELL Omala S4 WE 320

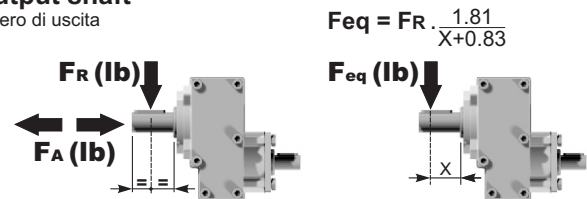
For all details on lubrication and plugs check our website
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

tab. 1

RADIAL AND AXIAL LOADS

Output shaft

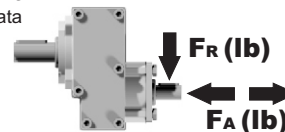
Albero di uscita



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
700	40.9	204.4	400	51.7	258.4	200	65.1	325.8
600	44.9	224.7	300	56.2	280.8	140	71.9	359.5

Input shaft

Albero in entrata

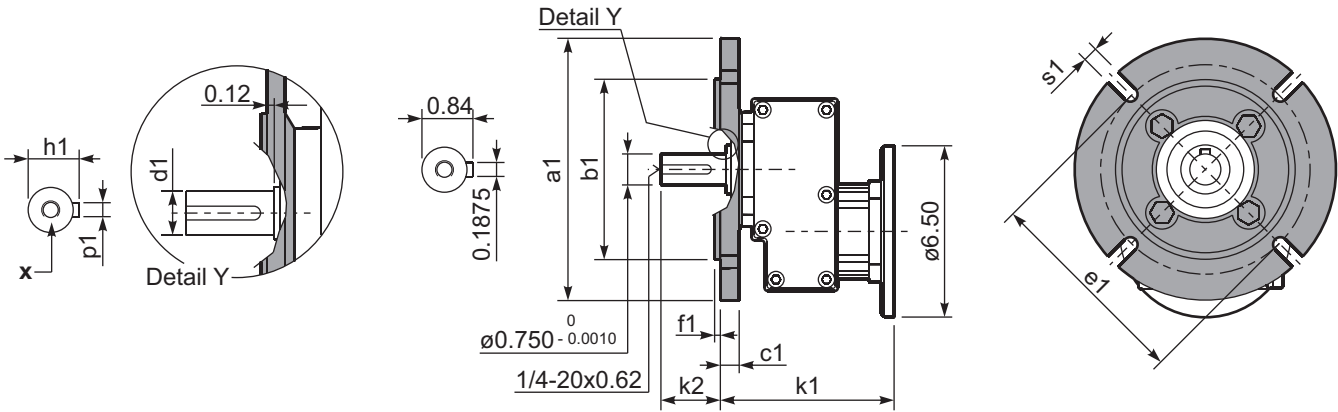


n_1	FA	FR
1750	53.9	269.6
1140	62.9	314.5

tab. 2

P411-F... Output flange
flange di uscita

Gearbox weight
peso riduttore **6.39 lb**
With flange **7.27 lb**



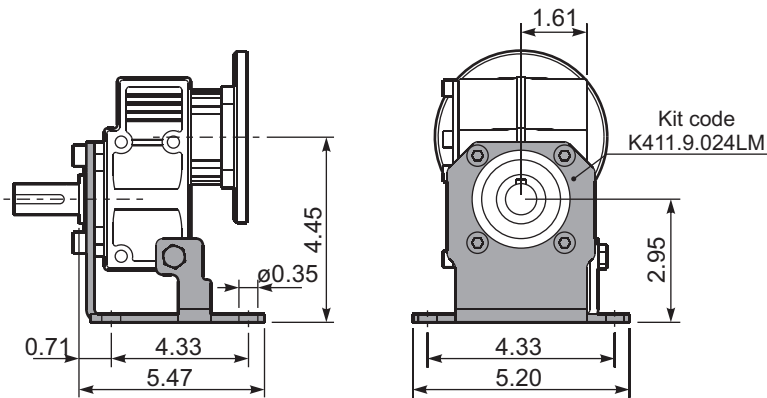
***Available output shaft / Albero di uscita**

	Shaft - d1	p1	h1	x
Standard	ø0.750x2.125	0.187	0.84	1/4-20x0.71
On request A richiesta	ø0.625x2.06	0.187	0.71	1/4-20x0.71
	ø0.875x2.125	0.187	0.96	1/4-20x0.71

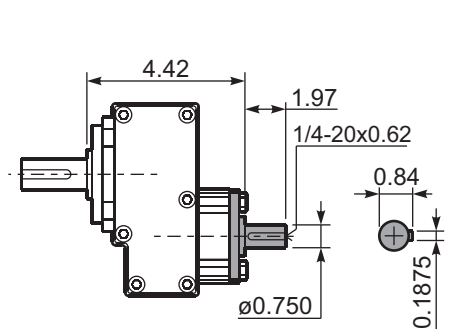
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	k1	k2	s1	kit code	Type
6.50	4.50 ^{-0.0017} _{-0.0033}	0.61	5.87	0.13	5.51	1.89	0.41	KU311.9.012	Nema
5.51	3.74 ^{-0.0014} _{-0.0028}	0.45	4.53	0.12	5.42	1.99	0.35	KC30.9.011	Metric
6.30	4.33 ^{-0.0014} _{-0.0028}	0.45	5.12	0.14	5.42	1.99	0.35	KC30.9.012	
7.87	5.12 ^{-0.0017} _{-0.0033}	0.45	6.50	0.14	5.42	1.99	0.43	KC30.9.013	

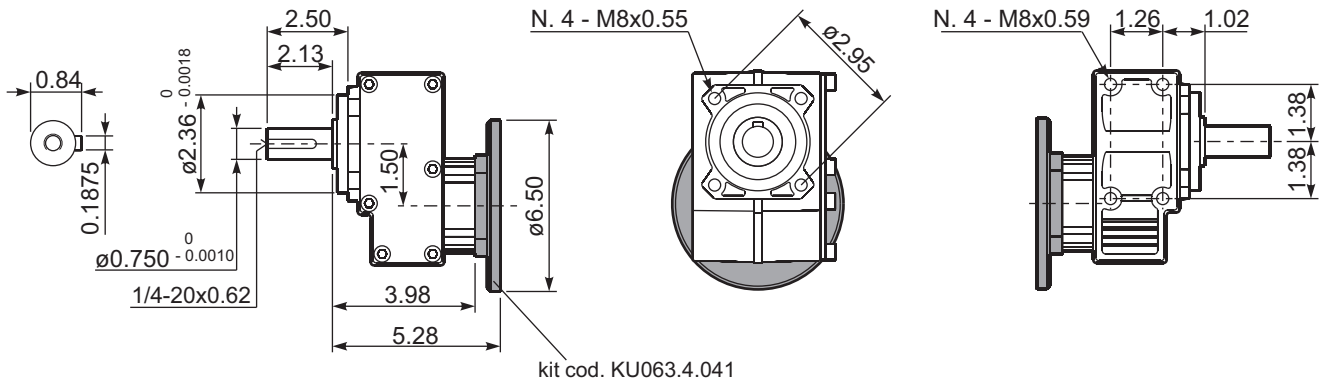
P411-H1... With feet
Con piedini



R411-N... Input Shaft
Albero in entrata



P411-N... Basic gearbox
Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-X 143/5TC	-Y 182/4TC		
1346	1.30	5	229	1.5	7.72	354			standard ø1.125	01
714	2.45	5	432	1.4	7.16	620				02
528	3.31	5	585	1.4	6.81	797				03
406	4.31	3	456	2.1	6.40	974				04
332	5.27	3	558	1.7	5.23	974				05
230	7.63	2	538	1.8	3.62	974				06
167	10.50	1.5	556	1.3	1.91	708				07

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

LUBRICATION 511A Oil Quantity 10.21 Ounces

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

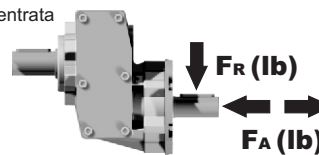
$$F_{eq} = F_R \cdot \frac{1.88}{X+0.90}$$



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
700	66.0	330.3	400	83.1	415.6	200	103.3	516.7
600	71.9	359.5	300	89.9	449.3	140	114.6	572.9

Input shaft

Albero in entrata

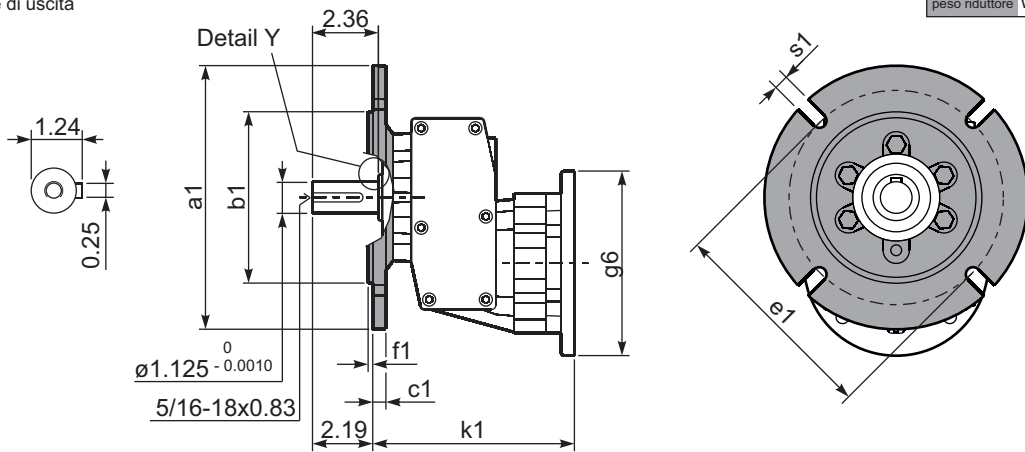


n_1	FA	FR
1750	89.9	449.3
1140	98.8	494.3

tab. 2

P511-F... Output flanges
flange di uscita

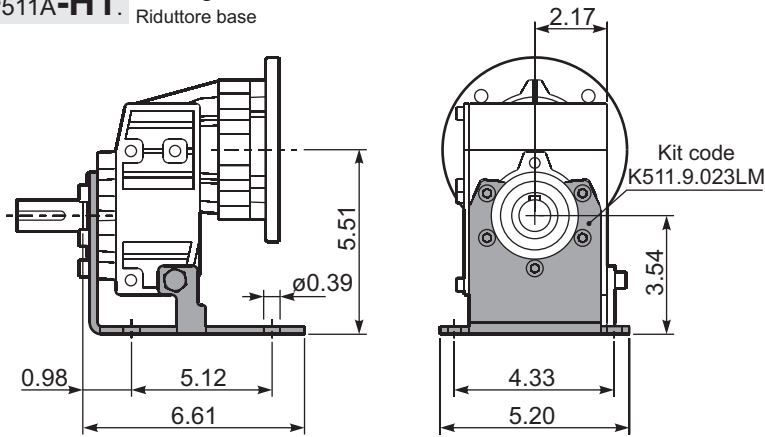
Gearbox weight
peso riduttore Mold base **10.8 lb**
With flange **12.8 lb**



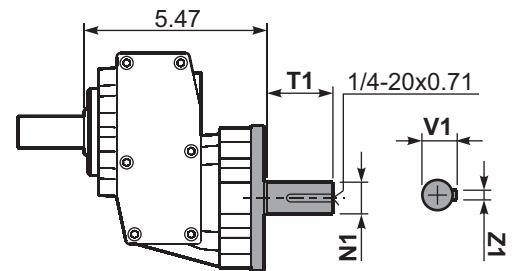
Available output flanges / flange di uscita

a1 ϕ	b1	c1	e1	f1	s1	kit code	Type
6.50	4.50 ^{-0.0017} / _{-0.0033}	0.61	5.87	0.13	0.41	KU511.9.012	Nema
5.51	3.74 ^{-0.0014} / _{-0.0028}	0.39	4.53	0.12	0.35	KC40.9.010	Metric
6.30	4.33 ^{-0.0014} / _{-0.0028}	0.39	5.12	0.14	0.35	KC40.9.011	
7.87	5.12 ^{-0.0014} / _{-0.0028}	0.39	6.50	0.14	0.43	KC40.9.012	
9.84	7.09 ^{-0.0017} / _{-0.0033}	0.45	8.46	0.14	0.55	KC40.9.013	

P511A-H1. Basic gearbox
Riduttore base

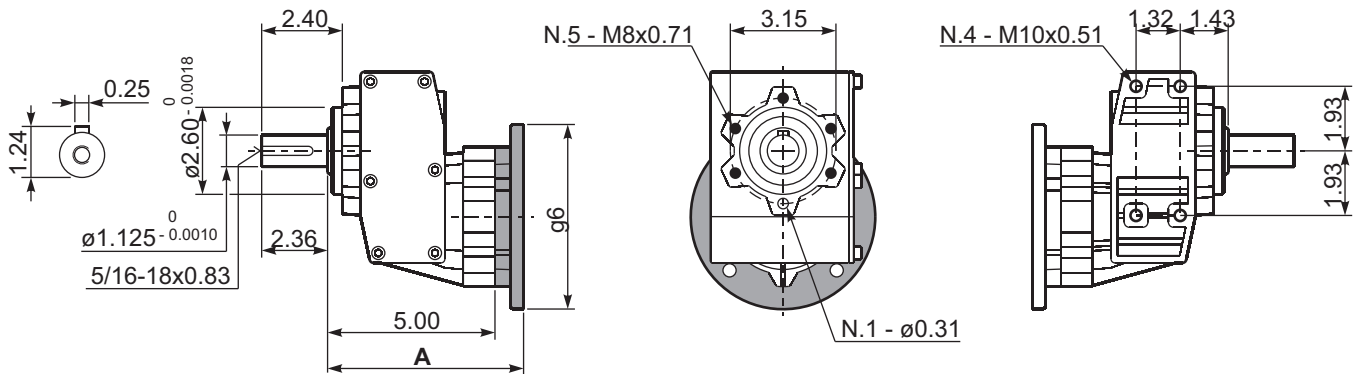


R511A-N... Input Shaft
Albero in entrata



Input shaft	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.250	KC50.5.070U
On request	0.750	1.97	0.84	0.187	KC50.5.069U

P511-N... Basic gearbox
Riduttore base



Nema flange	A	k1	g6	kit code
143/5TC	5.98	6.15	6.50	KUC085.4.041
182/4TC	6.69	6.86	8.88	KUC085.4.042

Aluminum in line gearboxes

A modular and compact product

Alloy housing

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

Flange

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

Removable inspection cover

Allows periodic inspection of gearing during routine maintenance

Oil seals

Two oil seals on request

Output shaft

With well proportioned bearings

Gears

Hardened and ground gears.

Feet

Removable feet. With patented locking system.

Foot prints

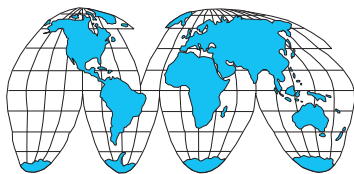
Compatible to the main standard of the market.

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

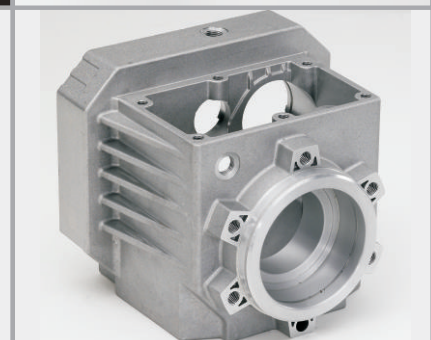
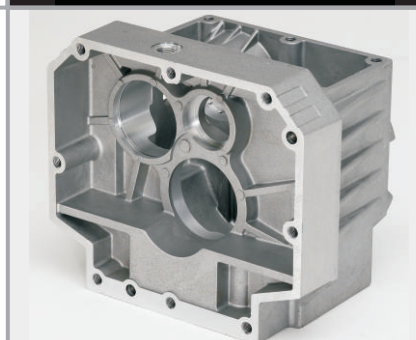
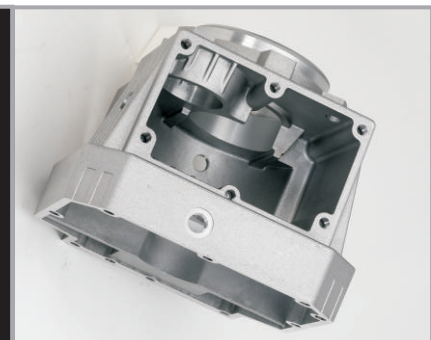
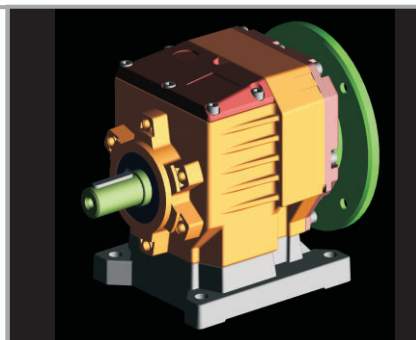


Single-piece aluminum alloy housing

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

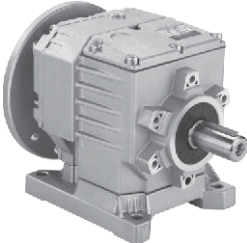


World wide sales network.




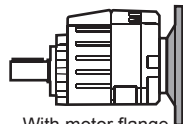
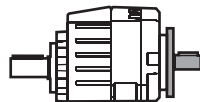
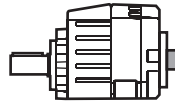

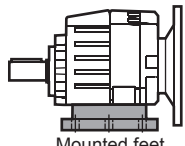
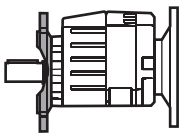
Specific type datasheet on page...

On page / A pagina / En la página

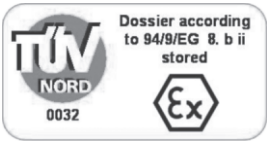


Types / Tipi /
Tipos →

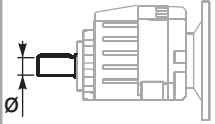
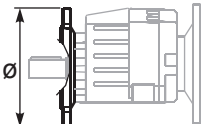



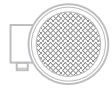



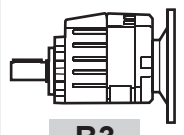
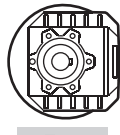
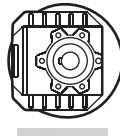
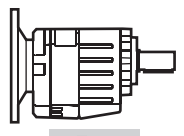
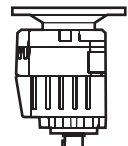
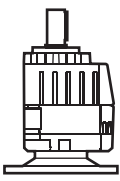
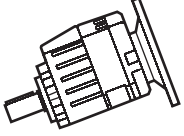
4-5	4-7	4-9	4-11	4-13	4-15	4-17	4-19	4-21
202A 620lb in	302A 1062lb in	402A 1400lb in	403A 1400lb in	452A 2600lb in	502A 3000lb in	503A 3000lb in	602A 4460lb in	603A 4460lb in

Type - Tipo	Size - Grandezza - Tomafío	Mounting - Montaggio Tipo de montaje																																																																
P	402A	-F																																																																
<p>Aluminum coaxial gear boxes Riduttori coassiali in alluminio</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  With IEC motor M </div> <div style="text-align: center;">  With motor flange P </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  With male input shaft R </div> <div style="text-align: center;">  Modular base B </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>2 Stages Riduzioni Etapas</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;"> <p>202A 302A 402A 452A 502A 602A</p> </div> </div> <div style="text-align: center;"> <p>3 Stages Riduzioni Etapas</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;"> <p>403A 503A 603A</p> </div> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  Without flange / feet -N </div> <div style="text-align: center;">  Mounted feet B.. </div> </div> <div style="margin-top: 20px;">  Output flange mounted -F </div> <div style="margin-top: 10px;"> <p>Feet / piedini</p> <table border="1"> <thead> <tr> <th>Feet Code</th> <th>Market reference</th> <th>G</th> <th>H</th> <th>R</th> <th>L</th> <th>L1</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>B1</td> <td>112</td> <td>18</td> <td>85</td> <td>110</td> <td>87</td> <td>50</td> <td></td> </tr> <tr> <td>B2</td> <td>212/3</td> <td>18</td> <td>100</td> <td>130</td> <td>107.5</td> <td></td> <td></td> </tr> <tr> <td>S1</td> <td>17</td> <td>18</td> <td>75</td> <td>110</td> <td>90+20</td> <td></td> <td></td> </tr> <tr> <td>S2</td> <td>27</td> <td>25</td> <td>90</td> <td>110</td> <td>130</td> <td></td> <td></td> </tr> <tr> <td>M1</td> <td>42/3</td> <td>25</td> <td>80</td> <td>110+120</td> <td>85</td> <td></td> <td></td> </tr> <tr> <td>L4</td> <td>04</td> <td>13</td> <td>80</td> <td>105</td> <td></td> <td></td> <td></td> </tr> <tr> <td>L5</td> <td>05</td> <td>16</td> <td>100</td> <td>125</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>You see feet code in the chart of the dimensions Vedi codice piede nella tabella delle dimensioni</p> </div>	Feet Code	Market reference	G	H	R	L	L1	S	B1	112	18	85	110	87	50		B2	212/3	18	100	130	107.5			S1	17	18	75	110	90+20			S2	27	25	90	110	130			M1	42/3	25	80	110+120	85			L4	04	13	80	105				L5	05	16	100	125			
Feet Code	Market reference	G	H	R	L	L1	S																																																											
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L4	04	13	80	105																																																														
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4



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Ratio - Rapporto Relación	Output shaft Albero uscita Eje en salida	Output flange Flangia uscita Brida en salida	Motor size - Grandezza motore Tamaño motor	Terminal box position Posizione morsetti Posición caja de bornes	Mounting position Posizione montaggio Posición de montaje																																																	
7.33	X	U	-W	B	B3																																																	
<p>See technical data table</p> <p>Vedi tabelle dati tecnici</p> <p>Ver tabla datos técnicos</p>	<p>Output shaft diameter Diametro albero uscita</p>  <p>→ STANDARD</p> <table border="1"> <tr><td>202A</td></tr> <tr><td>X → $\varnothing 0.625$</td></tr> <tr><td>O → $\varnothing 0.750$</td></tr> <tr><td>302A</td></tr> <tr><td>O → $\varnothing 0.750$</td></tr> <tr><td>X → $\varnothing 0.625$</td></tr> <tr><td>402A 403A</td></tr> <tr><td>Q → $\varnothing 1.000$</td></tr> <tr><td>O → $\varnothing 0.750$</td></tr> <tr><td>452A 502A 503A</td></tr> <tr><td>T → $\varnothing 1.250$</td></tr> <tr><td>602A 603A</td></tr> <tr><td>Z → $\varnothing 1.375$</td></tr> <tr><td>T → $\varnothing 1.250$</td></tr> </table>	202A	X → $\varnothing 0.625$	O → $\varnothing 0.750$	302A	O → $\varnothing 0.750$	X → $\varnothing 0.625$	402A 403A	Q → $\varnothing 1.000$	O → $\varnothing 0.750$	452A 502A 503A	T → $\varnothing 1.250$	602A 603A	Z → $\varnothing 1.375$	T → $\varnothing 1.250$	<p>Output flange diameter Diametro flangia uscita</p>  <table border="1"> <tr><td>N Senza flangia Without flange 202A 302A</td></tr> <tr><td>U → $\varnothing 6.50$</td></tr> <tr><td>2 → $\varnothing 5.51$</td></tr> <tr><td>3 → $\varnothing 6.30$</td></tr> <tr><td>4 → $\varnothing 7.87$</td></tr> <tr><td>402A 403A</td></tr> <tr><td>U → $\varnothing 6.50$</td></tr> <tr><td>2 → $\varnothing 5.51$</td></tr> <tr><td>3 → $\varnothing 6.30$</td></tr> <tr><td>4 → $\varnothing 7.87$</td></tr> <tr><td>452A 502A 503A 602A 603A</td></tr> <tr><td>U → $\varnothing 6.50$</td></tr> <tr><td>2 → $\varnothing 5.51$</td></tr> <tr><td>3 → $\varnothing 6.30$</td></tr> <tr><td>4 → $\varnothing 7.87$</td></tr> <tr><td>5 → $\varnothing 9.84$</td></tr> </table>	N Senza flangia Without flange 202A 302A	U → $\varnothing 6.50$	2 → $\varnothing 5.51$	3 → $\varnothing 6.30$	4 → $\varnothing 7.87$	402A 403A	U → $\varnothing 6.50$	2 → $\varnothing 5.51$	3 → $\varnothing 6.30$	4 → $\varnothing 7.87$	452A 502A 503A 602A 603A	U → $\varnothing 6.50$	2 → $\varnothing 5.51$	3 → $\varnothing 6.30$	4 → $\varnothing 7.87$	5 → $\varnothing 9.84$	<p>With Flange for type P</p>  <p>-W → 56C -X → 143/5TC -Y → 182/4TC</p> <p>→ STANDARD</p> <p>Without flange Senza flangia</p>  <table border="1"> <tr><td>202A 403A</td></tr> <tr><td>-K → $\varnothing 0.625$</td></tr> <tr><td>302A 402A 503A 603A</td></tr> <tr><td>-K → $\varnothing 0.625$</td></tr> <tr><td>-N → $\varnothing 0.875$</td></tr> <tr><td>452A 502A 602A</td></tr> <tr><td>-K → $\varnothing 0.625$</td></tr> <tr><td>-N → $\varnothing 0.875$</td></tr> <tr><td>-S → $\varnothing 1.125$</td></tr> </table> <p>Type R Tipo R</p>  <table border="1"> <tr><td>202A 403A</td></tr> <tr><td>-K → $\varnothing 0.625$</td></tr> <tr><td>302A</td></tr> <tr><td>-J → $\varnothing 0.750$</td></tr> <tr><td>402A 503A 603A</td></tr> <tr><td>-K → $\varnothing 0.625$</td></tr> <tr><td>-J → $\varnothing 0.750$</td></tr> <tr><td>452A 502A 602A</td></tr> <tr><td>-J → $\varnothing 0.750$</td></tr> <tr><td>-N → $\varnothing 0.875$</td></tr> </table>	202A 403A	-K → $\varnothing 0.625$	302A 402A 503A 603A	-K → $\varnothing 0.625$	-N → $\varnothing 0.875$	452A 502A 602A	-K → $\varnothing 0.625$	-N → $\varnothing 0.875$	-S → $\varnothing 1.125$	202A 403A	-K → $\varnothing 0.625$	302A	-J → $\varnothing 0.750$	402A 503A 603A	-K → $\varnothing 0.625$	-J → $\varnothing 0.750$	452A 502A 602A	-J → $\varnothing 0.750$	-N → $\varnothing 0.875$	<p>Terminal box position</p>  <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p>	<p>Mounting position</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>
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302A																																																						
O → $\varnothing 0.750$																																																						
X → $\varnothing 0.625$																																																						
402A 403A																																																						
Q → $\varnothing 1.000$																																																						
O → $\varnothing 0.750$																																																						
452A 502A 503A																																																						
T → $\varnothing 1.250$																																																						
602A 603A																																																						
Z → $\varnothing 1.375$																																																						
T → $\varnothing 1.250$																																																						
N Senza flangia Without flange 202A 302A																																																						
U → $\varnothing 6.50$																																																						
2 → $\varnothing 5.51$																																																						
3 → $\varnothing 6.30$																																																						
4 → $\varnothing 7.87$																																																						
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4 → $\varnothing 7.87$																																																						
5 → $\varnothing 9.84$																																																						
202A 403A																																																						
-K → $\varnothing 0.625$																																																						
302A 402A 503A 603A																																																						
-K → $\varnothing 0.625$																																																						
-N → $\varnothing 0.875$																																																						
452A 502A 602A																																																						
-K → $\varnothing 0.625$																																																						
-N → $\varnothing 0.875$																																																						
-S → $\varnothing 1.125$																																																						
202A 403A																																																						
-K → $\varnothing 0.625$																																																						
302A																																																						
-J → $\varnothing 0.750$																																																						
402A 503A 603A																																																						
-K → $\varnothing 0.625$																																																						
-J → $\varnothing 0.750$																																																						
452A 502A 602A																																																						
-J → $\varnothing 0.750$																																																						
-N → $\varnothing 0.875$																																																						

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

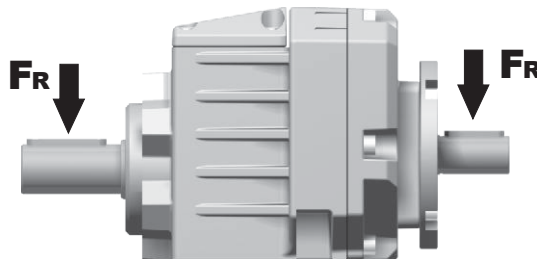
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / CARGA RADIAL Y AXIAL

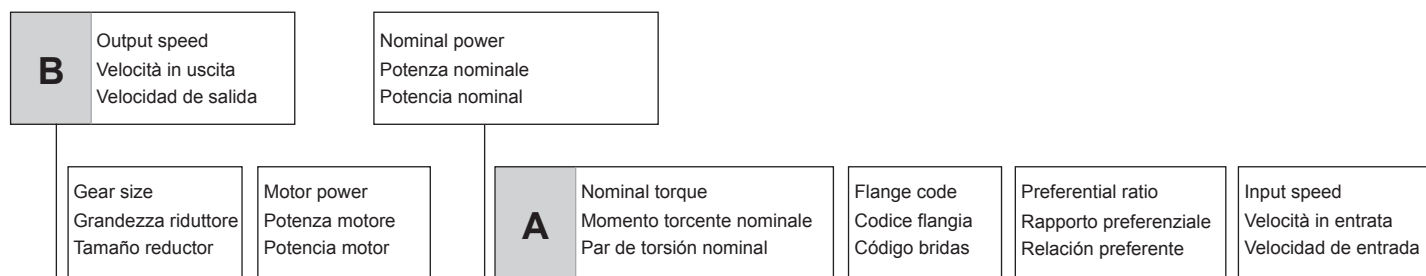
- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



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



402A

Coaxial - Gear 1400lb in

Rating - Alluminum COAXIAL GEAR BOXES

QUICK SELECTION / Selezione veloce input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
497.6	3.52	2	243	2.8	5.65	687	B	143/5 TC	2821	-
400.9	4.37	2	302	5.6	5.12	773	B	143/5 TC	2818	-
314.7	5.56	2	385	2.2	4.47	859	B	143/5 TC	2813	-
275.1	6.36	2	410	1.9	3.72	816	B	143/5 TC	1921	-
238.6	7.33	2	507	2.0	4.06	1030	B	143/5 TC	2812	-



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
Bridas disponibles

B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción	
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor	
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile tambien sin casquillo	

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	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	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)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W	-		
							56C	-		
508	3.44	1	119	1.9	1.86	221			2821	01
409	4.28	1	148	1.8	1.80	266			2818	02
321	5.45	1	188	1.9	1.88	354			2815	03
281	6.23	1	215	1.9	1.85	398			1921	04
243	7.20	1	249	1.8	1.78	443			2812	05
226	7.74	1	268	1.7	1.65	443			1918	06
178	9.85	1	341	1.6	1.56	531			1915	07
153	11.42	1	395	1.3	1.34	531			1715	08
134	13.03	0.75	338	1.6	1.18	531			1912	09
116	15.10	0.75	392	1.4	1.02	531			1712	10
108	16.20	0.75	420	1.3	0.95	531			1910	11
93	18.78	0.75	487	1.1	0.82	531			1710	12
83	21.15	0.75	549	1.0	0.73	531			1312	13
80	21.84	0.5	378	1.4	0.70	531			1015	14
67	26.31	0.5	455	1.2	0.58	531			1310	15
61	28.88	0.5	499	1.2	0.62	620			1012	16
48.7	35.91	0.5	621	1.0	0.50	620			1010	17
46.4	37.69	0.33	430	1.4	0.48	620			912	18
37.3	46.87	0.33	535	1.2	0.38	620			910	19
35.2	49.76	0.33	568	1.1	0.36	620			712	20
28.3	61.89	0.25	535	1.2	0.29	620			710	21

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

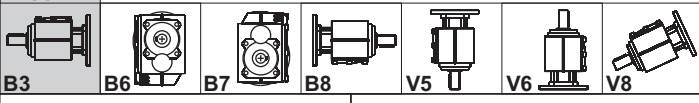
- A) Motor Flanges Available** Flange Motore Disponibili
- B) Supplied with Reduction Bushing** Fornito con Bussola di Riduzione
- B) Available on Request without reduction bushing** Disponibile a Richiesta senza Bussola di Riduzione
- C) Motor Flange Holes Position** Posizione Fori Flangia Motore

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

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

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

Standard supplied Oil capacities for all mounting positions is **5.29 Ounces**



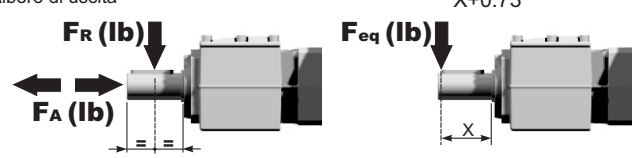
AGIP Telium VSF 320 **SHELL** Omala S4 WE 320

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

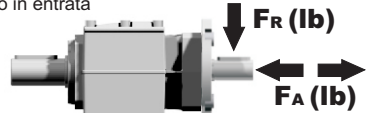
Output shaft Albero di uscita

$F_{eq} = F_R \cdot \frac{1.52}{X+0.73}$



n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	31.4	157.3	140	55.3	296.6	70	76.4	381.9
250	33.9	169.8	120	60.7	303.3	40	85.4	426.9
200	41.6	207.6	85	67.4	337.0	15	-	-

Input shaft Albero in entrata



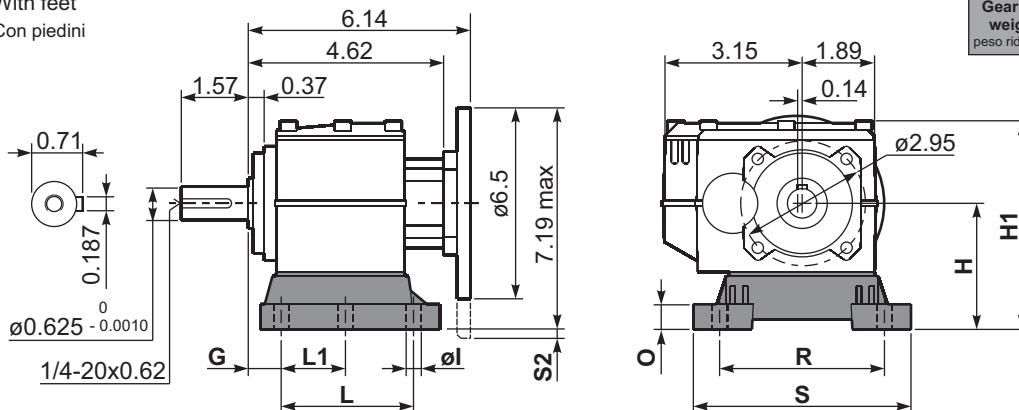
n ₁	FA	FR
1750	31.5	157.4
1140	36.0	179.8

tab. 2

P202A-B1...

With feet
Con piedini

Gearbox weight
peso riduttore With flange **7.27 lb**
With feet **7.05 lb**



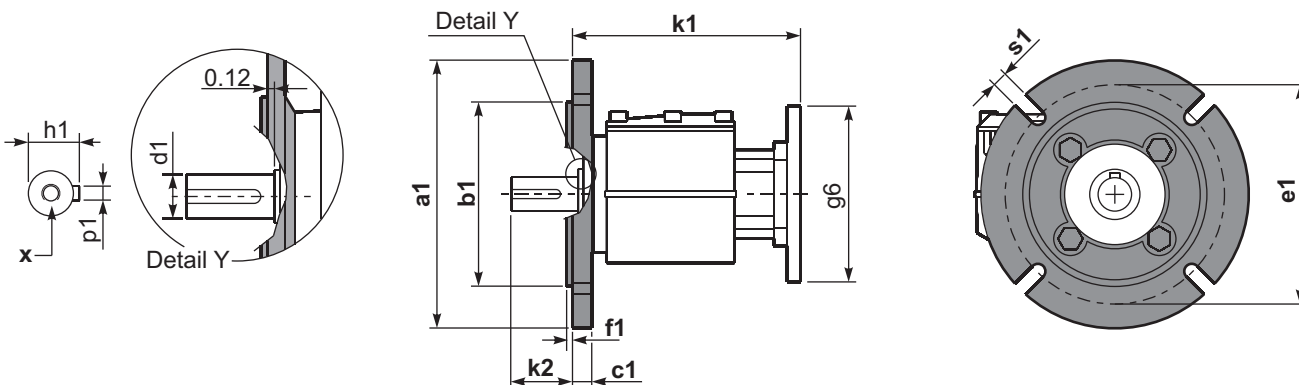
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	ø1	S2 only with motor flange
B1	112	0.71	3.35	4.33	3.43	1.97	5.24	4.92	0.59	0.35	-
B2	212/3	0.71	3.94	5.12	4.23	2.36	6.10	5.71	0.20	0.43	-
S1	17-32	0.71	2.95	4.33	4.33	1.97	4.84	4.55	0.59	0.35	0.30
L3	03	0.49	2.56	3.58	2.36	-	4.13	5.87	0.20	0.35	0.69
L4	04	0.51	3.15	4.13	2.99	-	5.20	6.50	0.20	0.35	0.10

Other feet are available, see www.hydromec.com
Sono disponibili altri piedini in www.hydromec.com

Most popular types
Tipi più diffusi

P202A-F...


Output flanges
flange di uscita



*Available output shaft / Albero di uscita

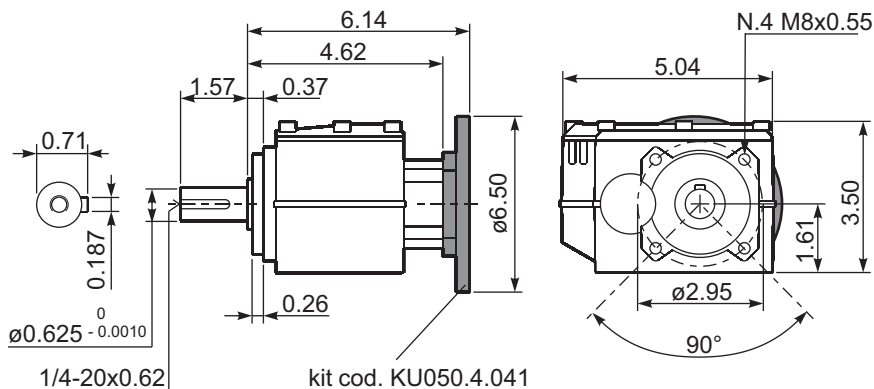
	Shaft - d1	p1	h1	x
Standard	ø0.625x1.57	0.187	0.71	1/4-20x0.71
On request A richiesta	ø0.750x1.57	0.187	0.84	1/4-20x0.71

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	k1	k2	s1	kit code	Type	 With flange and feet only on request. Ask for compatibility
6.50	4.50 ^{-0.0017} _{-0.0033}	0.39	5.87	0.13	6.38	1.33	0.41	KU311.9.012	Nema	
5.51	3.74 ^{-0.0014} _{-0.0028}	0.45	4.53	0.12	6.28	1.44	0.35	KC30.9.011	Metric	
6.30	4.33 ^{-0.0014} _{-0.0028}	0.45	5.12	0.14	6.28	1.44	0.35	KC30.9.012		
7.87	5.12 ^{-0.0017} _{-0.0033}	0.45	6.50	0.14	6.28	1.44	0.43	KC30.9.013		

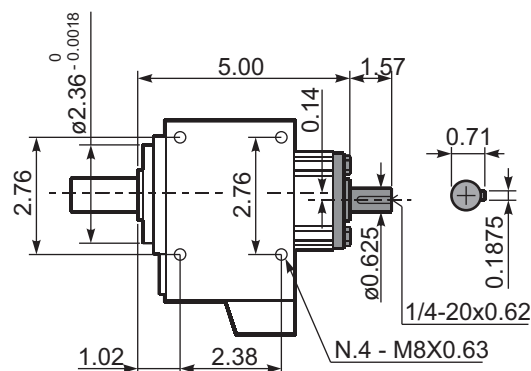
P202A-N...

Basic gearbox
Riduttore base



R202A-N...

Input Shaft
Albero in entrata





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
508	3.44	2	238	1.2	2.47	294			2821	01
409	4.28	2	296	1.1	2.27	336			2818	02
321	5.45	2	377	1.2	2.32	437			2815	03
281	6.23	2	431	1.4	2.73	589			1921	04
243	7.20	2	498	1.2	2.36	589			2812	05
226	7.74	2	535	1.3	2.51	673			1918	06
178	9.85	2	681	1.2	2.34	799			1915	07
153	11.42	2	790	1.2	2.45	967			1715	08
134	13.03	1.5	676	1.4	2.13	959			1912	09
116	15.10	1.5	783	1.2	1.84	959			1712	10
108	16.20	1	560	1.6	1.61	900			1910	11
93	18.78	1	649	1.4	1.39	900			1710	12
83	21.15	1	731	1.3	1.31	959			1312	13
80	21.84	1	755	1.3	1.33	1001			1015	14
67	26.31	0.75	682	1.3	0.99	900			1310	15
61	28.88	0.75	749	1.3	0.96	959			1012	16
48.7	35.91	0.5	621	1.4	0.72	900			1010	17
46.4	37.69	0.5	652	1.3	0.66	858			912	18
37.3	46.87	0.5	810	1.1	0.56	900			910	19
35.2	49.76	0.33	568	1.5	0.49	849			712	20
28.3	61.89	0.33	706	1.3	0.42	900			710	21

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

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

D) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

Standard supplied	Oil capacities for all mounting positions is 5.29 Ounces
AGIP Telium VSF 320 SHELL Omala S4 WE 320	

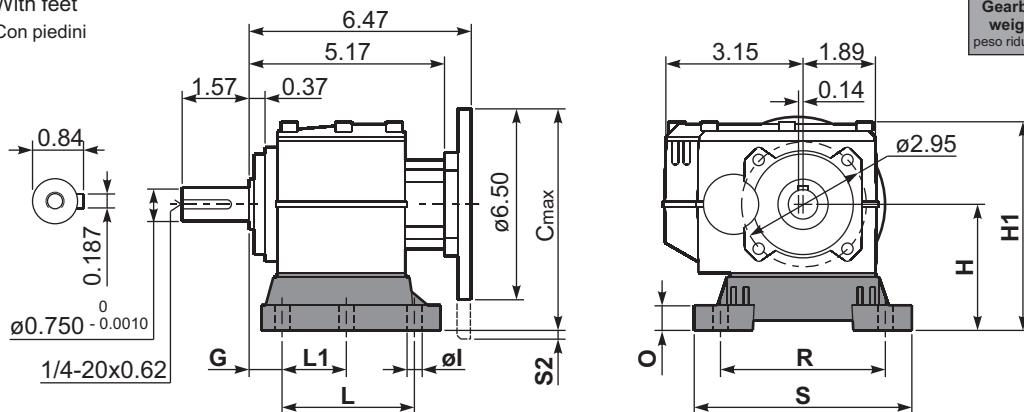
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = FR \cdot \frac{1.52}{X+0.73}$					
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	31.4	157.3	140	55.3	296.6	70	76.4	381.9
250	33.9	169.8	120	60.7	303.3	40	85.4	426.9
200	41.6	207.6	85	67.4	337.0	15	-	-
Input shaft Albero in entrata								
n_1	FA	FR						
1750	31.5	157.4						
1140	36.0	179.8						

tab. 2

P302A**B1**... With feet
Con piedini

Gearbox weight
peso riduttore With flange **8.37 lb**
With feet **8.37 lb**

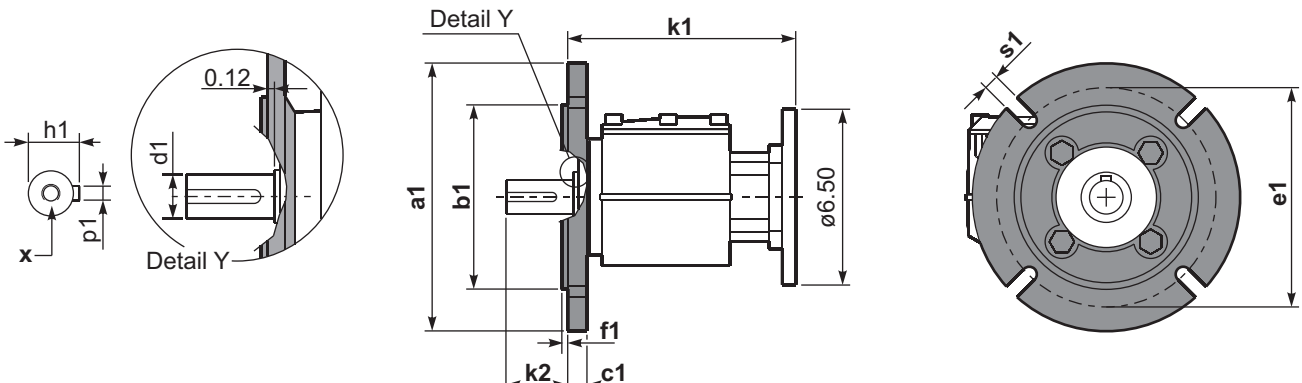


Feet Code	Market reference	G	H	R	L	L1	S	H1	O	ø1	S2 only with motor flange
B1	112	0.71	3.35	4.33	3.42	1.97	5.12	5.24	0.59	0.35	-
B2	212/3	0.71	3.94	5.12	4.23	2.36	6.10	5.71	0.20	0.43	-
S1	17-32	0.71	2.95	4.33	4.33	1.97	5.12	4.84	0.59	0.35	0.3
S2	27	0.98	3.54	4.33	5.12	-	5.12	-	0.20	0.35	-
L3	03	0.49	2.56	3.58	2.36	-	4.13	5.87	0.20	0.35	0.7
L4	04	0.51	3.15	4.13	2.99	-	5.20	6.50	0.20	0.35	0.1

Other feet are available, see www.hydromec.com
Sono disponibili altri piedini in www.hydromec.com

Most popular types
Tipi più diffusi

P302A-**F**... Output flanges
flange di uscita



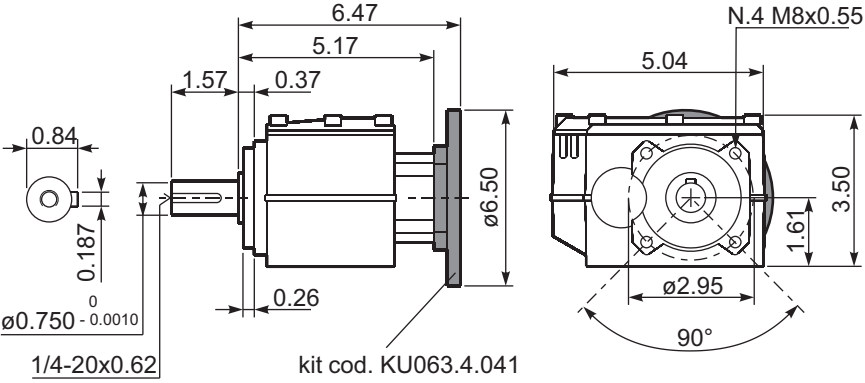
*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø0.750x1.57	0.187	0.84	1/4-20x0.71
On request A richiesta	ø0.625x1.57	0.187	0.71	1/4-20x0.71

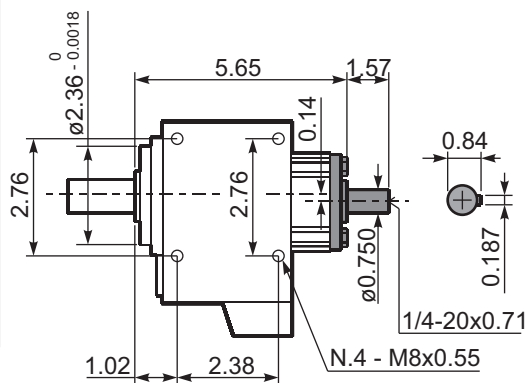
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	k1	k2	s1	kit code	Type	
6.50	4.50 ^{-0.0017} _{-0.0033}	0.39	5.87	0.13	6.70	1.33	0.41	KU311.9.012	Nema	With flange and feet only on request. Ask for compatibility
5.51	3.74 ^{-0.0014} _{-0.0028}	0.45	4.53	0.12	6.60	1.44	0.35	KC30.9.011	Metric	
6.30	4.33 ^{-0.0014} _{-0.0028}	0.45	5.12	0.14	6.60	1.44	0.35	KC30.9.012		
7.87	5.12 ^{-0.0017} _{-0.0033}	0.45	6.50	0.14	6.60	1.44	0.43	KC30.9.013		

P302A-**N**... Basic gearbox
Riduttore base



R302A-**N**... Input Shaft
Albero in entrata





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft		
							-W	-X			
							56C	143/5 TC		\varnothing	Ratios code
498	3.52	2	243	2.8	5.65	687			2821		01
401	4.37	2	302	2.6	5.12	773			2818		02
315	5.56	2	385	2.2	4.47	859			2813		03
275	6.36	2	440	1.9	3.71	816			1921		04
239	7.33	2	507	2.0	4.06	1030			2812		05
222	7.89	2	546	1.9	3.77	1030			1918		06
174	10.06	2	695	1.9	3.70	1288			1913		08
150	11.66	2	806	1.9	3.71	1494			1713		09
132	13.26	2	917	1.5	3.00	1374			1912	standard	10
128	13.68	2	946	1.3	2.61	1236			1513	$\varnothing 1.00$	25
114	15.37	2	1063	1.3	2.58	1374			1712		11
108	16.20	2	1120	1.1	2.12	1185			1910	On request	12
97	18.04	2	1248	1.1	2.20	1374			1512	$\varnothing 0.750$	23
93	18.78	1.5	974	1.2	1.82	1185			1710		24
81	21.54	1.5	1117	1.2	1.84	1374			1312		14
79	22.29	1.5	1156	1.2	1.86	1434			1013		15
67	26.31	1	910	1.3	1.30	1185			1310		16
60	29.40	1	1017	1.4	1.35	1374			1012		17
48.7	35.91	0.75	931	1.3	0.95	1185			1010		18
45.6	38.37	0.75	995	1.4	1.04	1374			912		19
37.3	46.87	0.75	1215	1.0	0.73	1185			910		20
34.5	50.67	0.5	876	1.3	0.65	1133			712		21
28.3	61.89	0.5	1070	1.1	0.55	1185			710		22

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

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
8.82 oz	10.58 oz	14.11 oz	14.11 oz	14.11 oz	17.64 oz	14.11 oz
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

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

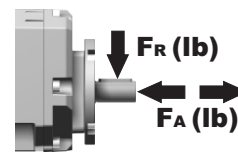
RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	69.6	348.2	140	91.2	456.1	70	121.3	606.6
250	74.1	370.7	120	100.6	503.3	40	134.8	674.0
200	80.9	404.4	85	107.8	539.2	15	134.8	674.0

Input shaft
Albero di entrata

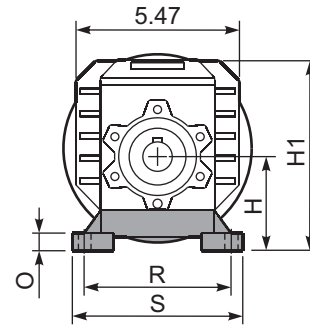
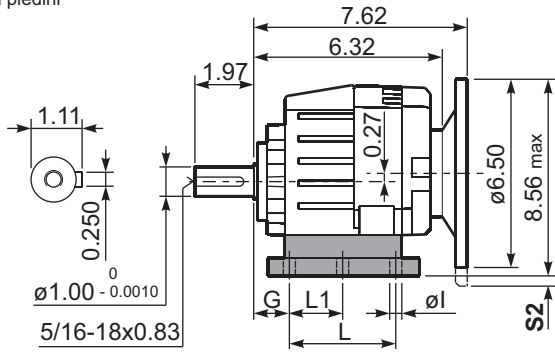


n_1	FA	FR
1750	53.9	269.8
1140	62.9	314.7

tab. 2

P402A-B1... With feet
Con piedini

Gearbox weight
peso riduttore With flange **13.11lb**
With feet **14.10lb**



Feet / piedini

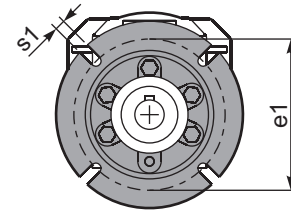
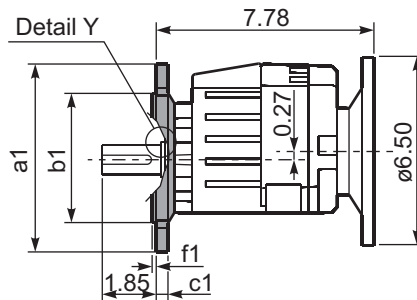
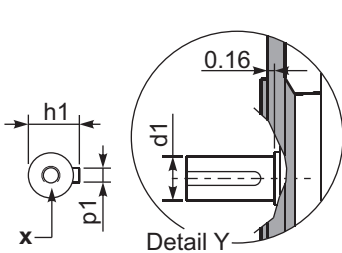
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange
B1	112	0.71	3.35	4.33	3.43	1.97	5.12	6.57	0.59	-	-
B2	212/3	0.71	3.94	5.12	4.23	2.36	6.10	7.17	0.67	0.43	-
S1	17	0.71	2.95	4.33	4.33	1.97	5.71	6.10	0.59	0.35	0.03
S2	27	0.98	3.54	4.33	5.12	-	5.71	6.77	0.79	0.35	-
M1	42/3	0.98	3.15	4.53	3.35	-	5.71	6.38	0.59	0.35	-
L4	04	0.51	3.15	4.13	2.99	-	5.20	6.38	0.20	0.39	-
L5	05	0.63	3.94	4.92	3.54	-	5.91	7.17	0.24	0.47	-

Other feet are available, see www.hydromec.com

Sono disponibili altri piedini in www.hydromec.com

Most popular types
Tipi più diffusi

P402A-F... Output flanges
flange di uscita



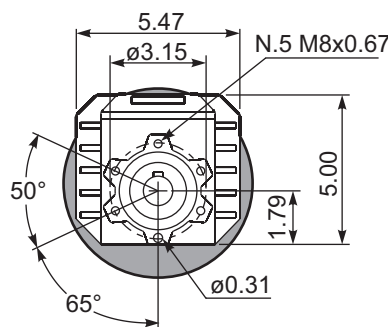
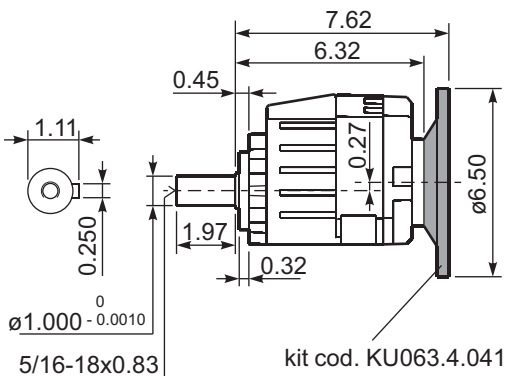
*Available output shaft / Alberi di uscita

	Shaft - d1	p1	h1	x
Standard	ø1.00x1.97	0.250	1.11	5/16-18x0.83
On request A richiesta	ø0.750x1.57	0.187	0.84	1/4-20x0.71

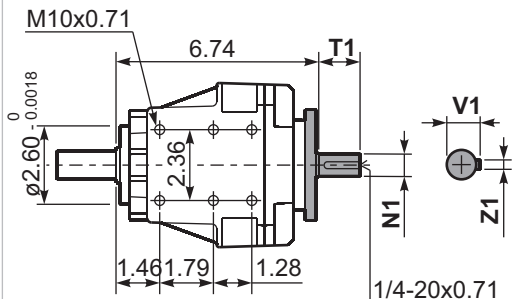
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code	Type
6.50	4.50 ^{-0.0017} _{-0.0033}	0.61	5.87	0.13	0.41	KU511.9.012	Nema
5.51	3.74 ^{-0.0014} _{-0.0028}	0.39	4.53	0.12	0.35	KC40.9.011	Metric With flange and feet only on request. Ask for compatibility
6.30	4.33 ^{-0.0014} _{-0.0028}	0.39	5.12	0.14	0.35	KC40.9.012	
7.87	5.12 ^{-0.0014} _{-0.0028}	0.43	6.50	0.14	0.43	KC40.9.013	
9.84	7.09 ^{-0.0017} _{-0.0033}	0.45	8.46	0.14	0.55	KC40.9.014	

P402A-N... Basic gearbox
Riduttore base



R402A-N... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.84	0.187	KC40.5.070U
On request	0.625	1.57	0.71	0.187	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft \varnothing	
							-W	-				
							56C	-				Ratios code
45.6	38.40	0.75	975	1.5	1.16	1502						02
40.1	43.69	0.75	1109	1.2	0.86	1279						03
34.6	50.64	0.75	1286	1.1	0.80	1374						04
32.8	53.36	0.5	903	1.3	0.66	1185						05
28.6	61.21	0.5	1036	1.3	0.66	1374						06
28.3	61.85	0.5	1047	1.1	0.57	1185						07
24.7	70.95	0.5	1201	1.1	0.57	1374						08
23.8	73.43	0.5	1243	1.2	0.60	1502						09
23.4	74.77	0.33	835	1.4	0.47	1185						10
20.2	86.66	0.33	968	1.2	0.40	1185						11
18.1	96.85	0.33	1082	1.3	0.42	1374						12
17.0	102.89	0.33	1150	1.3	0.44	1545						13
13.8	126.40	0.33	1412	1.0	0.32	1374						17
12.9	135.69	0.25	1149	1.2	0.30	1374						15
10.6	165.74	0.25	1403	0.8	0.21	1185						16
9.9	177.09	0.25	1499	0.9	0.23	1374						18
8.1	216.31	0.25	1831	0.6	0.16	1185						19

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

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
10.58 oz	12.35 oz	15.87 oz	15.87 oz	15.87 oz	19.40 oz	15.87 oz
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

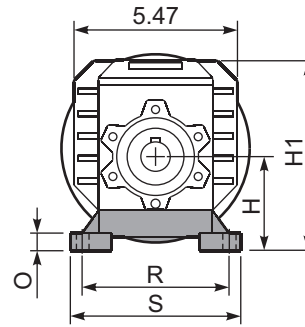
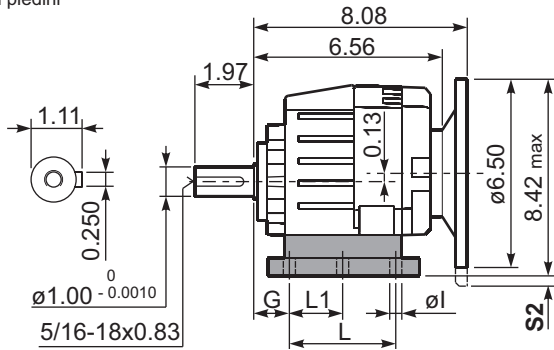
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS								
Output shaft Albero di uscita			$F_{eq} = F_R \cdot \frac{1.81}{X+0.83}$					
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	69.6	348.2	140	91.2	456.1	70	121.3	606.6
250	74.1	370.7	120	100.6	503.3	40	134.8	674.0
200	80.9	404.4	85	107.8	539.2	15	134.8	674.0
Input shaft Albero in entrata								
n_1	FA	FR						
1750	31.5	157.4						
1140	36.0	179.8						

tab. 2

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

Gearbox weight
peso riduttore With flange **14.65lb**
With feet **15.42lb**



Feet / piedini

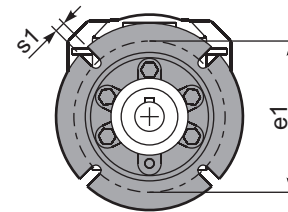
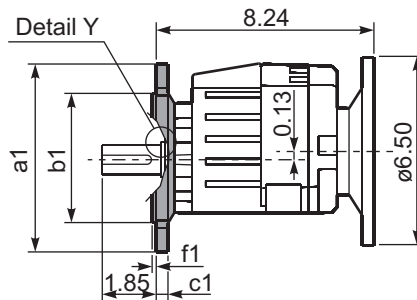
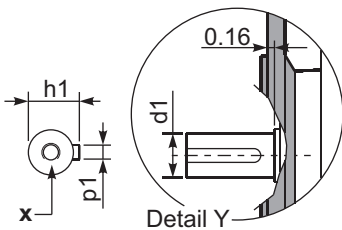
Feet Code	Market reference	G	H	R	L	L1	S	H1	O	øl	S2 only with motor flange
B1	112	0.71	3.35	4.33	3.43	1.97	5.12	6.57	0.59	-	-
B2	212/3	0.71	3.94	5.12	4.23	2.36	6.10	7.17	0.67	0.43	-
S1	17	0.71	2.95	4.33	4.33	1.97	5.71	6.10	0.59	0.35	0.03
S2	27	0.98	3.54	4.33	5.12	-	5.71	6.77	0.79	0.35	-
M1	42/3	0.98	3.15	4.53	3.35	-	5.71	6.38	0.59	0.35	-
L4	04	0.51	3.15	4.13	2.99	-	5.20	6.38	0.20	0.39	-
L5	05	0.63	3.94	4.92	3.54	-	5.91	7.17	0.24	0.47	-

Other feet are available, see www.hydromec.com

Sono disponibili altri piedini in www.hydromec.com

Most popular types
Tipi più diffusi

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



*Available output shaft / Alberi di uscita

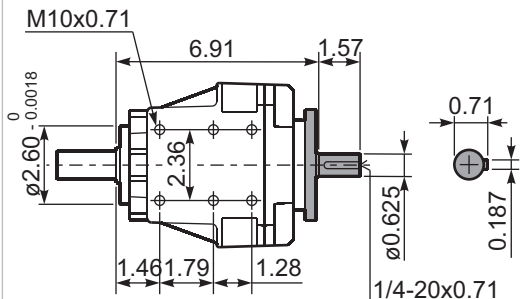
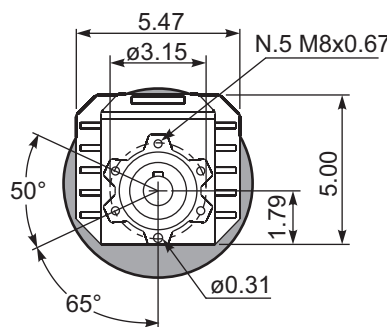
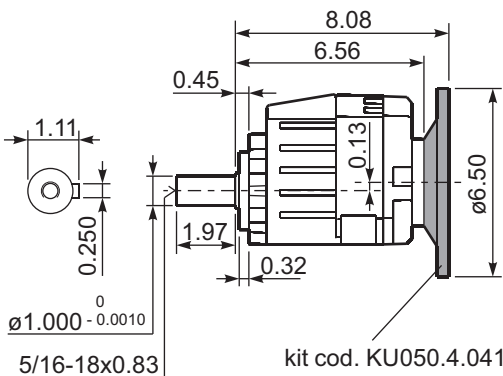
	Shaft - d1	p1	h1	x
Standard	ø1.00x1.97	0.250	1.11	5/16-18x0.83
On request A richiesta	ø0.750x1.57	0.187	0.84	1/4-20x0.71

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code	Type
6.50	4.50 ^{-0.0017} _{-0.0033}	0.61	5.87	0.13	0.41	KU511.9.012	Nema
5.51	3.74 ^{-0.0014} _{-0.0028}	0.39	4.53	0.12	0.35	KC40.9.011	Metric With flange and feet only on request. Ask for compatibility
6.30	4.33 ^{-0.0014} _{-0.0028}	0.39	5.12	0.14	0.35	KC40.9.012	
7.87	5.12 ^{-0.0014} _{-0.0028}	0.43	6.50	0.14	0.43	KC40.9.013	
9.84	7.09 ^{-0.0017} _{-0.0033}	0.45	8.46	0.14	0.55	KC40.9.014	

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

R403A **N** ... Input Shaft
Albero in entrata





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W	-X	-Y		
							56C	143/5TC	182/4TC		
485	3.61	5	624	2.1	10.31	1288				3018	01
414	4.23	5	730	2.0	9.99	1459				3016	02
349	5.01	5	867	2.0	9.90	1717				3014	03
288	6.07	5	1049	2.0	10.23	2146				3012	04
257	6.81	5	1177	2.0	10.11	2378				2018	05
220	7.96	5	1377	1.9	9.35	2576				2016	06
185	9.45	5	1634	1.6	7.99	2610				2014	07
153	11.43	5	1977	1.3	6.52	2576				2012	08
123	14.21	3	1474	1.5	4.63	2275				2010	09
105	16.62	3	1724	1.5	4.54	2610				1314	10
87	20.10	3	2085	1.2	3.71	2576				1312	11
70	24.98	2	1728	1.3	2.63	2275				1310	12
60	29.41	2	2034	1.3	2.57	2610				814	13
49.2	35.58	2	2461	1.0	2.09	2576				812	14
43.2	40.50	1.5	2101	1.2	1.78	2490				614	15
39.6	44.23	1.5	2294	1.0	1.49	2275				810	16
35.7	49.00	1	1694	1.5	1.52	2576				612	17
28.7	60.90	1	2106	1.1	1.08	2275				610	18

The dynamic efficiency is 0.96 for all ratios

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

E El reductor tamaño 452A se suministra, lubricado de por vida con aceites sintéticos 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	Oil capacities for all mounting positions is 10.93 Ounces					
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

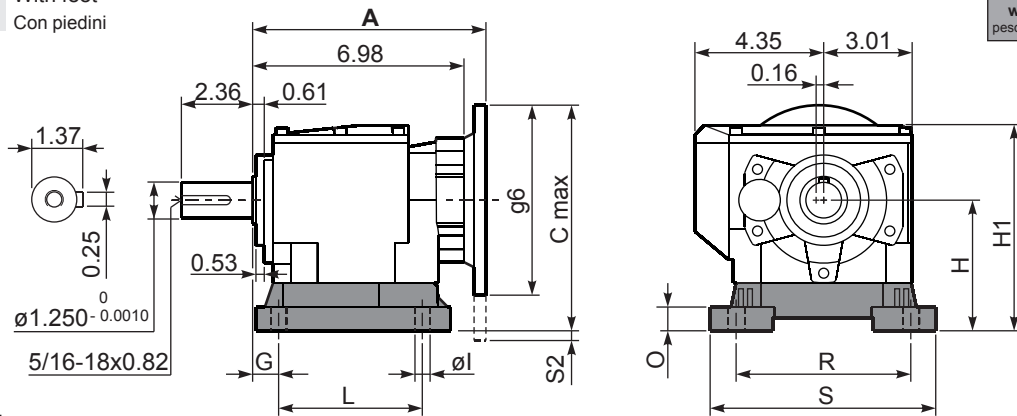
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS								
Output shaft / Albero di uscita								
						$Feq = FR \cdot \frac{2.01}{X+0.83}$		
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	93.2	465.1	140	121.3	606.7	70	157.3	788.6
250	96.6	485.3	120	125.8	626.8	40	181.9	909.9
200	105.6	525.7	85	141.5	707.7	15	202.2	1011
Input shaft / Albero in entrata								
n_1	FA	FR						
1400	89.9	449.6						
1140	98.9	494.6						

tab. 2

P452A-B1... With feet
Con piedini

Gearbox weight
peso riduttore With flange **19.16lb**
With feet **19.71lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange
B3	312/3	0.71	4.33	6.30	5.12	7.48	6.81	0.79	0.43	0.11 182/4TC
B4	30/35	0.79	5.12	7.09	5.89	8.50	7.60	0.71	0.55	-
S4	47-57	1.18	4.53	5.31	6.50	6.69	7.01	0.94	0.53	-
H3	023-233	1.18	5.12	5.31	5.31	7.28	7.60	0.98	0.55	-
M2	52/3	1.18	4.33	5.31-5.91	3.94	7.48	6.81	0.71	0.43	-
L6	06	0.75	4.92	6.30	4.17	8.07	7.40	0.31	0.55	-
E2	2202/3	0.51	3.94	5.31	7.56	6.46	6.42	0.24	0.55	0.50 182/4TC
P4	142	1.38	5.59	5.12	5.71	6.30	8.07	0.31	0.55	-

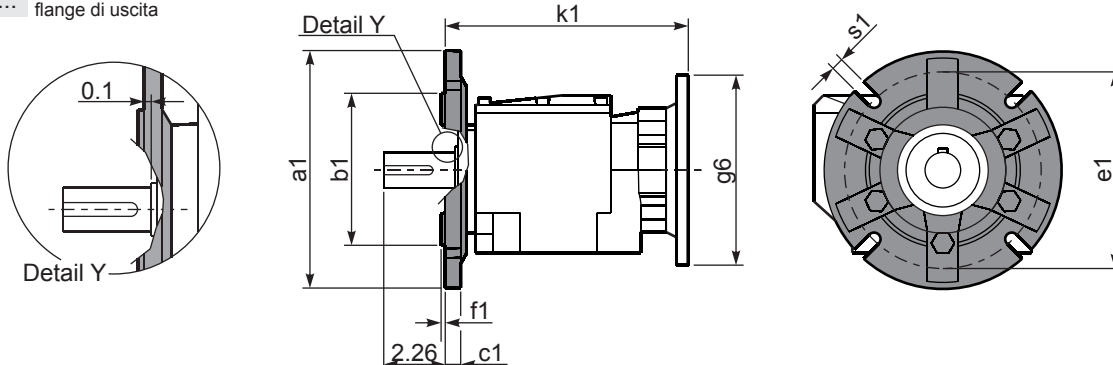
Other feet are available, see www.hydropmec.com

Sono disponibili altri piedini in www.hydropmec.com

Dimension (A) see on page bottom

Most popular types
Tipi più diffusi

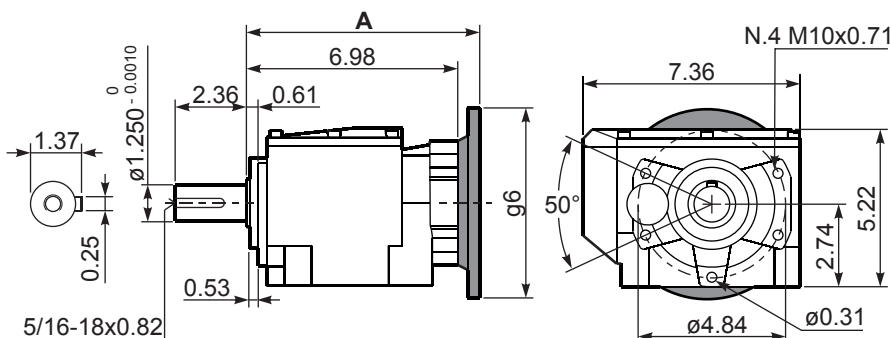
P452A-F... Output flanges
flange di uscita



Available output flanges / flange di uscita

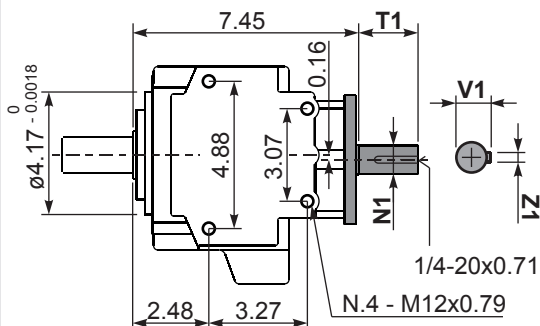
a1 ø	b1	c1	e1	f1	s1	kit code	Type	Nema flanges	k1	g6	kit code
7.87	5.12 ^{-0.0017} _{-0.0033}	0.43	6.50	0.18	0.43	KC50.9.012	Metric	56C-143/5TC	8.06	6.50	KU085.4.041
9.87	9.84 ^{-0.0017} _{-0.0033}	0.61	8.46	0.16	0.55	KC50.9.013		182/4TC	8.76	8.88	KU085.4.042

P452A-N... Basic gearbox
Riduttore base



Nema flanges	A	g6	kit code
56C-143/5TC	7.96	6.50	KU085.4.041
182/4TC	8.67	8.88	KU085.4.042

R452A-N... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.187	KC50.5.070U
On request	0.750	1.97	0.84	0.187	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W	-X	-Y		
							56C	143/5TC	182/4TC		
485	3.61	5	624	2.1	10.31	1.288				3018	01
414	4.23	5	730	2.0	9.99	1.459				3016	02
349	5.01	5	867	2.0	9.90	1.717				3014	03
288	6.07	5	1049	2.0	10.23	2.146				3012	04
257	6.81	5	1177	2.2	10.95	2.576				2018	05
220	7.96	5	1377	2.1	10.29	2.833				2016	07
185	9.45	5	1634	1.9	9.30	3.039				2014	08
153	11.43	5	1977	1.4	7.08	2.799				2012	09
123	14.21	3	1474	1.5	4.37	2.146				2010	10
105	16.62	3	1724	1.8	5.29	3.039				1314	11
87	20.10	3	2085	1.3	4.03	2.799				1312	12
71	24.61	3	2552	1.1	3.29	2.799				1112	20
70	24.98	2	1728	1.2	2.48	2.146				1310	13
60	29.41	2	2034	1.5	2.99	3.039				814	14
49.2	35.58	2	2461	1.1	2.27	2.799				812	15
43.2	40.50	1.5	2101	1.2	1.81	2.533				614	16
39.6	44.23	1.5	2294	0.9	1.40	2.146				810	17
35.7	49.00	1.5	2541	1.1	1.65	2.799				612	18
28.7	60.90	1	2106	1.0	1.02	2.146				610	19

The dynamic efficiency is 0.96 for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
15.87 oz	19.40 oz	35.27 oz	38.80 oz	38.80 oz	40.56 oz	38.80 oz
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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{2.13}{X+0.94}$
 F_{eq} (lb)

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	103.3	516.7	140	134.8	674.0	70	175.2	876.2
250	107.8	539.2	120	139.3	696.5	40	202.2	1011
200	116.8	584.1	85	157.3	786.3	15	224.7	1123.3

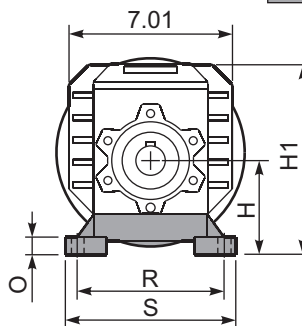
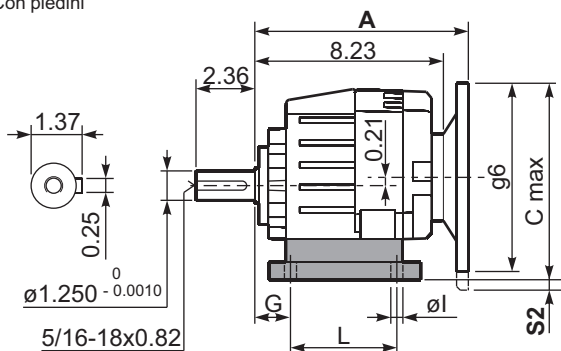
Input shaft
Albero in entrata

n ₁	FA	FR
1750	101.2	505.8
1140	112.4	562

tab. 2

P502A-B1... With feet
Con piedini

Gearbox weight **25.55lb**
peso riduttore With feet **25.99lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange
B3	312/3	0.71	4.33	6.30	5.12	7.48	8.33	0.79	0.43	-
B4	30/35	0.79	5.12	7.09	5.89	8.50	9.11	0.71	0.55	-
S4	47-57	1.18	4.53	5.31	6.50	6.69	8.52	0.94	0.53	-
H3	023-233	1.18	5.12	5.31	5.12	7.28	9.11	0.98	0.55	-
M2	52/3	1.18	4.33	5.31+5.91	3.94	7.48	8.33	0.71	0.43	-
L6	06	0.75	4.92	6.30	4.17	8.07	8.92	0.31	0.55	-
E2	2202/3	0.51	3.94	5.31	7.56	6.46	7.93	0.24	0.55	0.29 182/4TC
P4	142	1.38	5.59	5.12	5.71	6.30	9.59	0.31	0.55	-

Other feet are available, see www.hydropmec.com

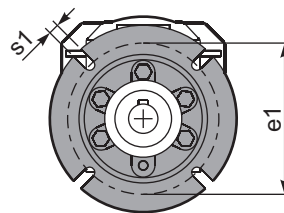
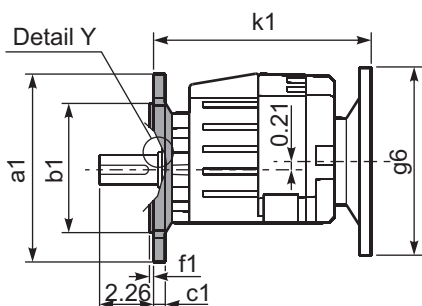
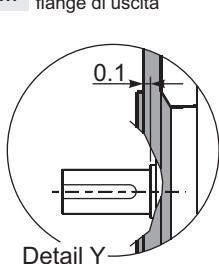
Sono disponibili altri piedini in www.hydropmec.com

Dimension (A) see on page bottom

Most popular types
Tipi più diffusi

Nema flanges	C max	g6	kit code
56C-143/5TC	9.05	6.50	KU085.4.041
182/4TC	10.24	8.88	KU085.4.042

P502A-F... Output flanges
flange di uscita

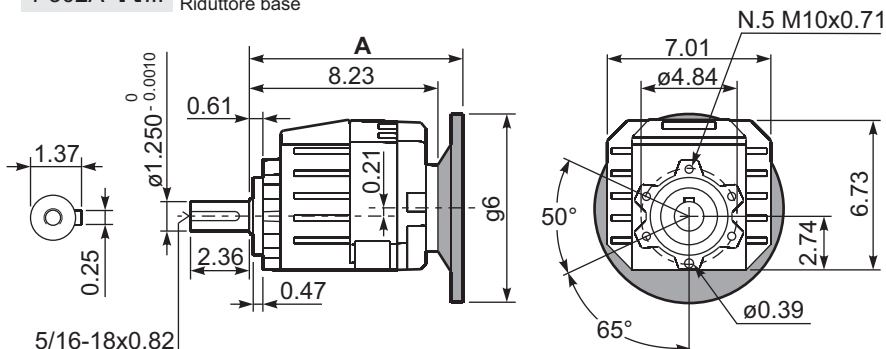


Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code	Type	With flange and feet only on request. Ask for compatibility
7.87	5.12 ^{-0.0017} _{-0.0033}	0.51	6.50	0.18	0.43	KC50.9.012	Metric	
9.87	9.84 ^{-0.0017} _{-0.0033}	0.61	8.46	0.16	0.55	KC50.9.013	Metric	

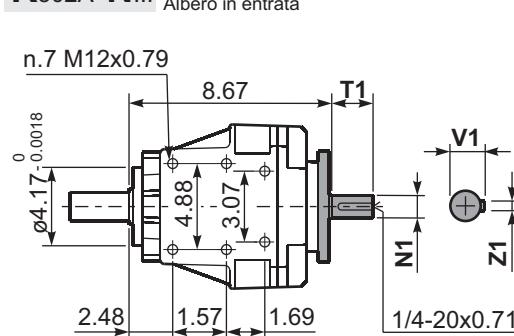
Nema flanges	k1	g6	kit code
56C-143/5TC	9.31	6.50	KU085.4.041
182/4TC	10.01	8.88	KU085.4.042

P502A-N... Basic gearbox
Riduttore base



Nema flange	A	g6	kit code
56C-143/5TC	9.21	6.50	KUC085.4.041
182/4TC	9.92	8.88	KUC085.4.042

R502A-N... Input Shaft
Albero di entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.187	KC50.5.070U
On request	0.750	1.97	0.84	0.187	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft standard ø1.250	Ratios code
							-W 56C	-X 143/5 TC		
44.0	39.79	1.5	2021	1.6	2.38	3202			191316	01
37.1	47.22	1.5	2398	1.3	1.90	3039			191314	02
32.0	54.73	1.5	2780	1.1	1.64	3039			171314	03
26.4	66.22	1	2242	1.2	1.25	2799			171312	04
22.8	76.69	1	2596	1.2	1.17	3039			131314	05
20.9	83.59	1	2830	1.1	1.07	3039			190814	06
18.9	92.78	0.75	2356	1.2	0.89	2799			131312	07
16.7	104.68	0.75	2658	1.1	0.86	3039			101314	08
14.9	117.22	0.75	2976	0.9	0.71	2799			170812	09
13.8	126.65	0.5	2144	1.3	0.65	2799			101312	10
12.8	136.62	0.5	2313	1.3	0.66	3039			91314	11
10.6	165.29	0.5	2798	1.0	0.50	2799			91312	12
9.7	180.40	0.5	3054	1.0	0.50	3039			71314	13
8.0	218.26	0.33	2438	1.1	0.38	2799			71312	14
7.2	241.82	0.33	2702	1.1	0.37	3039			90814	15
6.0	292.57	0.25	2476	1.1	0.28	2799			90812	16
5.5	319.32	0.25	2703	1.1	0.28	3039			70814	17
4.5	386.33	0.25	3270	0.9	0.21	2799			70812	18
3.6	480.16	0.25	4064	0.5	0.13	2146			70810	19

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

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

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
26.46 oz	26.46 oz	37.04 oz	40.56 oz	42.33 oz	42.33 oz	42.33 oz
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

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

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

FR (lb)
FA (lb)

$$F_{eq} = FR \cdot \frac{2.13}{X+0.94}$$

F_{eq} (lb)

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	103.3	516.7	140	134.8	674.0	70	175.2	876.2
250	107.8	539.2	120	139.3	696.5	40	202.2	1011
200	116.8	584.1	85	157.3	786.3	15	224.7	1123.3

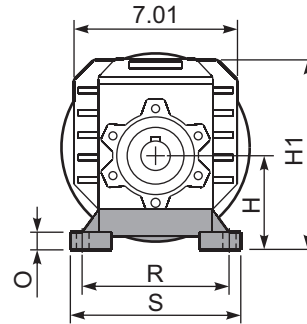
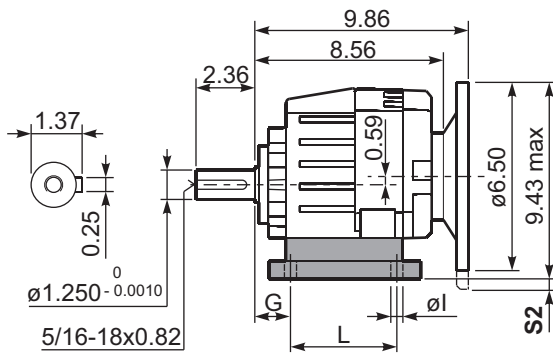
Input shaft
Albero di entrata

n ₁	FA	FR
1750	89.9	449.3
1140	98.9	494.6

tab. 2

P503A-B1... With feet
Con piedini

Gearbox weight **27.53lb**
peso riduttore With feet **27.09lb**



Feet / piedini

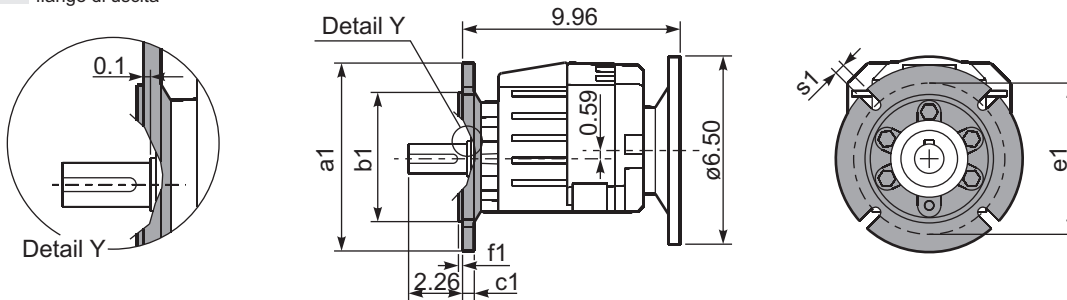
Feet Code	Market reference	G	H	R	L	S	H1	O	øI	S2 only with motor flange
B3	312/3	0.71	4.33	6.30	5.12	7.48	8.33	0.79	0.43	-
B4	30/35	0.79	5.12	7.09	5.89	8.50	9.11	0.71	0.55	-
S4	47-57	1.18	4.53	5.31	6.50	6.69	8.52	0.94	0.53	-
H3	023-233	1.18	5.12	5.31	5.12	7.28	9.11	0.98	0.55	-
M2	52/3	1.18	4.33	5.31+5.91	3.94	7.48	8.33	0.71	0.43	-
L6	06	0.75	4.92	6.30	4.17	8.07	8.92	0.31	0.55	-
E2	2202/3	0.51	3.94	5.31	7.56	6.46	7.93	0.24	0.55	-
P4	142	1.38	5.59	5.12	5.71	6.30	9.59	0.31	0.55	-

Other feet are available, see www.hydromec.com

Sono disponibili altri piedini in www.hydromec.com

Most popular types
Tipi più diffusi

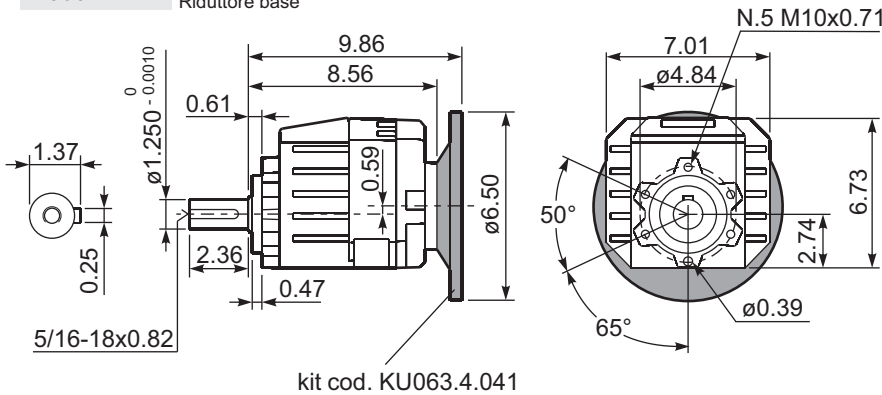
P503A-F... Output flanges
flange di uscita



Available output flanges / flange di uscita

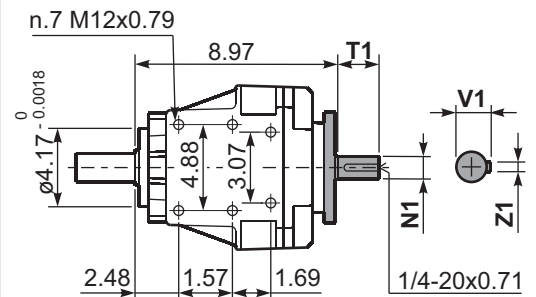
a1 ø	b1	c1	e1	f1	s1	kit code	Type	With flange and feet only on request. Ask for compatibility
7.87	5.12 ^{-0.0017} _{-0.0033}	0.51	6.50	0.18	0.43	KC50.9.012	Metric	
9.87	9.84 ^{-0.0017} _{-0.0033}	0.61	8.46	0.16	0.55	KC50.9.013	Metric	

P503A-N... Basic gearbox
Riduttore base



kit cod. KU063.4.041

R503A-N... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.84	0.187	KC40.5.070U
On request	0.625	1.57	0.71	0.187	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W	-X	-Y		
							56C	143/5TC	182/4TC		
485	3.61	5	624	2.5	12.38	1545				3018	01
414	4.23	5	730	2.6	12.93	1889				3016	02
349	5.01	5	867	2.6	12.87	2232				3014	03
288	6.07	5	1049	2.5	12.28	2576				3012	04
257	6.81	5	1177	2.6	12.77	3005				2018	05
220	7.96	5	1377	2.3	11.54	3177				2016	07
185	9.45	5	1634	2.1	10.51	3434				2014	08
153	11.43	5	1977	1.8	9.01	3563				2012	09
125	14.00	5	2420	1.5	7.71	3735				1316	10
105	16.62	5	2873	1.5	7.70	4421				1314	11
87	20.10	5	3475	1.3	6.42	4464				1312	12
71	24.61	5	4254	1.0	5.25	4464				1112	20
60	29.41	3	3051	1.3	3.80	3863				814	14
49.2	35.58	3	3691	1.2	3.36	4464				812	15
43.2	40.50	2	2801	1.0	1.96	2747				614	16
39.6	44.23	2	3058	1.1	2.25	3434				810	17
35.7	49.00	2	3388	1.0	2.03	3434				612	18
28.7	60.90	1.5	3159	1.1	1.63	3434				610	19

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

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

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

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

E El reductor tamaño **602A** 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
19.40 oz	29.88 oz	38.71 oz	42.33 oz	42.33 oz	44.09 oz	42.33 oz
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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{2.38}{X+1.01}$
 F_{eq} (lb)

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	125.8	629.1	140	166.3	831.3	70	200.0	943.6
250	134.8	674.0	120	170.7	853.7	40	260.6	1303.1
200	143.8	718.9	85	188.7	898.7	15	292.1	1460.3

Input shaft
Albero in entrata

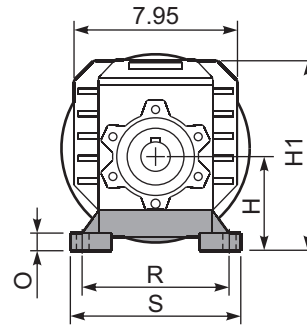
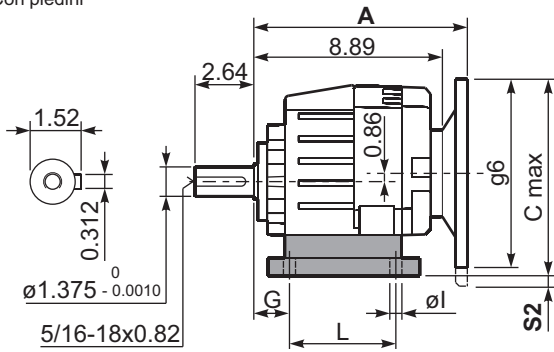
F_R (lb)
 F_A (lb)

n ₁	FA	FR
1750	101.2	505.8
1140	112.4	562

tab. 2

P602A-B1... With feet
Con piedini

Gearbox weight
peso riduttore With flange **31.50lb**
With feet **32.60lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange
B4	412/3	0.79	5.12	7.09	5.89	8.50	9.17	0.71	0.55	-
S4	47-57	1.18	4.53	5.31	6.50	6.69	8.58	0.94	0.53	-
M3	62/3	1.38	4.72	6.69-7.28	4.33	9.06	8.78	0.79	0.55	-
S7	77	1.38	5.51	6.69	8.07	8.03	9.57	0.31	0.55	-
H4	024-243	1.38	6.10	6.69	5.90	8.86	10.16	1.18	0.55	-
L6	06	0.75	4.92	6.30	4.17	8.07	8.98	0.31	0.55	-
E3	2302/3	0.77	4.92	6.69	9.45	8.07	8.98	0.31	0.55	-
P6	162	1.57	6.38	6.30	8.07	7.87	10.43	0.31	0.55	-

Other feet are available, see www.hydronec.com

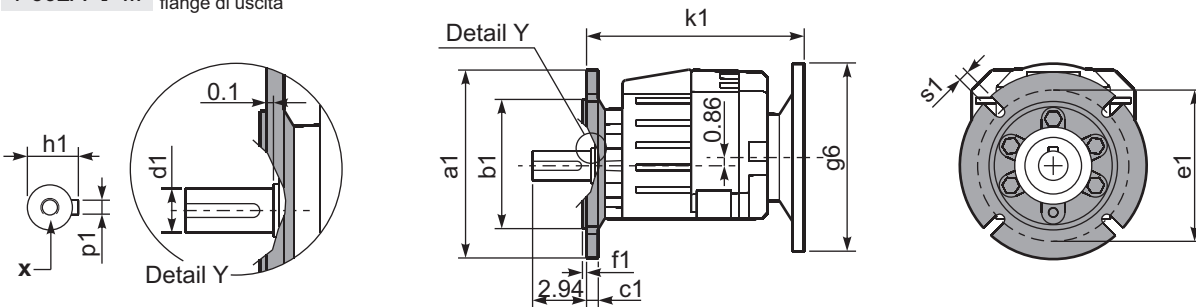
Sono disponibili altri piedini in www.hydronec.com

Dimension (A) see on page bottom

Most popular types
Tipi più diffusi

Nema flanges	C max	g6	kit code
56C-143/5TC	10.49	6.50	KU085.4.041
182/4TC	11.68	8.88	KU085.4.042

P602A-F... Output flanges
flange di uscita



*Available output shaft / Alberi di uscita

	Shaft - d1	p1	h1	x
Standard	ø1.375x2.64	0.312	1.52	5/16-18x0.82
On request A richiesta	ø1.250x2.64	0.25	1.37	5/16-18x0.82

Available output flanges / flange di uscita

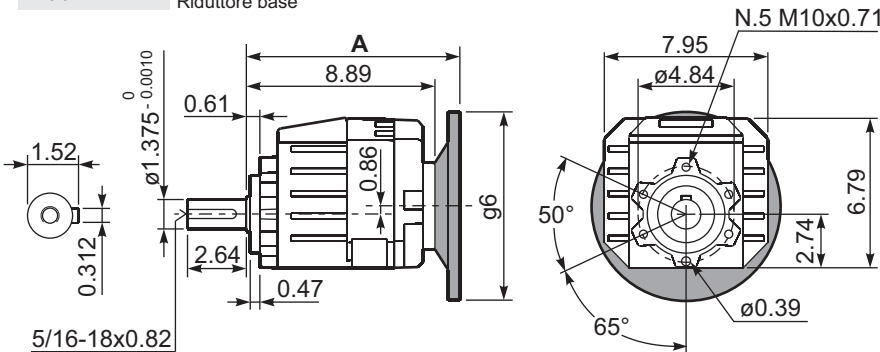
a1 ø	b1	c1	e1	f1	s1	kit code	Type
7.87	5.12 ^{-0.0017} -0.0033	0.51	6.50	0.18	0.43	KC50.9.012	Metric
9.87	9.84 ^{-0.0017} -0.0033	0.61	8.46	0.16	0.55	KC50.9.013	



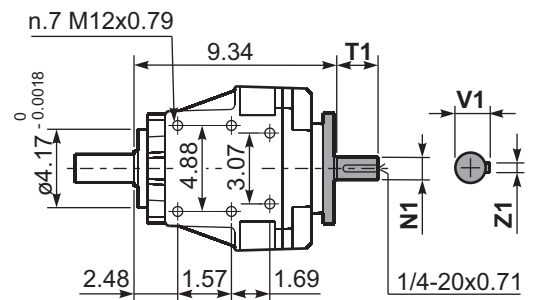
With flange and feet only on request. Ask for compatibility

Nema flanges	k1	g6	kit code
56C-143/5TC	9.97	6.50	KU085.4.041
182/4TC	10.68	8.88	KU085.4.042

P602A-N... Basic gearbox
Riduttore base



R602A-N... Input Shaft
Albero in entrata



Nema flanges	A	g6	kit code
56C-143/5TC	9.87	6.50	KUC085.4.041
182/4TC	10.58	8.88	KUC085.4.042

Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.187	KC50.5.070U
On request	0.750	1.97	0.84	0.187	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft	
							-W 56C	-X 143/5 TC			
44.0	39.79	2	2694	1.4	2.77	3726				191316	05
37.1	47.22	2	3198	1.4	2.77	4421				191314	06
32.0	54.73	2	3706	1.2	2.39	4421				171314	07
30.6	57.13	2	3869	1.2	2.31	4464				191312	08
26.4	66.22	2	4484	1.0	1.99	4464				171312	09
24.6	71.01	1.5	3606	1.0	1.55	3735				191310	10
22.8	76.69	1.5	3894	1.1	1.70	4421				131314	11
21.3	82.30	1	2786	1.3	1.34	3735				171310	12
20.9	83.59	1	2830	1.3	1.33	3777				190814	13
18.9	92.78	1	3141	1.4	1.42	4464				131312	14
16.7	104.68	1	3544	1.2	1.25	4421				101314	15
14.9	117.22	1	3968	1.1	1.12	4464				170812	16
13.8	126.65	1	4288	1.0	1.04	4464				101312	17
12.9	135.74	0.75	3447	1.1	0.82	3777				130814	18
12.0	145.68	0.75	3699	1.0	0.76	3735				170810	19
11.1	157.40	0.5	2665	1.4	0.70	3735				101310	20
10.6	165.29	0.5	2798	1.6	0.80	4464				91312	21
9.4	185.29	0.5	3137	1.2	0.60	3777				100814	22
8.5	205.43	0.5	3478	1.1	0.54	3735				91310	23
7.8	224.18	0.5	3795	1.2	0.59	4464				100812	24
7.2	241.82	0.33	2702	1.4	0.46	3777				90814	25
6.3	278.62	0.33	3113	1.2	0.40	3735				100810	26
6.0	292.57	0.33	3269	1.4	0.45	4464				90812	27
4.8	363.63	0.25	3078	1.2	0.30	3735				90810	28

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

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

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

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
26.79 oz	31.75 oz	40.56 oz	44.09 oz	45.86 oz	47.62 oz	45.86 oz
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

$F_{eq} = F_R \cdot \frac{2.38}{X+1.01}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	125.8	629.1	140	166.3	831.3	70	200.0	943.6
250	134.8	674.0	120	170.7	853.7	40	260.6	1303.1
200	143.8	718.9	85	188.7	898.7	15	292.1	1460.3

Input shaft
Albero in entrata

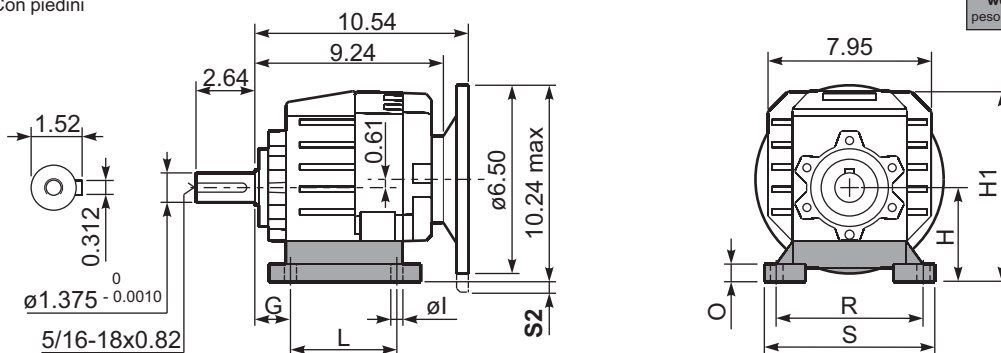
n_1	FA	FR
1750	89.9	449.3
1140	98.9	494.6

tab. 2

P603A-B1...

With feet
Con piedini

Gearbox weight
peso riduttore With flange **31.94lb**
With feet **34.80lb**



Feet / piedini

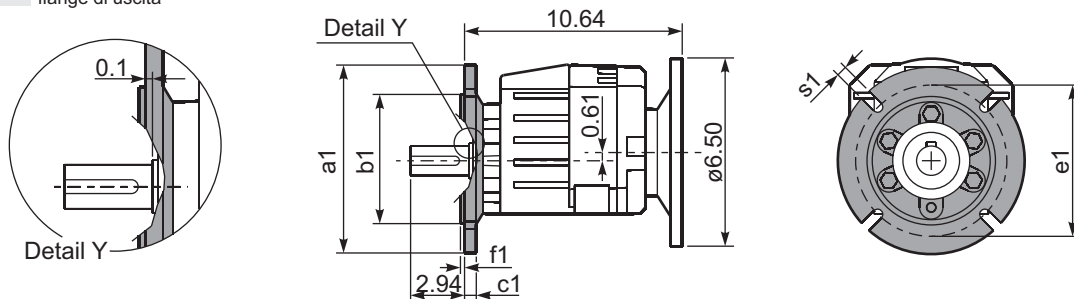
Feet Code	Market reference	G	H	R	L	S	H1	O	øl	S2 only with motor flange
B4	412/3	0.79	5.12	7.09	5.89	8.50	9.17	0.71	0.55	-
S4	47-57	1.18	4.53	5.31	6.50	6.69	8.58	0.94	0.53	-
M3	62/3	1.38	4.72	6.69-7.28	4.33	9.06	8.78	0.79	0.55	-
S7	77	1.38	5.51	6.69	8.07	8.03	9.57	0.31	0.55	-
H4	024-243	1.38	6.10	6.69	5.90	8.86	10.16	1.18	0.55	-
L6	06	0.75	4.92	6.30	4.17	8.07	8.98	0.31	0.55	-
E3	2302/3	0.77	4.92	6.69	9.45	8.07	8.98	0.31	0.55	-
P6	162	1.57	6.38	6.30	8.07	7.87	10.43	0.31	0.55	-

Other feet are available, see www.hydronec.com
Sono disponibili altri piedini in www.hydronec.com

Most popular types
Tipi più diffusi

P603A-F...

Output flanges
flange di uscita



*Available output shaft / Alberi di uscita

	Shaft - d1	p1	h1	x
Standard	ø1.375x2.64	0.312	1.52	5/16-18x0.82
On request A richiesta	ø1.250x2.64	0.25	1.37	5/16-18x0.82

Available output flanges / flange di uscita

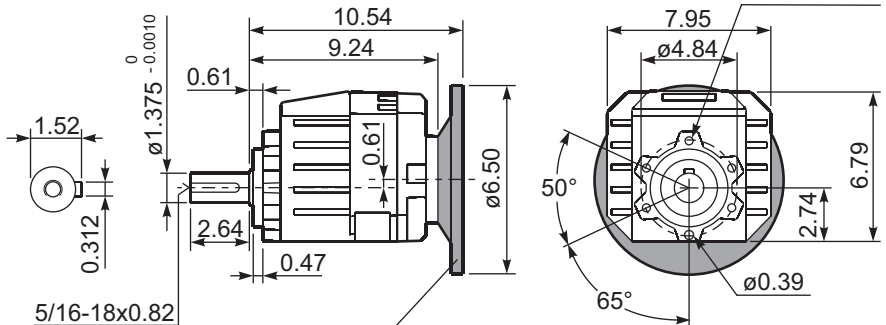
a1 ø	b1	c1	e1	f1	s1	kit code	Type
7.87	5.12 ^{-0.0017} _{-0.0033}	0.51	6.50	0.18	0.43	KC50.9.012	Metric
9.87	9.84 ^{-0.0017} _{-0.0033}	0.61	8.46	0.16	0.55	KC50.9.013	



With flange and feet only on request. Ask for compatibility

P603A-N...

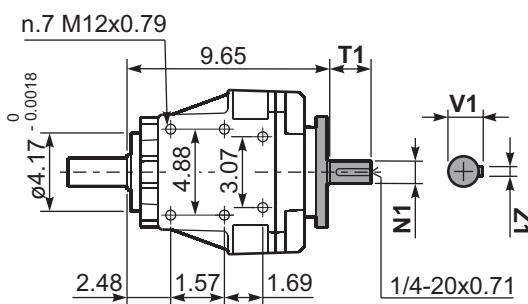
Basic gearbox
Riduttore base



kit cod. KU063.4.041

R603A-N...

Input Shaft
Albero in entrata

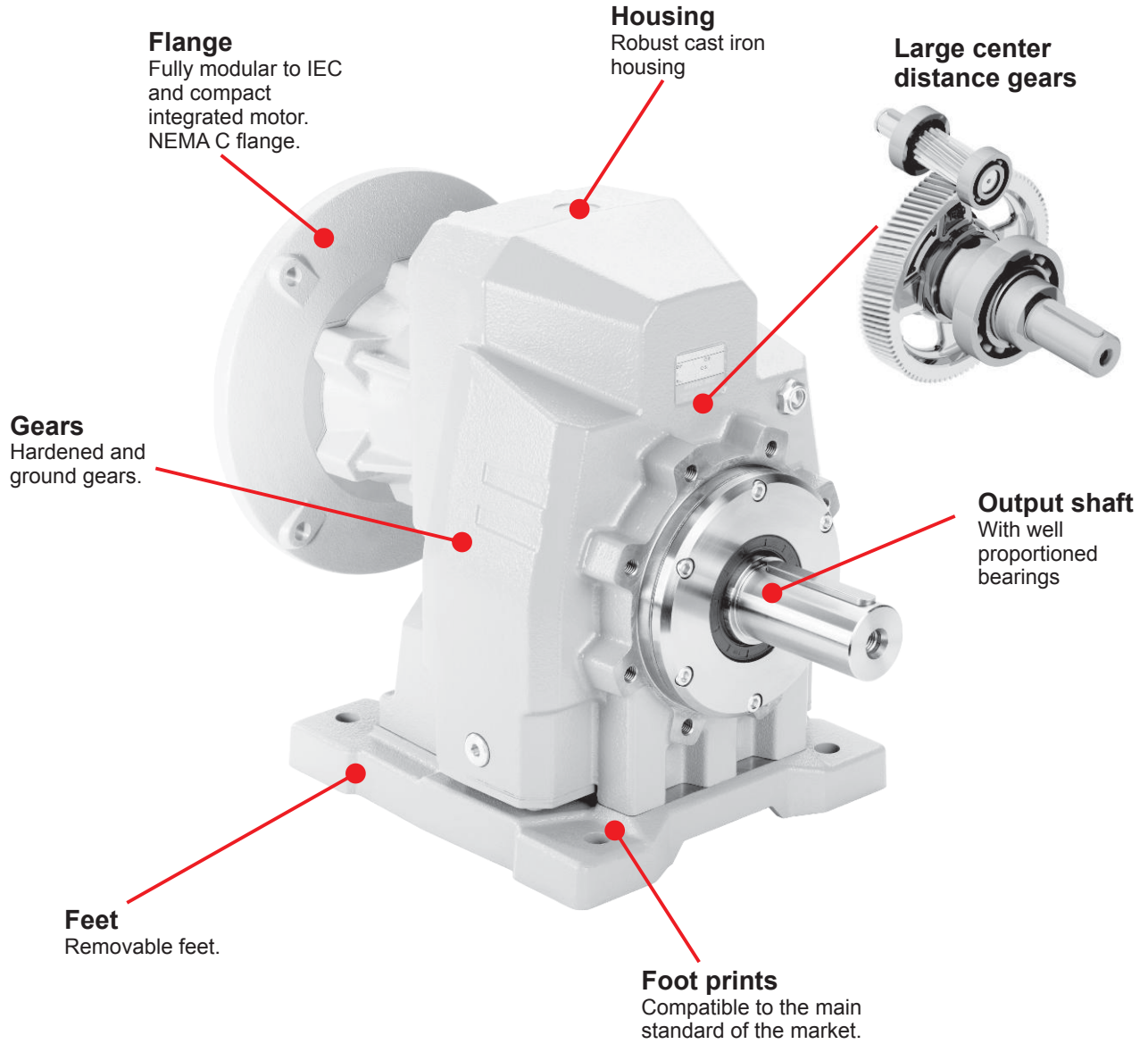


Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.84	0.187	KC40.5.070U
On request	0.625	1.57	0.71	0.187	KC40.5.069U

Cast iron gearboxes

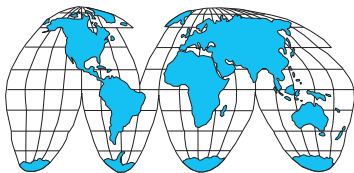
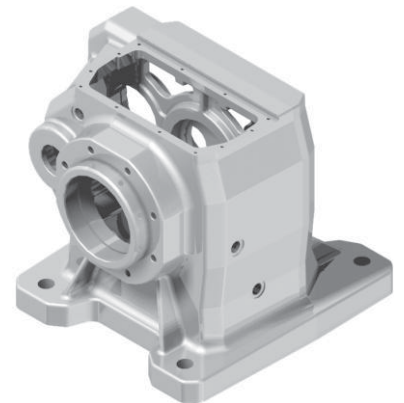
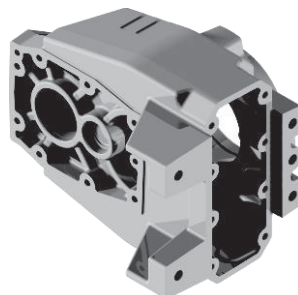
A modular and compact product

5



Single-piece Cast Iron housing

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



World wide sales network.

Specific type datasheet on page...

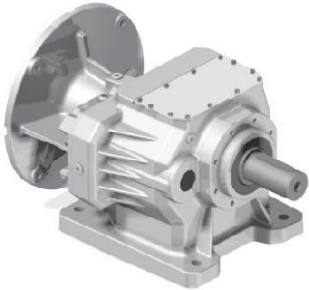
2 and 3 Stages



On page / A pagina / En la página

	5-5	5-7	5-9	5-11	5-13	5-15	5-17	5-19
Types / Tipi / Tipos →	702C 5974lb in	703C 5974lb in	802C 7966lb in	803C 7966lb in	852C 14161lb in	853C 15931lb in	902C 18587lb in	903C 18587lb in

2 and 3 Stages



On page / A pagina / En la página

	5-21	5-23	5-25	5-27
Types / Tipi / Tipos →	1002 25667lb in	1003 26552lb in	1102 39828lb in	1103 40713lb in

Type - Tipo - Typ

Size - Grandezza - Tomaño

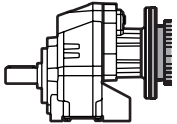
Mounting - Montaggio
Tipo de montaje

P

702C

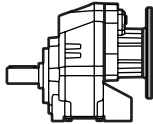
-F

Cast iron coaxial gear boxes
Riduttori coassiali in Ghisa



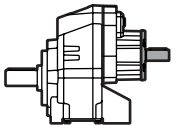
With IEC motor

M



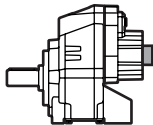
With motor flange

P



With male input shaft

R



Modular base

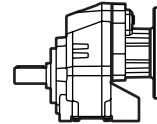
B

2 Stages
Riduzioni
Etapas

702C
802C
852C
902C
1002
1102

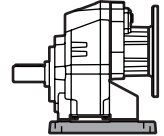
3 Stages
Riduzioni
Etapas

703C
803C
853C
903C
1003
1103



Without flange / feet

-N



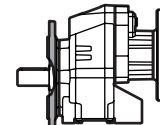
Mounted feet

B..

Feet / piedini

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

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



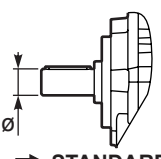
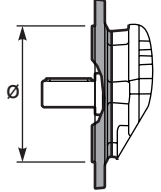







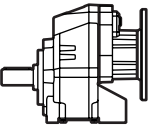
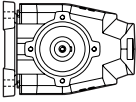
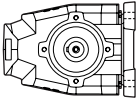
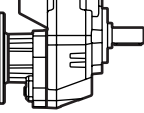
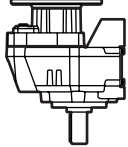
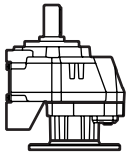
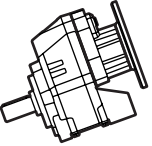
Output flange mounted

-F



On request we can deliver our products according to the ATEX
A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

CODIFICA / HOW TO ORDER / CODIFICACIÓN

Ratio - Rapporto Relación	Output shaft Albero uscita Eje en salida	Output flange Flangia uscita Brida en salida	Motor size - Grandezza motore Tamaño motor	Terminal box position Posizione morsetti Posición caja de bornes	Mounting position Posizione montaggio Position de montaje	
6.57	H	4	-W	B	B3	
<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	 <p>→ STANDARD</p> <p>702C 703C</p> <p>Z → Ø1.375</p> <p>802C 803C</p> <p>0 → Ø1.625</p> <p>852C 853C</p> <p>1 → Ø2.125</p> <p>902C 903C</p> <p>1 → Ø2.125</p> <p>1002 1003</p> <p>3 → Ø2.375</p> <p>1102 1103</p> <p>4 → Ø2.875</p>	 <p>N Senza flangia Without flange</p> <p>702C 703C</p> <p>4 ⇒ Ø7.874</p> <p>5 ⇒ Ø9.843</p> <p>802C 803C</p> <p>5 ⇒ Ø9.843</p> <p>6 ⇒ Ø11.811</p> <p>852C 853C</p> <p>6 ⇒ Ø11.811</p> <p>7 ⇒ Ø13.780</p> <p>902C 903C 1002 1003</p> <p>6 ⇒ Ø11.811</p> <p>7 ⇒ Ø13.780</p> <p>8 ⇒ Ø17.717</p> <p>1102 1103</p> <p>7 ⇒ Ø13.780</p> <p>8 ⇒ Ø17.717</p> <p>→ STANDARD</p>	<p>Flange Flangia</p>  <p>Nema</p> <p>-W=56C</p> <p>-X=143/5TC</p> <p>-Y=182/4TC</p> <p>AA=213/5TC</p> <p>AB=254/6TC</p> <p>AC=284/6TC</p> <p>AD=324/6TC</p> <p>Type R Tipo R</p>  <p>703C 803C</p> <p>-K ⇒ Ø0.625</p> <p>-J ⇒ Ø0.750</p> <p>702C 802C 853C 903C</p> <p>-J ⇒ Ø0.750</p> <p>-N ⇒ Ø0.875</p>	<p>Without flange Senza flangia</p>  <p>703C 803C</p> <p>-K ⇒ Ø0.625</p> <p>-N ⇒ Ø0.875</p> <p>702C 802C 853C 903C</p> <p>-K ⇒ Ø0.625</p> <p>-N ⇒ Ø0.875</p> <p>-S ⇒ Ø1.125</p> <p>852C 902C 1003 1103</p> <p>-S ⇒ Ø1.125</p> <p>UA ⇒ Ø1.375</p> <p>UB ⇒ Ø1.625</p> <p>1002 1102</p> <p>UC ⇒ Ø1.875</p> <p>UD ⇒ Ø2.125</p>	 <p>A</p>  <p>B</p> <p>STANDARD</p>  <p>C</p>  <p>D</p>	 <p>B3</p> <p>STANDARD</p>  <p>B6</p>  <p>B7</p>  <p>B8</p>  <p>V5</p>  <p>V6</p>  <p>V8</p>

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

TORQUE / COPPIA / PAR

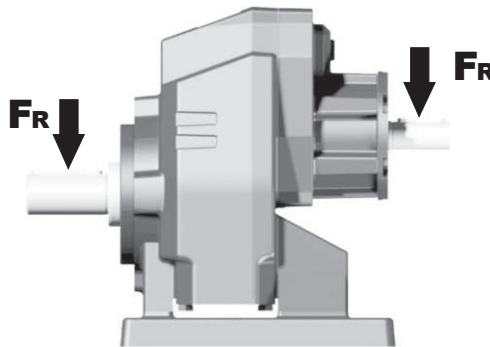
$$M [Nm] = \frac{9550 \cdot P[KW]}{n [rpm]}$$

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

5

RADIAL LOADS / CARICHI RADIALI / CARGA RADIAL Y AXIAL

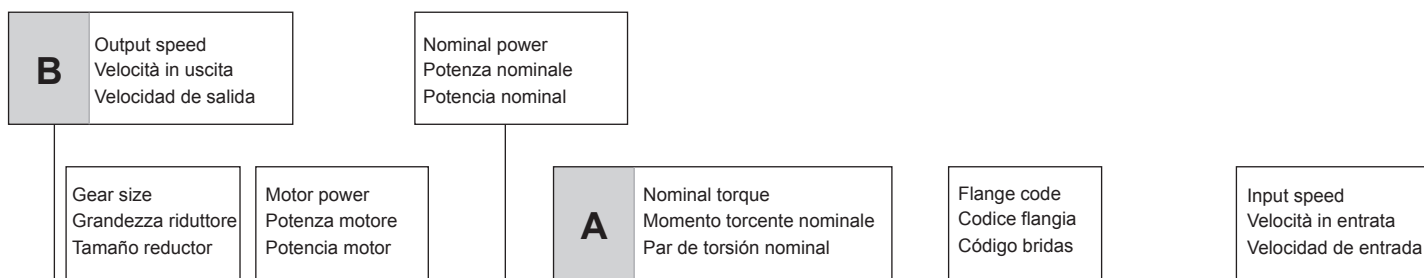
- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



	$F_R [N] = \frac{M [Nm] \cdot 2000}{d [mm]} \cdot f_k$	$F_R [N] = \frac{M [lb in] \cdot 8.9}{d [in]} \cdot f_k$
M	Momento torcente / Output torque / Par torsion	
d	Diametro primitivo / Diam. of driving element / Diámetro primitivo	
f_k	Coefficiente di trasformazione / Factor / Coeficiente de transmisión 1.15 Ingranaggi / Gearwheels / Engranaje 1.25 Catena / Chain sprockets / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / 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.
- 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
Cómo seleccionar un reductor



702C

Coaxial - Gear
5974lb in

Rating - Cast Iron COAXIAL GEARBOXES



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft		
							-W 56C	-X 143/5TC	-Y 182/4TC	AA 213/5TC			Ratio code
266	6.57	10	2272	1.5	14.80	3363					3018		01
232	7.56	10	2613	1.3	13.21	3452					3016		02
198	8.82	10	3050	1.2	11.90	3629					3014		03
141	12.39	10	4283	1.2	11.99	5133					2018		04
123	14.24	10	4924	1.1	10.79	5310					2016		05

C Ratio
Rapporto
Relación

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

Notes
Note
Notas

Transmitted torque
Momento torcente trasmesso
Par transmitido

Service factor
Fattore di servizio
Factor de servicio

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 Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile 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
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl
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
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft standard ø1.375	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
266	6.57	10	2272	1.5	14.80	3363					3018	01
232	7.56	10	2613	1.3	13.21	3452					3016	02
198	8.82	10	3050	1.2	11.90	3629					3014	03
141	12.39	10	4283	1.2	11.99	5133					2018	04
123	14.24	10	4924	1.1	10.79	5310					2016	05
104	16.75	10	5790	1.0	10.16	5886					1618	06
91	19.25	10	6657	0.9	8.97	5974					1616	07
80	21.78	7.5	5647	1.1	7.93	5974					1318	08
70	25.04	7.5	6493	0.9	6.90	5974					1316	09
60	29.23	5	5053	1.2	5.91	5974					1314	10
57	30.65	5	5298	1.1	5.64	5974					1116	11
48.9	35.78	5	6186	1.0	4.83	5974					1114	12
45.4	38.55	3	3999	1.3	3.85	5133					818	13
39.5	44.32	3	4597	1.3	3.84	5886					816	14
33.8	51.74	3	5367	1.1	3.34	5974					814	15
28.7	61.03	2	4220	1.0	2.01	4248					616	16
24.6	71.25	2	4927	1.0	2.01	4956					614	17

The dynamic efficiency is 0.96 for all ratios

5

- 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 702C 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 702C 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.

E El reductor tamaño 702C se suministra, lubricado de por vida con aceites sintético y no requieren mantenimiento alguna. Ver tabla 1, para cantidades y aceites recomendados. En la tabla 2, se encuentran las cargas radiales y axiales admitidas por el reductor.

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
73.91 oz	49.27 oz	49.27 oz	45.75 oz	79.19 oz	56.31 oz	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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{2.76}{X+1.38}$

F_{eq} (lb)

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	153	764	140	216	1079	70	292	1461
250	171	854	120	234	1169	40	328	1641
200	202	1012	85	252	1259	15	405	2023

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

Input shaft
Albero in entrata

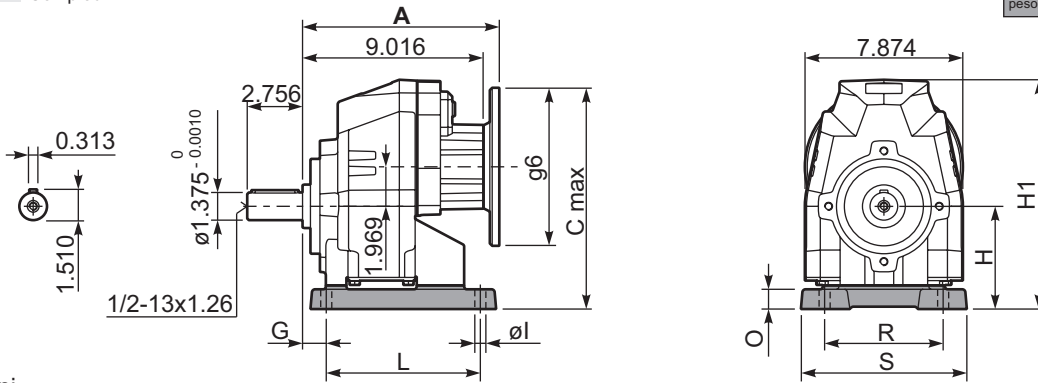
F_R (lb)
 F_A (lb)

n_1	FA	FR
1750	90	450
1140	99	495

tab. 2

P702C**S6**... With feet
Con piedini

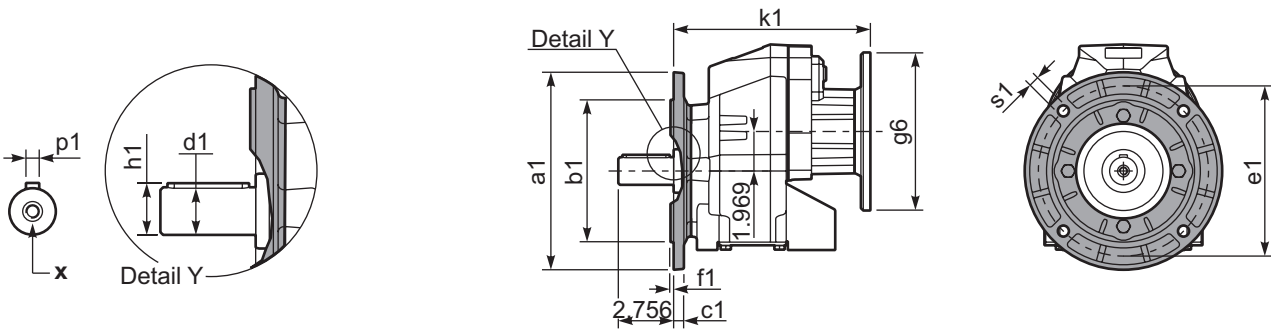
Gearbox weight **66.0 lb**
peso riduttore With flange
With feet **74.0 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	B5 max. Flange	kit code
B4	412/3	0.768	5.118	7.087	5.886	8.504	11.417	0.984	0.551	-	KC70.9.022
S6	67	1.181	5.118	5.906	7.677	8.268	11.417	0.984	0.551	-	KC70.9.024
H5	025/253	1.378	6.299	6.693	6.890	8.661	12.598	1.181	0.630	-	KC70.9.023
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

P702C-**F**... Output flanges
flange di uscita



Output shaft / Albero di uscita

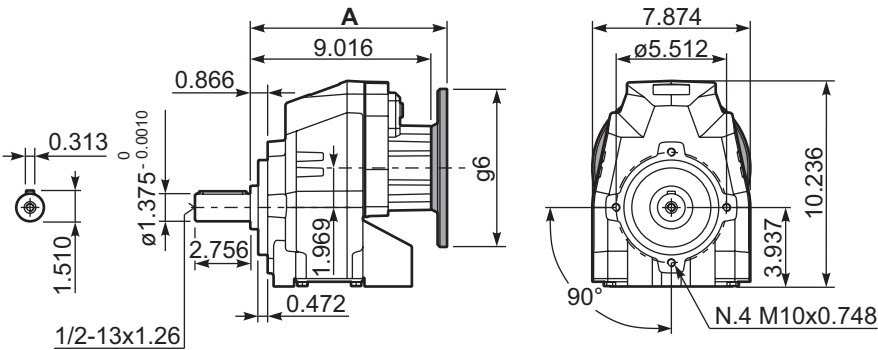
	Shaft - d1	p1	h1	x
Standard	ø 1.375	0.313	1.510	1/2-13x1.26

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
7.874	5.118 ^{-0.0017} _{-0.0033}	0.433	6.496	0.138	0.433	KC70.9.012
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.157	0.551	KC70.9.013
-	-	-	-	-	-	-

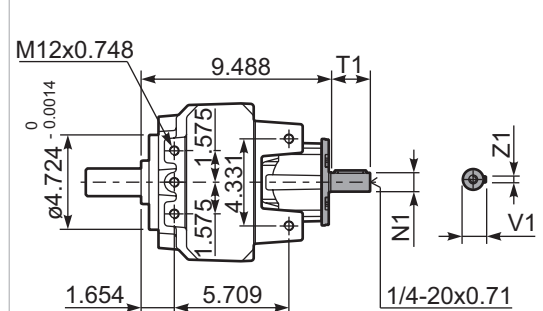
With flange and feet only on request. Ask for compatibility

P702C-**N**... Basic gearbox
Riduttore base



Nema flange	A	C _{max}	g6	k1	kit code
56C-143/5TC	10.000	11.518	6.50	10.000	KUC085.4.041
182/4TC	10.705	12.708	8.88	10.705	KUC085.4.042
213/5TC	11.220	12.708	8.88	11.220	KUC50.4.041

R702C-**N**... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC			
28.3	61.89	2	4191	1.4	2.85	5974				191318	01
24.6	71.16	2	4819	1.2	2.48	5974				191316	02
21.2	82.48	2	5585	1.1	2.14	5974				171316	03
18.2	96.29	1.5	4890	1.2	1.83	5974				171314	04
17.4	100.51	1.5	5104	1.2	1.76	5974				131318	05
15.1	115.56	1.5	5869	1.0	1.53	5974				131316	06
13.9	125.96	1.5	6397	0.9	1.38	5886				190816	07
13.0	134.91	1.5	6851	0.9	1.31	5974				131314	08
11.9	147.05	1	4979	1.2	1.20	5974				190814	09
10.3	170.44	1	5770	1.0	1.04	5974				170814	10
9.5	184.15	1	6235	1.0	0.96	5974				101314	11
8.5	205.87	0.75	5228	1.1	0.86	5974				91316	12
7.3	240.34	0.75	6103	1.0	0.73	5974				91314	13
6.3	279.22	0.5	4727	1.2	0.62	5886				100816	14
5.4	325.97	0.5	5518	1.1	0.54	5974				100814	15
4.8	364.41	0.5	6169	1.0	0.48	5886				90816	16
4.1	425.43	0.33	4753	1.3	0.41	5974				90814	17
3.6	481.19	0.33	5376	1.1	0.36	5886				70816	18
3.1	561.76	0.33	6276	1.0	0.31	5974				70814	19

standard
ø 1.375

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 703C 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 703C 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.

E El reductor tamaño 703C 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
77.43 oz	49.27 oz	49.27 oz	45.75 oz	84.47 oz	59.83 oz	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

$F_{eq} = F_R \cdot \frac{2.76}{X+1.38}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	153	764	140	216	1079	70	292	1461
250	171	854	120	234	1169	40	328	1641
200	202	1012	85	252	1259	15	405	2023

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

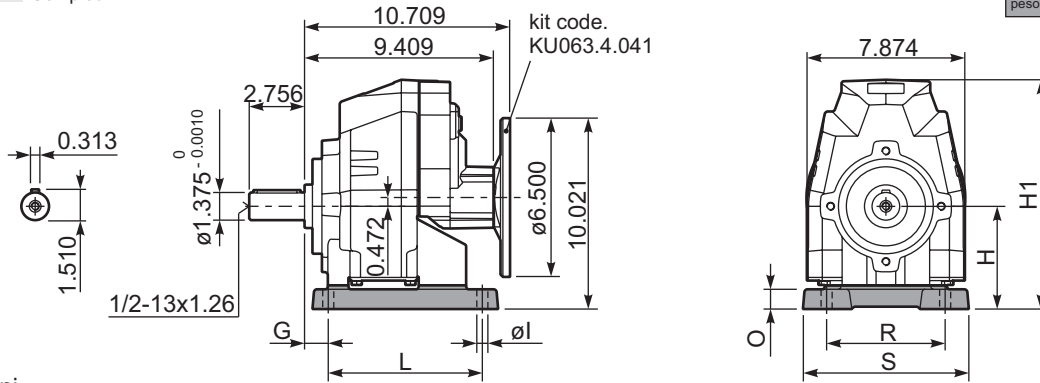
Input shaft
Albero in entrata

n ₁	FA	FR
1750	54	270
1140	63	315

tab. 2

P703C**S6**... With feet
Con piedini

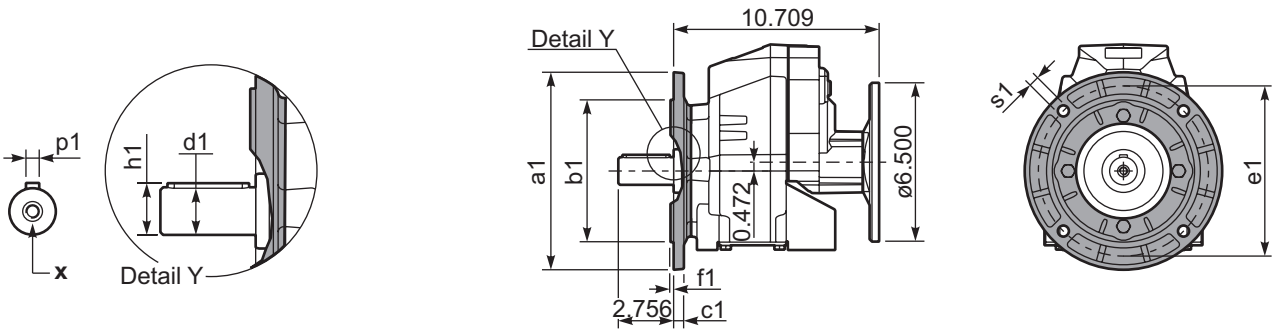
Gearbox weight **66.0 lb**
peso riduttore With feet **74.0 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	ϕl	B5 max. Flange	kit code
B4	412/3	0.768	5.118	7.087	5.886	8.504	11.417	0.984	0.551	-	KC70.9.022
S6	67	1.181	5.118	5.906	7.677	8.268	11.417	0.984	0.551	-	KC70.9.024
H5	025/253	1.378	6.299	6.693	6.890	8.661	12.598	1.181	0.630	-	KC70.9.023
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

P703C-**F**... Output flanges
flange di uscita



Output shaft / Albero di uscita

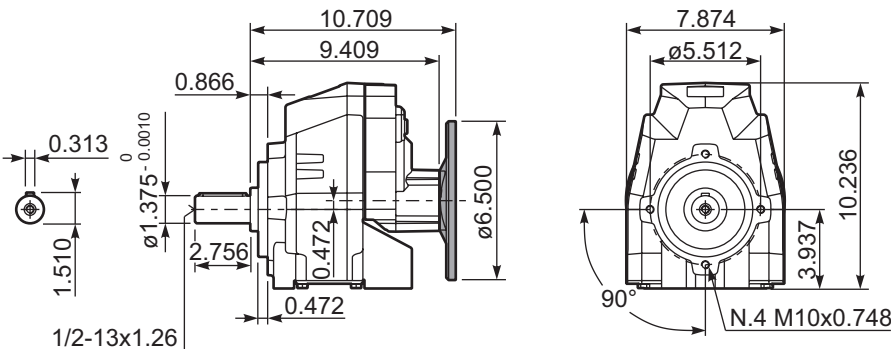
	Shaft - d1	p1	h1	x
Standard	$\phi 1.375$	0.313	1.510	1/2-13x1.26

Available output flanges / flange di uscita

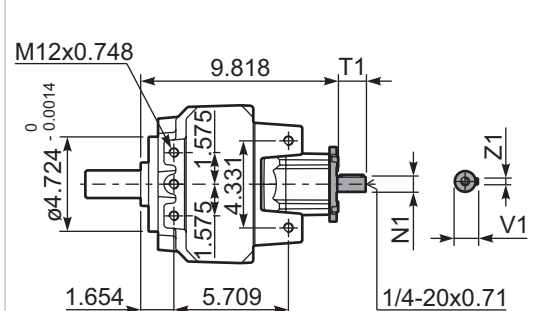
a1 ϕ	b1	c1	e1	f1	s1	kit code
7.874	5.118 ^{-0.0017} _{-0.0033}	0.433	6.496	0.138	0.433	KC70.9.012
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.157	0.551	KC70.9.013
-	-	-	-	-	-	-

With flange and feet only on request. Ask for compatibility

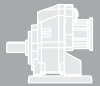
P703C-**N**... Basic gearbox
Riduttore base



R703C-**N**... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft standard ø1.625	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
218	8.02	10	2772	1.7	16.60	4602					3018	01
191	9.18	10	3175	1.6	16.45	5222					3016	02
164	10.68	10	3692	1.6	16.30	6019					3014	03
116	15.11	10	5224	1.3	13.13	6859					2018	04
101	17.30	10	5983	1.3	13.09	7833					2016	05
87	20.13	10	6959	1.1	11.45	7966					2014	06
75	23.39	10	8089	1.0	9.85	7966					1616	07
64	27.21	7.5	7056	1.1	8.47	7966					1614	08
58	30.42	7.5	7889	1.0	7.57	7966					1316	09
49.5	35.38	5	6117	1.3	6.51	7966					1314	10
47.0	37.24	5	6438	1.2	6.15	7921					1116	11
40.4	43.31	5	7488	1.1	5.32	7966					1114	12
37.2	47.02	3	4877	1.3	3.84	6240					818	13
32.5	53.85	3	5586	1.3	3.85	7169					816	14
27.9	62.63	3	6497	1.2	3.68	7966					814	15
23.6	74.16	2	5128	1.0	2.02	5178					616	16
20.3	86.25	2	5964	1.0	2.02	6019					614	17

The dynamic efficiency is 0.96 for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 802C 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 802C 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.

E El reductor tamaño 802C 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
112.62 oz	66.87 oz	66.87 oz	54.55 oz	112.62 oz	77.43 oz	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

$F_{eq} = FR \cdot \frac{3.17}{X+1.59}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	270	1349	140	360	1798	70	495	2473
250	315	1574	120	405	2023	40	585	2923
200	337	1686	85	450	2248	15	674	3372

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

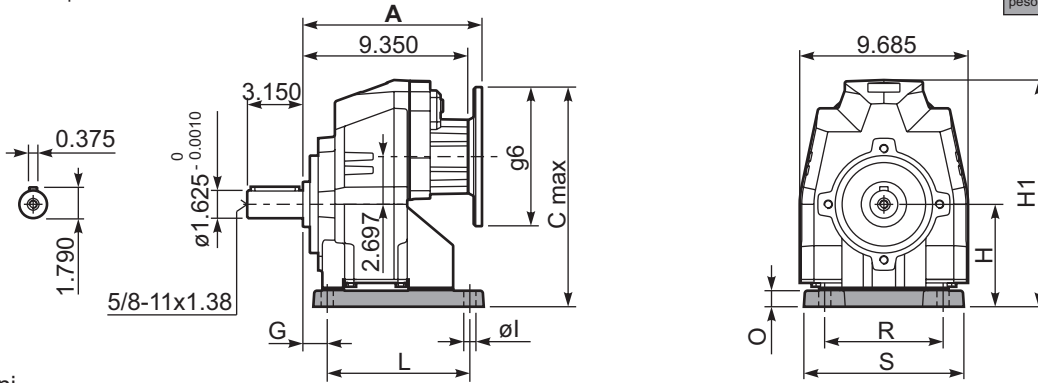
Input shaft
Albero in entrata

n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

P802C-S7 ... With feet
Con piedini

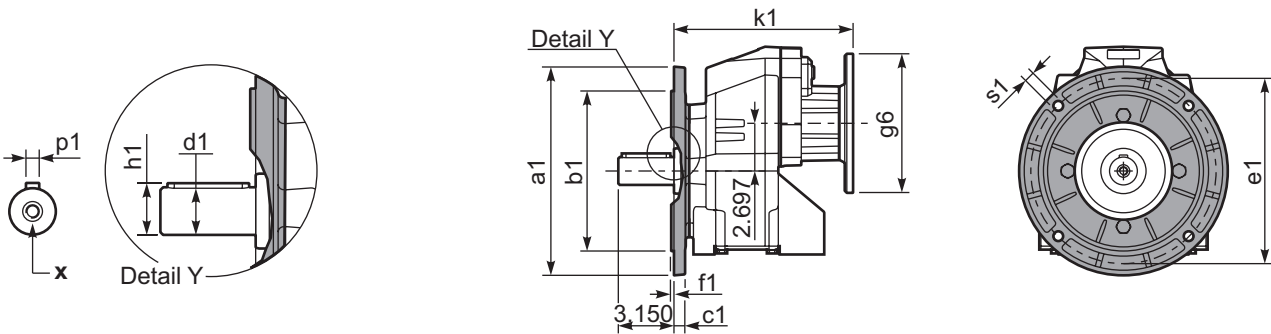
Gearbox weight With flange **87.0 lb**
peso riduttore With feet **96.0 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øI	B5 max. Flange	kit code
B5	512/3	0.984	6.102	8.858	6.142	10.630	13.130	1.181	0.709	-	KC80.9.022
S7	77	1.378	5.512	6.693	8.071	9.055	12.539	0.709	0.689	-	KC80.9.024
H6	026/263	1.575	6.890	8.465	8.465	10.433	13.917	1.181	0.630	-	KC80.9.023
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

P802C-F ... Output flanges
flange di uscita



Output shaft / Albero di uscita

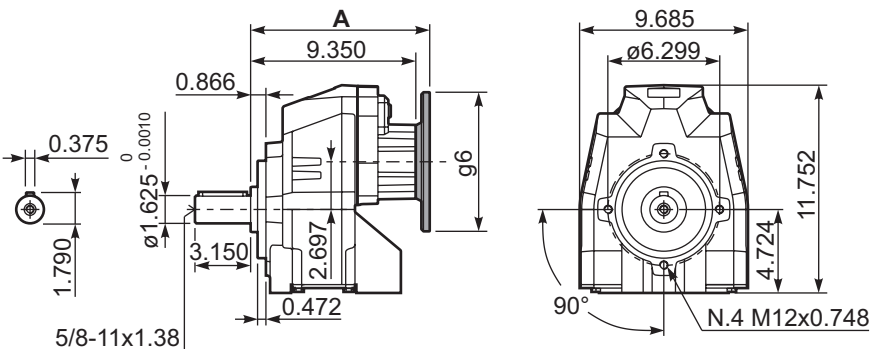
	Shaft - d1	p1	h1	x
Standard	ø 1.625	0.375	1.790	5/8-11x1.38

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.157	0.551	KC80.9.013
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.157	0.551	KC80.9.014
-	-	-	-	-	-	-

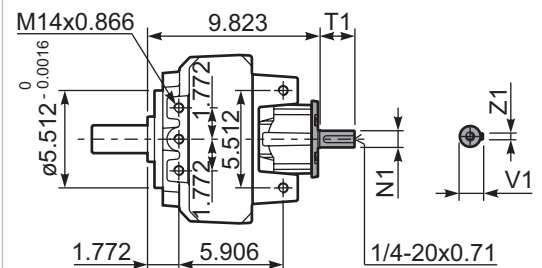
With flange and feet only on request. Ask for compatibility

P802C-N ... Basic gearbox
Riduttore base



Nema flange	A	C _{max}	g6	k1	kit code
56C-143/5TC	12.836	10.671	6.50	10.335	KUC085.4.041
182/4TC	11.039	14.027	8.88	11.039	KUC085.4.042
213/5TC	11.555	14.027	8.88	11.555	KUC50.4.041

R802C-N ... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC			
23.2	75.50	2	5112	1.4	2.86	7302					01
20.2	86.47	2	5855	1.4	2.72	7966					02
17.5	100.22	2	6786	1.2	2.35	7966					03
15.0	116.56	2	7893	1.0	2.02	7966					04
12.8	136.82	1.5	6948	1.1	1.72	7966					05
11.4	153.05	1.5	7773	0.9	1.38	7169					06
10.7	163.31	1.5	8294	1.0	1.44	7966					07
9.8	178.01	1.5	9040	0.9	1.32	7966					08
9.1	191.67	1	6489	1.2	1.23	7966					09
8.5	206.32	1	6985	1.1	1.14	7966					10
7.9	222.92	1	7547	1.1	1.06	7966					11
7.2	242.18	1	8199	1.0	0.97	7966					12
7.0	250.15	1	8469	0.9	0.94	7966					13
6.1	289.08	0.75	7340	1.1	0.81	7966					14
5.3	330.31	0.75	8387	0.9	0.70	7877					15
4.4	394.59	0.5	6680	1.2	0.60	7966					16
3.4	514.99	0.5	8718	0.9	0.46	7966					17
2.6	680.03	0.33	7598	1.0	0.35	7966					18

standard $\varnothing 1.625$

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

5

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

E Unit **803C** 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 **803C** 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.

E El reductor tamaño **803C** 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.

116.14 oz	66.87 oz	66.87 oz	54.55 oz	119.66 oz	80.95 oz	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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{3.17}{X+1.59}$

F_{eq} (lb)

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	270	1349	140	360	1798	70	495	2473
250	315	1574	120	405	2023	40	585	2923
200	337	1686	85	450	2248	15	674	3372

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

Input shaft
Albero in entrata

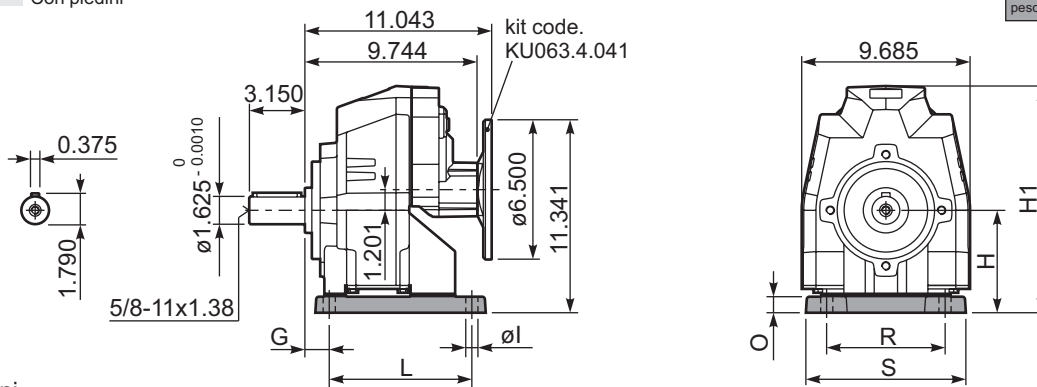
F_R (lb)
 F_A (lb)

n_1	FA	FR
1750	90	450
1140	99	495

tab. 2

P803C-S7 ... With feet
Con piedini

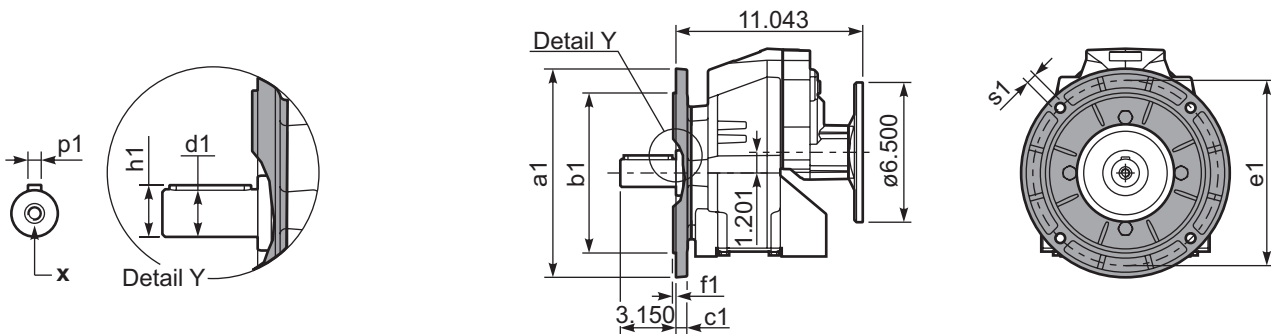
Gearbox weight With flange **87.0 lb**
peso riduttore With feet **96.0 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	B5 max. Flange	kit code
B5	512/3	0.984	6.102	8.858	6.142	10.630	13.130	1.181	0.709	-	KC80.9.022
S7	77	1.378	5.512	6.693	8.071	9.055	12.539	0.709	0.689	-	KC80.9.024
H6	026/263	1.575	6.890	8.465	8.465	10.433	13.917	1.181	0.630	-	KC80.9.023
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

P803C-F ... Output flanges
flange di uscita



Output shaft / Albero di uscita

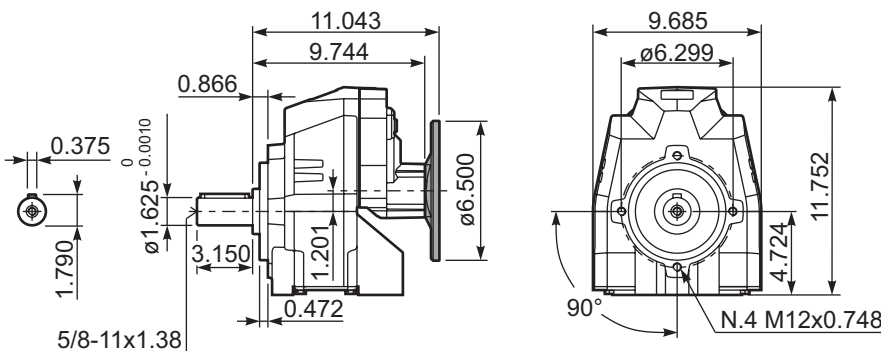
	Shaft - d1	p1	h1	x
Standard	ø 1.625	0.375	1.790	5/8-11x1.38

Available output flanges / flange di uscita

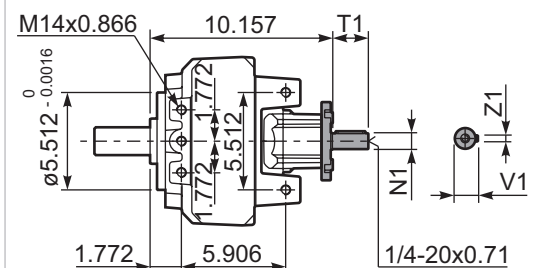
a1 ø	b1	c1	e1	f1	s1	kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.157	0.551	KC80.9.013
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.157	0.551	KC80.9.014
-	-	-	-	-	-	-

With flange and feet only on request. Ask for compatibility

P803C-N ... Basic gearbox
Riduttore base



R803C-N ... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft \varnothing	Ratios code
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
396	4.42	20	3057	2.0	40.54	6196				3015	01
330	5.30	20	3665	1.7	33.81	6196				3013	02
274	6.38	20	4413	1.6	32.09	7081				3011	03
210	8.33	20	5760	1.2	24.58	7081				2015	04
175	9.99	20	6907	1.2	23.06	7966				2013	05
155	11.26	20	7788	1.3	25.00	9736				1615	06
146	12.03	20	8317	1.3	25.54	10621				2011	07
130	13.50	20	9339	1.3	26.54	12391				1613	08
119	14.65	20	10128	1.3	26.22	13276				1315	09
108	16.26	20	11245	1.2	23.61	13276				1611	10
100	17.56	20	12145	1.1	21.86	13276				1313	11
81	21.50	20	14865	1.0	19.05	14161				1113	12
68	25.88	15	13425	1.1	15.82	14161				1111	13
56	31.09	10	10749	1.2	12.02	12922				813	14
46.8	37.43	10	12943	1.1	10.94	14161				811	15

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

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

5

EN Unit **852C** 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 **852C** 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.

E El reductor tamaño **852C** 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.

190.05 oz	126.70 oz	126.70 oz	98.55 oz	207.65 oz	147.82 oz	Ask
AGIP Blasias 460						

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

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{3.48}{X+1.52}$

$F_{eq} (lb)$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	405	2023	140	540	2698	70	674	3372
250	450	2248	120	585	2923	40	719	3597
200	495	2473	85	629	3147	15	899	4496

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

Input shaft
Albero in entrata

n_1	FA	FR
1750	157	787
1140	189	944

tab. 2

Coaxial - Gear 14161lb in **852C**

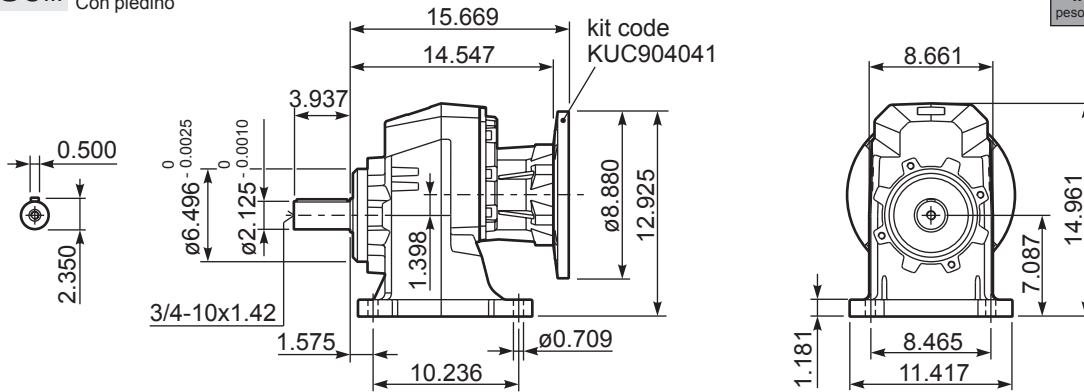
3D dimensions on the Web

P852C**S8**...

With foot
Con piedino

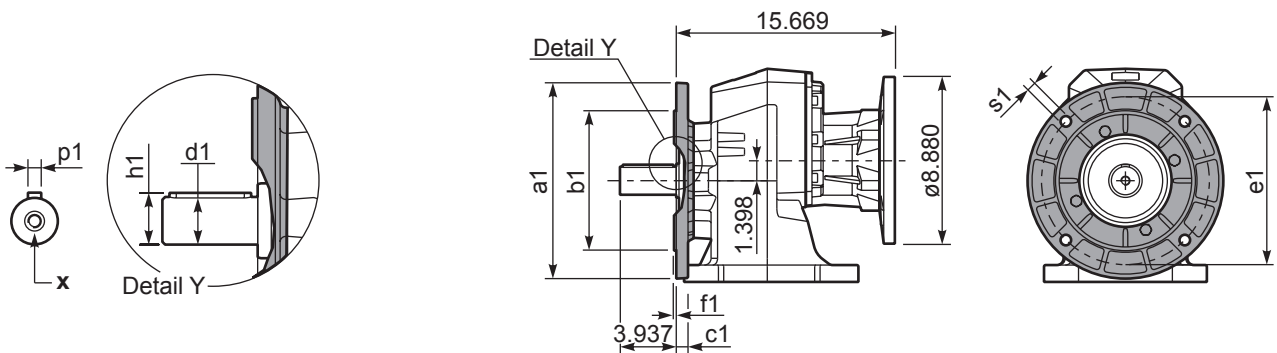
Gearbox weight
peso riduttore

With flange **86.0 lb**
With feet **169.0 lb**



P852C-**F**...

Output flanges
flange di uscita



*Available output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	Ø 2.125	0.500	2.350	3/4-10x1.42

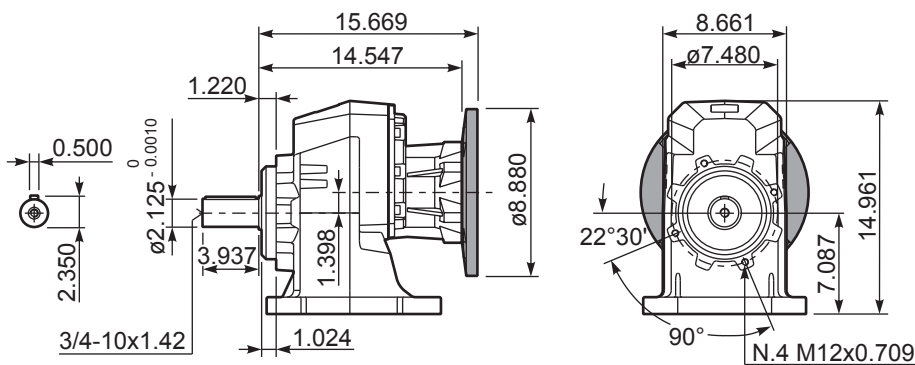
Available output flanges / flange di uscita

a1 Ø	b1	c1	e1	f1	s1	kit code
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015
-	-	-	-	-	-	-



P852C**S8**...

Basic gearbox
Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft standard ø2.125	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
40.7	43.03	10	14567	1.0	9.72	14161					201313	01
36.1	48.52	7.5	12319	1.1	8.35	13719					161315	02
33.8	51.81	7.5	13156	1.1	8.07	14161					201311	03
30.1	58.17	7.5	14772	1.0	7.19	14161					161313	04
27.7	63.09	7.5	16020	0.9	6.42	13719					131315	05
25.0	70.05	7.5	17787	0.9	6.72	15931					161311	06
23.1	75.65	5	12806	1.2	6.22	15931					131313	07
19.2	91.09	5	15420	1.0	5.17	15931					131311	08
15.7	111.50	3	11325	1.4	4.22	15931					111311	09
13.1	133.91	3	13601	1.2	3.51	15931					81313	10
10.9	161.24	3	16377	1.0	2.92	15931					81311	11
9.5	184.40	2	12486	1.0	2.06	12834					61313	12
7.9	222.04	2	15035	1.0	2.06	15489					61311	13

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

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

5

EN Unit **853C** 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 **853C** 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.

E El reductor tamaño **853C** 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
193.57 oz	133.74 oz	133.74 oz	112.62 oz	246.37 oz	161.90 oz	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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{3.48}{X+1.52}$
 F_{eq} (lb)

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	405	2023	140	540	2698	70	674	3372
250	450	2248	120	585	2923	40	719	3597
200	495	2473	85	629	3147	15	899	4496

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

Input shaft
Albero di entrata

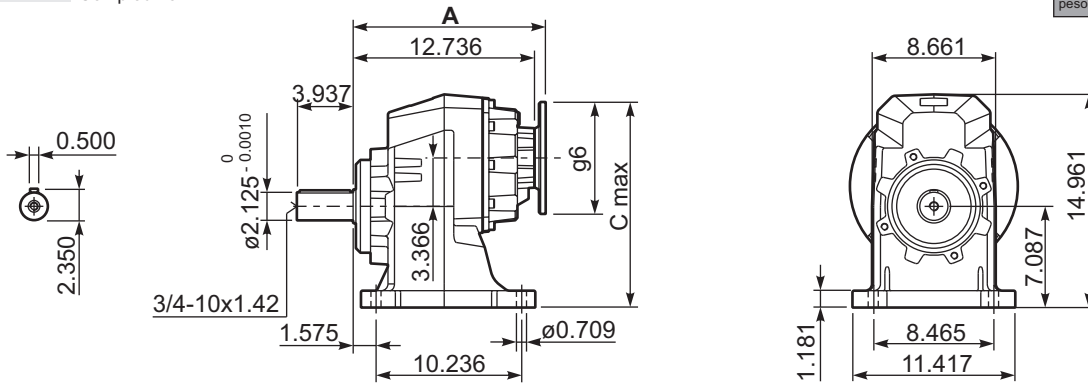
n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

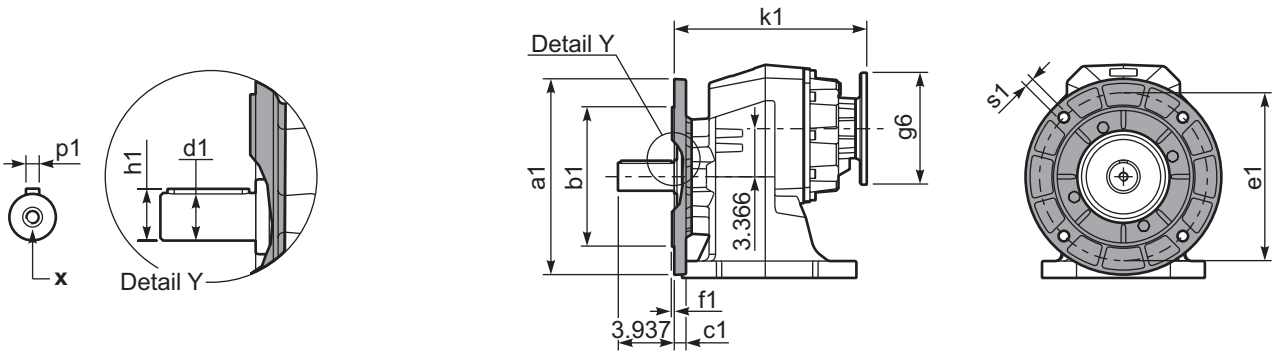
3D dimensions on the Web

P853C**S8**... With foot
Con piedino

Gearbox weight
peso riduttore With flange **177 lb**
With feet **156 lb**



P853C-**F**... Output flanges
flange di uscita



Output shaft / Albero di uscita

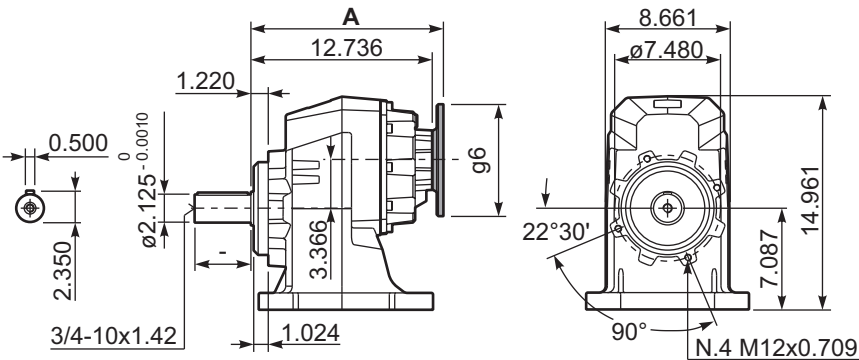
	Shaft - d1	p1	h1	x
Standard	$\varnothing 2.125$	0.500	2.350	3/4-10x1.42

Available output flanges / flange di uscita

a1 \varnothing	b1	c1	e1	f1	s1	kit code
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015
-	-	-	-	-	-	-

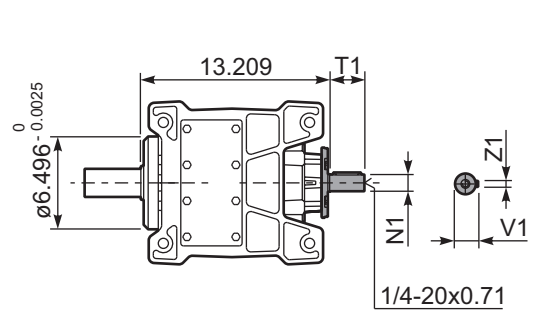
All flanges are compatible with the foot

P853C**S8**... Basic gearbox
Riduttore base



Nema flange	A	C _{max}	g6	k1	kit code
56C-143/5TC	13.720	13.703	6.50	13.720	KUC085.4.041
182/4TC	14.425	14.894	8.88	14.425	KUC085.4.042
213/5TC	14.941	14.894	8.88	14.941	KUC50.4.041

R853C**S8**... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft standard ø2.125	Ratios code
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
293	5.98	20	4135	2.1	42.81	8851				3015	01
246	7.10	20	4910	2.1	42.36	10400				3013	02
203	8.63	20	5966	2.0	40.06	11949				3011	03
155	11.27	20	7794	1.7	34.07	13276				2015	04
131	13.38	20	9253	1.6	32.52	15046				2013	05
115	15.24	20	10537	1.6	31.92	16816				1615	06
108	16.26	20	11244	1.7	33.06	18587				2011	07
97	18.09	20	12511	1.5	29.71	18587				1613	08
88	19.82	20	13703	1.3	26.61	18233				1315	09
80	21.98	20	15202	1.2	24.45	18587				1611	10
74	23.53	20	16269	1.1	22.85	18587				1313	11
72	24.25	20	16773	1.0	20.47	17170				1115	12
61	28.80	20	19914	0.9	18.67	18587				1113	13
50	34.99	15	18148	1.0	15.36	18587				1111	14
42.0	41.64	10	14399	1.2	12.05	17347				813	15
34.6	50.60	10	17469	1.1	10.62	18587				811	16

The dynamic efficiency is 0.96 for all ratios

A) Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 902C 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 902C 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.

E El reductor tamaño 902C 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
207.65 oz	133.74 oz	133.74 oz	119.66 oz	235.81 oz	154.86 oz	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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{3.48}{X+1.52}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	465	2327	140	620	3102	70	776	3878
250	517	2585	120	672	3361	40	827	4136
200	569	2844	85	724	3619	15	1034	5171

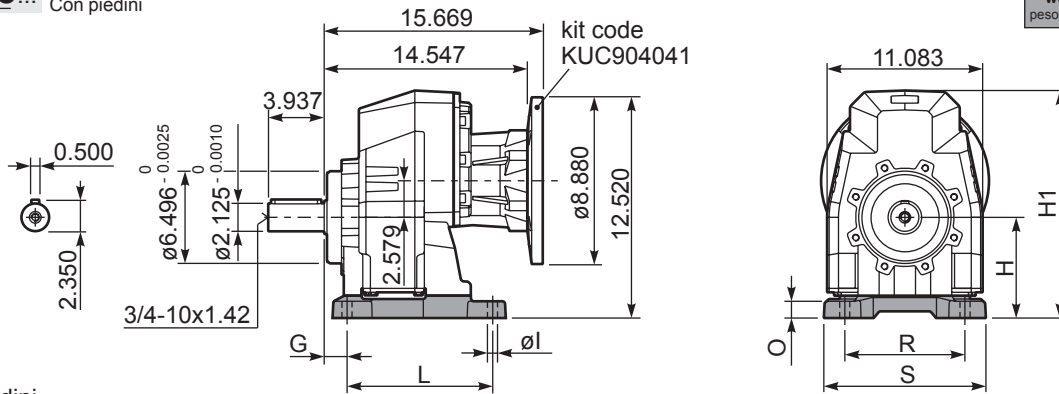
On request reinforced bearings to increase loads.
A richiesta cuscinetti rinforzati per aumentare i carichi.

tab. 2

3D dimensions on the Web

P902C-S8... With feet
Con piedini

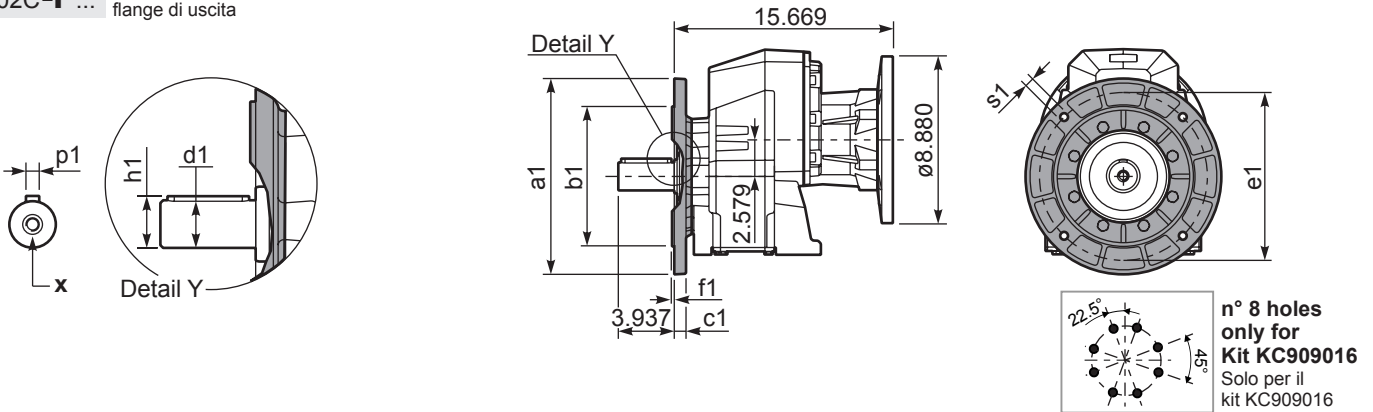
Gearbox weight
peso riduttore With flange **217 lb**
With feet **236 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	B5 max. Flange	kit code
B6	612/3	0.984	7.677	9.843	7.087	11.811	16.614	0.984	0.709	-	KC90.9.022
B7	702/3	0.984	8.268	11.811	6.496	13.780	17.205	1.181	0.866	-	KC90.9.027
S8	87	1.575	7.087	8.465	10.236	11.417	16.024	1.181	0.709	-	KC90.9.024
S9	97	1.575	8.858	9.843	12.205	13.386	17.795	1.772	0.866	-	KC90.9.026
H7	027/273	1.575	8.858	9.843	9.646	11.811	17.795	2.165	0.866	-	KC90.9.023
HS	-	1.575	6.890	8.465	10.236	11.417	15.827	0.984	0.709	-	KC90.9.025

P902C-F... Output flanges
flange di uscita



Output shaft / Albero di uscita

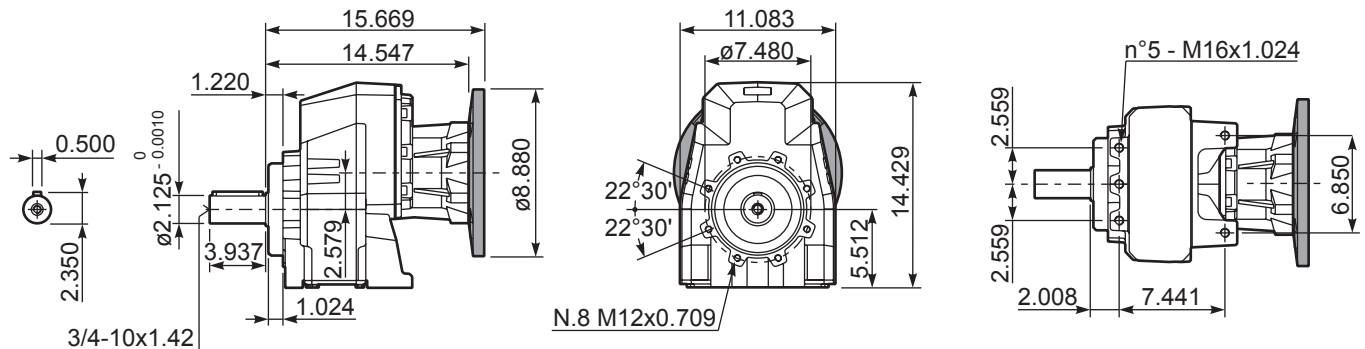
	Shaft - d1	p1	h1	x
Standard	ø 2.125	0.500	2.350	3/4-10x1.42

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC90.9.016

With flange and feet only on request. Ask for compatibility.

P902C-N... Basic gearbox
Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft standard ø2.125	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
36.0	48.55	10	16436	1.1	11.31	18587					201315	01
30.4	57.64	10	19515	1.0	9.52	18587					201313	02
26.7	65.64	7.5	16667	1.1	8.36	18587					161315	03
25.0	70.04	7.5	17784	1.0	7.84	18587					201311	04
22.5	77.93	7.5	19789	0.9	7.04	18587					161313	05
20.5	85.36	7.5	21674	0.9	6.43	18587					131315	06
18.5	94.70	5	16030	1.2	5.80	18587					161311	07
17.3	101.35	5	17156	1.1	5.42	18587					131313	08
14.2	123.15	5	20846	0.9	4.46	18587					131311	09
11.6	150.73	3	15310	1.2	3.64	18587					111311	10
9.8	179.39	3	18220	1.0	3.06	18587					81313	11
8.0	217.98	2	14760	1.3	2.52	18587					81311	12
7.1	247.03	2	16727	1.0	2.06	17259					61313	13
5.8	300.17	1.5	15244	1.2	1.83	18587					61311	14

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

5

EN Unit 903C 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 903C 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.

E El reductor tamaño 903C 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.

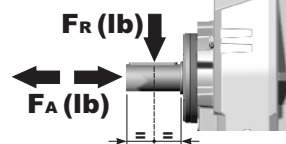
B3	B6	B7	B8	V5	V6	V8
211.17 oz	144.30 oz	144.30 oz	130.22 oz	256.92 oz	172.46 oz	Ask

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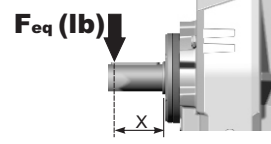
For all details on lubrication and plugs check our website [tab. 1](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



$$F_{eq} = FR \cdot \frac{3.48}{X+1.52}$$

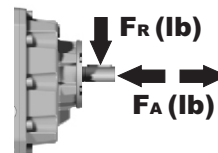


n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	465	2327	140	620	3102	70	776	3878
250	517	2585	120	672	3361	40	827	4136
200	569	2844	85	724	3619	15	1034	5171

On request reinforced bearings to increase loads.

A richiesta cuscinetti rinforzati per aumentare i carichi.

Input shaft
Albero in entrata



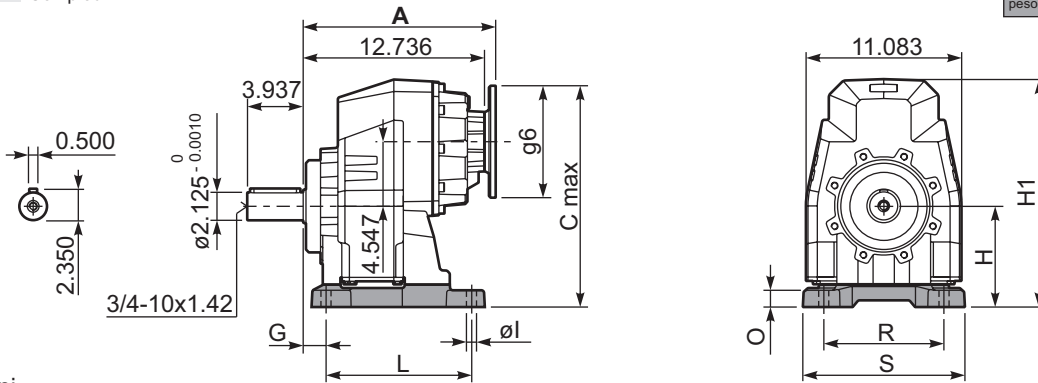
n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

3D dimensions on the Web

P903C**S8**... With feet
Con piedini

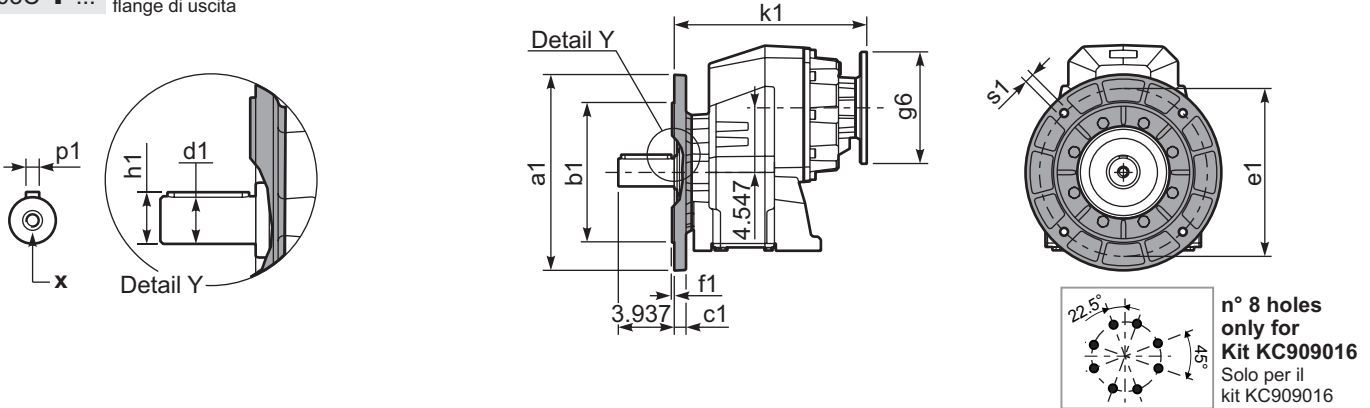
Gearbox weight
peso riduttore With flange **189 lb**
With feet **208 lb**



Feet / piedini

Feet Code	Market reference	G	H	R	L	S	H1	O	øl	B5 max. Flange	kit code
B6	612/3	0.984	7.677	9.843	7.087	11.811	16.614	0.984	0.709	-	KC90.9.022
B7	702/3	0.984	8.268	11.811	6.496	13.780	17.205	1.181	0.866	-	KC90.9.027
S8	87	1.575	7.087	8.465	10.236	11.417	16.024	1.181	0.709	-	KC90.9.024
S9	97	1.575	8.858	9.843	12.205	13.386	17.795	1.772	0.866	-	KC90.9.026
H7	027/273	1.575	8.858	9.843	9.646	11.811	17.795	2.165	0.866	-	KC90.9.023
HS	-	1.575	6.890	8.465	10.236	11.417	15.827	0.984	0.709	-	KC90.9.025

P903C-**F**... Output flanges
flange di uscita



Output shaft / Albero di uscita

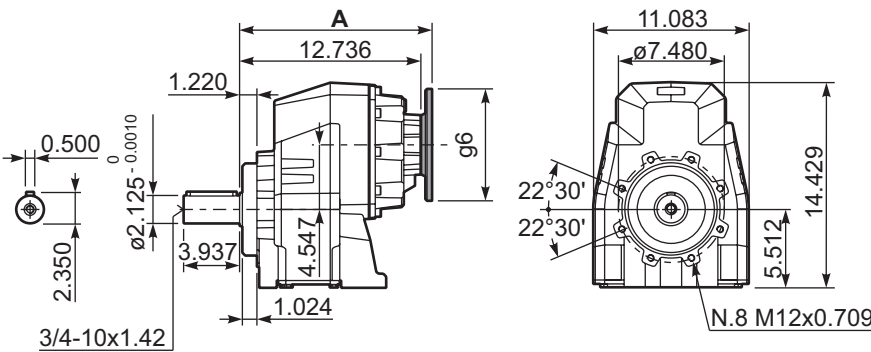
	Shaft - d1	p1	h1	x
Standard	ø 2.125	0.500	2.350	3/4-10x1.42

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC90.9.016

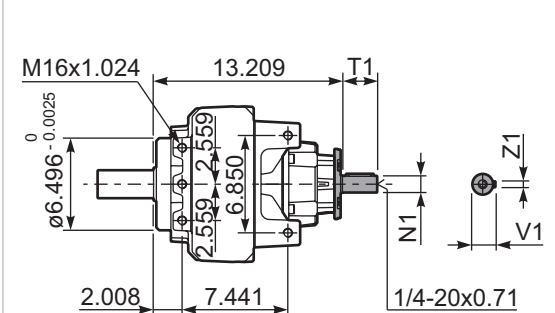
With flange and feet only on request. Ask for compatibility

P903C-**N**... Basic gearbox
Riduttore base

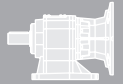


Nema flange	A	C _{max}	g6	k1	kit code
56C-143/5TC	13.720	13.309	6.50	13.720	KUC085.4.041
182/4TC	14.425	14.500	8.88	14.425	KUC085.4.042
213/5TC	14.941	14.894	8.88	14.941	KUC50.4.041

R903C-**N**... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							AC	AD			
							284/6 TC	324/6 TC			
368	4.75	50	8220	1.8	88.83	14604			3914		01
336	5.21	50	9002	1.7	86.03	15489			3913		02
275	6.36	50	10994	1.5	76.48	16816			3911		03
235	7.45	50	12872	1.4	72.20	18587			3014		04
215	8.15	50	14097	1.3	65.93	18587			3013		05
176	9.96	50	17215	1.1	56.55	19472			3011		06
150	11.69	50	20201	1.0	50.38	20357			2214		07
137	12.80	40	17699	1.2	46.01	20357			2213		08
112	15.63	40	21615	1.0	39.31	21242			2211	standard ø2.375	09
99	17.65	40	24407	0.9	37.71	23012			1614		10
91	19.33	40	26730	1.0	38.41	25667			1613		11
84	20.77	30	21545	1.2	35.74	25667			1414		12
77	22.75	30	23596	1.1	32.63	25667			1413		13
74	23.60	30	24483	1.0	31.45	25667			1611		14
63	27.78	25	24013	1.1	26.72	25667			1411		15
57	30.76	25	26593	1.0	24.13	25667			1014		16
52	33.69	25	29124	0.9	22.03	25667			1013		17
42.5	41.15	25*	35567	0.7	18.04	25667			1011		18

The dynamic efficiency is 0.96 for all ratios * 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}

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 1002 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 1002 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.

E El reductor tamaño 1002 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, 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
158.4 oz	281.6 oz	193.6 oz	211.2 oz	352.0 oz	264.0 oz	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

$F_{eq} = F_R \cdot \frac{4.84}{X+2.48}$

F_R (lb)
 F_A (lb)

F_{eq} (lb)
X

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	517	2585	140	670	3350	70	823	4114
250	557	2788	120	715	3574	40	949	4743
200	602	3012	85	773	3867	15	1083	5418

Input shaft
Albero in entrata

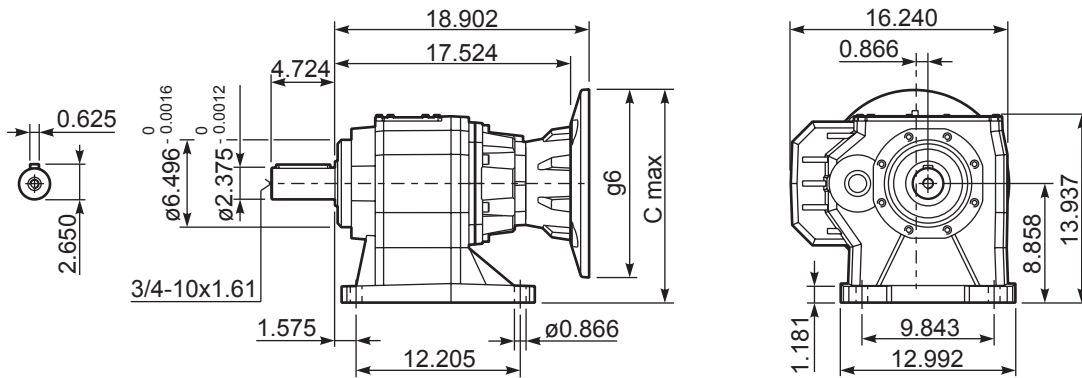
n_1	FA	FR
1750	252	1259
1140	274	1371

tab. 2

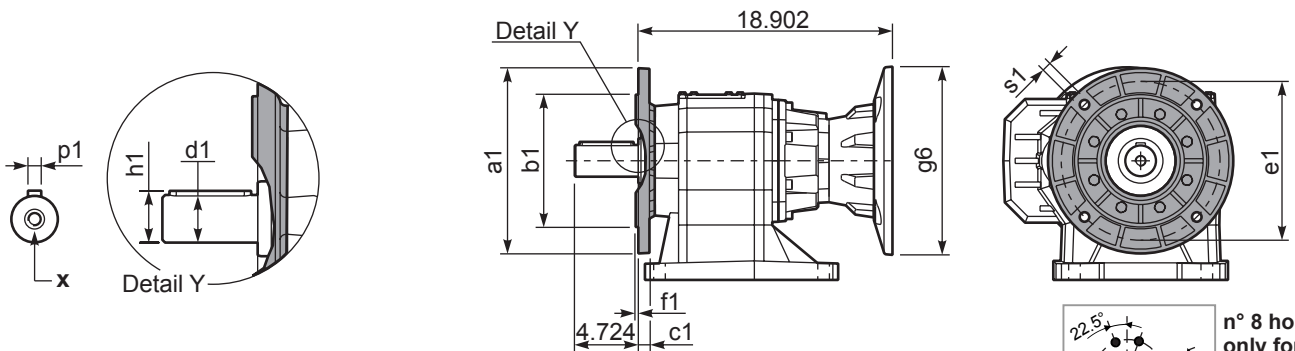
3D dimensions on the Web

P1002**S9**... With foot
Con piedino

Gearbox weight
peso riduttore **269 lb**



P1002-**F**... Output flanges
flange di uscita



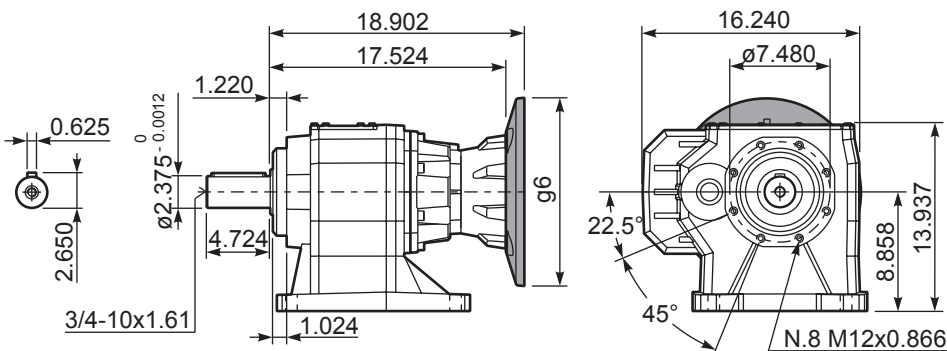
Output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	$\varnothing 2.375$	0.625	2.650	3/4-10x1.61

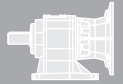
Available output flanges / flange di uscita

a1 \varnothing	b1	c1	e1	f1	s1	kit code	
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014	 All flanges are compatible with the foot
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015	
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC90.9.016	

P1002**S9**... Basic gearbox
Riduttore base



NEMA Motor Flanges	C _{max}	g6	kit code
284/6 TC	14.488	11.250	UC1104042
324/6 TC	15.866	14.000	UC1104043



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Output Shaft Ratios code	
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
48.5	36.11	20	24453	1.0	20.99	25667				301411	01
34.4	50.89	15	25843	1.0	15.41	26552				201414	02
31.4	55.73	15	28302	0.9	14.07	26552				201413	03
25.4	68.80	10	23294	1.1	11.40	26552				161414	04
23.2	75.35	10	25511	1.0	10.41	26552				161413	05
19.6	89.47	10	30292	0.9	8.77	26552				131414	06
19.0	92.02	7.5	23365	1.1	8.52	26552				161411	07
17.9	97.99	7.5	24881	1.1	8.00	26552				131413	08
16.0	109.52	7.5	27809	1.0	7.16	26552				111414	09
14.6	119.94	5	20304	1.3	6.54	26552				111413	10
11.9	146.47	5	24795	1.1	5.35	26552				111411	11
11.0	158.37	5	26810	1.0	4.95	26552				81414	12
10.1	173.45	5	29361	0.9	4.52	26552				81413	13
8.3	211.82	3	21514	1.2	3.70	26552				81411	14

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

5

EN Unit **1003** 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 **1003** 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.

E El reductor tamaño **1003** 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
176.0 oz	316.8 oz	228.8 oz	228.8 oz	387.1 oz	316.8 oz	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 (lb) ↓
 F_A (lb) ←

$F_{eq} = F_R \cdot \frac{4.84}{X+2.48}$

F_{eq} (lb) ↓

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	517	2585	140	670	3350	70	823	4114
250	557	2788	120	715	3574	40	949	4743
200	602	3012	85	773	3867	15	1084	5418

Input shaft
Albero in entrata

F_R (lb) ↓
 F_A (lb) ←

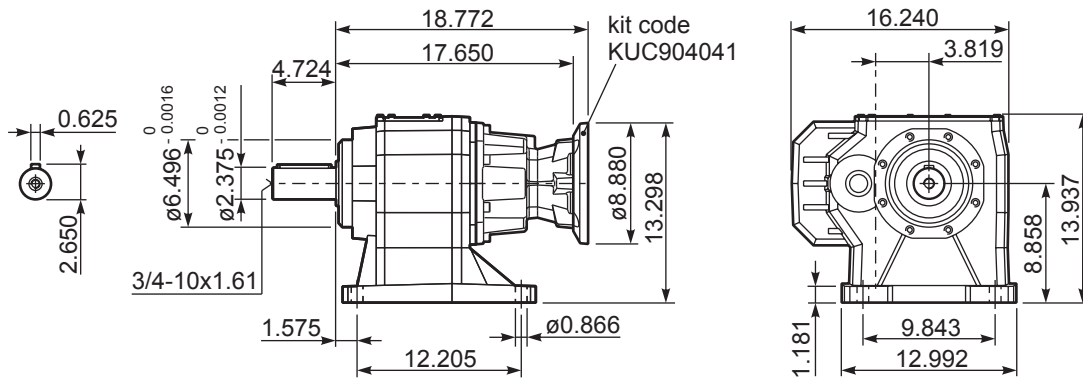
n ₁	FA	FR
1750	157	787
1140	189	944

tab. 2

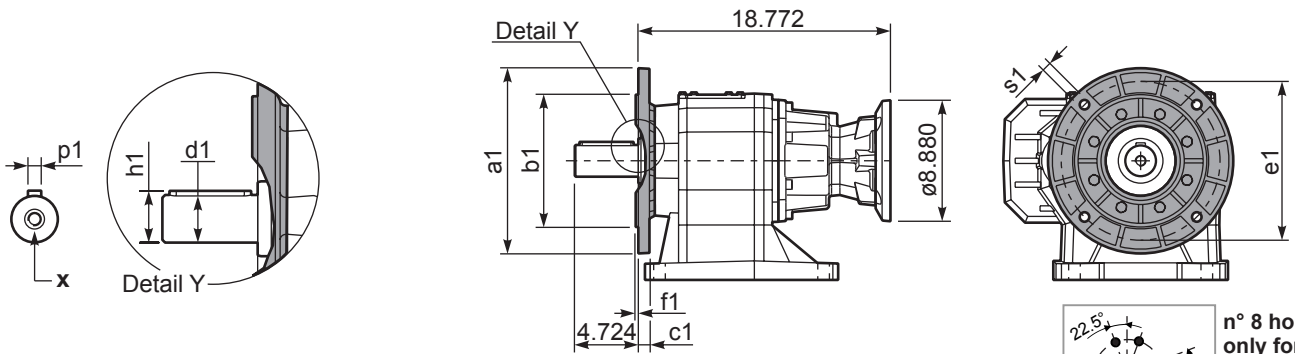
3D dimensions on the Web

P1003**S9**... With foot
 Con piedino

Gearbox weight
 peso riduttore **246 lb**



P1003-**F**... Output flanges
 flange di uscita



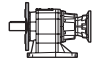
Output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø 2.375	0.625	2.650	3/4-10x1.61

Available output flanges / flange di uscita

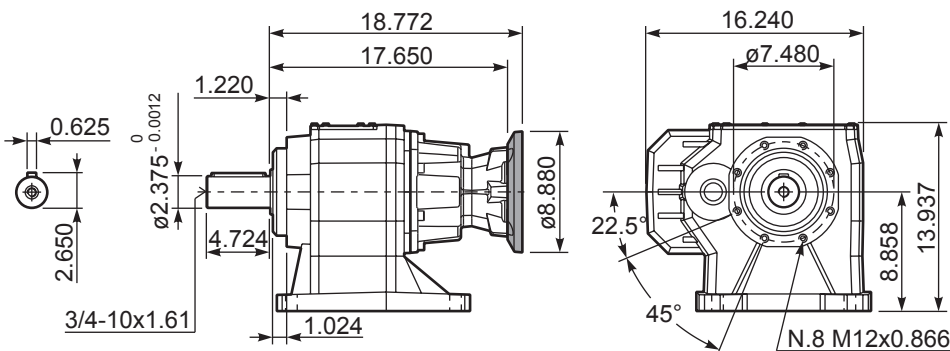
a1 ø	b1	c1	e1	f1	s1	kit code
11.811	9.055 ^{-0.0020} _{-0.0038}	0.827	10.433	0.157	0.551	KC90.9.014
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC90.9.015
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC90.9.016

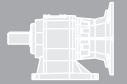
n° 8 holes
 only for
Kit KC909016
 Solo per il
 kit KC909016



All flanges are compatible with the foot

P1003**S9**... Basic gearbox
 Riduttore base





QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft standard ø2.875	Ratios code
							AC	AD		
							284/6 TC	324/6 TC		
368	4.75	50	8820	2.9	145.36	23897			3914	01
336	5.21	50	9002	2.8	137.65	24782			3913	02
275	6.36	50	10994	2.4	120.76	26552			3911	03
235	7.45	50	12872	2.3	113.46	29207			3014	04
215	8.15	50	14097	2.1	106.74	30093			3013	05
176	9.96	50	17215	1.9	92.54	31863			3011	06
150	11.69	50	20201	1.7	83.24	33633			2214	07
137	12.80	50	22124	1.6	80.01	35403			2213	08
112	15.63	50	27018	1.4	70.43	38058			2211	09
99	17.65	50	30509	1.3	65.27	39828			1614	10
91	19.33	50	33413	1.2	59.60	39828			1613	11
84	20.77	50	35908	1.1	55.46	39828			1414	12
77	22.75	50	39326	1.0	50.64	39828			1413	13
74	23.60	40	32643	1.2	48.80	39828			1611	14
63	27.78	40	38420	1.0	41.47	39828			1411	15
57	30.76	30	31912	1.2	37.44	39828			1014	16
52	33.69	30	34949	1.1	34.19	39828			1013	17
42.5	41.15	25	35567	1.1	28.00	39828			1011	18

The dynamic efficiency is 0.96 for all ratios

Motor Flanges Available
Flange Motore Disponibili

Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 1102 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 1102 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.

E El reductor tamaño 1102 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.

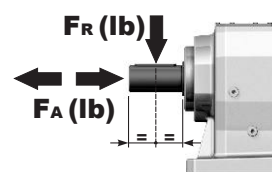
B3	B6	B7	B8	V5	V6	V8
228.8 oz	439.9 oz	264.0 oz	299.2 oz	510.3 oz	404.7 oz	Ask

AGIP Blasias 460

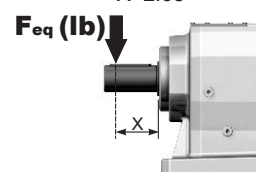
For all details on lubrication and plugs check our website tab. 1
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

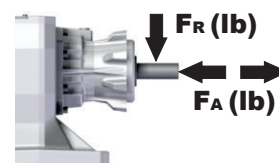


$$F_{eq} = F_R \cdot \frac{5.43}{X+2.68}$$



n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	584	2922	140	742	3709	70	967	4833
250	607	3035	120	787	3934	40	1124	5620
200	674	3372	85	877	4384	15	1326	6632

Input shaft
Albero in entrata



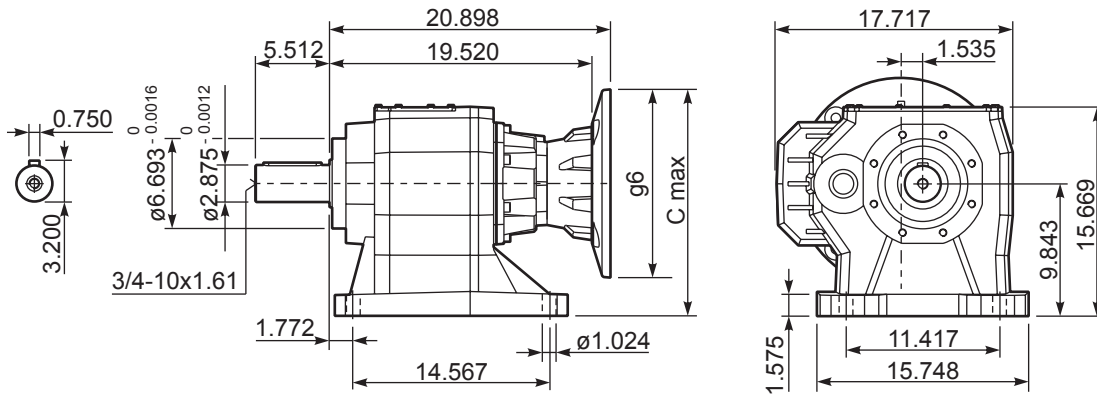
n ₁	FA	FR
1750	252	1258
1140	274	1371

tab. 2

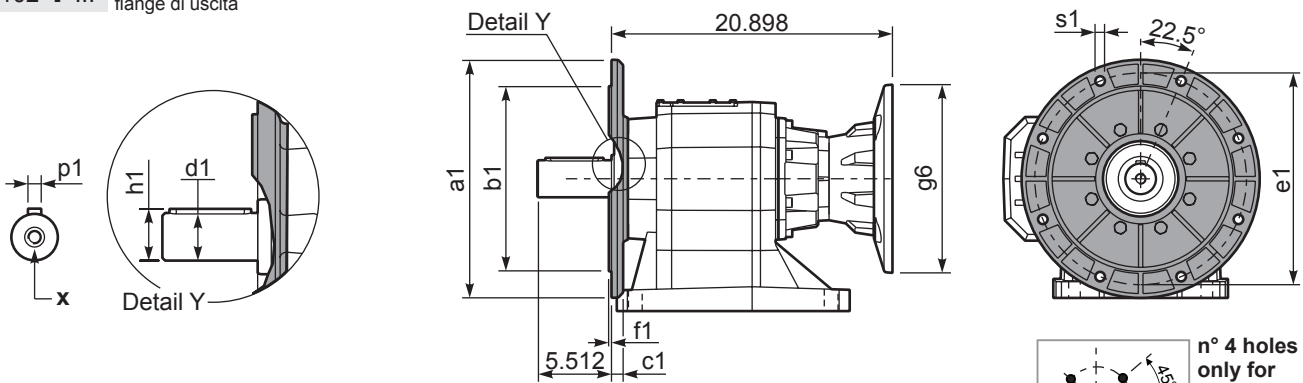
3D dimensions on the Web

P1102**S0**... With foot
 Con piedino

Gearbox weight
 peso riduttore **359 lb**



P1102-**F**... Output flanges
 flange di uscita



Output shaft / Albero di uscita

	Shaft - d1	p1	h1	x
Standard	ø 2.875	0.750	3.200	3/4-10x1.61

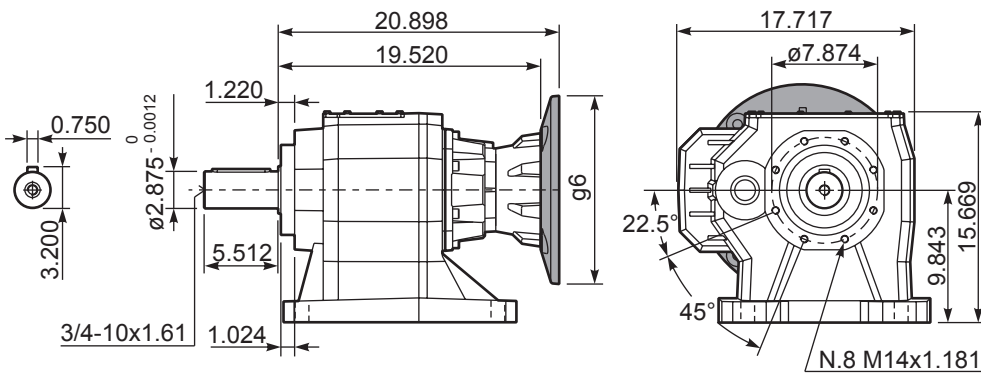
Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1	s1	kit code
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC110.9.015
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC110.9.016
-	-	-	-	-	-	-

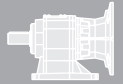
n° 4 holes
 only for
 Kit KC1109015
 Solo per il
 kit KC1109015

All flanges are compatible with the foot

P1102**S0**... Basic gearbox
 Riduttore base



NEMA Motor Flanges	C _{max}	g6	kit code
284/6 TC	15.469	11.250	UC1104042
324/6 TC	16.843	14.000	UC1104043



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor $f.s.$	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft \varnothing Ratios code	
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
48.5	36.11	30	36679	1.1	32.58	39828				301411	01
34.4	50.89	25	43071	0.9	23.63	40713				201414	02
31.4	55.73	20	37737	1.1	21.58	40713				201413	03
25.4	68.80	15	34941	1.2	17.48	40713				161414	04
23.2	75.35	15	38266	1.1	15.96	40713				161413	05
19.6	89.47	15	45438	0.9	13.44	40713				131414	06
19.0	92.02	10	31154	1.3	12.78	39828				161411	07
17.9	97.99	10	33175	1.2	12.27	40713				131413	08
16.0	109.52	10	37078	1.1	10.98	40713				111414	09
14.6	119.94	10	40607	1.0	10.03	40713				111413	10
11.9	146.47	7.5	37192	1.1	8.03	39828				111411	11
11.0	158.37	7.5	40215	1.0	7.59	40713				81414	12
10.1	173.45	7.5	44042	0.9	6.93	40713				81413	13
8.3	211.82	5	35856	1.1	5.55	39828				81411	14

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 1103 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 1103 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.

E El reductor tamaño 1103 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
246.4 oz	457.5 oz	281.6 oz	316.8 oz	563.1 oz	475.1 oz	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

$F_{eq} = FR \cdot \frac{5.43}{X+2.68}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	584	2922	140	742	3709	70	967	4833
250	607	3035	120	787	3934	40	1124	5620
200	674	3372	85	877	4384	15	1326	6632

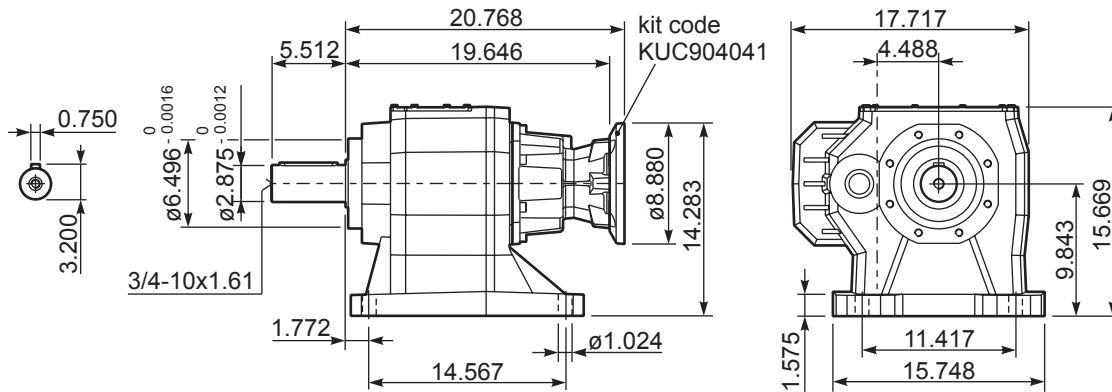
Input shaft
Albero in entrata

n_1	FA	FR
1750	157	787
1140	189	944

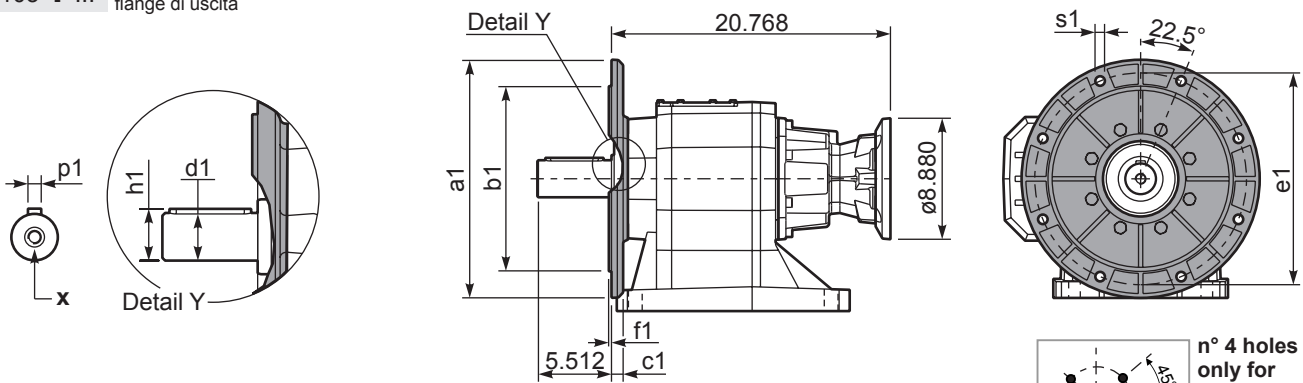
tab. 2

P1103**S0**... With foot
Con piedino

Gearbox weight
peso riduttore **364 lb**



P1103-**F**... Output flanges
flange di uscita



n° 4 holes
only for
Kit KC1109015
Solo per il
kit KC1109015

Output shaft / Albero di uscita

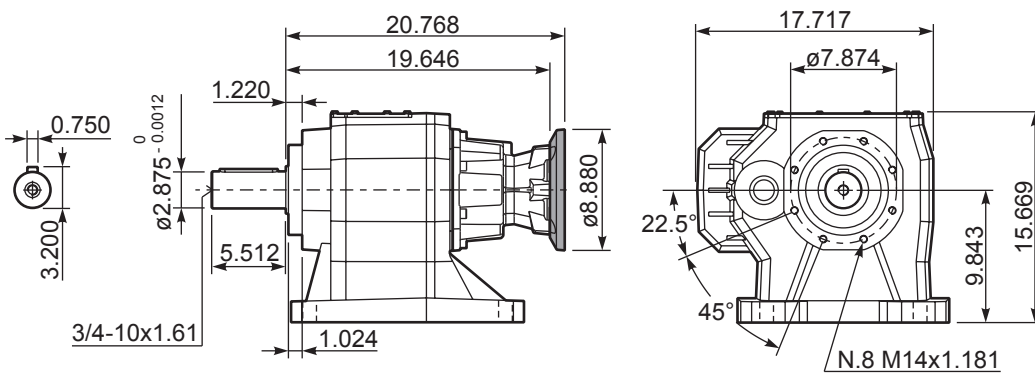
	Shaft - d1	p1	h1	x
Standard	ø 2.875	0.750	3.200	3/4-10x1.61

Available output flanges / flange di uscita

a1 ø	b1	c1	e1	f1		
13.780	9.843 ^{-0.0020} _{-0.0038}	0.827	11.811	0.197	0.709	KC110.9.015
17.717	13.780 ^{-0.0024} _{-0.0047}	0.866	15.748	0.197	0.709	KC110.9.016
-	-	-	-	-	-	-

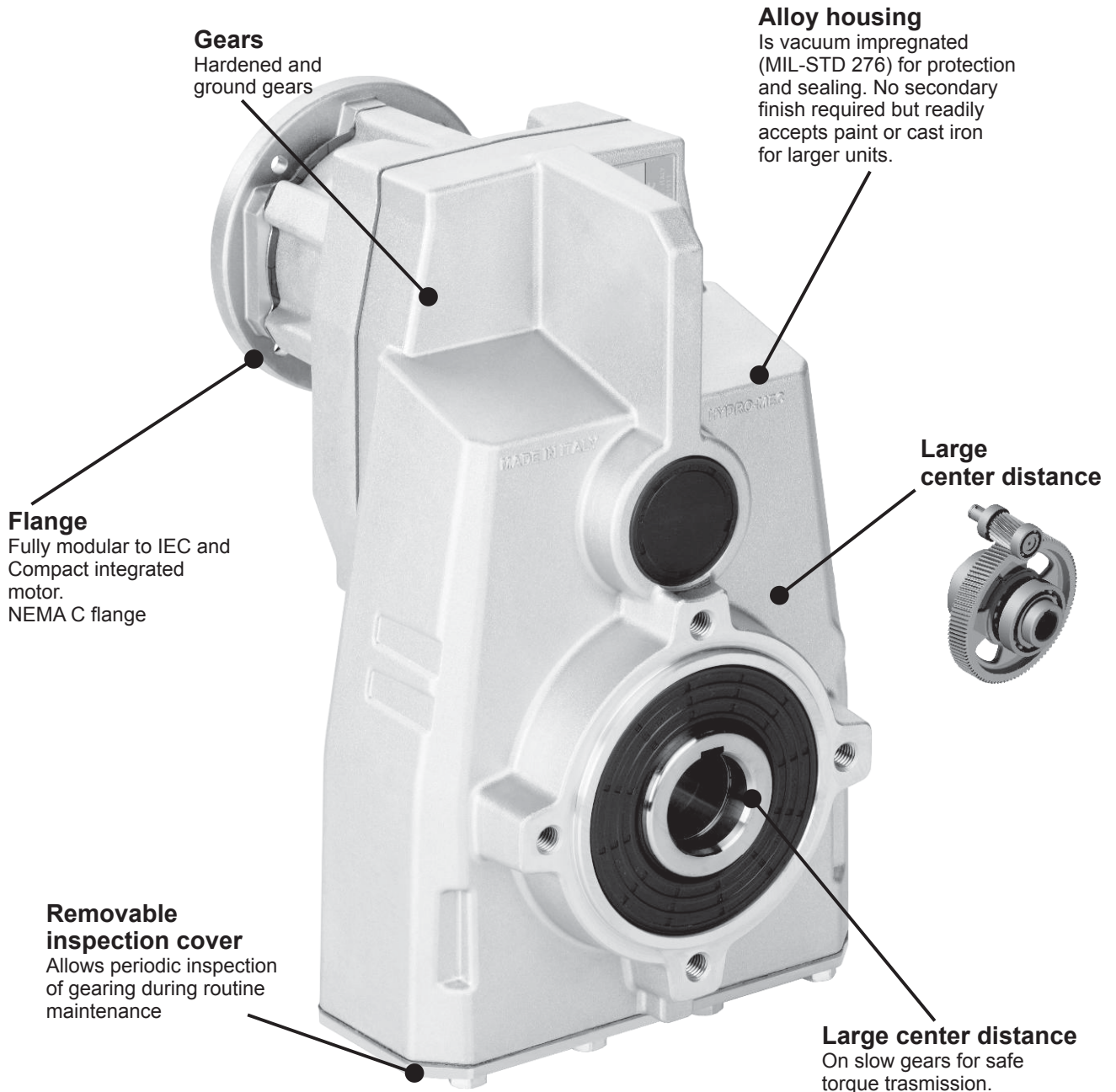
All flanges are compatible with the foot

P1103**S0**... Basic gearbox
Riduttore base



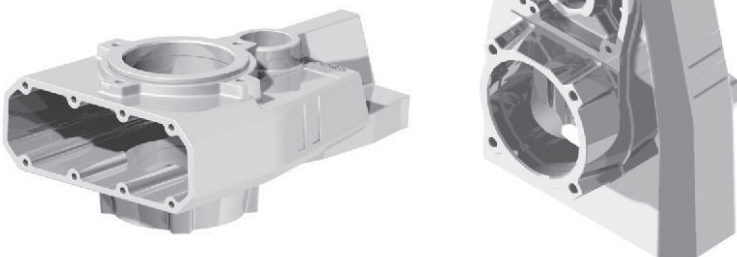
Aluminum & cast iron shaft mounted gearboxes

A modular and compact product



Single-piece aluminum / Cast Iron housing

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

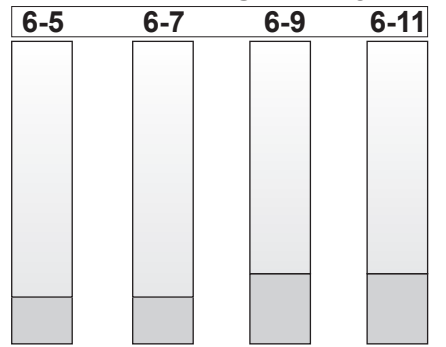


World wide sales network.

Specific type datasheet on page...

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

2 and 3 Stage

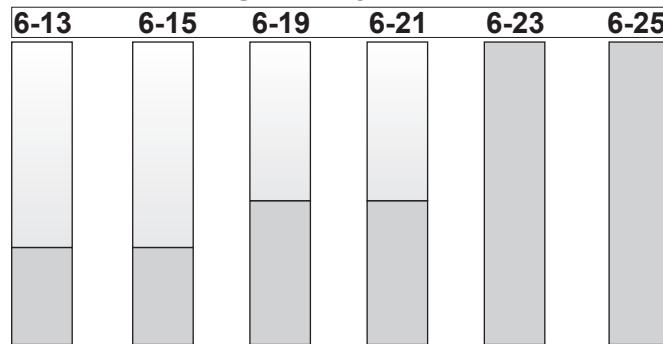


Types / Tipi / Tipos →

FA42 2832lb in	FA43 2832lb in	FA52 4337lb in	FA53 4514lb in
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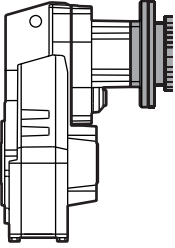
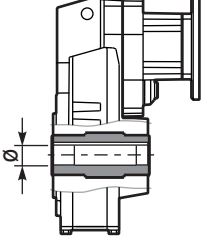
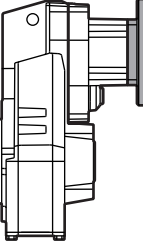
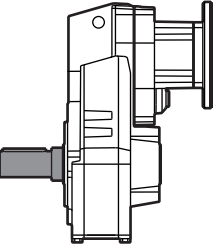
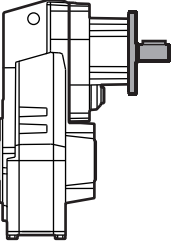
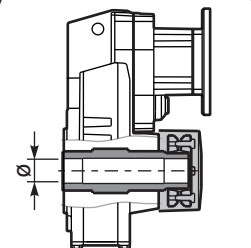
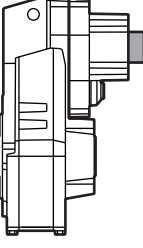
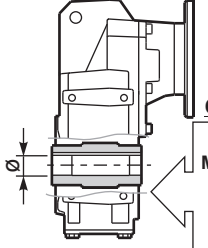
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2 and 3 Stage

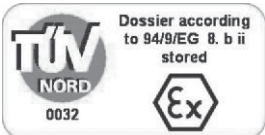


Types / Tipi / Tipos →

FC62 5974lb in	FC63 5974lb in	FC72 7966lb in	FC73 7966lb in	FC82 18587lb in	FC83 18587lb in
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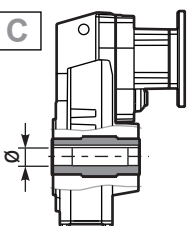
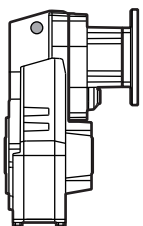
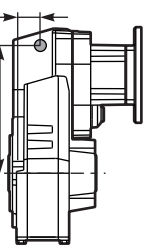
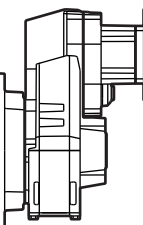
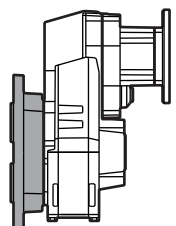







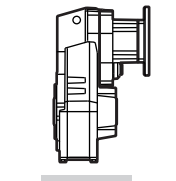
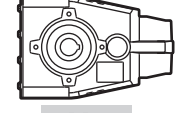
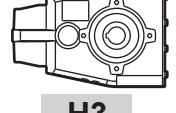
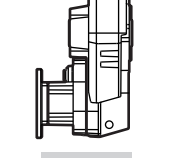
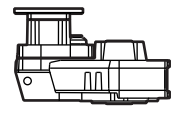
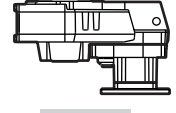
Type - Tipo - Typ	Size - Grandezza - Tomaño	Mounting - Montaggio Tipo de montaje	Rapporto - Ratio Relacion
M	FA42	C	10.04
<p>Shaft mounted helical Riduttori ad assi paralleli</p>  <p>With IEC motor</p> <p style="text-align: center;">M</p>	<p>2 Stages Riduzioni Etapas</p> <p>3 Stages Riduzioni Etapas</p> <p style="text-align: center;">Aluminum / Alluminio Aluminio</p> <p style="text-align: center;">FA42 FA52</p> <p style="text-align: center;">FA43 FA53</p>	 <p>Hollow output shaft</p> <p style="text-align: center;">C</p>	<p>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>
 <p>With motor flange</p> <p style="text-align: center;">P</p>	<p style="text-align: center;">Cast Iron / Ghisa Fundicion</p> <p style="text-align: center;">FC62 FC72 FC82</p>	 <p>Single output shaft</p> <p style="text-align: center;">A</p>	
 <p>With male input shaft</p> <p style="text-align: center;">R</p>	<p style="text-align: center;">FC63 FC73 FC83</p>	 <p>Shrink Disk</p> <p style="text-align: center;">D</p> <p>Only on request for Q.ty A richiesta per quantità</p>	
 <p>Modular base</p> <p style="text-align: center;">B</p>		 <p>Stainless steel hub Mozzo in acciaio Inox Edelstahlhohlwelle Moyeu en acier Inox Nucleo corona de acero Inox</p> <p style="text-align: center;">I</p>	

6



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

CODIFICA / HOW TO ORDER / CODIFICACIÓN

Output shaft Albero uscita Eje en salida	Type - Tipo Typ	Output flange Flangia uscita Brida en salida	Motor size - Grandezza motore Tamaño motor	Terminal box position Posizione morsetti Posición caja de bornes	Mounting position Posizione montaggio Posición de montaje	
UF	ST	N	-W	B	H1	
 <p>C</p> <p>→ STANDARD ⇨ Only on request for Q.ty A richiesta per quantità</p> <p>FA42 FA43</p> <p>UF ⇨ ∅1.250</p> <p>FA52 FA53</p> <p>UG ⇨ ∅1.375</p> <p>FC62 FC63 FC72 FC73</p> <p>UH ⇨ ∅1.500</p> <p>FC82 FC83</p> <p>UL ⇨ ∅2.000</p>	 <p>ST</p> <p>Foro standard Standard bore</p>  <p>Available torque arms, see our web site. Bracci di reazione disponibili, vedi il nostro sito web.</p> <p>S..</p>  <p>-F</p> <p>Whit output flange con flangia uscita</p>	 <p>N Senza flangia Without flange</p> <p>FA42 FA43</p> <p>2 ⇨ ∅6.299</p> <p>3 ⇨ ∅7.874</p> <p>4 ⇨ ∅9.843</p> <p>FA52 FA53 FC62 FC63</p> <p>4 ⇨ ∅9.843</p> <p>5 ⇨ ∅11.811</p> <p>FC72 FC73</p> <p>4 ⇨ ∅9.843</p> <p>5 ⇨ ∅11.811</p> <p>6 ⇨ ∅13.780</p> <p>6 ⇨ ∅13.780</p> <p>FC82 FC83</p> <p>5 ⇨ ∅11.811</p> <p>6 ⇨ ∅13.780</p> <p>7 ⇨ ∅15.748</p>	<p>Flange Flangia</p>  <p>Nema</p> <p>-W=56C</p> <p>-X=143/5TC</p> <p>-Y=182/4TC</p> <p>AA=213/5TC</p> <p>AB=254/6TC</p> <p>AC=284/6TC</p> <p>AD=324/6TC</p> <p>Type R Tipo R</p>  <p>FA43</p> <p>-K ⇨ ∅0.625</p> <p>FA42 FA53 FC63 FC73</p> <p>-K ⇨ ∅0.625</p> <p>-J ⇨ ∅0.750</p> <p>FA52 FC62 FC72 FC83</p> <p>-J ⇨ ∅0.750</p> <p>-N ⇨ ∅0.875</p>	<p>Without flange Senza flangia</p>  <p>FA43</p> <p>-K ⇨ ∅0.625</p> <p>FA42 FA53 FC63 FC73</p> <p>-K ⇨ ∅0.625</p> <p>-N ⇨ ∅0.875</p> <p>FA52 FC62 FC72</p> <p>-K ⇨ ∅0.625</p> <p>-N ⇨ ∅0.875</p> <p>-S ⇨ ∅1.125</p> <p>FC82</p> <p>-S ⇨ ∅1.125</p> <p>UA ⇨ ∅1.375</p> <p>UB ⇨ ∅1.625</p>	 <p>A</p>  <p>B STANDARD</p>  <p>C</p>  <p>D</p>	 <p>H1 STANDARD</p>  <p>H4</p>  <p>H3</p>  <p>H2</p>  <p>H5</p>  <p>H6</p> <p>Specify only for vertical positions Specificare solo per posizione verticale</p>

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotation

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

Linear movement / traslazione / translacion

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

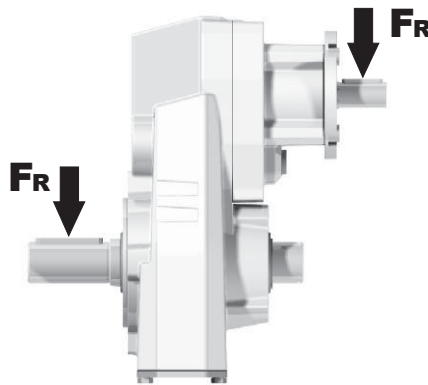
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / 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.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



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

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

M	Momento torcente / Output torque / Par torsion
d	Diametro primitivo / Diam. of driving element / Diámetro primitivo
f_k	Coefficiente di trasformazione / Factor / Coeficiente de transmisión 1.15 Ingranaggi / Gearwheels / Engranaje 1.25 Catena / Chain sprockets / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / 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.
- 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
Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Velocidad de salida

Nominal power
Potenza nominale
Potencia nominal

Gear size
Grandezza riduttore
Tamaño reductor

Motor power
Potenza motore
Potencia motor

A Nominal torque
Momento torcente nominale
Par de torsión nominal

Flange code
Codice flangia
Código bridas

Input speed
Velocità in entrata
Velocidad de entrada

FA42

Compact gear **2832lb in**

Rating - Aluminum
SHAFT MOUNTED HELICAL

QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft		
							-W 56C	-X 143/5 TC			Ratios code
209	8.38	2	580	3.4	6.87	1991			2821		01
174	10.04	2	694	3.1	6.12	2124			2818		02
142	12.33	2	853	2.7	5.40	2301			2813		03
115	15.16	2	1048	2.2	4.39	2301			1921		04

C Ratio
Rapporto
Relación

Transmitted torque
Momento torcente trasmesso
Par transmitido

Service factor
Fattore di servizio
Factor de servicio

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

Notes
Note
Notas

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

D	Motor flange available Flange disponibili Bridas disponibles	
B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción	
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor	
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile 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
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl
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
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)



QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
209	8.38	2	580	3.4	6.87	1991			2821	01
174	10.04	2	694	3.1	6.12	2124			2818	02
142	12.33	2	853	2.7	5.40	2301			2813	03
115	15.16	2	1048	2.2	4.39	2301			1921	04
100	17.57	2	1215	2.0	3.93	2390			1721	05
96	18.16	2	1256	2.0	4.09	2567			1918	06
83	21.05	2	1455	1.9	3.89	2832			1718	07
78	22.30	2	1542	1.8	3.67	2832			1913	08
71	24.70	2	1708	1.7	3.32	2832			1518	09
68	25.85	2	1787	1.6	3.17	2832			1713	10
59	29.49	2	2039	1.4	2.78	2832			1318	11
58	30.34	2	2098	1.3	2.70	2832			1513	12
52	33.60	2	2324	1.0	1.90	2213			1021	13
48.3	36.21	2	2504	1.1	2.26	2832			1313	14
43.5	40.25	2	2783	1.0	1.91	2655			1018	15
35.4	49.43	1.5	2564	1.1	1.66	2832			1013	16
33.3	52.53	1	1816	1.3	1.27	2301			918	17
27.1	64.51	1	2231	1.2	1.25	2788			913	18
25.2	69.37	0.75	1799	0.9	0.70	1682			718	19
20.6	85.19	0.75	2208	0.9	0.69	2036			713	20

The dynamic efficiency is 0.96 for all ratios

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

EN Unit FA42 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 FA42 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.

E El reductor tamaño FA42 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				
40.47 oz	24.64 oz	24.64 oz	24.64 oz	42.23 oz	28.16 oz
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

Input shaft
Albero in entrata

n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
300	67	337	140	88	438	70	110	550
250	72	359	120	92	461	40	133	663
200	79	393	85	103	517	15	180	899

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

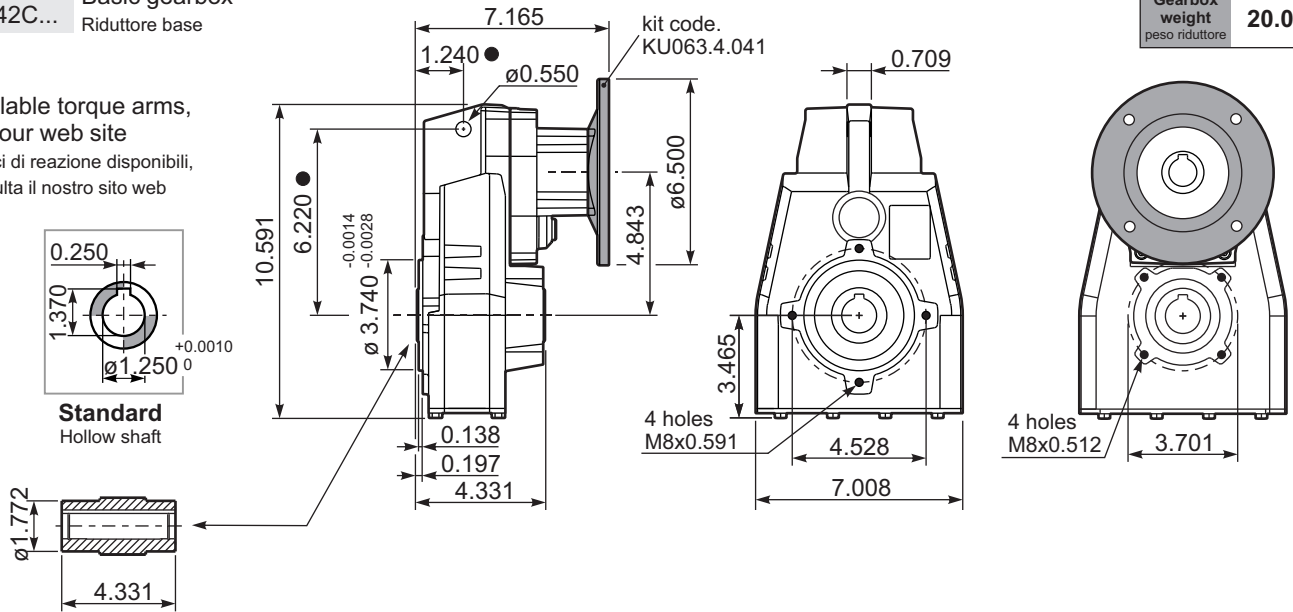
n ₁	FA	FR
1750	54	270
1140	63	315

tab. 2

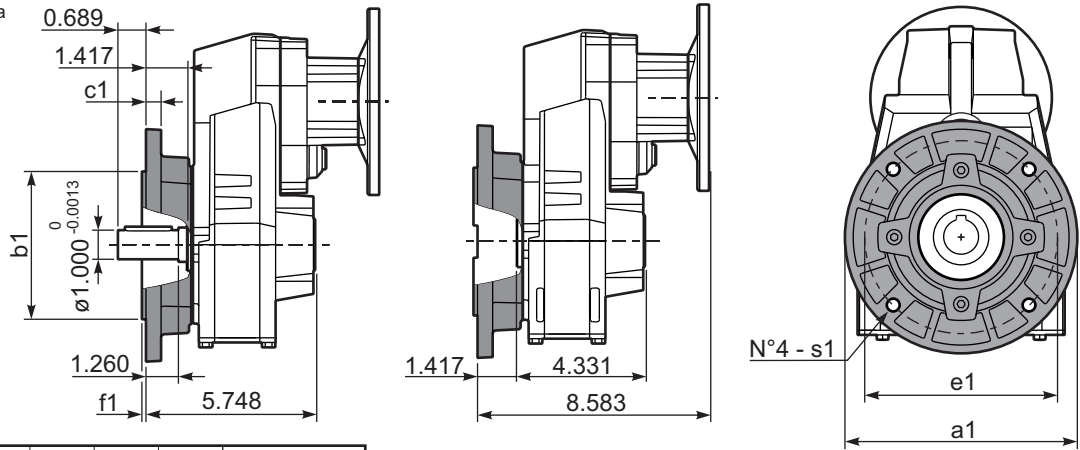
PFA42C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **20.0 lb**

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



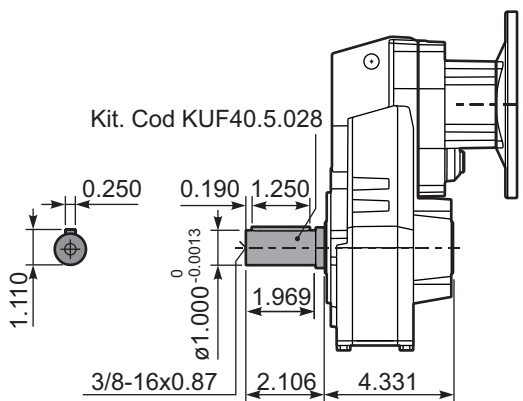
PFA42...-F... Output flange
Flangia uscita



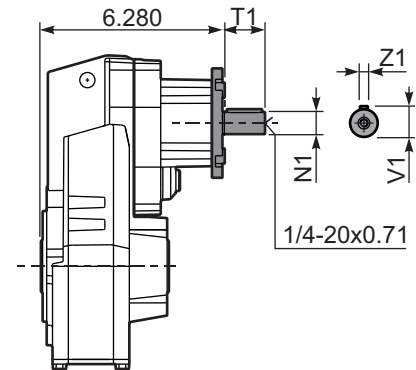
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	f1	s1	Kit code
6.299	4.331 ^{-0.0014} _{-0.0028}	0.394	5.118	0.118	0.354	KX5A.9.010
7.874	5.118 ^{-0.0017} _{-0.0033}	0.512	6.496	0.138	0.433	KX5A.9.011
9.843	7.087 ^{-0.0017} _{-0.0033}	0.551	8.465	0.157	0.551	KX5A.9.012

PFA42 A... Single output shaft
Albero uscita semplice



RFA42C... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor $f.s.$	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				
							-W	-			
							56C	-			Ratios code
23.5	74.33	1	2517	1.1	1.13	2832					01
21.2	82.56	1	2795	1.0	1.01	2832					02
20.0	87.48	0.75	2221	1.3	0.96	2832					03
17.3	101.40	0.75	2575	1.1	0.83	2832					04
14.3	122.57	0.75	3112	0.9	0.68	2832					05
12.6	138.59	0.5	2346	1.2	0.60	2832					06
10.9	160.82	0.5	2722	1.0	0.52	2832					07
10.3	170.20	0.5	2881	1.0	0.49	2832					08
9.5	183.48	0.5	3106	0.9	0.46	2832					09
8.2	214.15	0.33	2393	1.2	0.39	2832					10
7.8	225.33	0.33	2517	1.1	0.37	2832					11
7.2	244.32	0.33	2730	1.0	0.34	2832					12
6.9	254.15	0.33	2840	1.0	0.33	2832					13
6.0	289.96	0.25	2454	1.2	0.29	2832					14
5.8	300.05	0.25	2540	1.1	0.28	2832					15
4.9	356.09	0.25	3014	0.9	0.23	2832					16

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 **FA43** 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 **FA43** 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.

E El reductor tamaño **FA43** 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				
H1	H4	H3	H2	H5	H6
45.75 oz	24.64 oz	24.64 oz	24.64 oz	47.51 oz	31.68 oz
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

$F_{eq} = F_R \cdot \frac{4.67}{X+3.66}$

n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
300	67	337	140	88	438	70	110	550
250	72	359	120	92	461	40	133	663
200	79	393	85	103	517	15	180	899

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

Input shaft
Albero in entrata

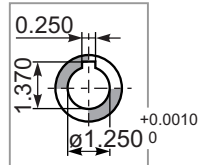
n_1	FA	FR
1750	31	157
1140	36	180

tab. 2

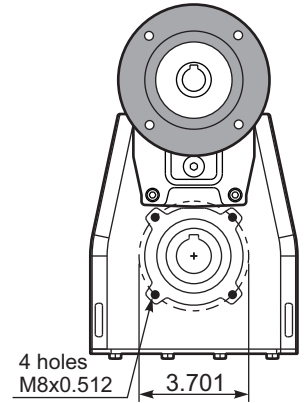
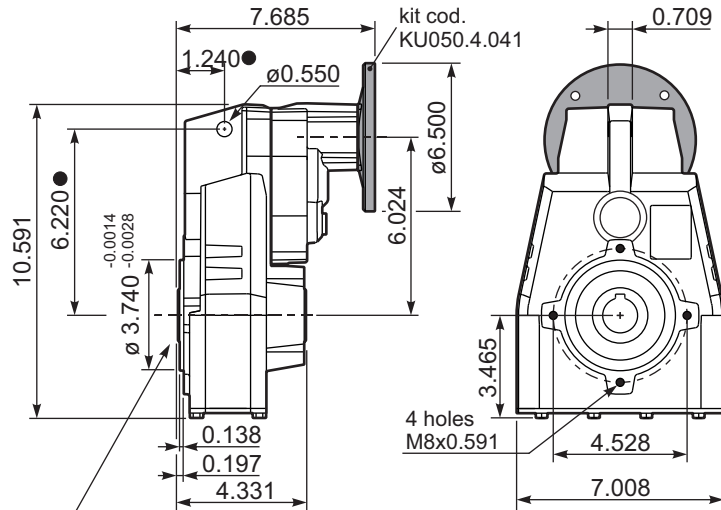
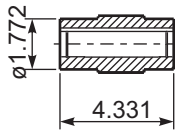
PFA43C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **20.0 lb**

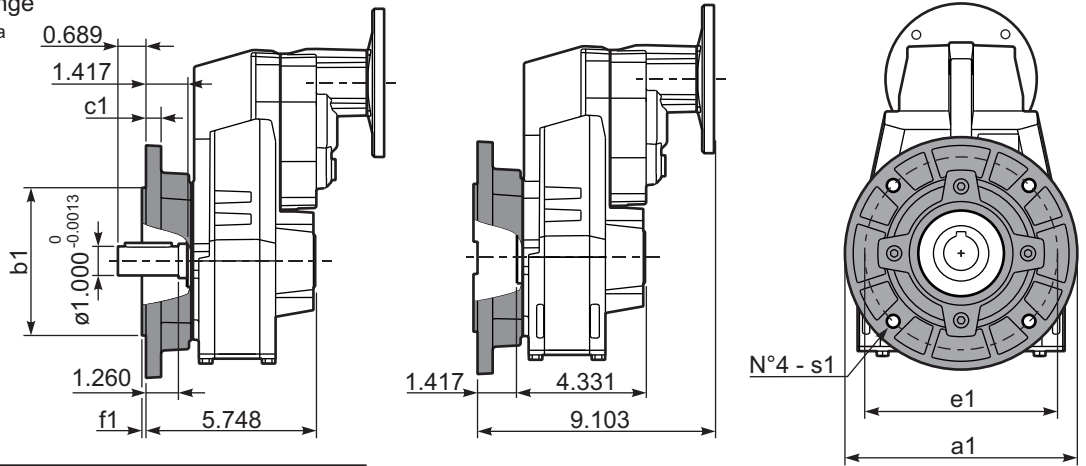
● Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web



Standard
Hollow shaft



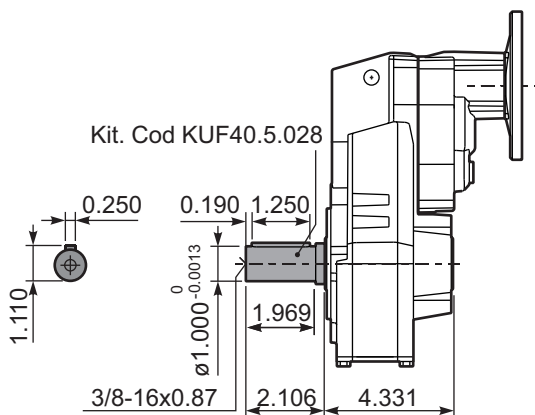
PFA43...-F... Output flange
Flangia uscita



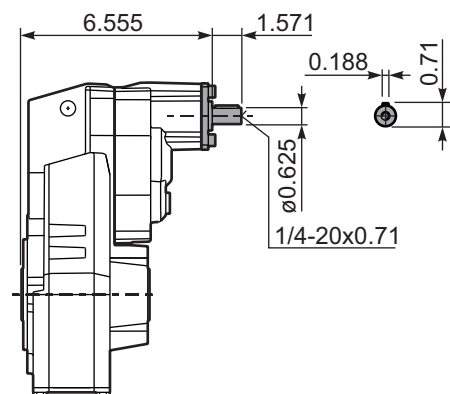
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	f1	s1	Kit code
6.299	4.331 ^{-0.0014} _{-0.0028}	0.394	5.118	0.118	0.354	KX5A.9.010
7.874	5.118 ^{-0.0017} _{-0.0033}	0.512	6.496	0.138	0.433	KX5A.9.011
9.843	7.087 ^{-0.0017} _{-0.0033}	0.551	8.465	0.157	0.551	KX5A.9.012

PFA43 A... Single output shaft
Albero uscita semplice



RFA43C... Input Shaft
Albero in entrata





QUICK SELECTION / Selezione veloce input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
266	6.57	10	2272	1.1	10.91	2478					3018	01
232	7.56	10	2613	1.0	9.82	2567					3016	02
198	8.82	10	3050	0.9	9.29	2832					3014	03
141	12.39	7.5	3212	1.2	9.30	3983					2018	04
123	14.24	7.5	3693	1.1	8.09	3983					2016	05
104	16.75	7.5	4343	1.0	7.18	4160					1618	06
91	19.25	7.5	4993	0.9	6.51	4337					1616	07
80	21.78	5	3765	1.2	5.76	4337					1318	08
70	25.04	5	4329	1.0	5.01	4337					1316	09
60	29.23	5	5053	0.9	4.29	4337					1314	10
57	30.65	3	3179	1.4	4.09	4337					1116	11
48.9	35.78	3	3711	1.2	3.51	4337					1114	12
45.4	38.55	3	3999	1.1	3.25	4337					818	13
39.5	44.32	3	4597	0.9	2.83	4337					816	14
33.8	51.74	2	3578	1.2	2.42	4337					814	15
28.7	61.03	2	4220	1.0	2.01	4248					616	16
24.6	71.25	1.5	3695	1.2	1.76	4337					614	17

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

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

EN Unit **FA52** 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 **FA52** 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.

E El reductor tamaño **FA52** 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				
65.11 oz	40.47 oz	40.47 oz	45.75 oz	73.91 oz	45.75 oz
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

Input shaft
Albero in entrata

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	90	449	140	103	517	70	130	652
250	94	472	120	112	562	40	175	876
200	99	494	85	124	618	15	256	1281

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

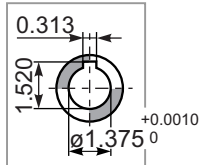
n ₁	FA	FR
1750	90	449
1140	99	494

tab. 2

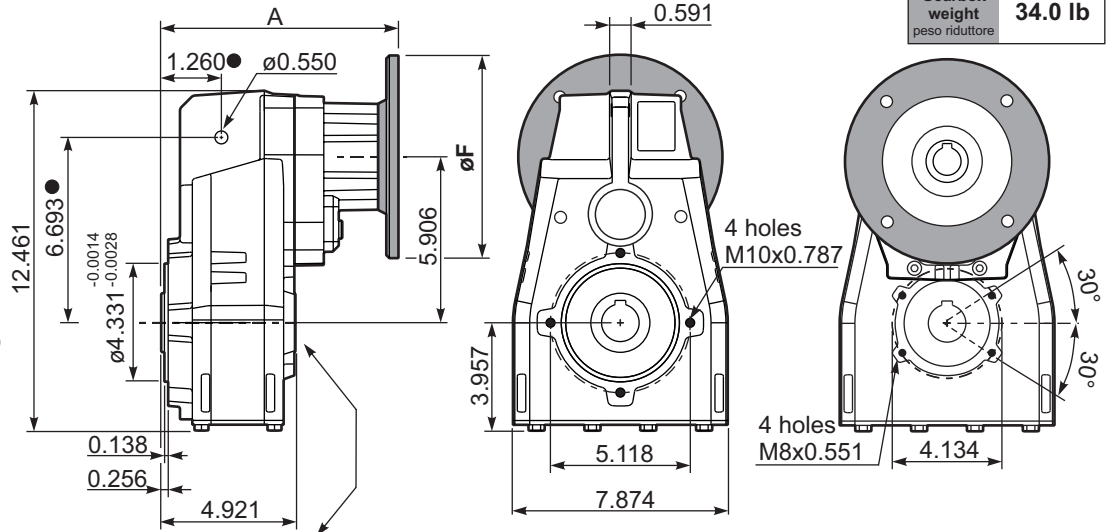
PFA52C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **34.0 lb**

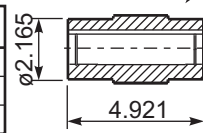
● Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web



Standard
Hollow shaft

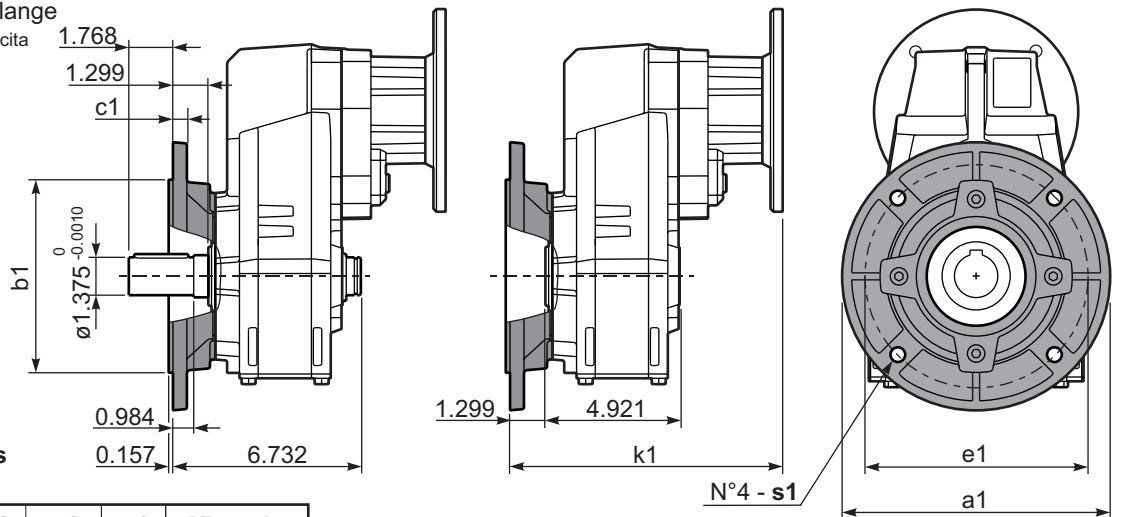


Nema flange	A	øF	kit code
56C-143/5TC	9.195	6.50	KUC085.4.041
182/4TC	9.898	8.88	KUC085.4.042
213/5TC	10.413	8.88	KUC50.4.041



PFA52...-F... Output flange
Flangia uscita

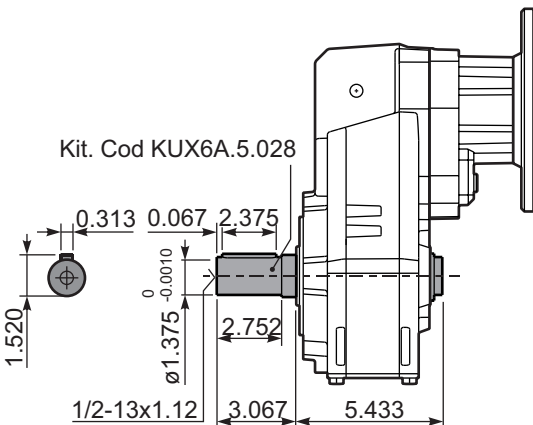
Nema flange	k1
56C-143/5TC	10.492
182/4TC	11.197
213/5TC	11.712



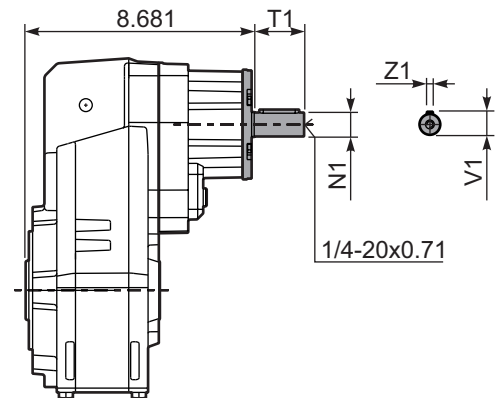
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.551	KF60.9.011
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.551	KF60.9.012

PFA52 A... Single output shaft
Albero uscita semplice



RFA52C... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹			
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
28.3	61.89	2	4191	1.1	2.15	4514			191318	01
24.6	71.16	2	4819	0.9	1.87	4514			191316	02
21.2	82.48	1.5	4189	1.1	1.62	4514			171316	03
18.2	96.29	1.5	4890	0.9	1.38	4514			171314	04
17.4	100.51	1.5	5104	0.9	1.33	4514			131318	05
15.1	115.56	1	3912	1.2	1.15	4514			131316	06
13.9	125.96	1	4265	1.1	1.06	4514			190816	07
13.0	134.91	1	4568	1.0	0.99	4514			131314	08
11.9	147.05	1	4979	0.9	0.91	4514			190814	09
10.3	170.44	0.75	4328	1.0	0.78	4514			170814	10
9.5	184.15	0.75	4676	1.0	0.72	4514			101314	11
8.5	205.87	0.75	5228	0.9	0.65	4514			91316	12
7.3	240.34	0.5	4069	1.1	0.55	4514			91314	13
6.3	279.22	0.5	4727	1.0	0.48	4514			100816	14
5.4	325.97	0.33	3642	1.2	0.41	4514			100814	15
4.8	364.41	0.33	4071	1.1	0.37	4514			90816	16
4.1	425.43	0.33	4753	0.9	0.31	4514			90814	17
3.6	481.19	0.25	4073	1.1	0.28	4514			70816	18
3.1	561.76	0.25	4755	0.9	0.24	4514			70814	19

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

6

EN Unit FA53 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 FA53 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.

E El reductor tamaño FA53 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				
H1	H4	H3	H2	H5	H6
75.67 oz	43.99 oz	43.99 oz	51.03 oz	82.71 oz	51.03 oz
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

$F_{eq} = F_R \cdot \frac{5.89}{X+4.49}$

n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	90	449	140	103	517	70	130	652
250	94	472	120	112	562	40	175	876
200	99	494	85	124	618	15	256	1281

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

Input shaft
Albero in entrata

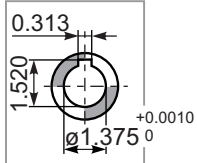
n ₁	FA	FR
1750	54	270
1140	63	315

tab. 2

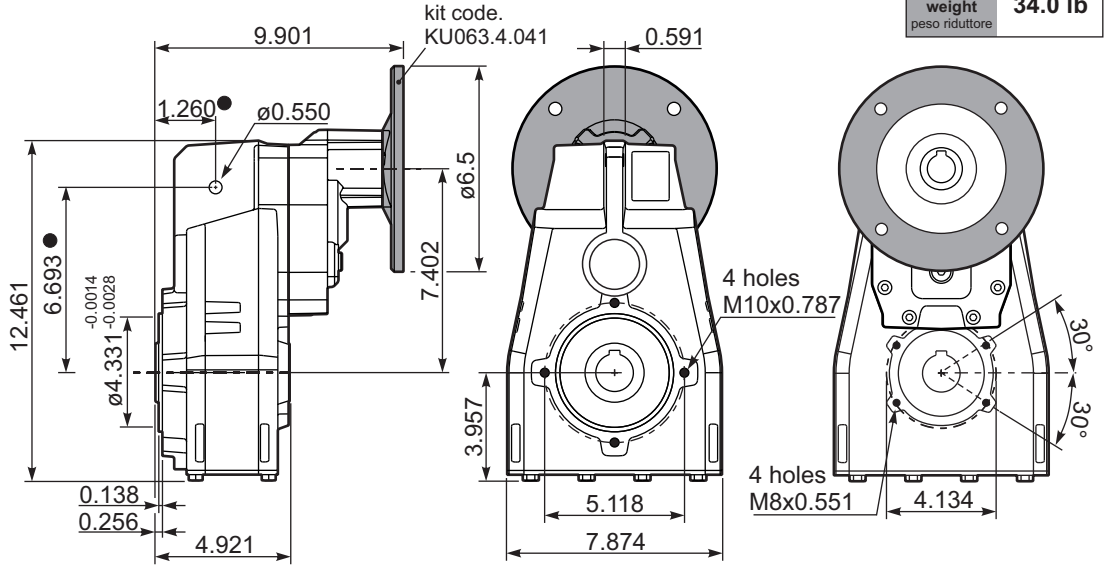
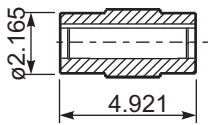
PFA53C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **34.0 lb**

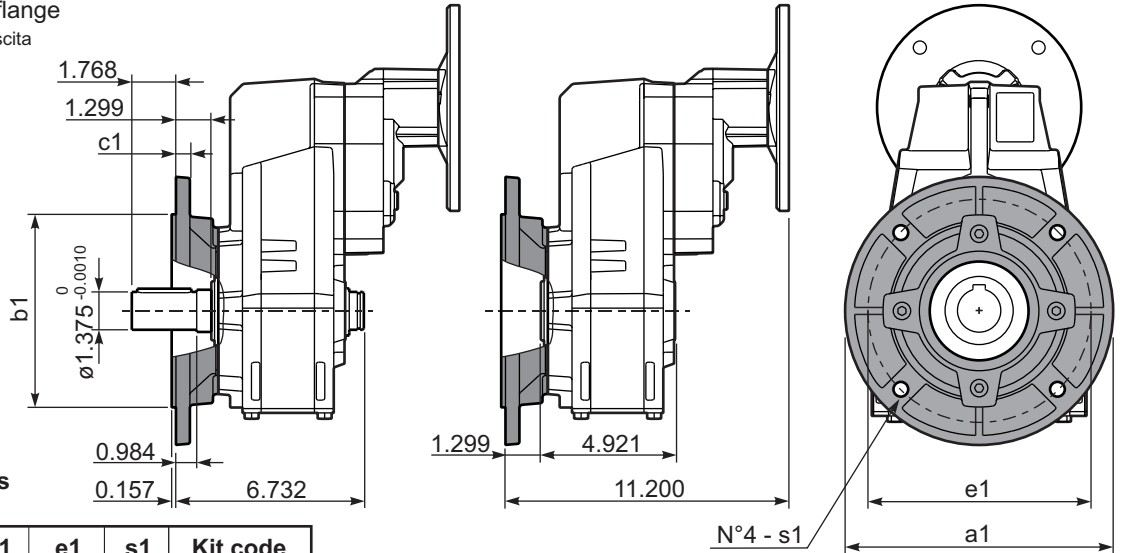
Available torque arms,
see our web site
Bracci di reazione disponibili,
consulta il nostro sito web



Standard
Hollow shaft



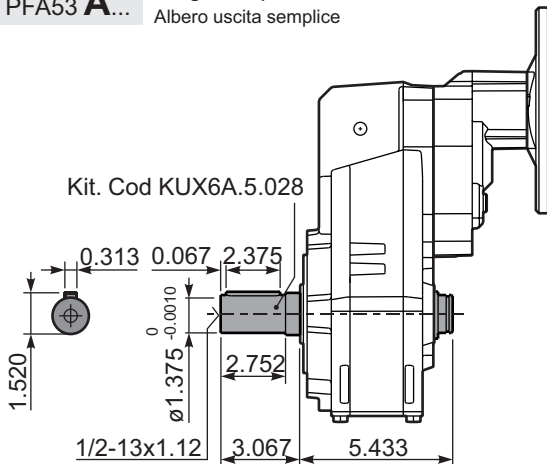
PFA53...-F... Output flange
Flangia uscita



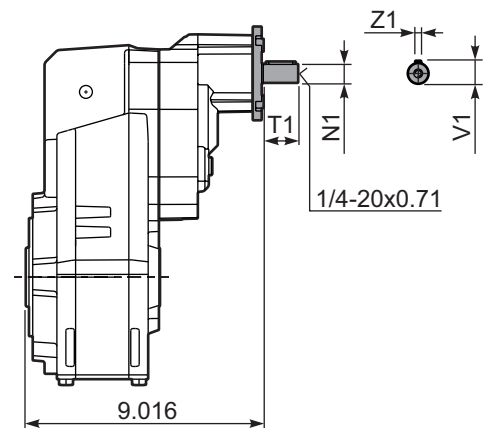
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	s1	Kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.551	KF60.9.011
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.551	KF60.9.012

PFA53 A... Single output shaft
Albero uscita semplice



RFA53C... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
266	6.57	10	2272	1.5	14.80	3363					3018	01
232	7.56	10	2613	1.3	13.21	3452					3016	02
198	8.82	10	3050	1.2	11.90	3629					3014	03
141	12.39	10	4283	1.2	11.99	5133					2018	04
123	14.24	10	4924	1.1	10.79	5310					2016	05
104	16.75	10	5790	1.0	10.16	5886					1618	06
91	19.25	10	6657	0.9	8.97	5974					1616	07
80	21.78	7.5	5647	1.1	7.93	5974					1318	08
70	25.04	7.5	6493	0.9	6.90	5974					1316	09
60	29.23	5	5053	1.2	5.91	5974					1314	10
57	30.65	5	5298	1.1	5.64	5974					1116	11
48.9	35.78	5	6186	1.0	4.83	5974					1114	12
45.4	38.55	3	3999	1.3	3.85	5133					818	13
39.5	44.32	3	4597	1.3	3.84	5886					816	14
33.8	51.74	3	5367	1.1	3.34	5974					814	15
28.7	61.03	2	4220	1.0	2.01	4248					616	16
24.6	71.25	2	4927	1.0	2.01	4956					614	17

The dynamic efficiency is 0.96 for all ratios

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

EN Unit **FC62** 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 **FC62** 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.

E El reductor tamaño **FC62** 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				
72.15 oz	44.00 oz	44.00 oz	49.27 oz	77.43 oz	49.27 oz
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

$F_{eq} = F_R \cdot \frac{5.89}{X+4.49}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	135	674	140	162	809	70	211	1056
250	144	719	120	166	831	40	274	1370
200	155	777	85	193	966	15	292	1460

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

Input shaft
Albero in entrata

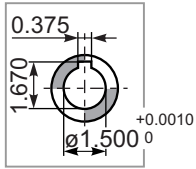
n_1	FA	FR
1750	90	449
1140	99	494

tab. 2

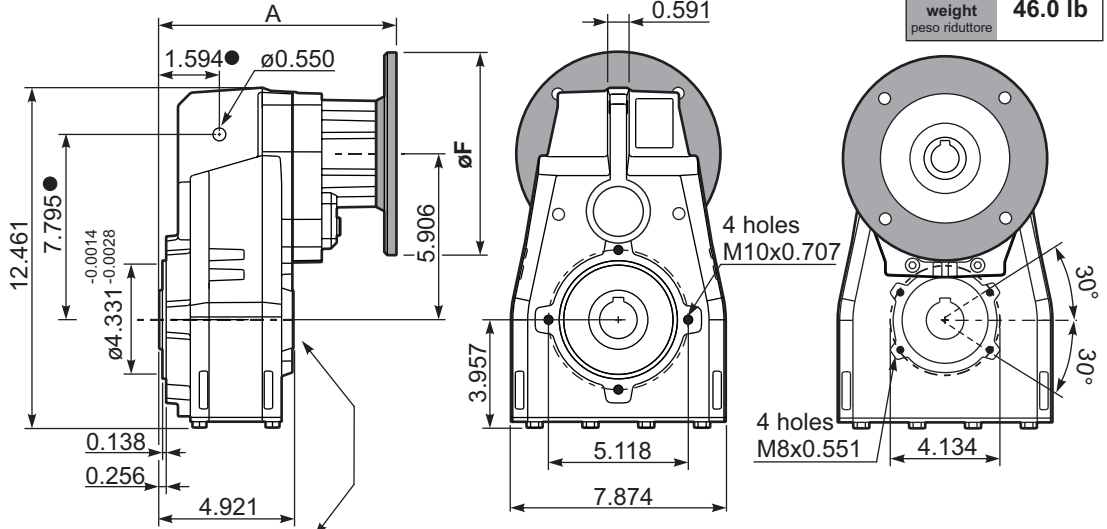
PFC62C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **46.0 lb**

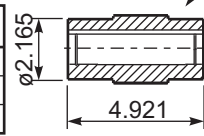
● Available torque arms, see our web site
Bracci di reazione disponibili, consulta il nostro sito web



Standard
Hollow shaft

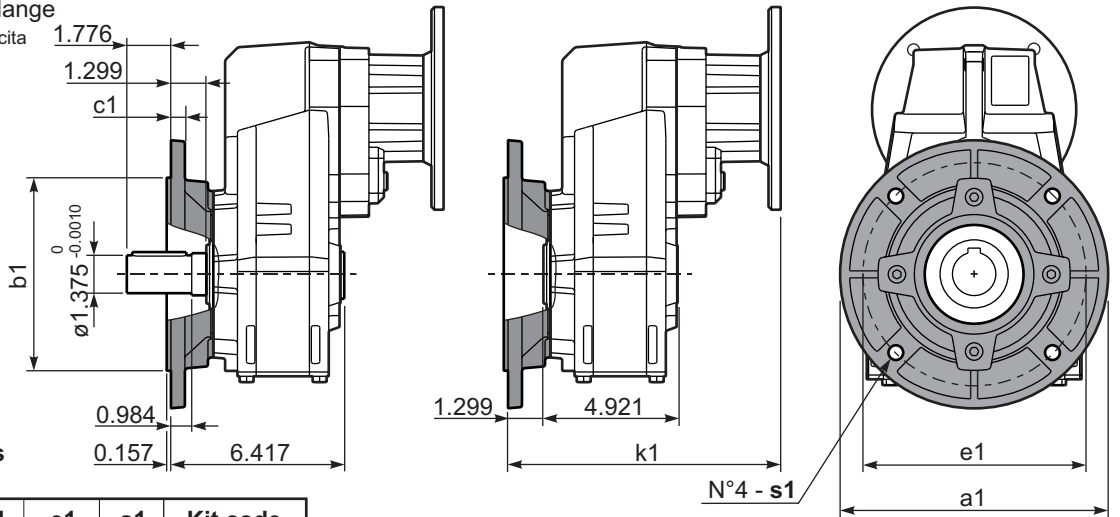


Nema flange	A	øF	kit code
56C-143/5TC	9.193	6.50	KUC085.4.041
182/4TC	9.898	8.88	KUC085.4.042
213/5TC	10.413	8.88	KUC50.4.041



PFC62...-F... Output flange
Flangia uscita

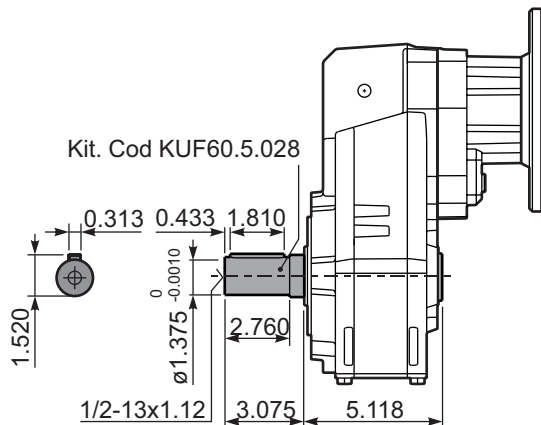
Nema flange	k1
56C-143/5TC	10.492
182/4TC	11.197
213/5TC	11.712



Available output flanges
Flange di uscita

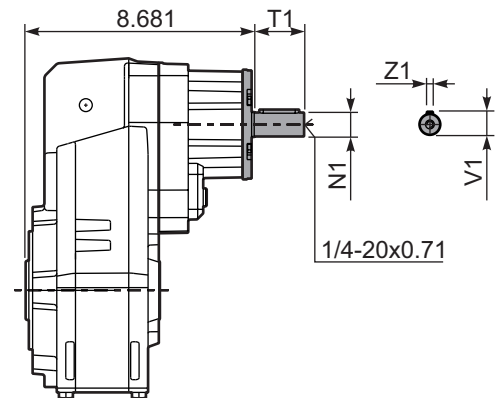
a1 ø	b1	c1	e1	s1	Kit code
9.843	7.087 ^{-0.0017/-0.0033}	0.512	8.465	0.551	KF60.9.011
11.811	9.055 ^{-0.0020/-0.0038}	0.630	10.433	0.551	KF60.9.012

PFC62 A... Single output shaft
Albero uscita semplice



Kit. Cod KUF60.5.028

RFC62C... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges					Output Shaft \varnothing	Ratios code
							-W 56C	-X 143/5 TC					
28.3	61.89	2	4191	1.4	2.85	5974							01
24.6	71.16	2	4819	1.2	2.48	5974							02
21.2	82.48	2	5585	1.1	2.14	5974							03
18.2	96.29	1.5	4890	1.2	1.83	5974							04
17.4	100.51	1.5	5104	1.2	1.76	5974							05
15.1	115.56	1.5	5869	1.0	1.53	5974							06
13.9	125.96	1.5	6397	0.9	1.38	5886							07
13.0	134.91	1.5	6851	0.9	1.31	5974							08
11.9	147.05	1	4979	1.2	1.20	5974							09
10.3	170.44	1	5770	1.0	1.04	5974						standard $\varnothing 1.500$	10
9.5	184.15	1	6235	1.0	0.96	5974							11
8.5	205.87	0.75	5228	1.1	0.86	5974							12
7.3	240.34	0.75	6103	1.0	0.73	5974							13
6.3	279.22	0.5	4727	1.2	0.62	5886							14
5.4	325.97	0.5	5518	1.1	0.54	5974							15
4.8	364.41	0.5	6169	1.0	0.48	5886							16
4.1	425.43	0.33	4753	1.3	0.41	5974							17
3.6	481.19	0.33	5376	1.1	0.36	5886							18
3.1	561.76	0.33	6276	1.0	0.31	5974							19

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 **FC63** 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 **FC63** 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.

E El reductor tamaño **FC63** 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				
80.95 oz	47.51 oz	47.51 oz	54.55 oz	86.23 oz	54.55 oz
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

$F_{eq} = F_R \cdot \frac{5.89}{X+4.49}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	135	674	140	162	809	70	211	1056
250	144	719	120	166	831	40	274	1370
200	155	777	85	193	966	15	292	1460

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

Input shaft
Albero in entrata

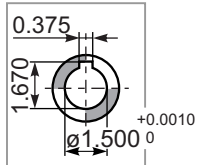
n_1	FA	FR
1750	54	270
1140	63	315

tab. 2

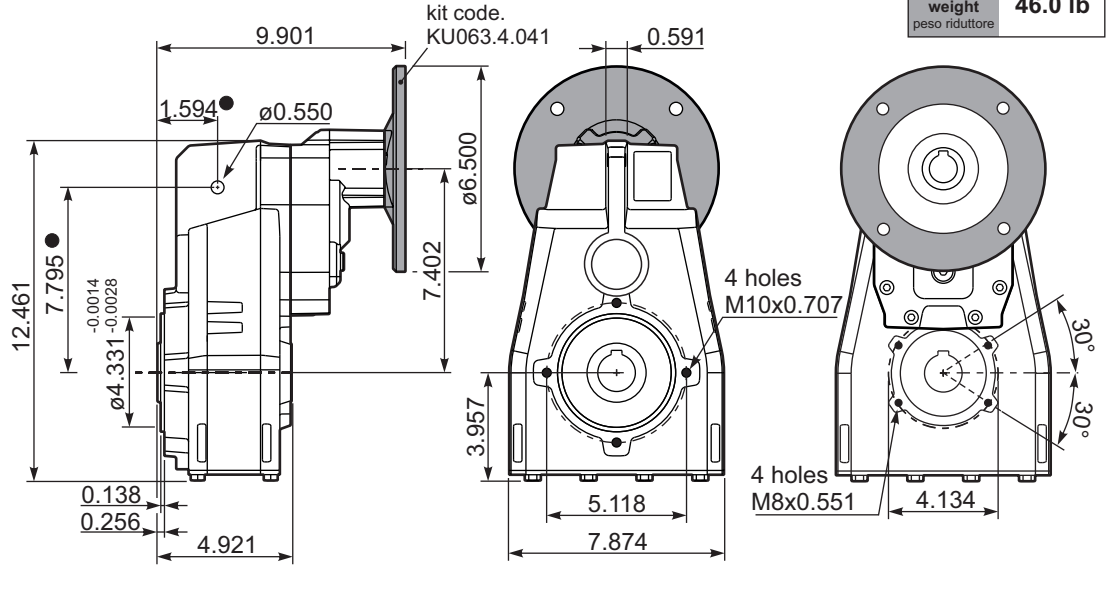
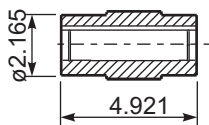
PFC63C... Basic gearbox
Riduttore base

Gearbox weight **46.0 lb**
peso riduttore

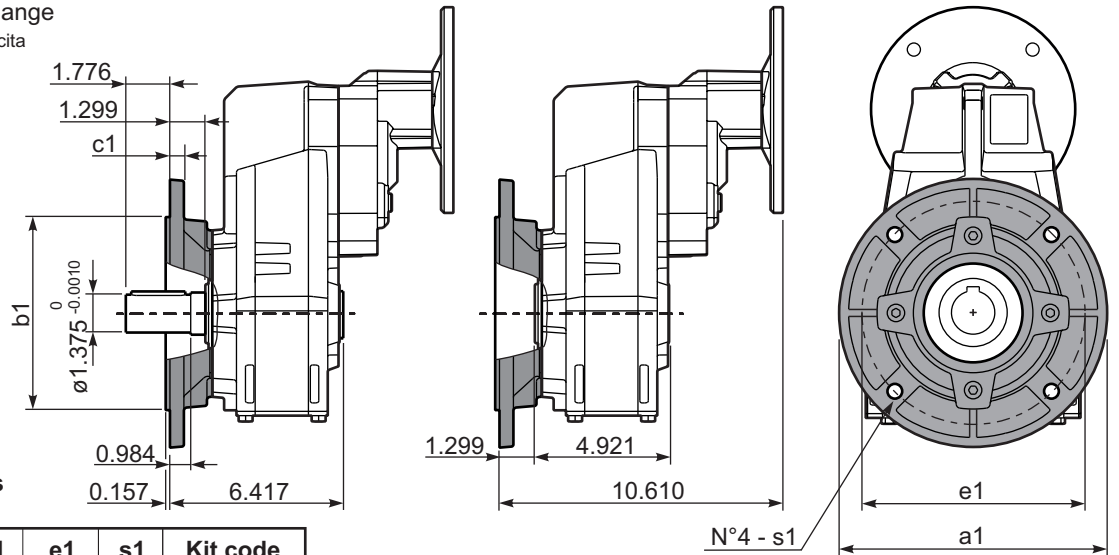
● Available torque arms, see our web site
Bracci di reazione disponibili, consulta il nostro sito web



Standard
Hollow shaft



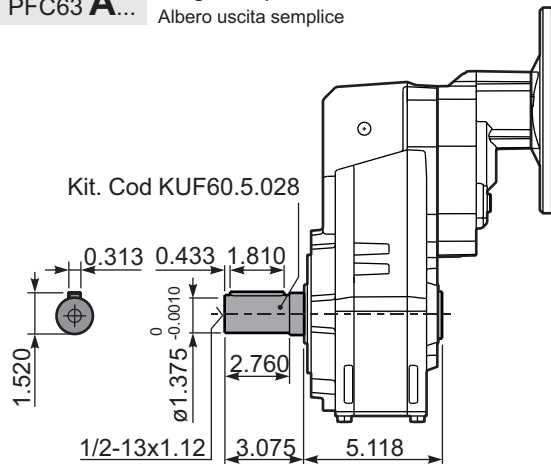
PFC63...-F... Output flange
Flangia uscita



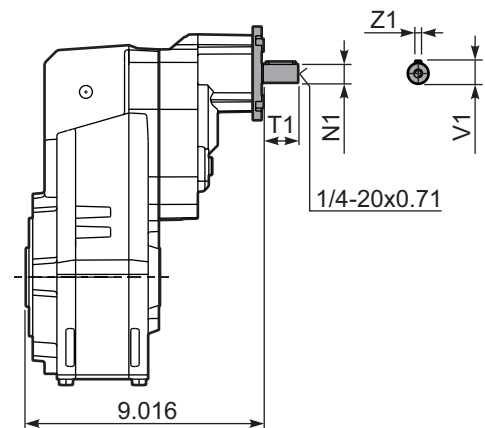
Available output flanges
Flange di uscita

a1 ϕ	b1	c1	e1	s1	Kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.551	KF60.9.011
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.551	KF60.9.012

PFC63 A... Single output shaft
Albero uscita semplice



RFC63C... Input Shaft
Albero in entrata



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
218	8.02	10	2772	1.7	16.60	4602					3018	01
191	9.18	10	3175	1.6	16.45	5222					3016	02
164	10.68	10	3692	1.6	16.30	6019					3014	03
116	15.11	10	5224	1.3	13.13	6859					2018	04
101	17.30	10	5983	1.3	13.09	7833					2016	05
87	20.13	10	6959	1.1	11.45	7966					2014	06
75	23.39	10	8089	1.0	9.85	7966					1616	07
64	27.21	7.5	7056	1.1	8.47	7966					1614	08
58	30.42	7.5	7889	1.0	7.57	7966					1316	09
49.5	35.38	5	6117	1.3	6.51	7966					1314	10
47.0	37.24	5	6438	1.2	6.15	7921					1116	11
40.4	43.31	5	7488	1.1	5.32	7966					1114	12
37.2	47.02	3	4877	1.3	3.84	6240					818	13
32.5	53.85	3	5586	1.3	3.85	7169					816	14
27.9	62.63	3	6497	1.2	3.68	7966					814	15
23.6	74.16	2	5128	1.0	2.02	5178					616	16
20.3	86.25	2	5964	1.0	2.02	6019					614	17

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

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **FC72** 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 **FC72** 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.

E El reductor tamaño **FC72** 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.

H1	H4	H3	H2	H5	H6
123.18 oz	66.87 oz	66.87 oz	63.35 oz	126.70 oz	66.87 oz

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 (lb)
 F_A (lb)

F_{eq} (lb)

$F_{eq} = F_R \cdot \frac{6.89}{X+5.30}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	166	831	140	193	966	70	229	1146
250	180	899	120	202	1011	40	292	1460
200	186	932	85	218	1090	15	382	1910

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

Input shaft
Albero in entrata

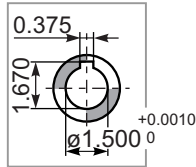
F_R (lb)
 F_A (lb)

n_1	FA	FR
1750	101	506
1140	112	562

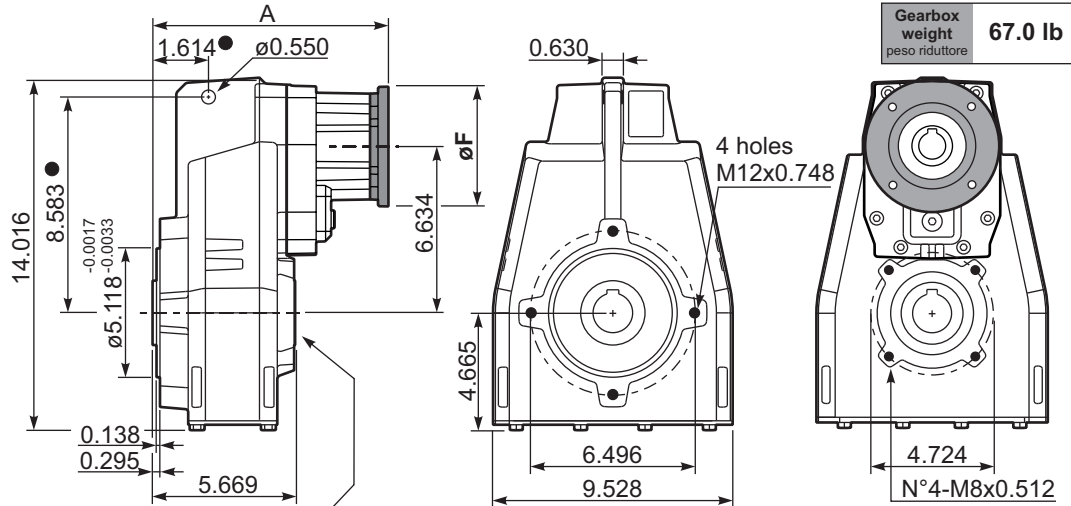
tab. 2

PFC72C... Basic gearbox
Riduttore base

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

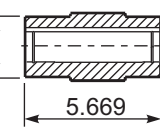


Standard
Hollow shaft



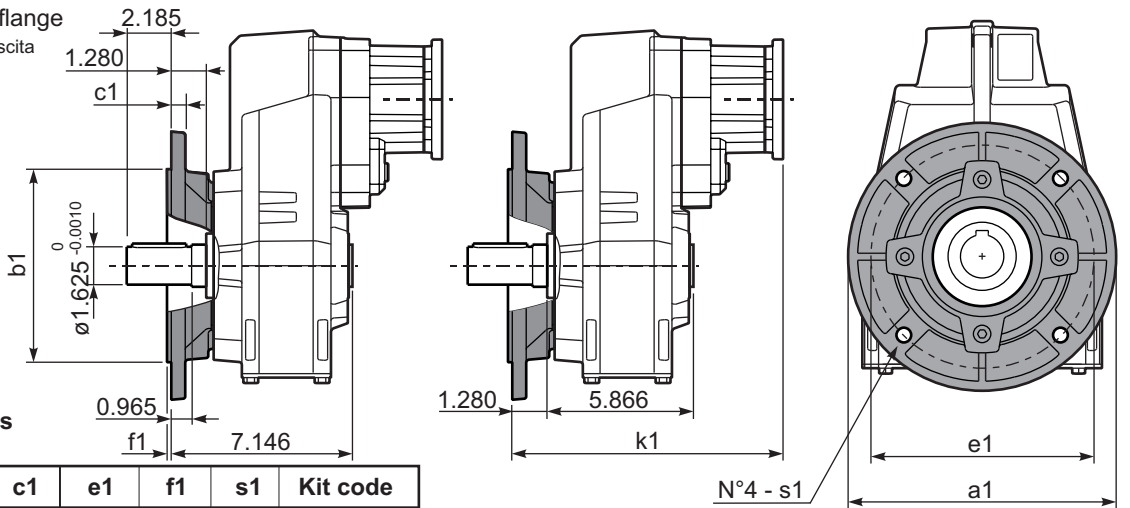
Gearbox weight
peso riduttore **67.0 lb**

Nema flange	A	øF	kit code
56C-143/5TC	9.646	6.50	KUC085.4.041
182/4TC	10.350	8.88	KUC085.4.042
213/5TC	10.866	8.88	KUC50.4.041



PFC72...-F... Output flange
Flangia uscita

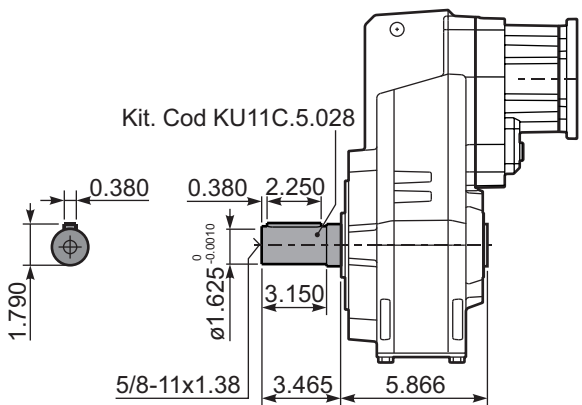
Nema flange	k1
56C-143/5TC	10.925
182/4TC	11.630
213/5TC	12.146



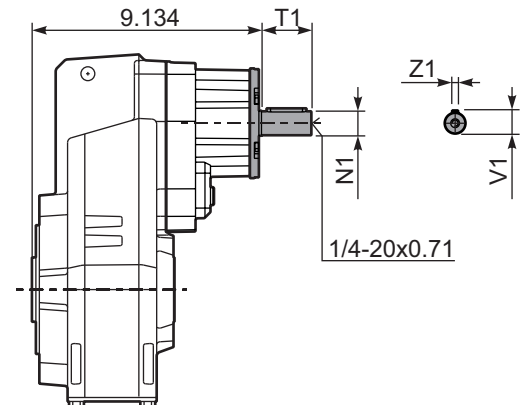
Available output flanges
Flange di uscita

a1 ø	b1	c1	e1	f1	s1	Kit code
9.843	7.087 ^{-0.0017} / _{-0.0033}	0.512	8.465	0.118	0.551	KF70.9.011
11.811	9.055 ^{-0.0020} / _{-0.0038}	0.630	10.433	0.157	0.551	KF70.9.012
13.780	9.843 ^{-0.0020} / _{-0.0038}	0.709	11.811	0.157	0.709	KF70.9.013

PFC72 A... Single output shaft
Albero uscita semplice



RFC72C... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges					Output Shaft \varnothing	Ratios code
							-W 56C	-X 143/5 TC					
23.2	75.50	2	5112	1.4	2.86	7302							01
20.2	86.47	2	5855	1.4	2.72	7966							02
17.5	100.22	2	6786	1.2	2.35	7966							03
15.0	116.56	2	7893	1.0	2.02	7966							04
12.8	136.82	1.5	6948	1.1	1.72	7966							05
11.4	153.05	1.5	7773	0.9	1.38	7169							06
10.7	163.31	1.5	8294	1.0	1.44	7966							07
9.8	178.01	1.5	9040	0.9	1.32	7966							08
9.1	191.67	1	6489	1.2	1.23	7966							09
8.5	206.32	1	6985	1.1	1.14	7966						standard $\varnothing 1.500$	10
7.9	222.92	1	7547	1.1	1.06	7966							11
7.2	242.18	1	8199	1.0	0.97	7966							12
7.0	250.15	1	8469	0.9	0.94	7966							13
6.1	289.08	0.75	7340	1.1	0.81	7966							14
5.3	330.31	0.75	8387	0.9	0.70	7877							15
4.4	394.59	0.5	6680	1.2	0.60	7966							16
3.4	514.99	0.5	8718	0.9	0.46	7966							17
2.6	680.03	0.33	7598	1.0	0.35	7966							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 **FC73** 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 **FC73** 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.

E El reductor tamaño **FC73** 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.

124.94 oz	68.63 oz	68.63 oz	68.63 oz	131.98 oz	70.39 oz

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

$F_{eq} = F_R \cdot \frac{6.89}{X+5.30}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	166	831	140	193	966	70	229	1146
250	180	899	120	202	1011	40	292	1460
200	186	932	85	218	1090	15	382	1910

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

Input shaft
Albero in entrata

n_1	FA	FR
1750	90	449
1140	99	494

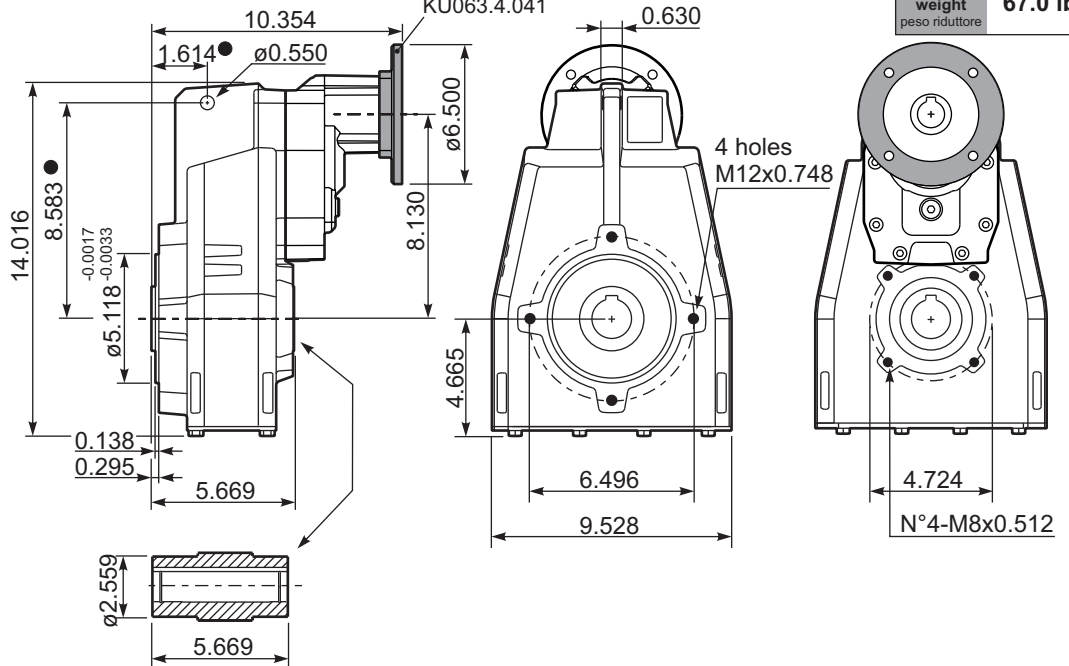
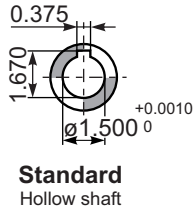
tab. 2

PFC73C... Basic gearbox
Riduttore base

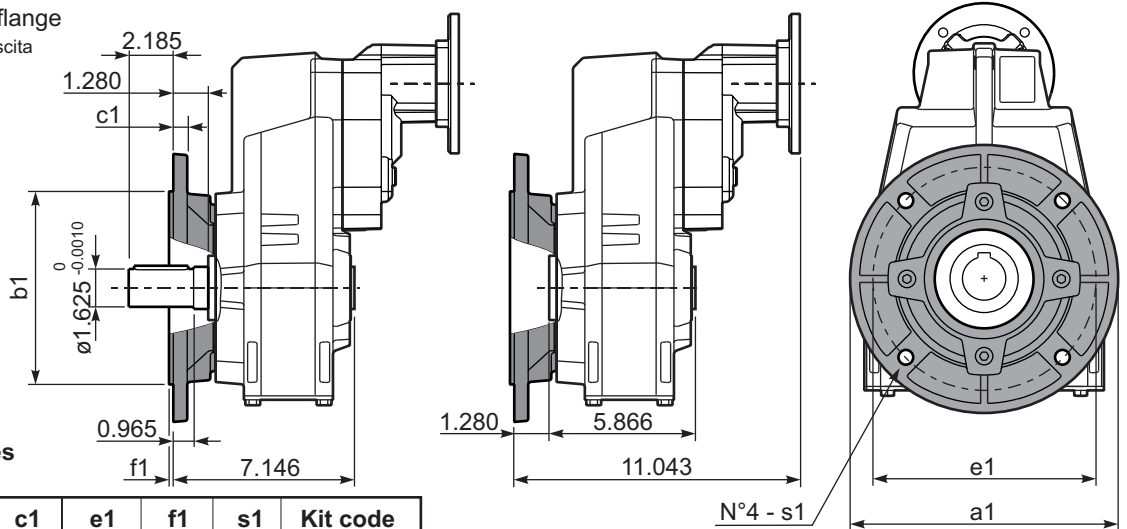
kit code.
KU063.4.041

Gearbox weight
peso riduttore **67.0 lb**

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



PFC73...-F... Output flange
Flangia uscita

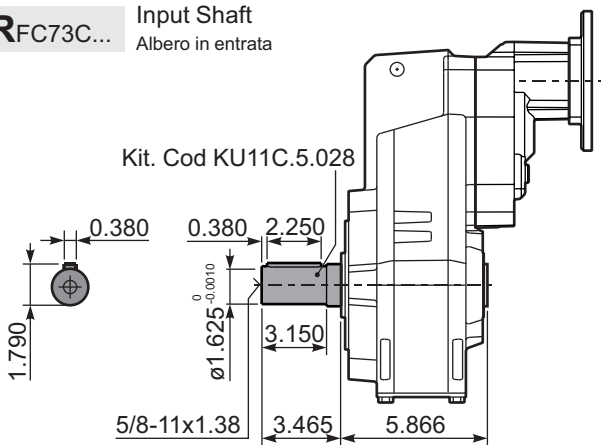


Available output flanges
Flange di uscita

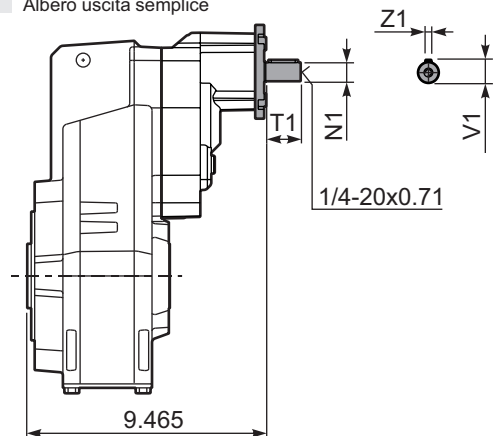
a1 ø	b1	c1	e1	f1	s1	Kit code
9.843	7.087 ^{-0.0017} _{-0.0033}	0.512	8.465	0.118	0.551	KF70.9.011
11.811	9.055 ^{-0.0020} _{-0.0038}	0.630	10.433	0.157	0.551	KF70.9.012
13.780	9.843 ^{-0.0020} _{-0.0038}	0.709	11.811	0.157	0.709	KF70.9.013

RFC73C... Input Shaft
Albero in entrata

Kit. Cod KU11C.5.028



PFC73 A... Single output shaft
Albero uscita semplice



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
293	5.98	20	4135	2.1	42.81	8851				3015	01
246	7.10	20	4910	2.1	42.36	10400				3013	02
203	8.63	20	5966	2.0	40.06	11949				3011	03
155	11.27	20	7794	1.7	34.07	13276				2015	04
131	13.38	20	9253	1.6	32.52	15046				2013	05
115	15.24	20	10537	1.6	31.92	16816				1615	06
108	16.26	20	11244	1.7	33.06	18587				2011	07
97	18.09	20	12511	1.5	29.71	18587				1613	08
88	19.82	20	13703	1.3	26.61	18233				1315	09
80	21.98	20	15202	1.2	24.45	18587				1611	10
74	23.53	20	16269	1.1	22.85	18587				1313	11
72	24.25	20	16773	1.0	20.47	17170				1115	12
61	28.80	20	19914	0.9	18.67	18587				1113	13
50	34.99	15	18148	1.0	15.36	18587				1111	14
42.0	41.64	10	14399	1.2	12.05	17347				813	15
34.6	50.60	10	17469	1.1	10.62	18587				811	16

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

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **FC82** 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 **FC82** 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.

E El reductor tamaño **FC82** 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.

H1	H4	H3	H2	H5	H6
200.61 oz	126.70 oz	126.70 oz	126.70 oz	232.29 oz	158.38 oz

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

$F_{eq} = F_R \cdot \frac{7.60}{X+5.95}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	207	1033	140	252	1258	70	315	1573
250	225	1123	120	256	1281	40	404	2022
200	238	1191	85	292	1460	15	539	2696

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

Input shaft
Albero in entrata

n_1	FA	FR
1750	157	786
1140	189	944

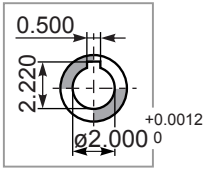
tab. 2

PFC82C... Basic gearbox
Riduttore base

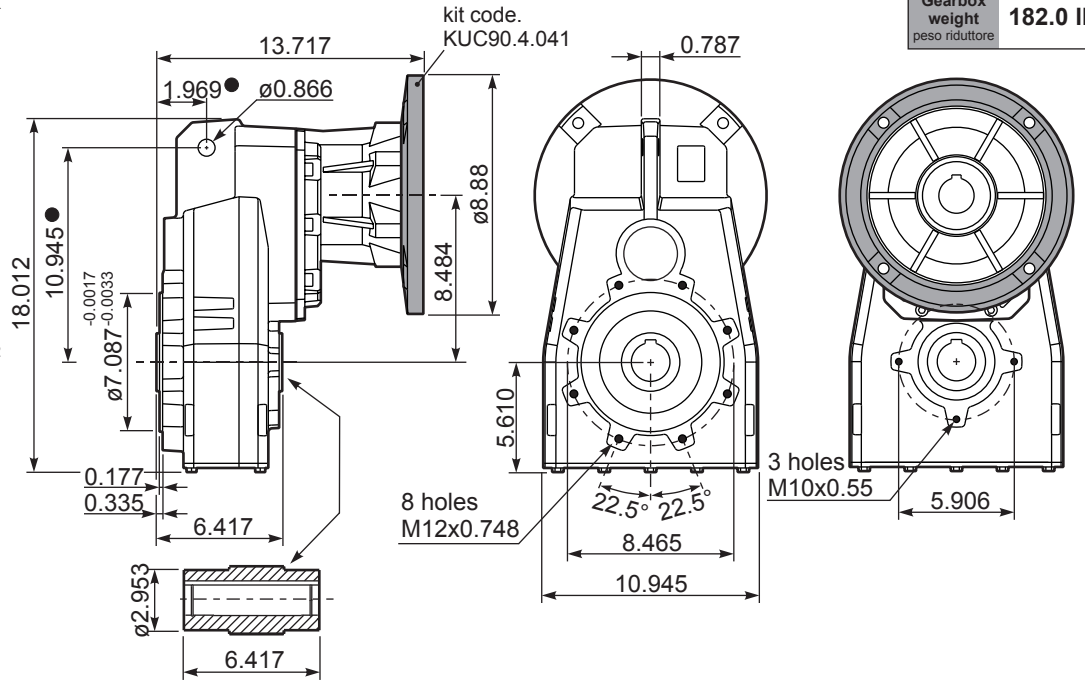
Gearbox weight **182.0 lb**
peso riduttore

kit code.
KUC90.4.041

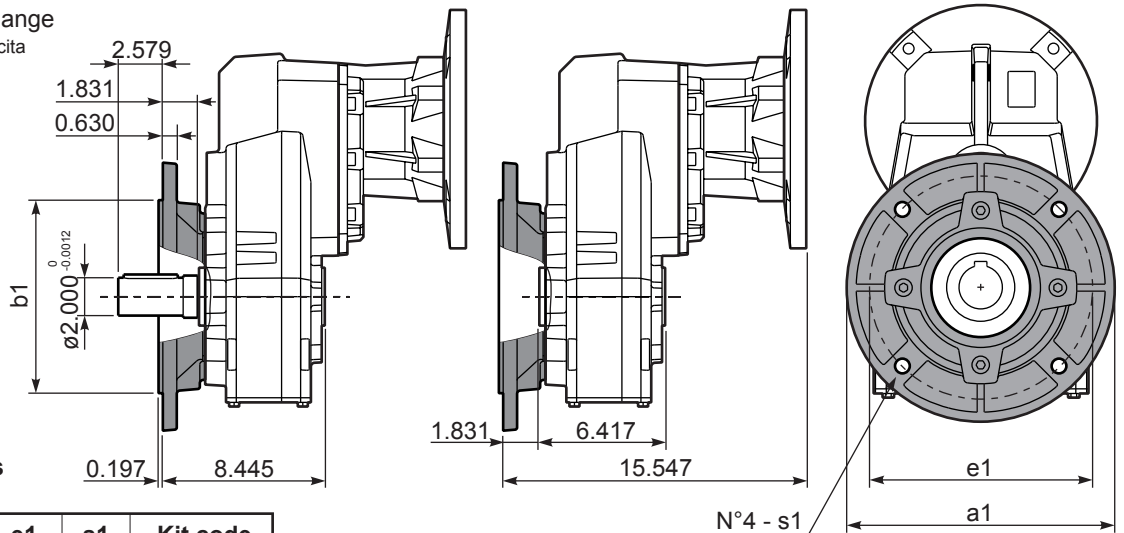
- Available torque arms, see our web site
Bracci di reazione disponibili, consulta il nostro sito web



Standard
Hollow shaft



PFC82...-F... Output flange
Flangia uscita

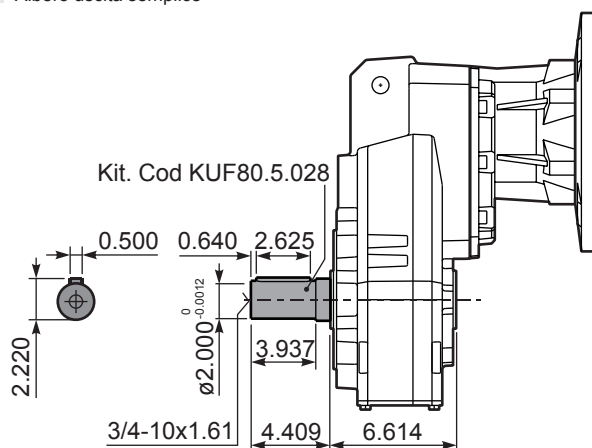


Available output flanges
Flange di uscita

a1	ø	b1	e1	s1	Kit code
11.811		9.055 ^{-0.0020} / _{-0.0038}	10.433	0.551	KF80.9.011
13.780		9.843 ^{-0.0020} / _{-0.0038}	11.811	0.709	KF80.9.012
15.748		11.811 ^{-0.0022} / _{-0.0043}	13.780	0.709	KF80.9.013

N°4 - s1

PFC82 A... Single output shaft
Albero uscita semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges					Output Shaft 	Ratios code
							-W	-X	-Y	AA			
							56C	143/5TC	182/4TC	213/5TC			
36.0	48.55	10	16436	1.1	11.31	18587					201315	01	
30.4	57.64	10	19515	1.0	9.52	18587					201313	02	
26.7	65.64	7.5	16667	1.1	8.36	18587					161315	03	
25.0	70.04	7.5	17784	1.0	7.84	18587					201311	04	
22.5	77.93	7.5	19789	0.9	7.04	18587					161313	05	
20.5	85.36	7.5	21674	0.9	6.43	18587					131315	06	
18.5	94.70	5	16030	1.2	5.80	18587					161311	07	
17.3	101.35	5	17156	1.1	5.42	18587					131313	08	
14.2	123.15	5	20846	0.9	4.46	18587					131311	09	
11.6	150.73	3	15310	1.2	3.64	18587					111311	10	
9.8	179.39	3	18220	1.0	3.06	18587					81313	11	
8.0	217.98	2	14760	1.3	2.52	18587					81311	12	
7.1	247.03	2	16727	1.0	2.06	17259					61313	13	
5.8	300.17	1.5	15244	1.2	1.83	18587					61311	14	

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 **FC83** 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 **FC83** 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.

E El reductor tamaño **FC83** 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.

H1	H4	H3	H2	H5	H6
204.13 oz	137.26 oz	137.26 oz	137.26 oz	239.33 oz	172.46 oz

AGIP Blasias 460

For all details on lubrication and plugs check our website [www.fc83.com](#)
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web [www.fc83.com](#) **tab. 1**

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = FR \cdot \frac{7.60}{X+5.95}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	207	1033	140	252	1258	70	315	1573
250	225	1123	120	256	1281	40	404	2022
200	238	1191	85	292	1460	15	539	2696

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

Input shaft
Albero in entrata

n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

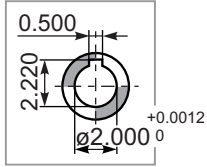
Compact gear 18587Ib in FC83

3D dimensions on the Web

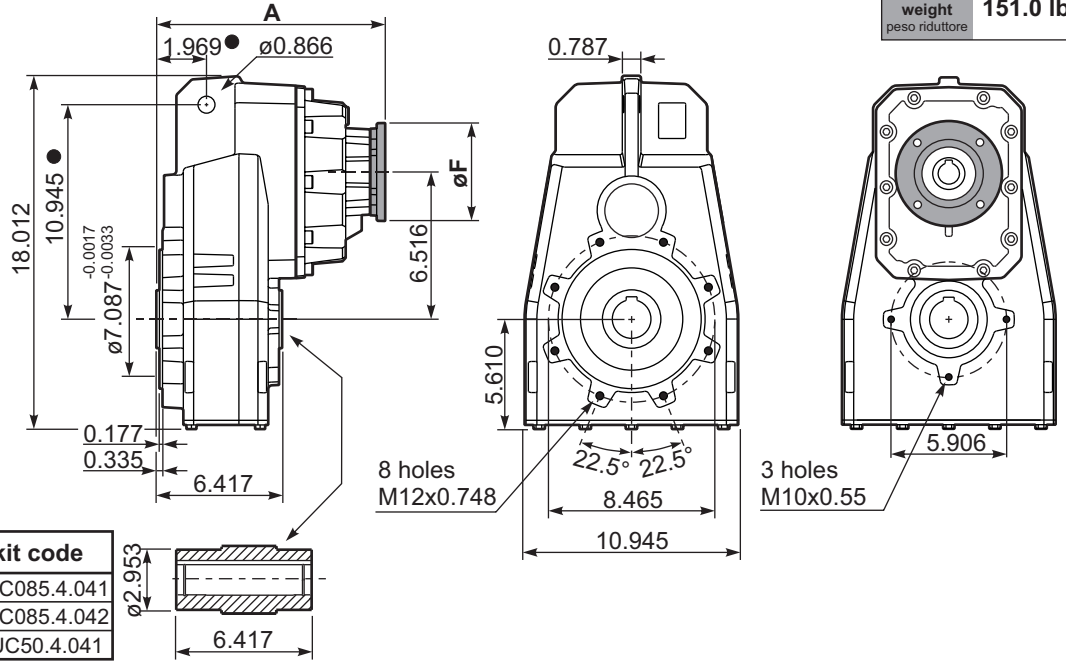
PFC83C... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **151.0 lb**

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



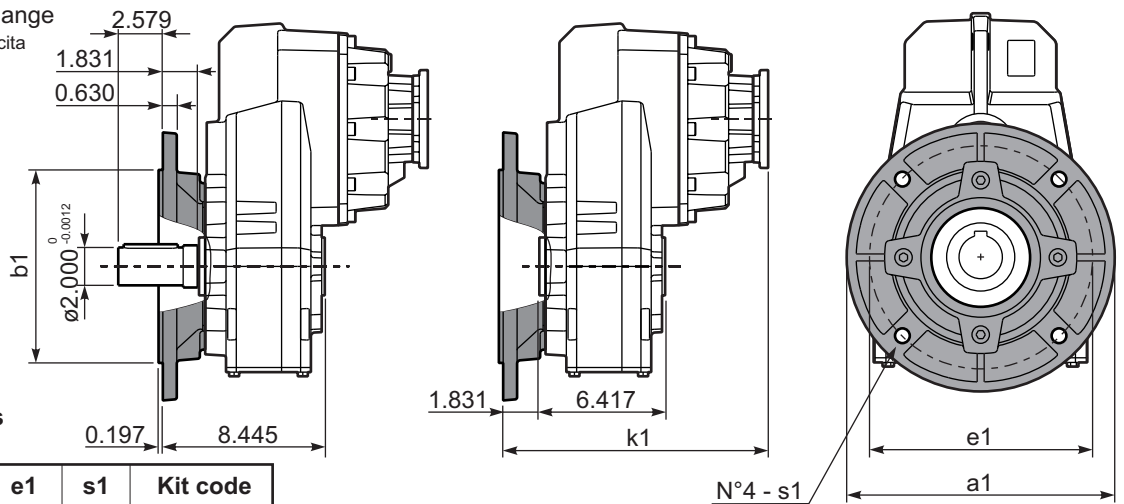
Standard
Hollow shaft



Nema flange	A	øF	kit code
56C-143/5TC	11.768	6.50	KUC085.4.041
182/4TC	12.472	8.88	KUC085.4.042
213/5TC	12.988	8.88	KUC50.4.041

PFC83...-F... Output flange
Flangia uscita

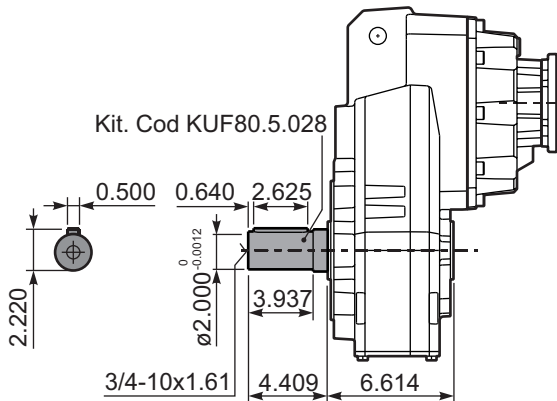
Nema flange	k1
56C-143/5TC	13.599
182/4TC	14.303
213/5TC	14.819



Available output flanges
Flange di uscita

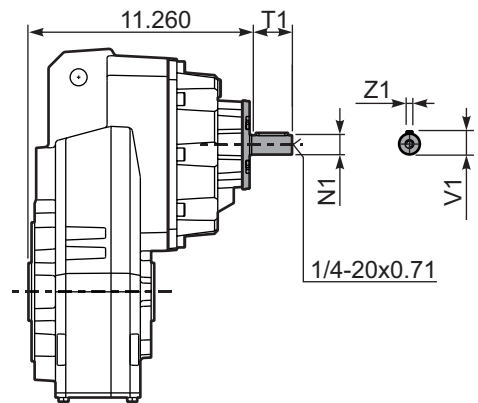
a1 ø	b1	e1	s1	Kit code
11.811	9.055 ^{-0.0020} / _{-0.0038}	10.433	0.551	KF80.9.011
13.780	9.843 ^{-0.0020} / _{-0.0038}	11.811	0.709	KF80.9.012
15.748	11.811 ^{-0.0022} / _{-0.0043}	13.780	0.709	KF80.9.013

PFC83 A... Single output shaft
Albero uscita semplice



Kit. Cod KUF80.5.028

RFC83C... Input Shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U

Aluminum and cast iron helical bevel gearbox

A modular and compact product
Very energy efficient drive

Removable inspection cover

Allows periodic inspection of gearing during routine maintenance

Gears

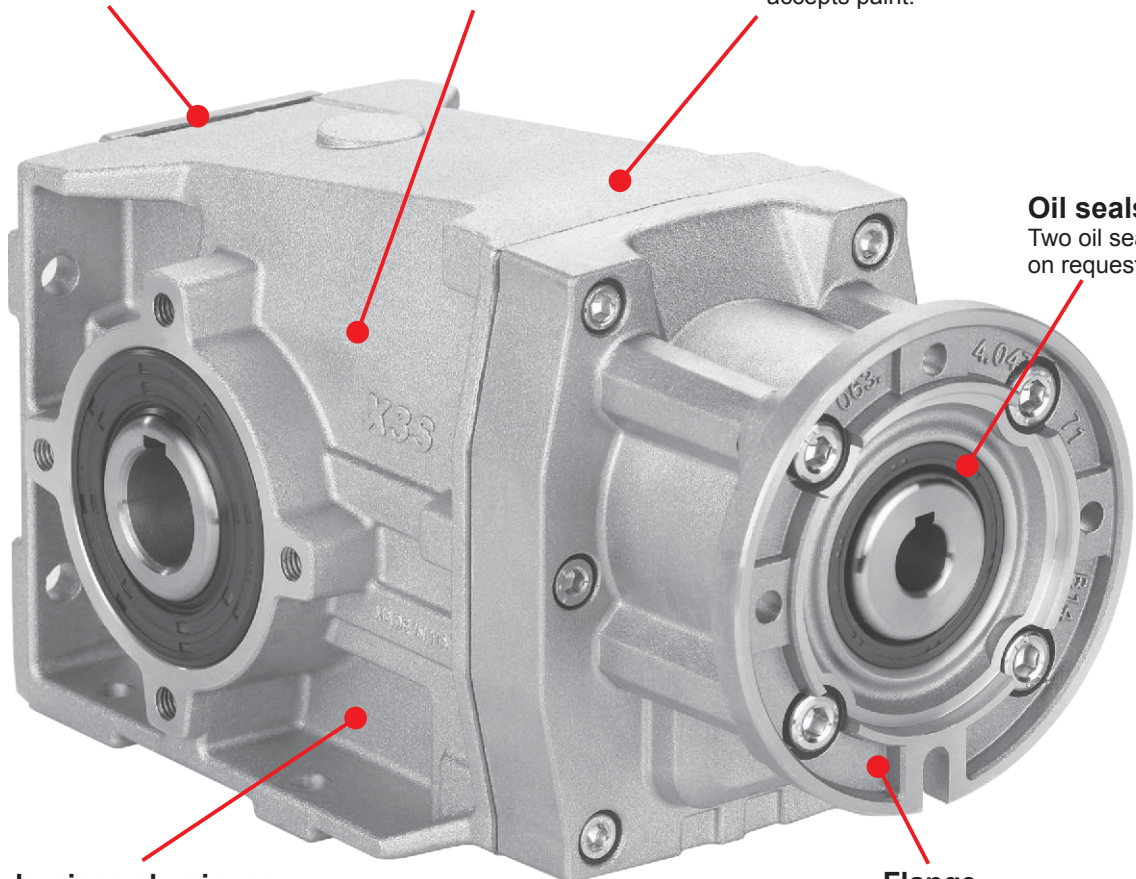
Hardened and ground gears

Alloy housing

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

Oil seals

Two oil seals on request



Single-piece aluminum

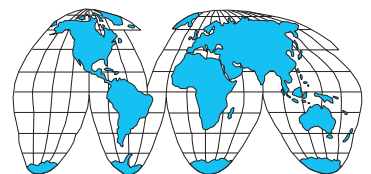
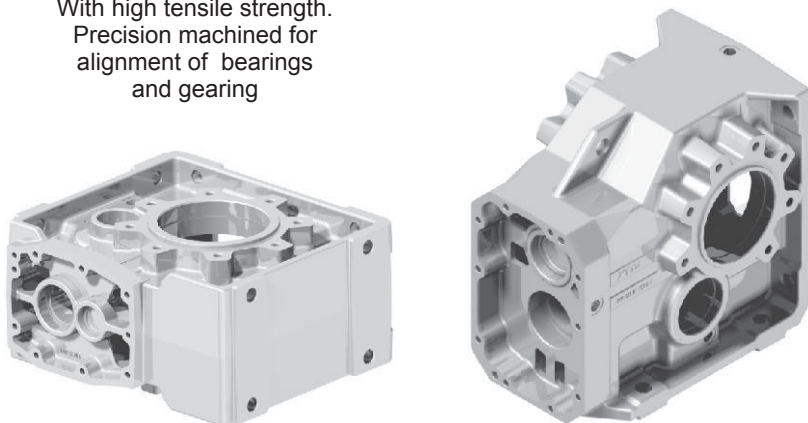
Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing

Flange

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

Cast Iron housing

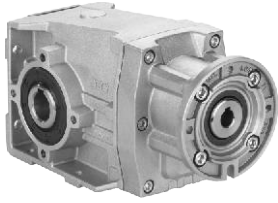
With high tensile strength. Precision machined for alignment of bearings and gearing



World wide sales network.

Specific type datasheet on page...

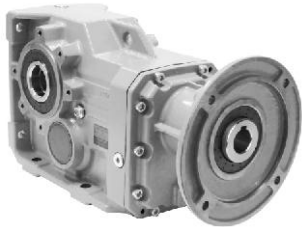
On page / A pagina / Auf Seite / À la page / En la página



Types / Tipi / Tipos →

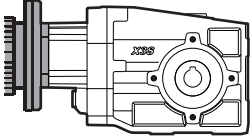
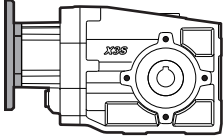
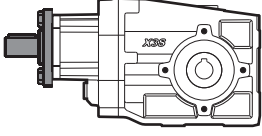
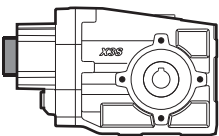
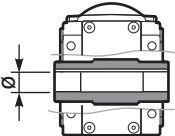
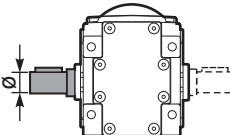
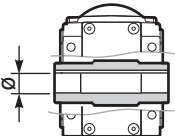
7-5	7-7	7-9	7-11	7-13	7-15	7-17	7-19	7-21
X22S 443lb in	X32S 797lb in	X33S 885lb in	X42A 1328lb in	X43A 1416lb in	X52A 2213lb in	X53A 2213lb in	X62A 3629lb in	X63A 3629lb in

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

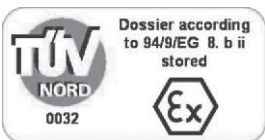


Types / Tipi / Tipos →

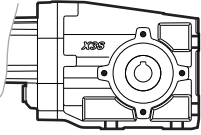
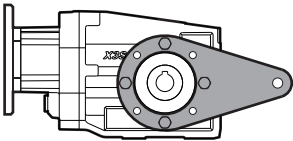
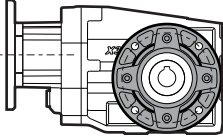
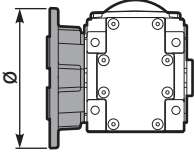



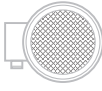



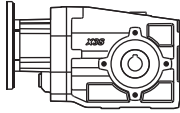

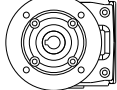
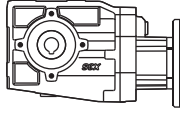
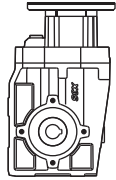
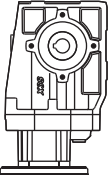
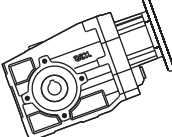
7-23	7-25	7-27	7-29	7-31	7-33	7-35	7-37	7-39	7-41
113C 5974lb in	114C 5974lb in	133C 8851lb in	134C 8851lb in	X93C 14161lb in	X94C 14604lb in	X103 25667lb in	X104 26552lb in	X113 39828lb in	X114 40713lb in

Type - Tipo - Typ	Size - Grandezza - Tomaño	Mounting - Montaggio Tipo de montaje	Rapporto - Ratio Relacion	Output shaft - Albero uscita Brida en solida
M	X22S	C	4.83	UB
<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 Trains Etapas</p> <p>Aluminum Alluminio Aluminio</p> <p>X22S X32S X42A X52A X62A</p> <p>3 Stages Riduzioni Stufen Trains Etapas</p> <p>X33S X43A X53A X63A</p> <p>3 Stages Riduzioni Stufen Trains Etapas</p> <p>Cast Iron Ghisa Fundicion</p> <p>113C 133C X93C X103 X113</p>	<p>Hollow output shaft C</p>  <p>Single output shaft A</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>See technical data table</p> <p>Vedi tabelle dati tecnici.</p> <p>Ver tabla datos técnicos</p>	<p>STANDARD</p> <p>Hollow output shaft</p> <p>X22S X32S X33S</p> <p>UB → ø0.750 X42A X43A</p> <p>UD → ø1.000 X52A X53A</p> <p>UF → ø1.250 X62A X63A</p> <p>UG → ø1.375 113C 114C</p> <p>UH → ø1.500 133C 134C</p> <p>UI → ø1.625 X93C X94C</p> <p>UL → ø2.000 X103 X104</p> <p>UO → ø2.375 X113 X114</p> <p>UQ → ø2.750</p> <p>Single and double output shaft</p> <p>UB X22S X32/3S ⇒ ø0.750</p> <p>UD X42/3A ⇒ ø1.000</p> <p>UF X52/3A ⇒ ø1.250</p> <p>UG X62/3A ⇒ ø1.375</p> <p>UI 113/4C 133/4C ⇒ ø1.625</p> <p>UL X93/4C ⇒ ø2.000</p> <p>UO X103/4 ⇒ ø2.375</p> <p>UR X113/4 ⇒ ø2.875</p>

7



On request we can deliver our products according to the ATEX
 A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX
 A pedido, se pueden enviar nuestros productos de acuerdo con las normas ATEX.

Type - Tipo - Typ	Output flange Flangia di uscita Brida en salida	Motor size - Grandezza motore Tamaño motor	Terminal box position Posizione morsettiere Posición caja de bornes	Mounting position Posizione montaggio Position de montaje	
BR	N	-W	B	B3	
 <p>FB Forma base Universal</p>  <p>BR Braccio di reazione Reaction arm</p>  <p>-F Flangia uscita output flange</p>	 <p>N Senza flangia Without flange</p> <p>X22S</p> <p>0 ⇨ $\varnothing 4.331$ 1 ⇨ $\varnothing 4.724$</p> <p>X32S X33S</p> <p>1 ⇨ $\varnothing 4.724$ 2 ⇨ $\varnothing 6.299$</p> <p>X42-3A X52-3A X62-3A</p> <p>2 ⇨ $\varnothing 6.299$ 3 ⇨ $\varnothing 7.874$ 4 ⇨ $\varnothing 9.843$</p> <p>113C 114C X93C X94C</p> <p>C ⇨ $\varnothing 11.024$ L ⇨ $\varnothing 11.024$</p> <p>133C 134C</p> <p>C ⇨ $\varnothing 12.598$</p> <p>X103 X104</p> <p>6 ⇨ $\varnothing 13.780$</p> <p>X113 X114</p> <p>7 ⇨ $\varnothing 17.717$</p>	<p>Flange Flangia</p>  <p>Nema</p> <p>-W=56C -X=143/5TC -Y=182/4TC AA=213/5TC AB=254/6TC AC=284/6TC AD=324/6TC</p> <p>Type R Tipo R</p>  <p>X22S X33S X43A</p> <p>-K ⇨ $\varnothing 0.625$</p> <p>X33S X42A X53A X63A 114C 134C</p> <p>-K ⇨ $\varnothing 0.625$ -J ⇨ $\varnothing 0.750$</p> <p>X52A X62A 113C 133C X94C</p> <p>-J ⇨ $\varnothing 0.750$ -N ⇨ $\varnothing 0.875$</p>	<p>Without flange Senza flangia</p>  <p>X22S X33S X43A</p> <p>-K ⇨ $\varnothing 0.625$ -N ⇨ $\varnothing 0.875$</p> <p>X52A X62A 113C 133C X94C</p> <p>-K ⇨ $\varnothing 0.625$ -N ⇨ $\varnothing 0.875$ -S ⇨ $\varnothing 1.125$</p> <p>X93C X104 X114</p> <p>-S ⇨ $\varnothing 1.125$ UA ⇨ $\varnothing 1.375$ UB ⇨ $\varnothing 1.625$</p> <p>X103 X113</p> <p>UC ⇨ $\varnothing 1.875$ UD ⇨ $\varnothing 2.125$</p>	 <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 Specificare solo per posizione verticale</p>

FORMULE UTILI / USEFUL FORMULAS / FÓRMULAS ÚTILES

POTENZA RICHIESTA / REQUIRED POWER / POTENCIA NECESARIA

Lifting / sollevamento / elevación

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

Rotation / rotazione / rotacion

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

Linear movement / traslazione / translacion

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

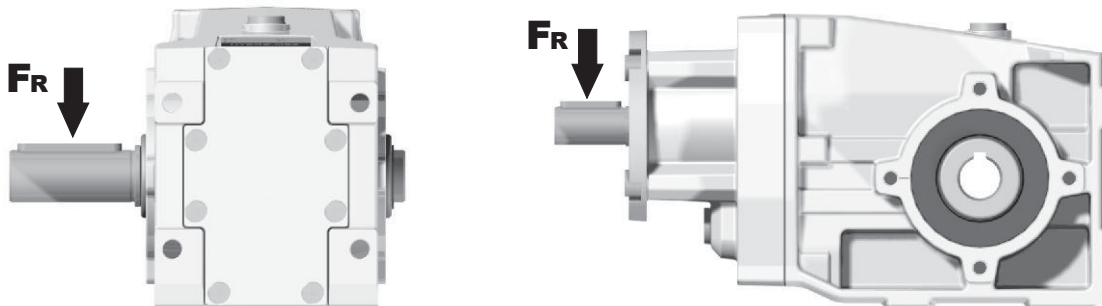
TORQUE / COPPIA / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / 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.
- Cargas radiales, generada por transmisiones externas, aplicadas sobre los ejes de entrada y/o salida



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

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

M	Momento torcente / Output torque / Par torsion
d	Diametro primitivo / Diam. of driving element / Diámetro primitivo
f_k	Coefficiente di trasformazione / Factor / Coeficiente de transmisión 1.15 Ingranaggi / Gearwheels / Engranaje 1.25 Catena / Chain sprockets / Cadena 1.75 Cinghia Trapezoidale / Narrow v-belt pulley / Correa trapezoidal 2.50 Cinghia piatta / Flat-belt pulley / 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.
- 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 Cómo seleccionar un reductor

B Output speed
Velocità in uscita
Velocidad de salida

Nominal power
Potenza nominale
Potencia nominal

A Nominal torque
Momento torcente nominale
Par de torsión nominal

Flange code
Codice flangia
Código bridas

Input speed
Velocità in entrata
Velocidad de entrada

Gear size
Grandezza riduttore
Tamaño reductor

Motor power
Potenza motore
Potencia motor

X22S

Angletech Gear **443lb in**

Rating - Aluminum
HELICAL-BEVEL GEARBOXES

QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹			
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft	Ratio code
362	4.83	1	167	1.6	1.59	266	-W	-		01
237	7.40	1	256	1.0	1.04	266	56C	-		02
183	9.58	1	331	1.1	1.07	354				03
159	10.98	1	380	1.0	1.05	398				04

C Ratio
Rapporto
Relación

Transmitted torque
Momento torcente trasmesso
Par transmitido

Service factor
Fattore di servizio
Factor de servicio

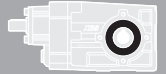
Output shaft diam.
Diam. albero uscita
Diametro eje de salida

Notes
Note
Notas

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

D	Motor flange available Flange disponibili Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Disponibile también sin casquillo

A	Select required torque (according to service factor)	Seleziona la coppia desiderata (comprensiva del fattore di servizio)	Max. Drehmoment in Bezug zum Betriebsfaktor
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl
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
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor $f.s.$	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W	-		
362	4.83	1	167	1.6	1.59	266	56C	-	standard ø0.750	01
237	7.40	1	256	1.0	1.04	266				02
183	9.58	1	331	1.1	1.07	354				03
159	10.98	1	380	1.0	1.05	398				04
134	13.07	0.75	339	1.2	0.88	398				05
119	14.66	0.75	380	1.0	0.79	398				06
111	15.79	0.75	410	1.0	0.73	398				07
104	16.81	0.75	436	0.9	0.69	398				08
88	20.00	0.5	346	1.2	0.61	425				09
80	21.93	0.5	379	1.2	0.58	443				10
72	24.18	0.5	418	1.1	0.53	443				11
60	29.04	0.5	502	0.9	0.44	443				12
52	33.57	0.33	383	1.2	0.38	443				13
45.3	38.67	0.33	441	1.0	0.33	443				14
39.4	44.44	0.25	384	1.2	0.29	443				15
29.6	59.18	0.25	512	0.9	0.22	443				16
24.9	70.24	0.25*	607	0.7	0.18	443				17

The dynamic efficiency is 0.96 for all ratios * 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}

- 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 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.

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					
8.80 oz	8.80 oz	8.80 oz	8.80 oz	15.13 oz	10.91 oz	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

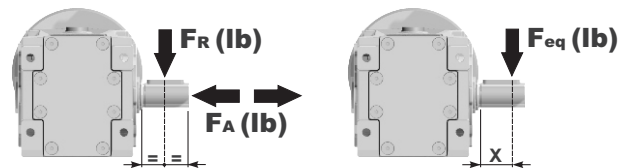
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

$$F_{eq} = F_R \cdot \frac{4.04}{X+3.21}$$

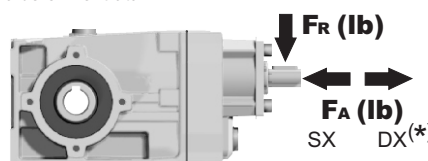


n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
400	81	405	100	99	495	25	99	495
250	85	427	75	99	495	15	99	495
150	94	472	50	99	495			

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



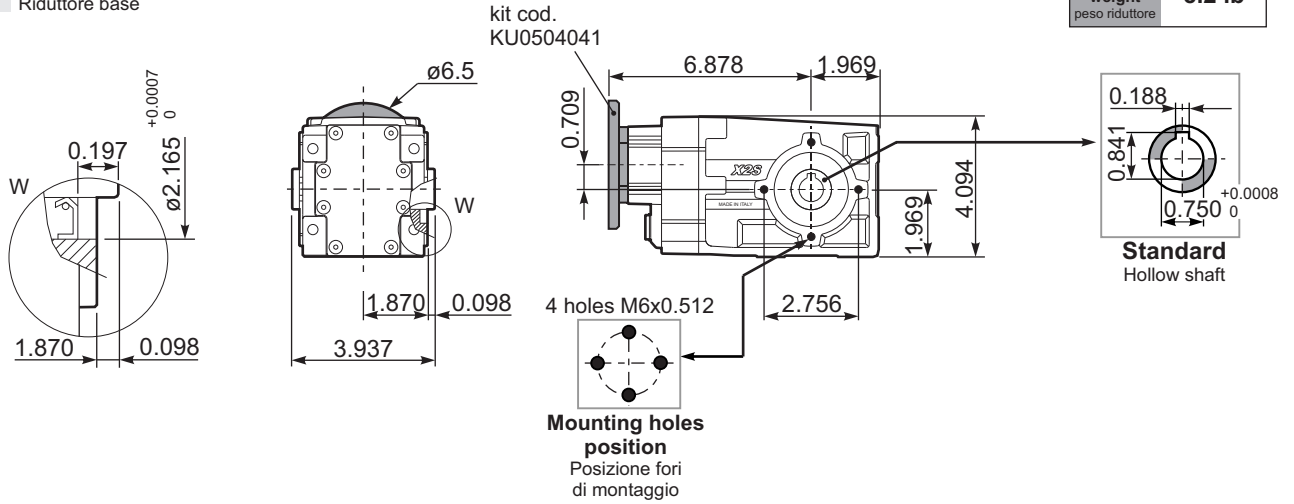
n_1 [min ⁻¹]	FA	FR
1750	31	157
1140	36	180

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

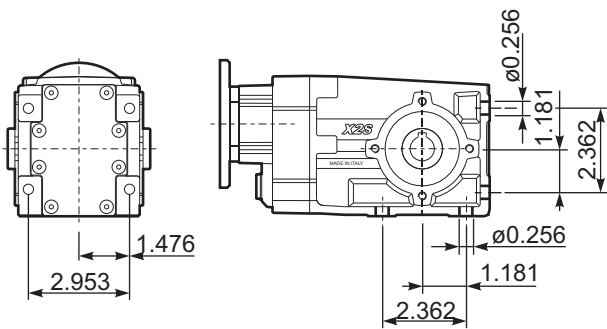
tab. 2

PX22SC... Basic Gearbox
Riduttore base

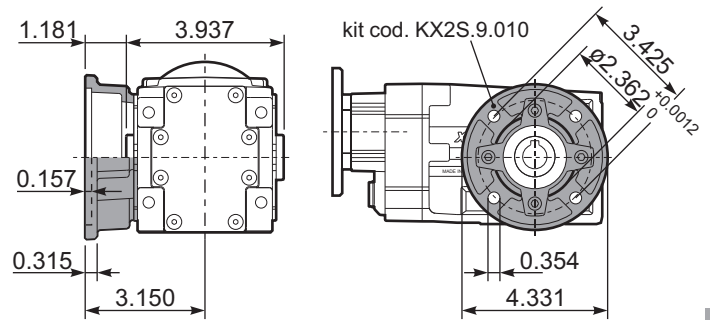
Gearbox weight 8.2 lb
peso riduttore



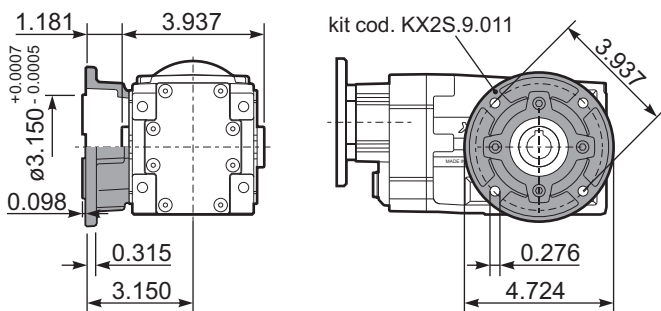
PX22S..-N.. Feet
Piedini



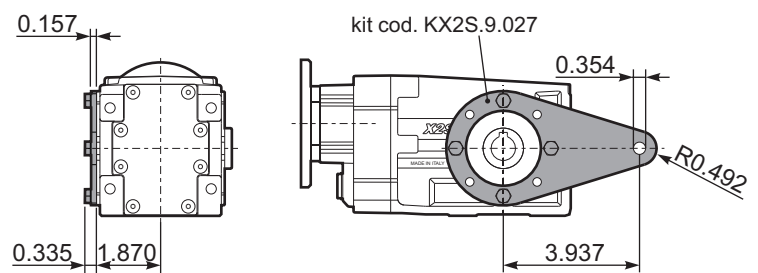
PX22S..-F0.. Output flange
Flangia uscita



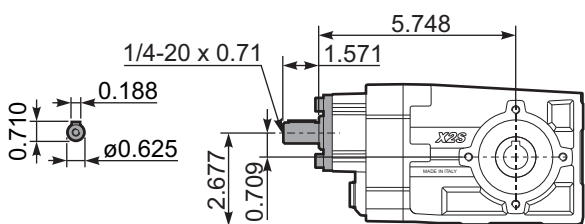
PX22S..-F1.. Output flange
Flangia uscita



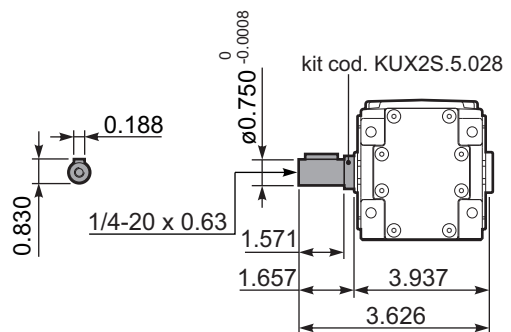
PX22SBR.. Reaction Arm
Braccio di reazione

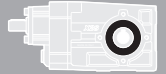


RX22S.. Input shaft
Albero in entrata



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





QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1750 min ⁻¹			
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
239	7.33	2	507	1.2	2.44	620			standard ø0.750	01
156	11.22	2	776	1.0	1.94	752				02
132	13.26	1.5	688	1.1	1.64	752				03
114	15.37	1.5	797	1.0	1.50	797				04
97	18.04	1.5	936	0.9	1.28	797				05
86	20.30	1	702	1.1	1.13	797				06
81	21.54	1	745	1.1	1.07	797				07
74	23.53	1	814	1.0	0.98	797				08
63	27.62	0.75	716	1.1	0.83	797				09
60	29.40	0.75	762	1.0	0.78	797				10
53	32.97	0.75	855	0.9	0.70	797				11
45.6	38.37	0.5	663	1.2	0.60	797				12
38.9	45.00	0.5	778	1.0	0.51	797				13
34.5	50.67	0.5	876	0.9	0.45	797				14
29.8	58.73	0.33	670	1.2	0.39	797				15
22.6	77.55	0.33	885	0.9	0.30	797				16

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

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

EN Unit **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.

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					
14.08 oz	21.12 oz	14.08 oz	21.12 oz	29.92 oz	21.12 oz	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

$F_{eq} = F_R \cdot \frac{4.61}{X+3.78}$

n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR	n ₂ [min ⁻¹]	FA	FR
250	90	450	75	126	629	15	126	629
150	101	506	50	126	629			
100	112	562	25	126	629			

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

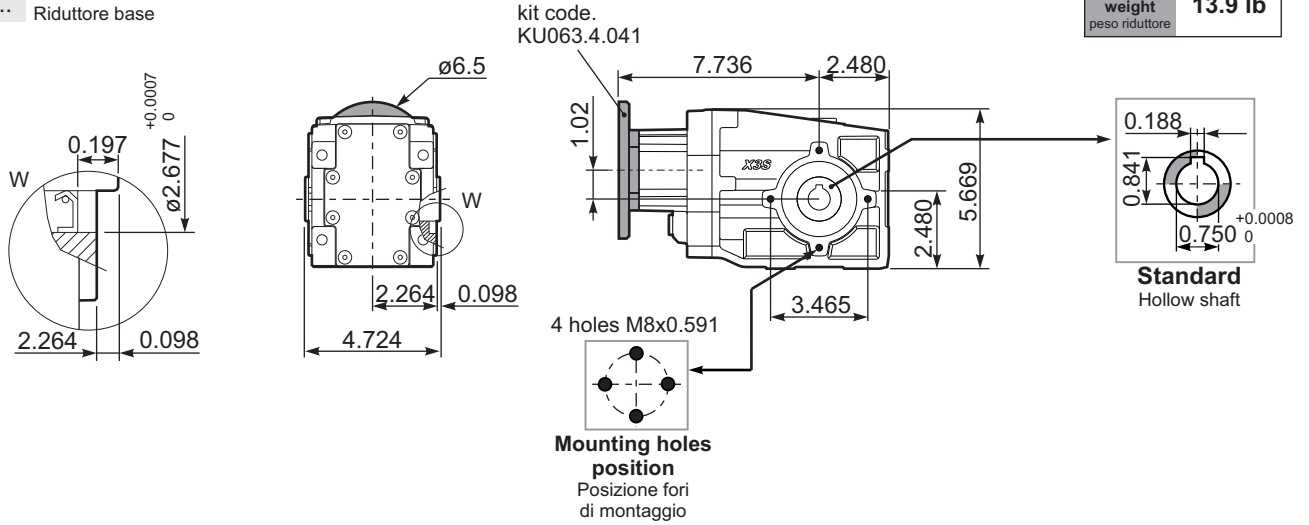
n ₁ [min ⁻¹]	FA	FR
1750	54	270
1140	63	315

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

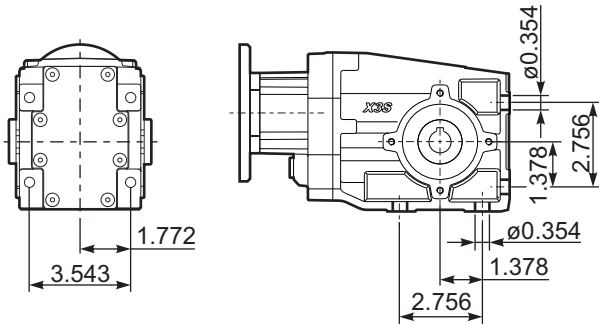
tab. 2

PX32SC... Basic Gearbox
Riduttore base

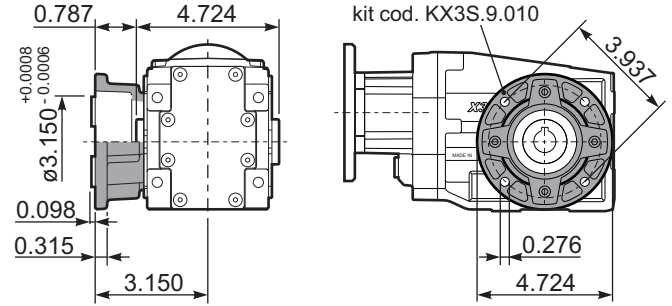
Gearbox weight **13.9 lb**
peso riduttore



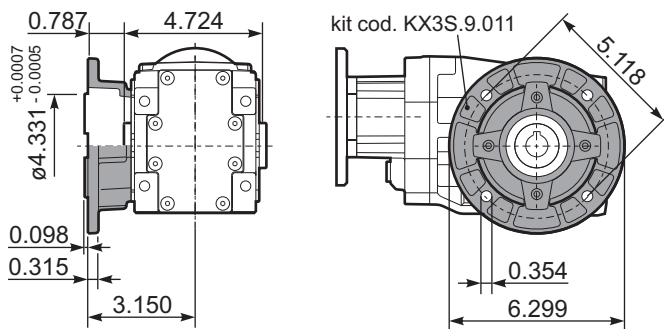
PX32S..-N.. Feet
Piedini



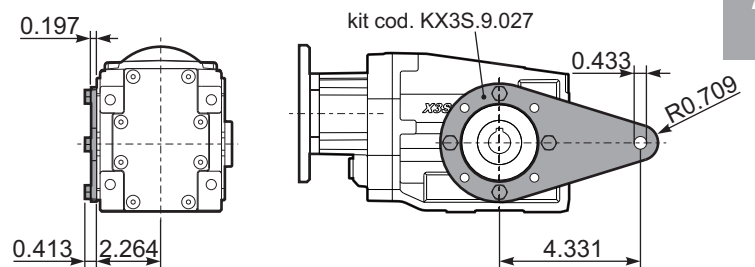
PX32S-F1.. Output flange
Flangia uscita



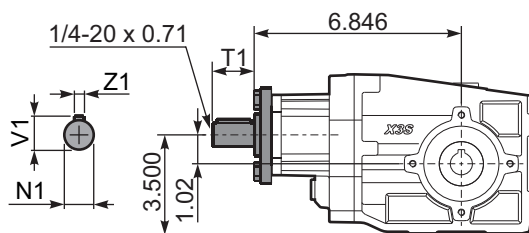
PX32S-F2.. Output flange
Flangia uscita



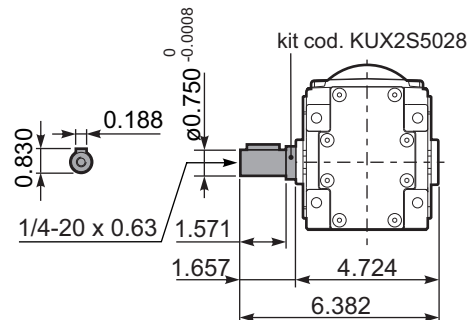
PX32SBR.. Reaction Arm
Braccio di reazione



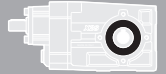
RX32S... Input shaft
Albero in entrata



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



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W	-		
							56C	-		
48.4	36.17	0.75	918	1.0	0.72	885			17179	02
39.6	44.21	0.5	748	1.2	0.59	885			19139	03
34.5	50.68	0.5	858	1.0	0.52	885			17139	04
31.6	55.36	0.5	937	0.9	0.47	885			17177	05
29.0	60.31	0.33	674	1.3	0.43	885			15139	06
26.6	65.88	0.33	736	1.2	0.40	885			15177	07
24.2	72.25	0.33	807	1.1	0.36	885			10179	08
22.0	79.64	0.33	890	1.0	0.33	885			13177	09
19.0	92.31	0.25	781	1.1	0.28	885			15137	10
18.3	95.65	0.25	810	1.1	0.27	885			9179	11
17.3	101.23	0.25	857	1.0	0.26	885			10139	12
13.7	127.37	0.25*	1078	0.8	0.21	885			7179	13
11.6	151.16	0.25*	1279	0.7	0.17	885			6179	14
9.8	178.46	0.25*	1511	0.6	0.15	885			7139	15
8.3	211.79	0.25*	1793	0.5	0.12	885			6139	16
7.6	231.37	0.25*	1958	0.5	0.11	885			6177	17
6.4	273.16	0.25*	2312	0.4	0.10	885			7137	18
5.4	324.18	0.25*	2802	0.3	0.08	885			6137	19

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

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.

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.

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					
24.64 oz	22.88 oz	14.08 oz	22.88 oz	33.44 oz	22.88 oz	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320		

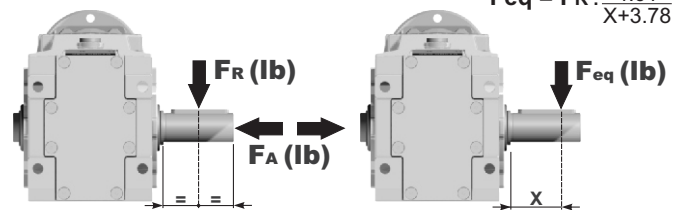
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

$$F_{eq} = F_R \cdot \frac{4.61}{X+3.78}$$

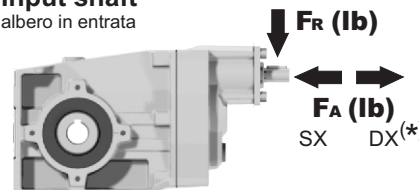


n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	90	450	75	126	629	15	126	629
150	101	506	50	126	629			
100	112	562	25	126	629			

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



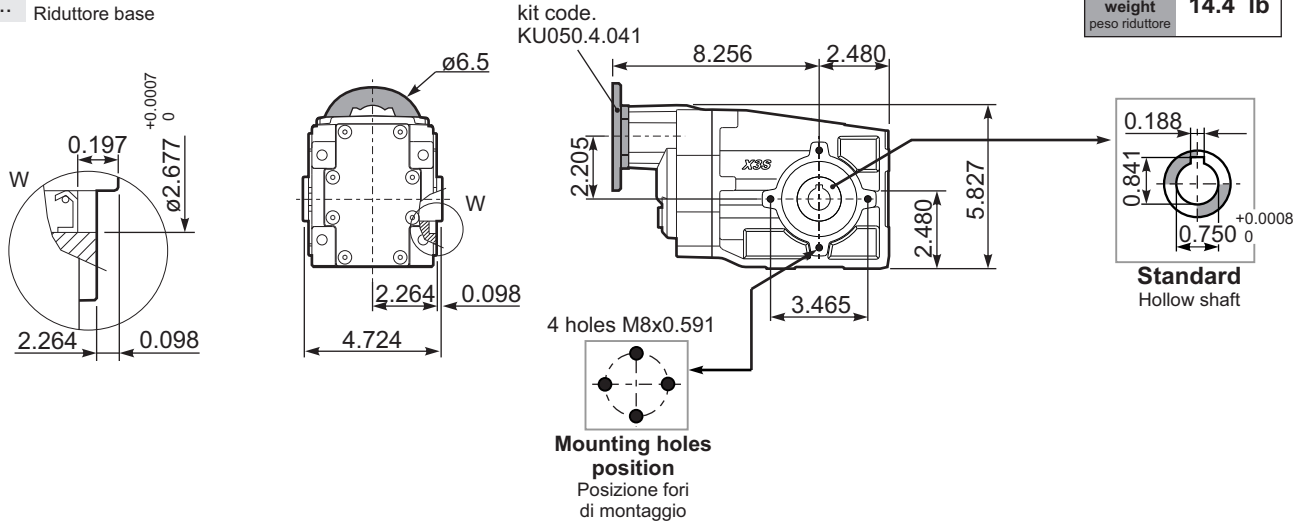
n_1 [min ⁻¹]	FA	FR
1750	31	157
1140	36	180

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

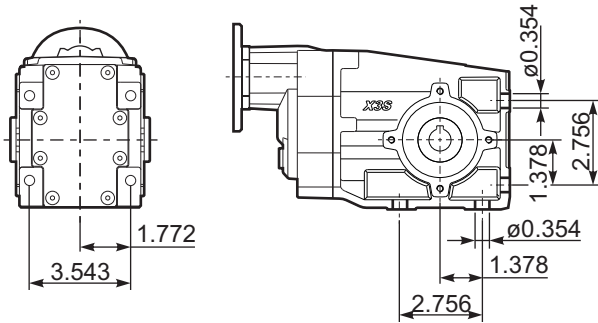
tab. 2

PX33SC... Basic Gearbox
Riduttore base

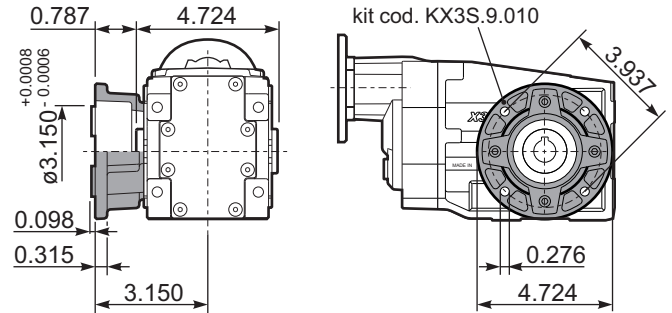
Gearbox weight **14.4 lb**
peso riduttore



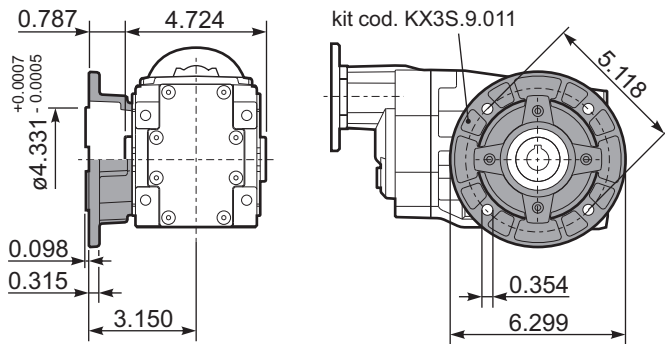
PX33S-N.. Feet
Piedini



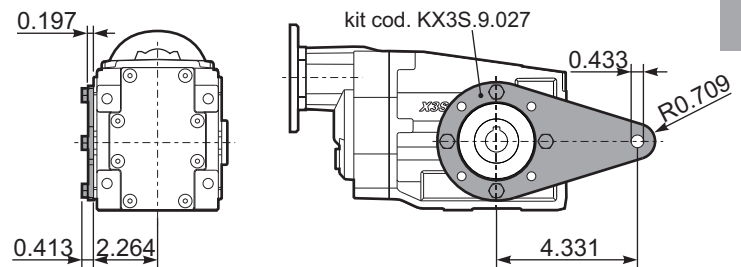
PX33S-F1.. Output flange
Flangia uscita



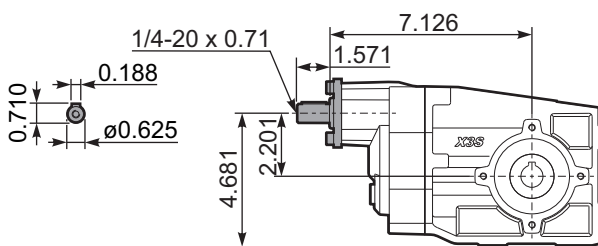
PX33S-F2.. Output flange
Flangia uscita



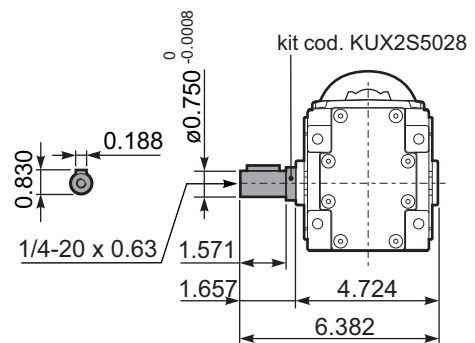
PX33SBR.. Reaction Arm
Braccio di reazione

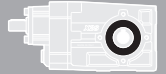


RX33S... Input shaft
Albero in entrata



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges					Output Shaft standard ø1.000	Ratios code
							-W 56C	-X 143/5 TC					
240	7.29	2	504	1.7	3.34	841					2811		01
156	11.20	2	774	1.7	3.43	1328					288		02
133	13.18	2	911	1.5	2.91	1328					1911		03
115	15.27	2	1056	1.3	2.51	1328					1711		04
98	17.93	2	1240	1.1	2.14	1328					1511		05
86	20.25	1.5	1050	1.3	1.90	1328					198		06
82	21.40	1.5	1110	1.2	1.79	1328					1311		07
75	23.47	1.5	1217	1.1	1.64	1328					178		08
64	27.55	1.5	1429	0.9	1.39	1328					158		09
60	29.21	1	1010	1.3	1.31	1328					1011		10
53	32.88	1	1137	1.2	1.17	1328					138		11
45.9	38.12	1	1318	1.0	1.01	1328					911		12
39.0	44.89	0.75	1164	1.1	0.86	1328					108		13
34.8	50.34	0.75	1305	0.9	0.67	1159					711		14
29.9	58.58	0.75	1519	0.9	0.66	1328					98		15
22.6	77.36	0.5	1337	1.0	0.50	1328					78		16

The dynamic efficiency is 0.96 for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 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.

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

Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
21.12 oz	26.40 oz	17.60 oz	24.64 oz	38.71 oz	21.12 oz	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

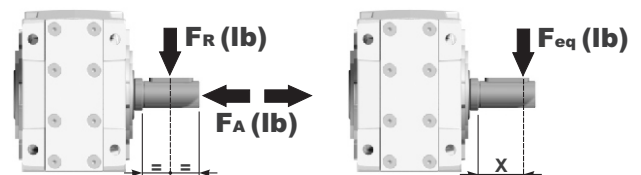
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

$$F_{eq} = F_R \cdot \frac{4.76}{X+3.68}$$

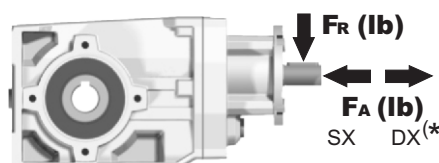


n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	112	562	75	180	899	15	216	1079
150	135	674	50	216	1079			
100	157	786	25	216	1079			

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



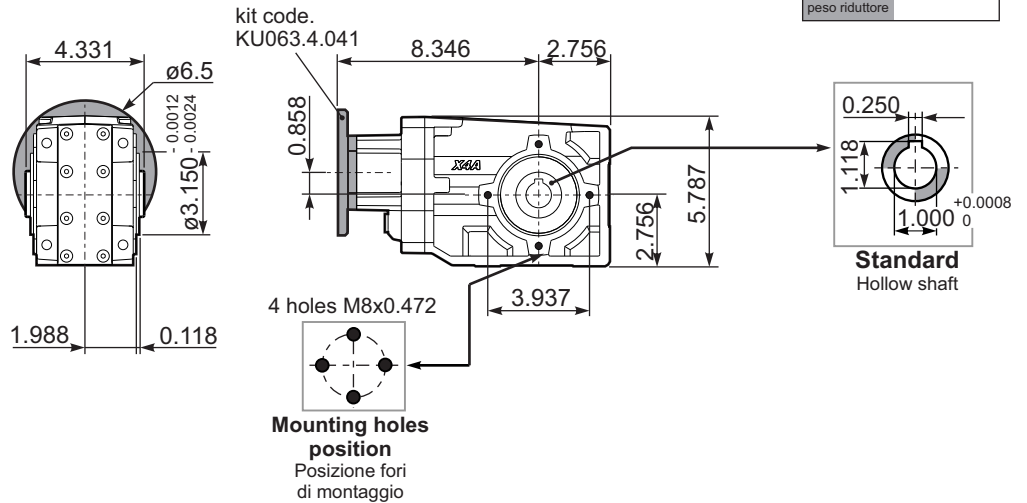
n_1 [min ⁻¹]	FA	FR
1750	54	270
1140	63	315

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

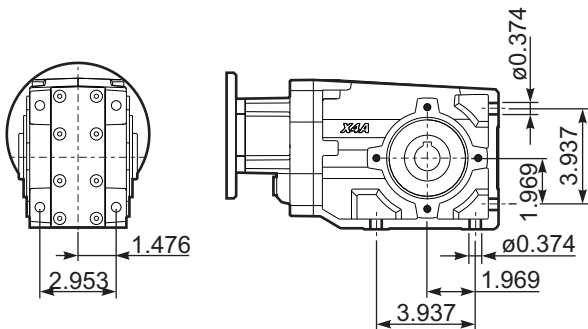
tab. 2

PX42AC... Basic Gearbox
Riduttore base

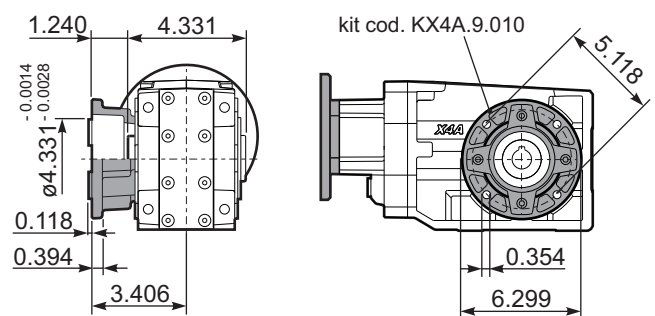
Gearbox weight **17.2 lb**
peso riduttore



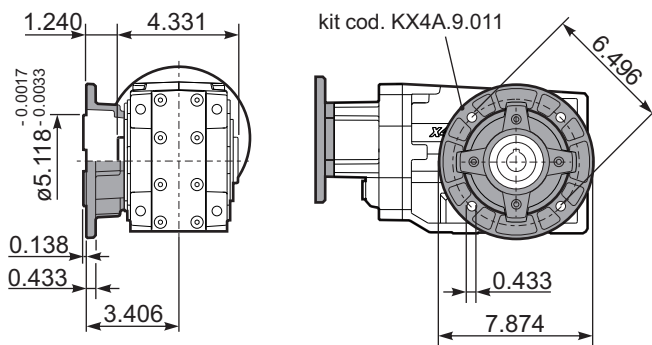
PX42A-N.. Feet
Piedini



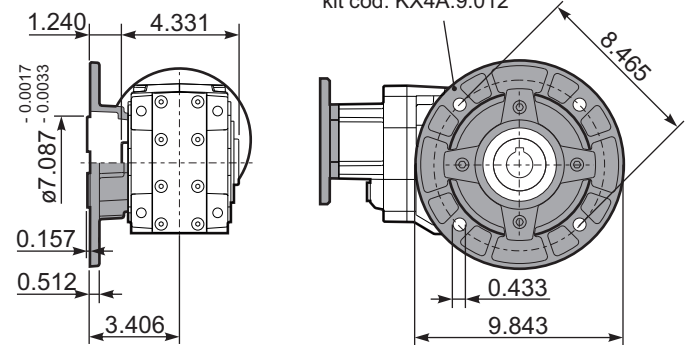
PX42A-F2.. Output flange
Flangia uscita



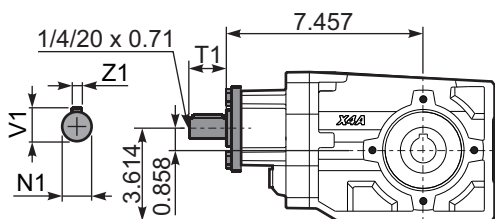
PX42A-F3.. Output flange
Flangia uscita



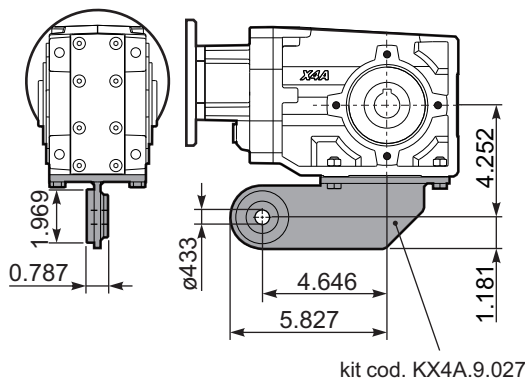
PX42A-F4.. Output flange
Flangia uscita



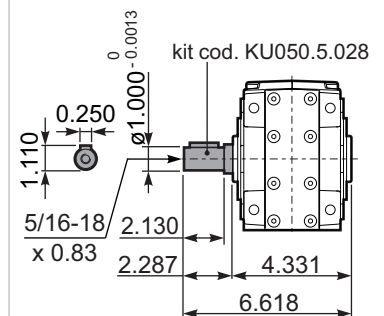
RX42A... Input shaft
Albero in entrata



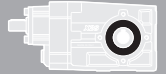
PX42ABR.. Reaction Arm
Braccio di reazione



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



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W	-		
							56C	-		
34.8	50.35	0.75	1278	1.0	0.78	1328			171311	01
31.7	55.22	0.75	1402	0.9	0.71	1328			17178	02
29.2	59.92	0.75	1521	0.9	0.65	1328			151311	03
26.6	65.72	0.5	1112	1.2	0.60	1328			15178	04
24.4	71.78	0.5	1215	1.1	0.55	1328			101711	05
22.0	79.44	0.5	1345	1.0	0.49	1328			13178	06
19.0	92.08	0.33	1029	1.3	0.43	1328			15138	07
18.4	95.03	0.33	1062	1.3	0.41	1328			91711	08
13.8	126.55	0.33	1414	1.0	0.33	1416			71711	09
13.1	133.15	0.25	1127	1.3	0.31	1416			91311	10
11.7	150.18	0.25	1271	1.1	0.28	1416			61711	11
9.9	177.30	0.25	1501	0.9	0.24	1416			71311	12
8.3	210.42	0.25*	1781	0.8	0.20	1416			61311	13
7.6	230.79	0.25*	1953	0.7	0.18	1416			6178	14
6.4	272.47	0.25*	2306	0.6	0.15	1416			7138	15
5.4	323.37	0.25*	2737	0.5	0.13	1416			6138	16

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

- 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.

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

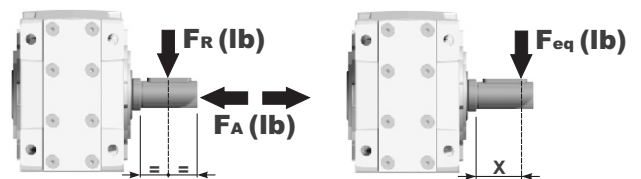
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
28.16 oz	28.16 oz	21.12 oz	28.16 oz	42.23 oz	24.64 oz	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

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

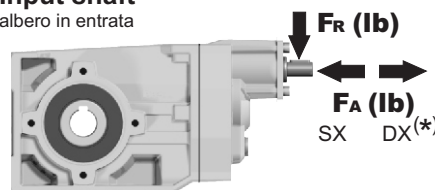
$$F_{eq} = F_R \cdot \frac{4.76}{X+3.68}$$



n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	112	562	75	180	899	15	216	1079
150	135	674	50	216	1079			
100	157	786	25	216	1079			

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

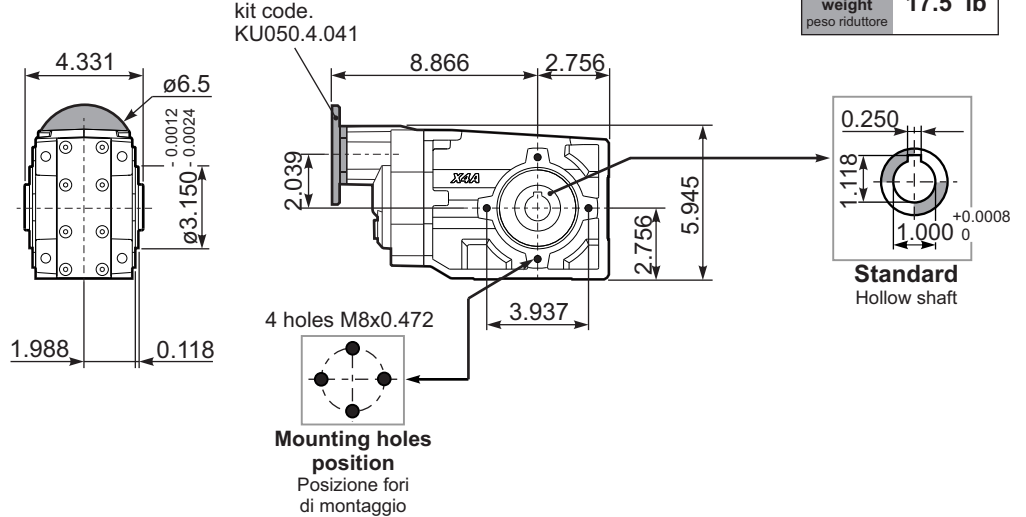


n_1 [min ⁻¹]	FA [N]	FR [N]
1750	31	157
1140	36	180

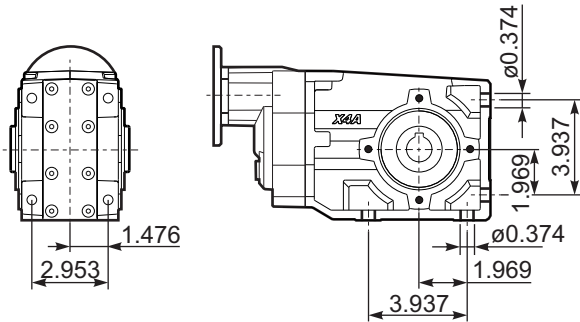
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

PX43AC... Basic Gearbox
Riduttore base

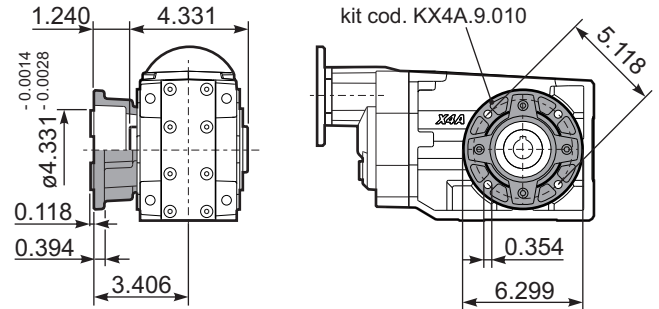
Gearbox weight **17.5 lb**
peso riduttore



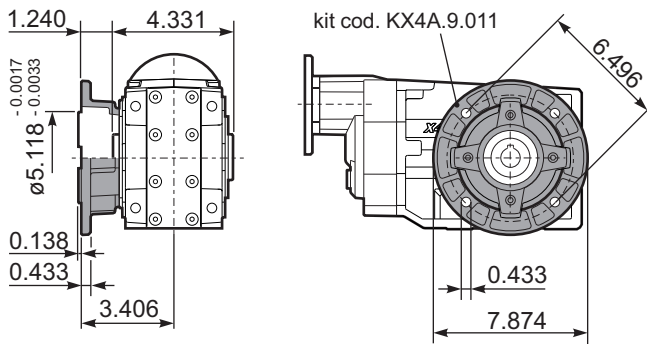
PX43A-N.. Feet
Piedini



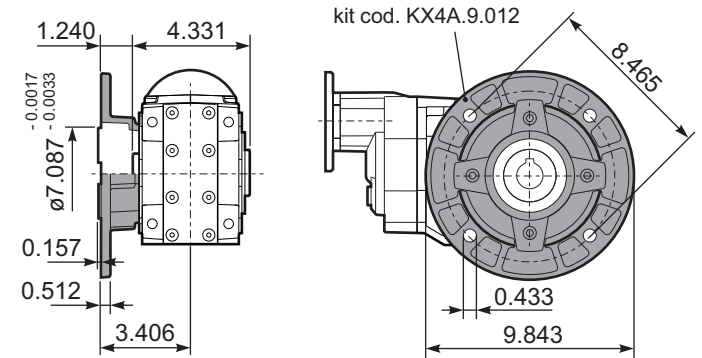
PX43A-F2.. Output flange
Flangia uscita



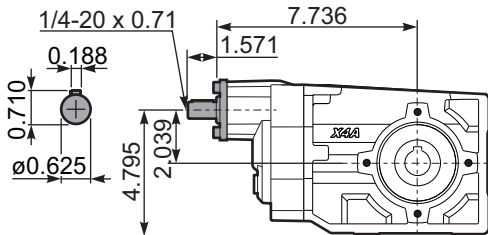
PX43A-F3.. Output flange
Flangia uscita



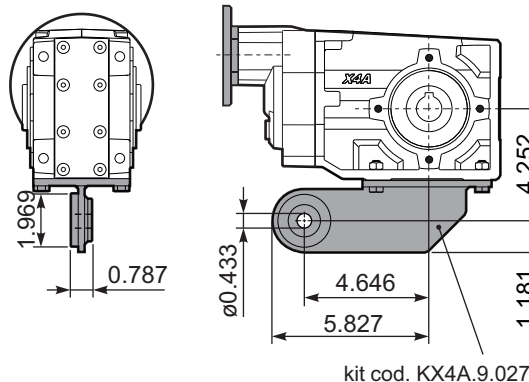
PX43A-F4.. Output flange
Flangia uscita



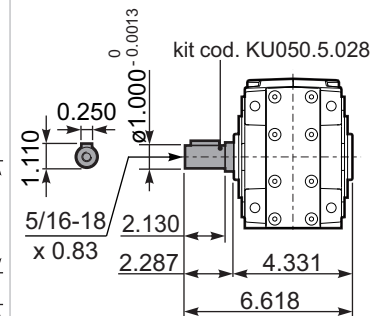
RX43A... Input shaft
Albero in entrata

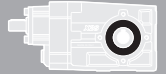


PX43ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W 56C	-X 143/5TC	-Y 182/4TC		
290	6.03	5	1042	1.1	5.73	1195				3011	01
189	9.26	5	1601	0.9	4.28	1372				308	02
154	11.36	5	1964	1.0	5.18	2036				2011	03
114	15.36	3	1593	1.4	4.17	2213				1611	04
100	17.46	3	1811	1.2	3.67	2213				208	05
88	19.97	3	2072	1.1	3.20	2213				1311	06
74	23.60	3	2448	0.9	2.71	2213				168	07
72	24.45	3	2536	0.9	2.62	2213				1111	08
57	30.69	2	2122	1.0	2.09	2213				138	09
49.5	35.35	1.5	1834	1.2	1.81	2213				811	10
46.6	37.57	1.5	1948	1.1	1.70	2213				118	11
35.9	48.68	1	1683	1.3	1.31	2213				611	12
32.2	54.33	1	1878	1.2	1.18	2213				88	13
23.4	74.81	0.75	1940	1.0	0.72	1859				68	14

The dynamic efficiency is 0.96 for all ratios

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit 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.

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						
31.68 oz	52.79 oz	26.40 oz	49.27 oz	68.63 oz	40.47 oz	Ask	
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

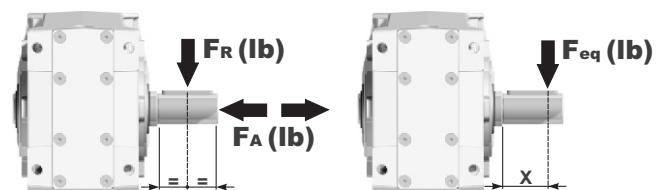
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

$$F_{eq} = F_R \cdot \frac{5.79}{X+4.51}$$

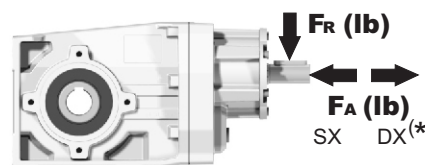


n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	135	674	75	184	921	15	373	1866
150	157	787	50	216	1079			
100	180	899	25	303	1517			

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
1750	101	506
1140	112	562

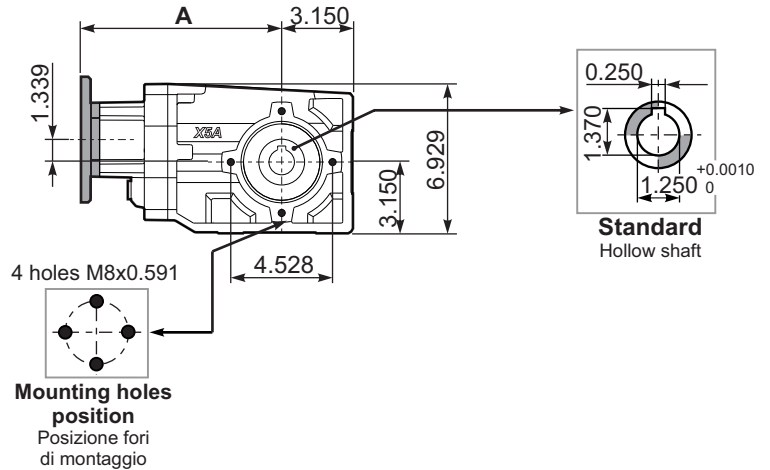
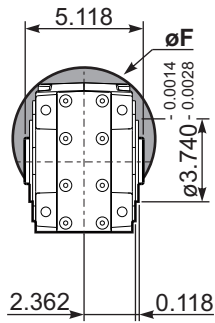
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

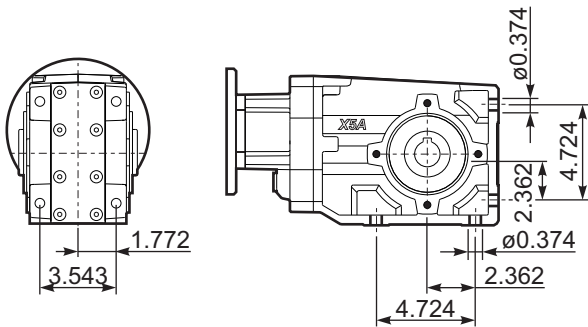
PX52AC... Basic Gearbox
Riduttore base

Gearbox weight **28.2 lb**
peso riduttore

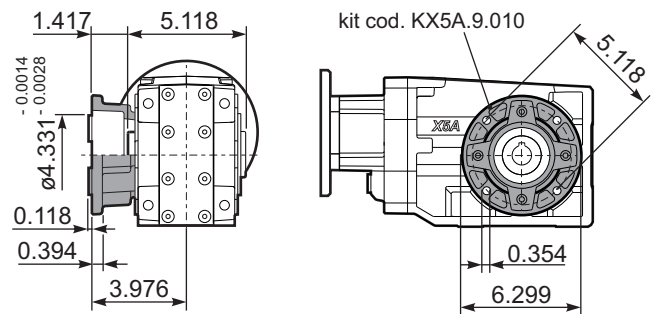
Nema flange	A	øF	kit code
56C-143/5TC	9.469	6.50	KUC085.4.041
182/4TC	10.173	8.88	KUC085.4.042



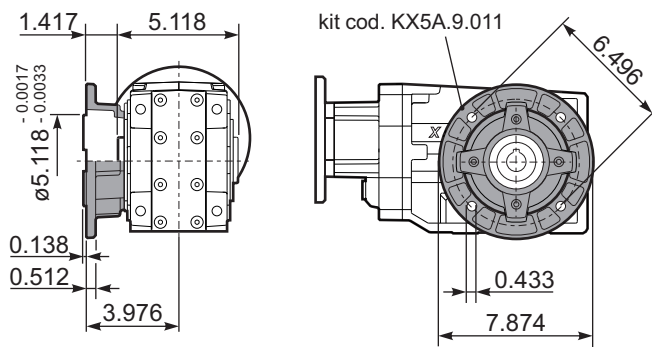
PX52A-N.. Feet
Piedini



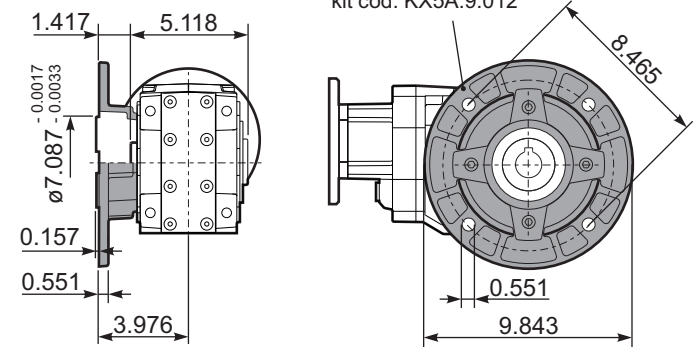
PX52A-F2.. Output flange
Flangia uscita



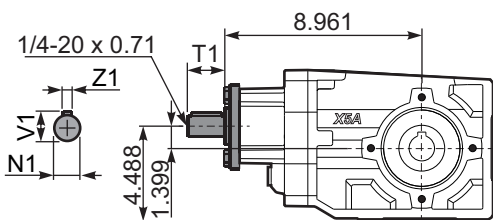
PX52A-F3.. Output flange
Flangia uscita



PX52A-F4.. Output flange
Flangia uscita

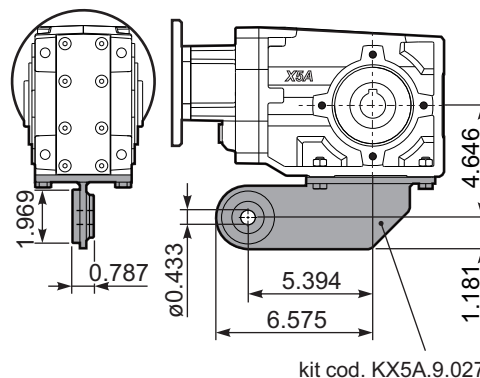


RX52A... Input shaft
Albero in entrata

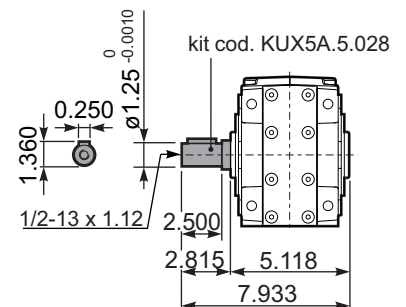


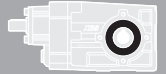
Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U

PX52ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
30.8	56.76	1	1922	1.2	1.15	2213			191311	01
26.6	65.79	1	2227	1.0	0.99	2213			171311	02
22.7	77.23	0.75	1961	1.1	0.85	2213			151311	03
20.1	87.23	0.75	2215	1.0	0.75	2213			19138	04
19.0	92.18	0.75	2341	0.9	0.71	2213			131311	05
17.4	100.47	0.5	1701	1.3	0.65	2213			19811	06
15.0	116.45	0.5	1971	1.1	0.56	2213			17811	07
13.9	125.82	0.5	2130	1.0	0.52	2213			101311	08
12.4	141.66	0.5	2398	0.9	0.46	2213			13138	09
10.7	163.16	0.33	1823	1.2	0.40	2213			13811	10
9.8	178.96	0.33	1999	1.1	0.37	2213			1788	11
9.1	193.36	0.33	2160	1.0	0.34	2213			10138	12
8.1	216.84	0.25	1835	1.2	0.30	2213			71311	13
6.9	252.36	0.25	2136	1.0	0.26	2213			9138	14
6.0	290.67	0.25	2460	0.9	0.22	2213			9811	15
5.3	333.23	0.25*	2820	0.8	0.20	2213			7138	16
4.6	383.82	0.25*	3249	0.7	0.17	2213			7811	17
3.9	446.70	0.25*	3781	0.6	0.15	2213			988	18
3.0	589.85	0.25*	4992	0.4	0.11	2213			788	19

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

- 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 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.

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					
B3	B6	B7	B8	V5	V6	V8
45.75 oz	54.55 oz	29.92 oz	51.03 oz	73.91 oz	43.99 oz	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

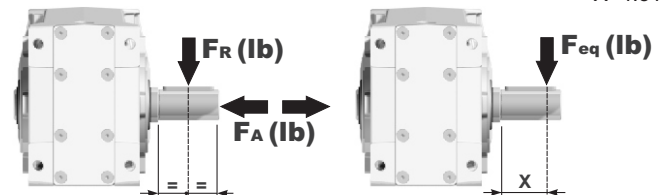
For all details on lubrication and plugs check our website **tab. 1**
Per maggiori dettagli su lubrificazione e tappi olio vedi il nostro sito web

RADIAL AND AXIAL LOADS

Output shaft

Albero di uscita

$$F_{eq} = F_R \cdot \frac{5.79}{X+4.51}$$

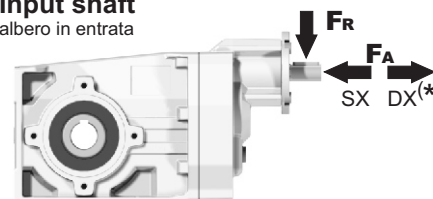


n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	135	674	75	184	921	15	373	1866
150	157	787	50	216	1079			
100	180	899	25	303	1517			

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



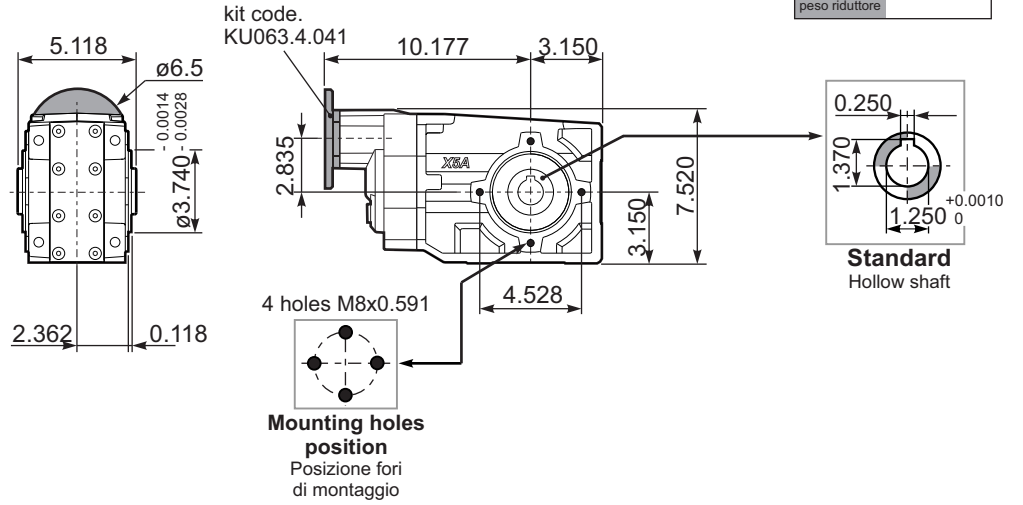
n_1 [min ⁻¹]	FA [N]	FR [N]
1750	90	450
1140	99	495

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

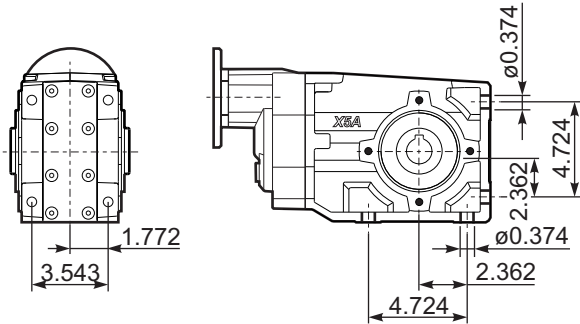
tab. 2

PX53AC... Basic Gearbox
Riduttore base

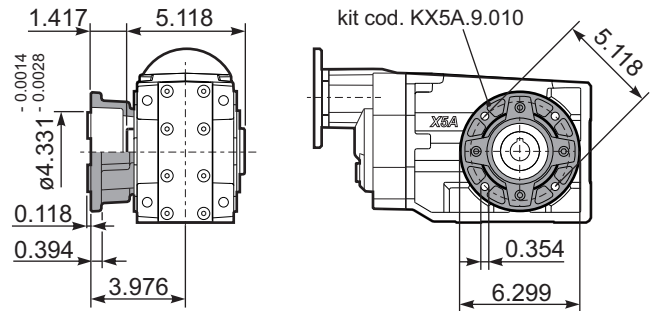
Gearbox weight **27.9 lb**
peso riduttore



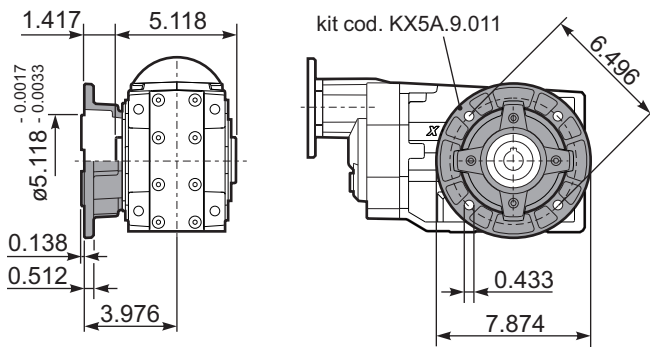
PX53A-N.. Feet
Piedini



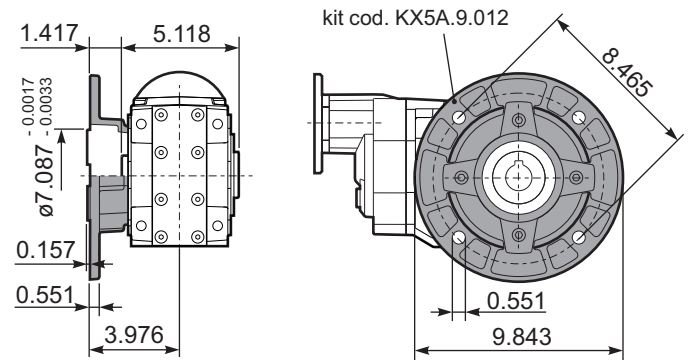
PX53A-F2.. Output flange
Flangia uscita



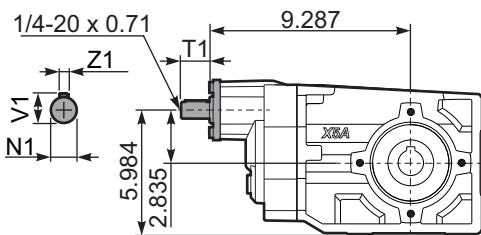
PX53A-F3.. Output flange
Flangia uscita



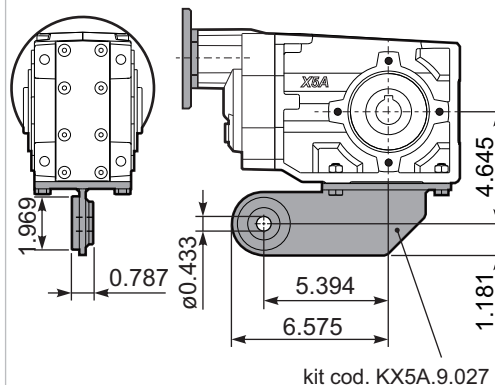
PX53A-F4.. Output flange
Flangia uscita



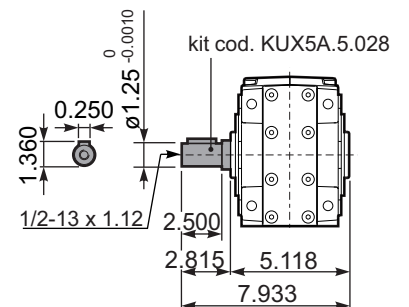
RX53A... Input shaft
Albero in entrata



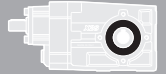
PX53ABR.. Reaction Arm
Braccio di reazione



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



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
290	6.03	10	2084	1.0	10.19	2124					3011	01
189	9.26	7.5	2402	1.0	7.46	2390					308	02
154	11.36	7.5	2946	1.1	7.89	3098					2011	03
114	15.36	5	2655	1.3	6.42	3408					1611	04
100	17.46	5	3018	1.2	5.87	3540					208	05
88	19.97	5	3453	1.1	5.25	3629					1311	06
74	23.60	5	4080	0.9	4.45	3629					168	07
72	24.45	5	4226	0.9	4.29	3629					1111	08
57	30.69	3	3184	1.1	3.42	3629					138	09
49.5	35.35	3	3667	1.0	2.97	3629					811	10
46.6	37.57	3	3897	0.9	2.79	3629					118	11
35.9	48.68	2	3366	1.0	1.92	3231					611	12
32.2	54.33	2	3757	1.0	1.93	3629					88	13
23.4	74.81	1	2587	1.2	1.23	3186					68	14

The dynamic efficiency is 0.96 for all ratios

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

EN Unit 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.

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.

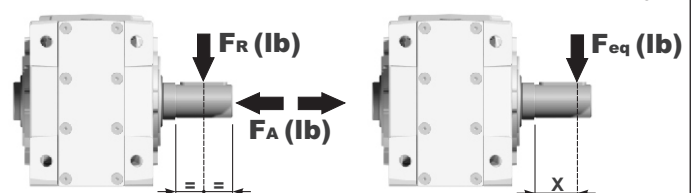
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio						
B3	B6	B7	B8	V5	V6	V8	V8
43.99 oz	59.83 oz	33.44 oz	56.31 oz	86,23 oz	52.79 oz	Ask	Ask
AGIP Telium VSF 320				SHELL Omala S4 WE 320			

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

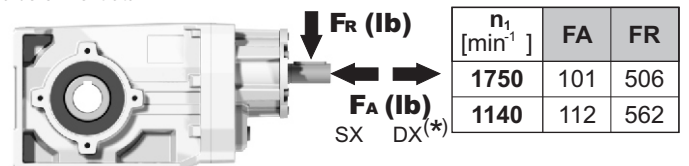
$$F_{eq} = F_R \cdot \frac{6.61}{X+5.22}$$



n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR	n_2 [min ⁻¹]	FA	FR
250	135	674	75	200	1000	15	373	1866
150	157	787	50	256	1281			
100	175	877	25	299	1495			

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
1750	101	506
1140	112	562

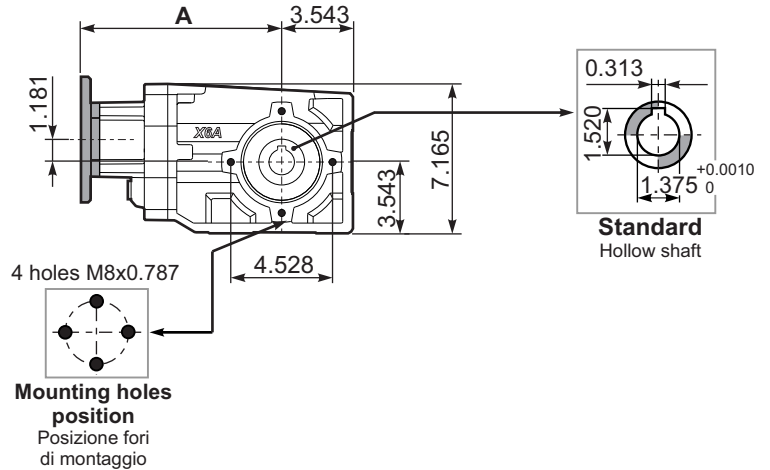
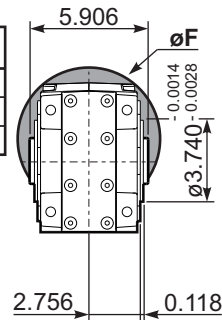
*Strong axial loads in the DX direction are not allowed.
Non sono consentiti forti carichi assiali con direzione DX

tab. 2

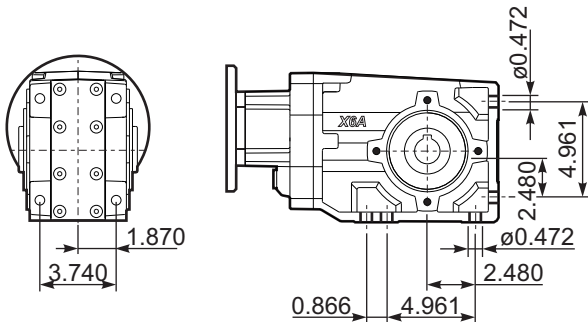
PX62AC... Basic Gearbox
Riduttore base

Gearbox weight **34.8 lb**
peso riduttore

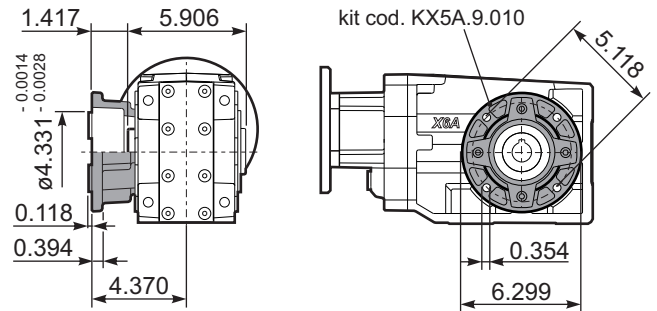
Nema flange	A	øF	kit code
56C-143/5TC	10.216	6.50	KUC085.4.041
182/4TC	10.921	8.88	KUC085.4.042
213/5TC	11.437	8.88	KUC50.4.041



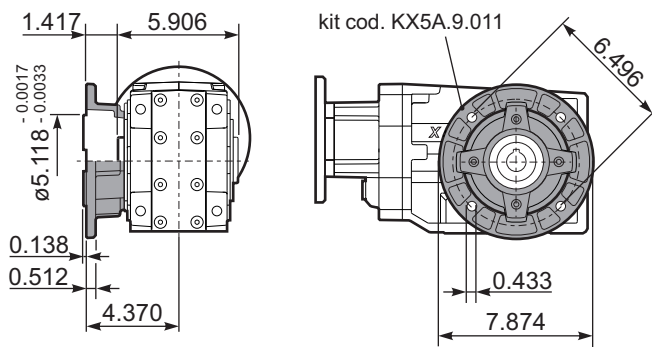
PX62A-N.. Feet
Piedini



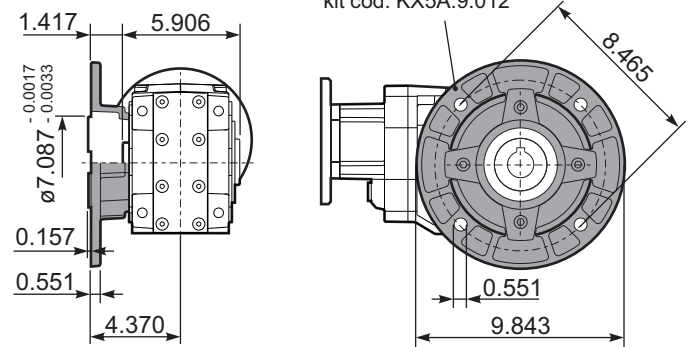
PX62A-F2.. Output flange
Flangia uscita



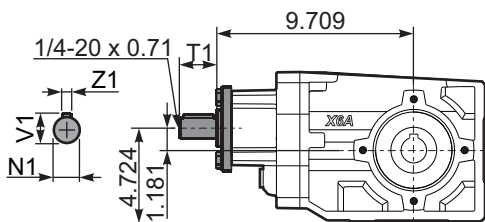
PX62A-F3.. Output flange
Flangia uscita



PX62A-F4.. Output flange
Flangia uscita

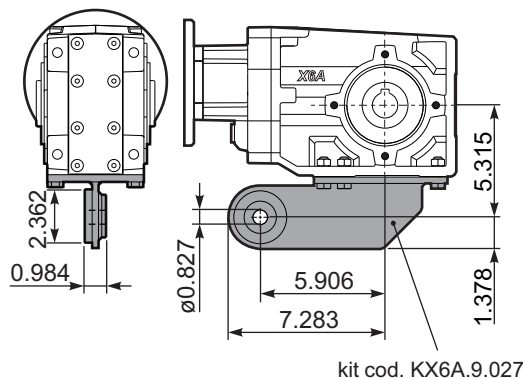


RX62A... Input shaft
Albero in entrata

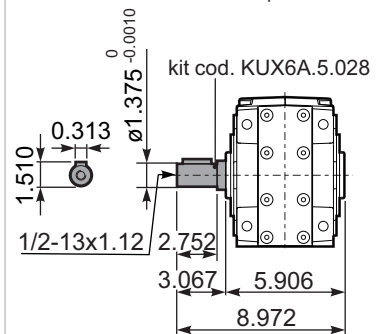


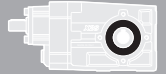
Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U

PX62ABR.. Reaction Arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC			
30.8	56.76	1.5	2883	1.3	1.89	3629			191311	standard ø1.375	01
26.6	65.79	1.5	3341	1.1	1.63	3629			171311		02
22.7	77.23	1.5	3922	0.9	1.39	3629			151311		03
20.1	87.23	1	2953	1.2	1.23	3629			19138		04
19.0	92.18	1	3121	1.2	1.16	3629			131311		05
17.4	100.47	1	3402	1.1	1.07	3629			19811		06
15.0	116.45	1	3943	0.9	0.92	3629			17811		07
13.9	125.82	0.75	3195	1.1	0.85	3629			101311		08
12.4	141.66	0.75	3597	1.0	0.76	3629			13138		09
10.7	163.16	0.5	2762	1.3	0.66	3629			13811		10
9.8	178.96	0.5	3030	1.2	0.60	3629			1788		11
9.1	193.36	0.5	3273	1.1	0.55	3629			10138		12
8.1	216.84	0.5	3671	1.0	0.49	3629			71311		13
6.9	252.36	0.33	2819	1.3	0.42	3629			9138		14
6.0	290.67	0.33	3248	1.1	0.37	3629			9811		15
5.3	333.23	0.33	3723	1.0	0.32	3629			7138		16
4.6	383.82	0.25	3249	1.1	0.28	3629			7811		17
3.9	446.70	0.25	3781	1.0	0.24	3629			988		18
3.0	589.85	0.25*	4992	0.7	0.18	3629			788		19

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

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.

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.

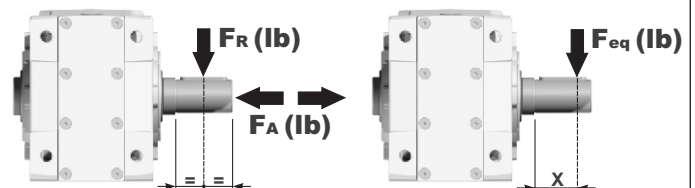
Standard supplied	For these mounting position specify in the order or add oil Per queste posizioni specificare in fase d'ordine o aggiungere olio					
B3	B6	B7	B8	V5	V6	V8
63.35 oz	63.35 oz	36.95 oz	59.83 oz	91.51 oz	58.07 oz	Ask
AGIP Telium VSF 320			SHELL Omala S4 WE 320			

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

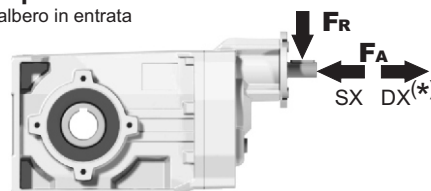
$$F_{eq} = F_R \cdot \frac{6.61}{X+5.22}$$



n_2 [min ⁻¹]	F_A	F_R	n_2 [min ⁻¹]	F_A	F_R	n_2 [min ⁻¹]	F_A	F_R
250	135	674	75	200	1000	15	373	1866
150	157	787	50	256	1281			
100	175	877	25	299	1495			

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



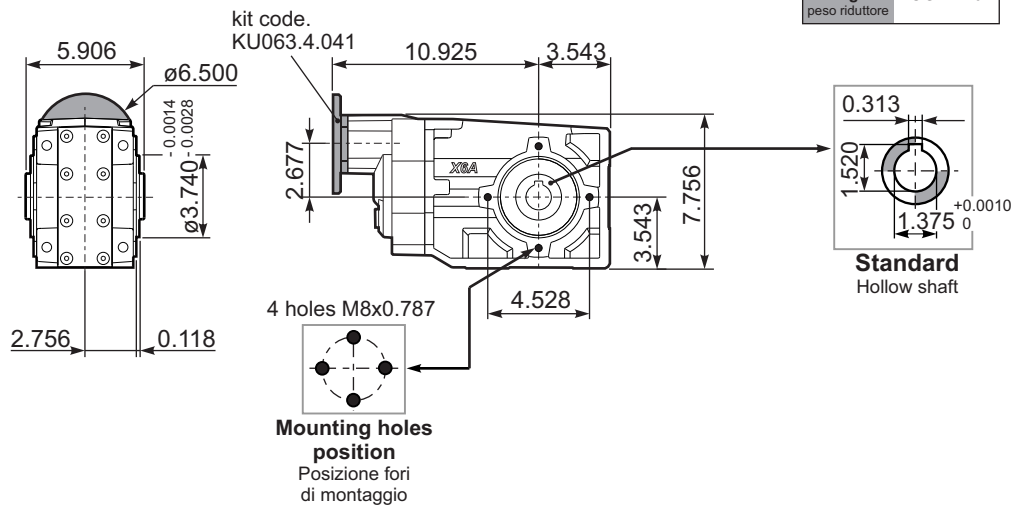
n_1 [min ⁻¹]	F_A [N]	F_R [N]
1750	90	450
1140	99	495

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

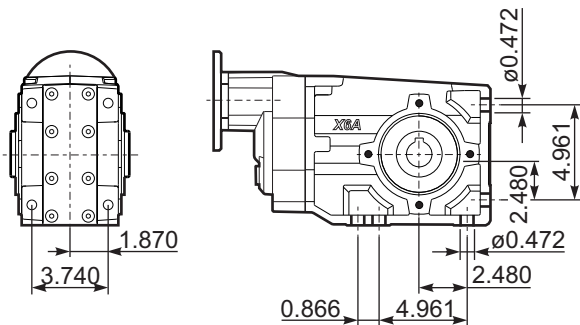
tab. 2

PX63AC... Basic Gearbox
Riduttore base

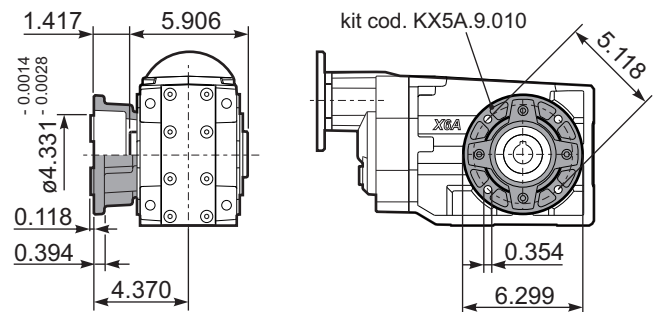
Gearbox weight
peso riduttore **35.2 lb**



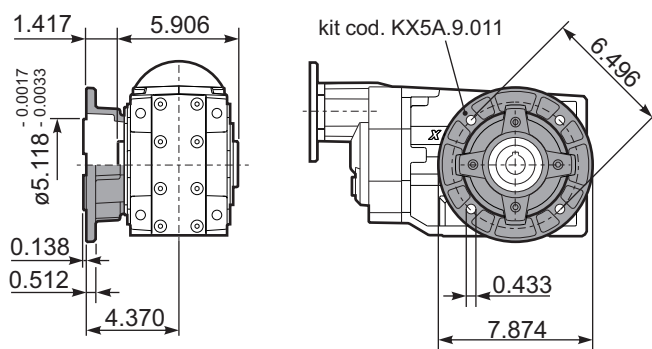
PX63A-N.. Feet
Piedini



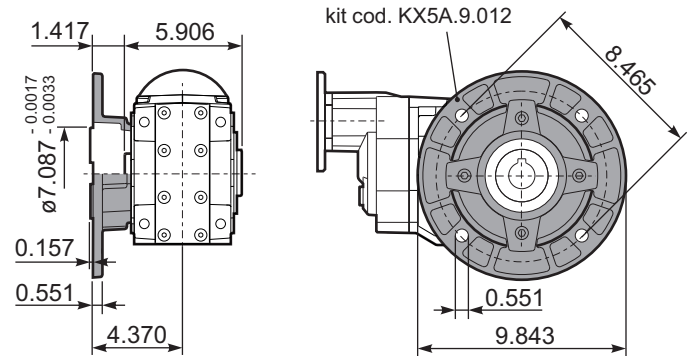
PX63A-F2.. Output flange
Flangia uscita



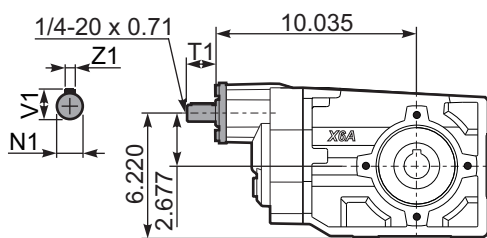
PX63A-F3.. Output flange
Flangia uscita



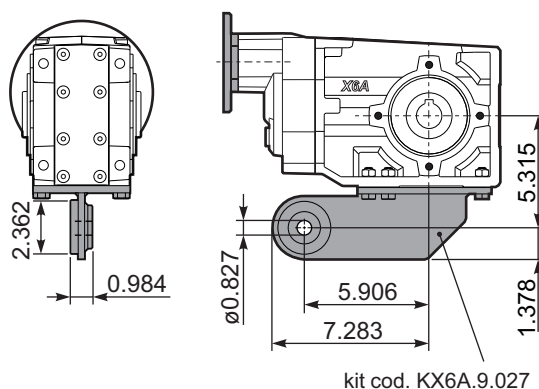
PX63A-F4.. Output flange
Flangia uscita



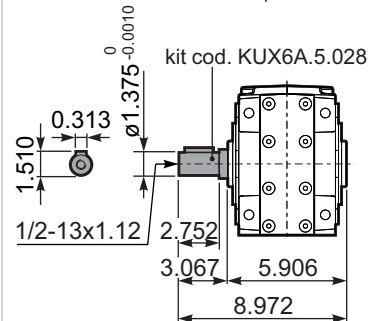
RX63A... Input shaft
Albero in entrata



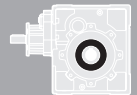
PX63ABR.. Reaction Arm
Braccio di reazione



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



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
220	7.94	10	2689	1.3	12.51	3363					302418	01
192	9.13	10	3091	1.1	11.17	3452					302416	02
164	10.66	10	3609	1.0	10.06	3629					302414	03
117	14.97	10	5067	1.0	10.13	5133					202418	04
102	17.21	7.5	4369	1.2	9.12	5310					202416	05
86	20.24	7.5	5138	1.2	8.72	5974					162418	06
75	23.27	7.5	5908	1.0	7.58	5974					162416	07
67	26.31	5	4455	1.3	6.71	5974					132418	08
58	30.25	5	5122	1.2	5.83	5974					132416	09
49.5	35.32	5	5979	1.0	5.00	5974					132414	10
47.3	37.03	5	6269	1.0	4.76	5974					112416	11
40.5	43.23	3	4391	1.4	4.08	5974					112414	12
37.6	46.58	3	4731	1.3	3.79	5974					82418	13
32.7	53.55	3	5439	1.1	3.30	5974					82416	14
28.0	62.52	3	6350	0.9	2.82	5974					82414	15
23.7	73.75	2	4994	1.0	2.06	5133					62416	16
20.3	86.09	2	5830	1.0	2.05	5974					62414	17

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

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **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.

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					
140.78 oz	91.51 oz	91.51 oz	91.51 oz	181.25 oz	77.43 oz	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

$Feq = FR \cdot \frac{6.89}{X+5.30}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	144	719	140	193	967	70	243	1214
250	157	787	120	202	1012	40	292	1461
200	166	831	85	225	1124	15	414	2068

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

Input shaft
Albero in entrata

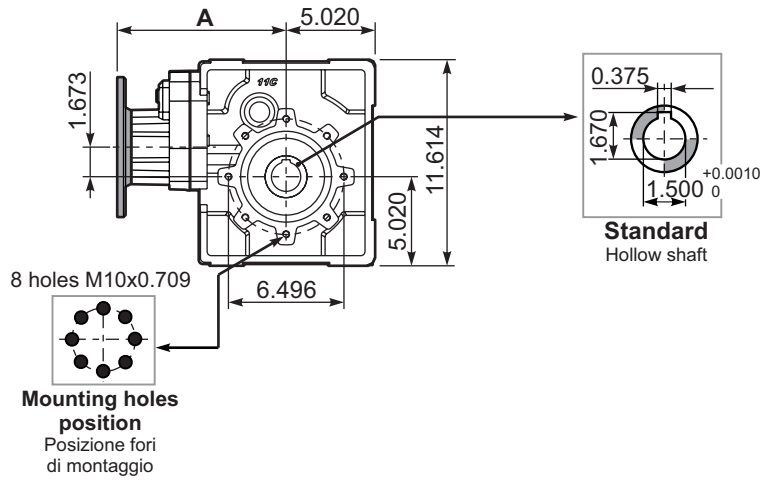
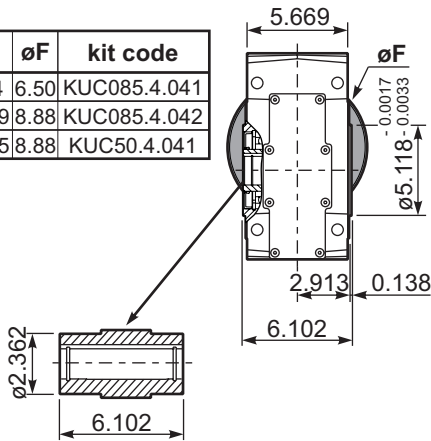
n_1	FA	FR
1750	90	450
1140	99	495

tab. 2

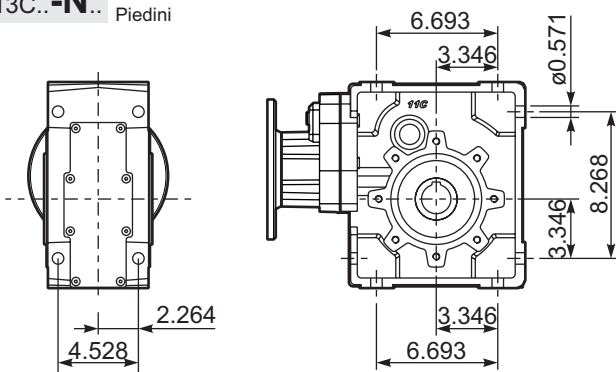
P113C... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **83.8 lb**

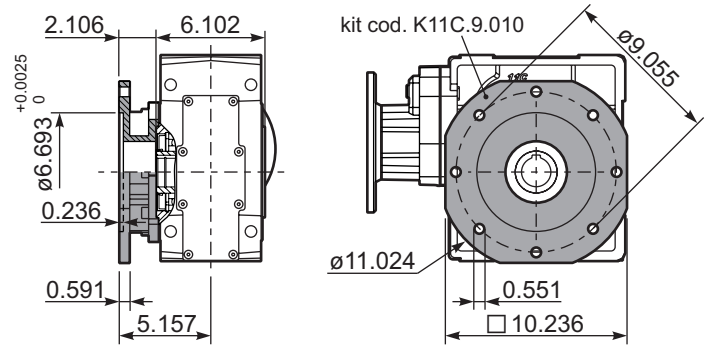
Nema flange	A	øF	kit code
56C-143/5TC	9.724	6.50	KUC085.4.041
182/4TC	10.429	8.88	KUC085.4.042
213/5TC	10.945	KUC50.4.041	



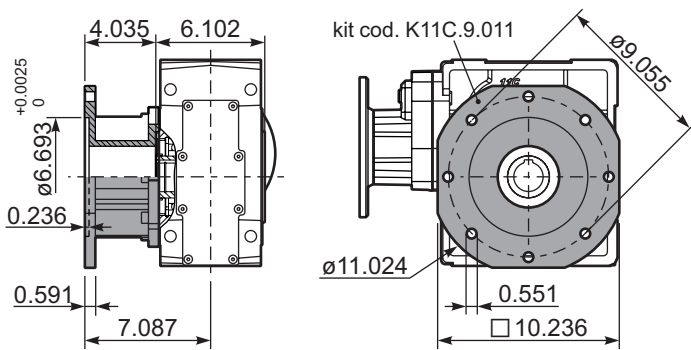
P113C..-N.. Feet
Piedini



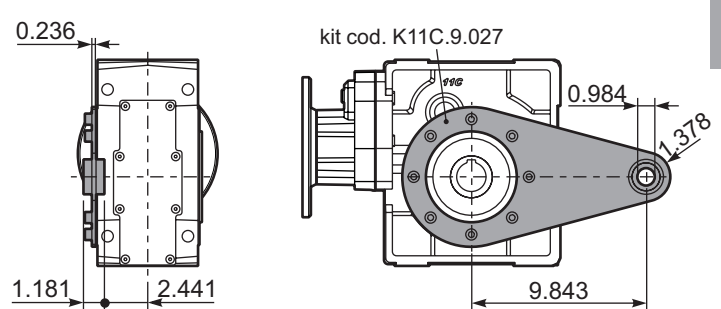
P113C-FC.. Output flange
Flangia uscita



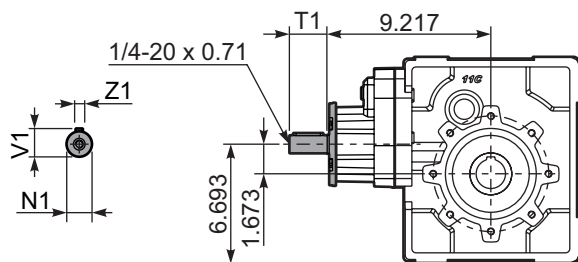
P113C-FL.. Output flange
Flangia uscita



P113CBR.. Reaction Arm
Braccio di reazione

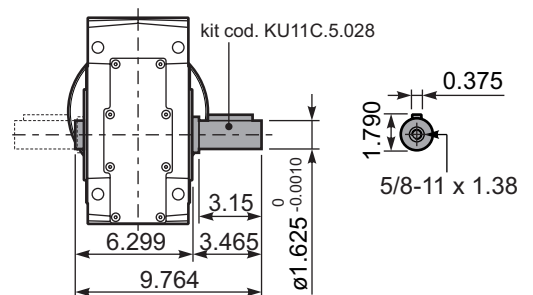


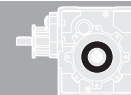
R113C... Input shaft
Albero in entrata



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U

P113C..A.. Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
23.4	74.79	2	4956	1.2	2.41	5974			19132418	01
20.4	85.99	2	5699	1.0	2.10	5974			19132416	02
17.6	99.66	1.5	4954	1.2	1.81	5974			17132416	03
15.0	116.35	1.5	5783	1.0	1.55	5974			17132414	04
14.4	121.45	1.5	6037	1.0	1.48	5974			13132418	05
12.5	139.64	1	4627	1.3	1.29	5974			13132416	06
11.5	152.21	1	5043	1.2	1.18	5974			19082416	07
10.7	163.02	1	5402	1.1	1.11	5974			13132414	08
9.8	177.69	1	5888	1.0	1.01	5974			19082414	09
8.5	205.95	0.75	5118	1.2	0.88	5974			17082414	10
7.9	222.52	0.75	5530	1.1	0.81	5974			10132414	11
7.0	248.76	0.75	6182	1.0	0.72	5974			9132416	12
6.0	290.41	0.5	4812	1.2	0.62	5974			9132414	13
5.2	337.39	0.5	5590	1.1	0.53	5974			10082416	14
4.4	393.88	0.5	6526	0.9	0.46	5974			10082414	15
4.0	440.33	0.33	4815	1.2	0.41	5974			9082416	16
3.4	514.06	0.33	5621	1.1	0.35	5974			9082414	17
3.0	581.44	0.25	4817	1.2	0.31	5974			7082416	18
2.6	678.79	0.25	5623	1.1	0.27	5974			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.

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					
144.30 oz	95.03 oz	95.03 oz	95.03 oz	186.53 oz	82.71 oz	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 (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{6.89}{X+5.30}$

F_{eq} (lb)

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	144	719	140	193	967	70	243	1214
250	157	787	120	202	1012	40	292	1461
200	166	831	85	225	1124	15	414	2068

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

Input shaft
Albero in entrata

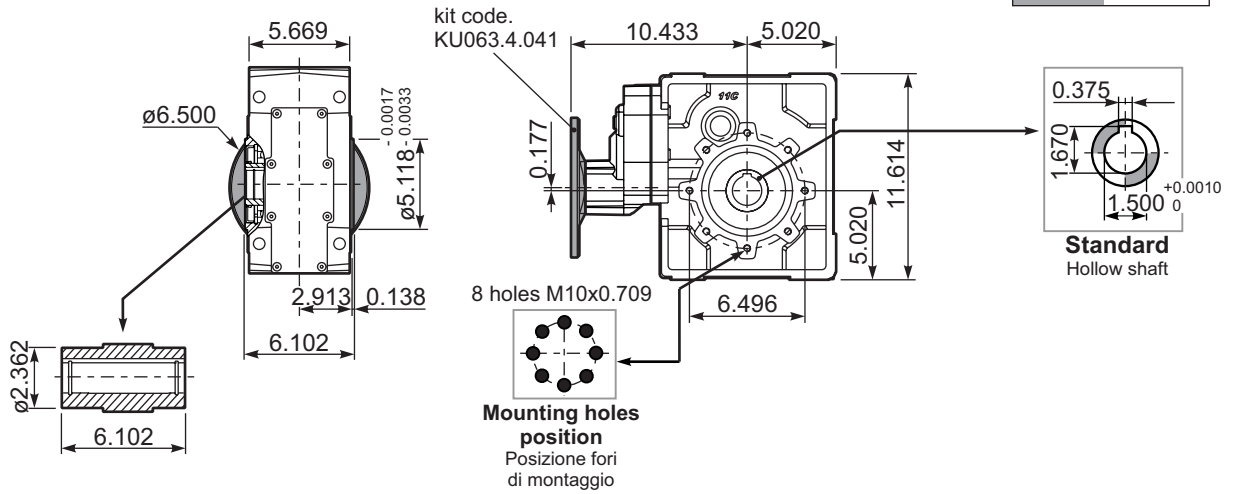
F_R (lb)
 F_A (lb)

n_1	FA	FR
1750	54	270
1140	63	315

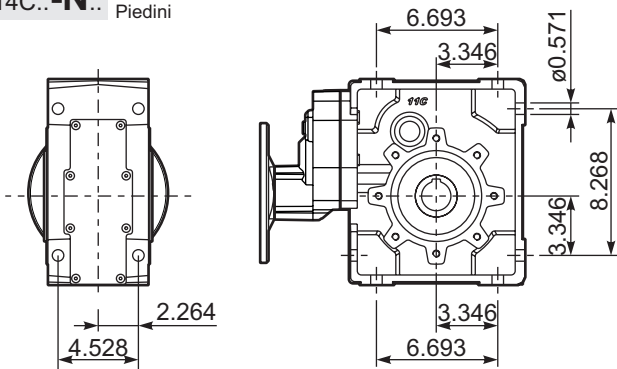
tab. 2

P114C... Basic Gearbox
Riduttore base

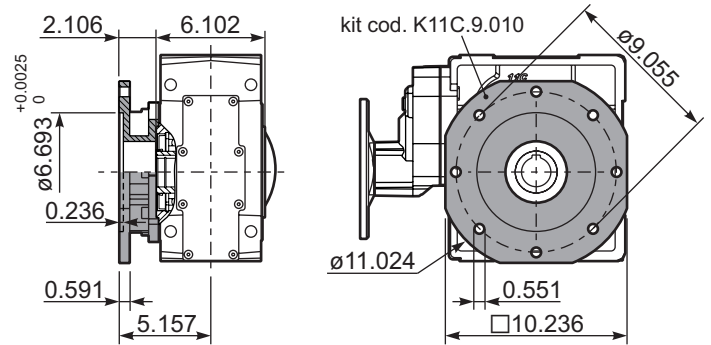
Gearbox weight
peso riduttore **83.8 lb**



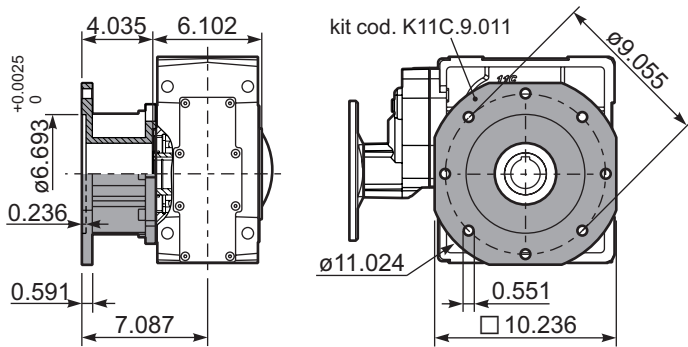
P114C..-N.. Feet
Piedini



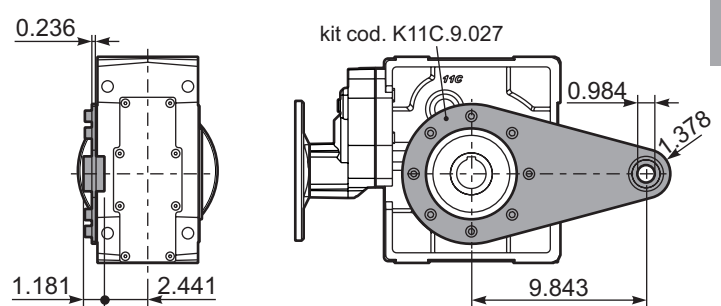
P114C-FC.. Output flange
Flangia uscita



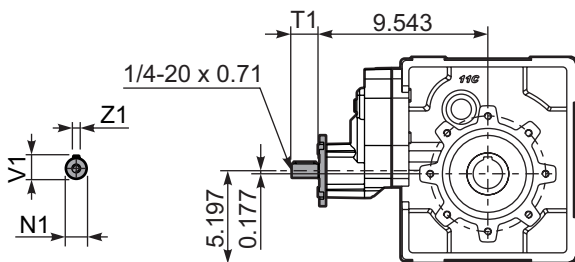
P114C-FL.. Output flange
Flangia uscita



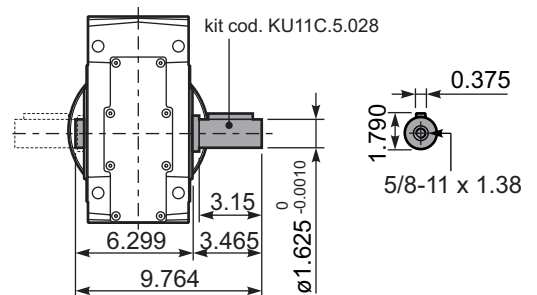
P114CBR.. Reaction Arm
Braccio di reazione



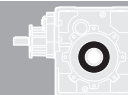
R114C... Input shaft
Albero in entrata



P114C..A.. Single shaft
Albero lento semplice



Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
181	9.69	10	3280	2.0	20.38	6682					302418	01
158	11.09	10	3756	1.6	16.02	6019					302416	02
136	12.90	10	4369	1.6	16.01	6992					302414	03
96	18.26	10	6181	1.3	13.38	8273					202418	04
84	20.91	10	7079	1.3	12.50	8851					202416	05
72	24.32	10	8233	1.1	10.75	8851					202414	06
62	28.27	7.5	7178	1.2	9.25	8851					162416	07
53	32.88	7.5	8349	1.1	7.95	8851					162414	08
47.6	36.76	7.5	9334	0.9	7.11	8851					132416	09
40.9	42.76	5	7238	1.2	6.11	8851					132414	10
38.9	45.00	5	7617	1.2	5.81	8851					112416	11
33.4	52.33	5	8859	1.0	5.00	8851					112414	12
30.8	56.82	3	5771	1.3	3.91	7523					82418	13
26.9	65.07	3	6609	1.3	3.92	8629					82416	14
23.1	75.68	3	7687	1.2	3.45	8851					82414	15
19.5	89.61	2	6067	1.0	2.07	6284					62416	16
16.8	104.22	2	7057	1.0	2.06	7258					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.

B3	B6	B7	B8	V5	V6	V8
211.17 oz	151.34 oz	151.34 oz	116.14 oz	260.44 oz	109.10 oz	Ask

AGIP Blasias 460

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

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.

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.

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

$F_{eq} = F_R \cdot \frac{7.28}{X+5.69}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	180	899	140	252	1259	70	315	1574
250	202	1012	120	270	1349	40	382	1911
200	216	1079	85	292	1461	15	540	2698

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

Input shaft
Albero in entrata

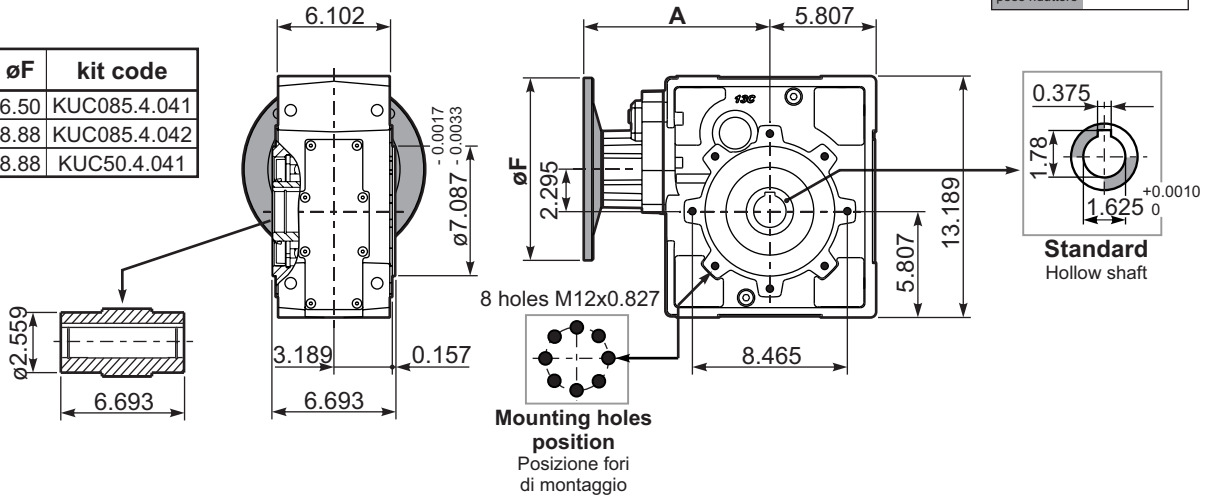
n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

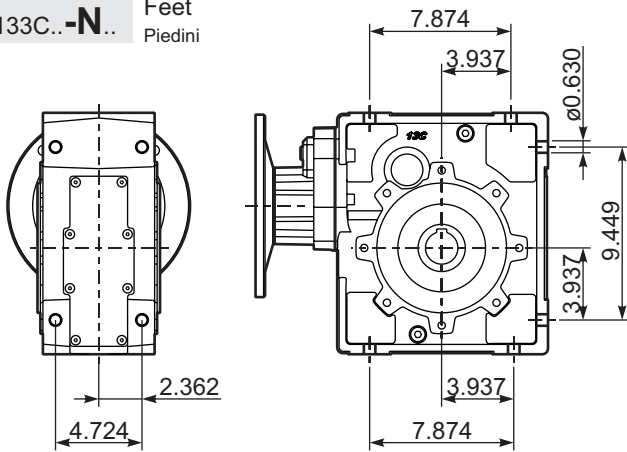
P133CC... Basic gearbox
Riduttore base

Gearbox weight
peso riduttore **117.9 lb**

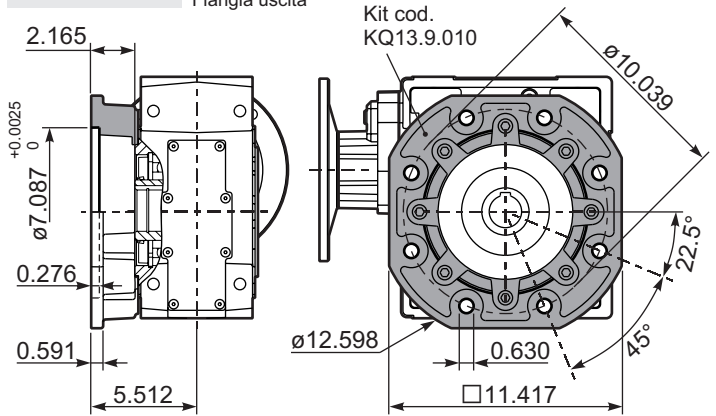
Nema flange	A	øF	kit code
56C-143/5TC	10.138	6.50	KUC085.4.041
182/4TC	10.843	8.88	KUC085.4.042
213/5TC	11.359	KUC50.4.041	



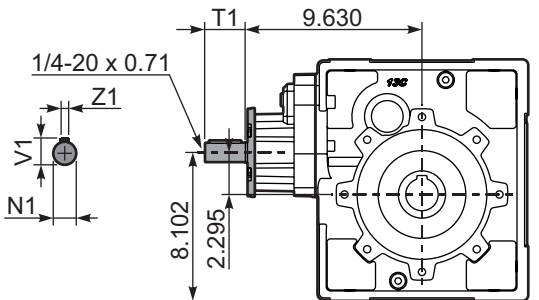
P133C..-N.. Feet
Piedini



P133C..-FC.. Output flange
Flangia uscita

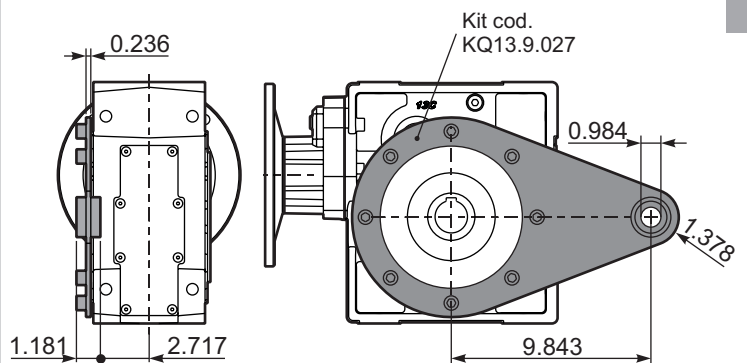


R133C... Input Shaft
Albero in entrata

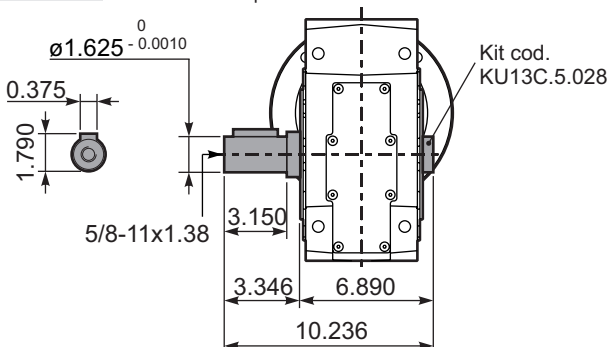


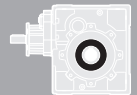
Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U

P133CBR.. Reaction arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges		Output Shaft 	Ratios code
							-W 56C	-X 143/5 TC		
19.2	91.23	2	6046	1.5	2.93	8851			standard ø1.625	01
16.7	104.48	2	6924	1.3	2.56	8851				02
14.5	121.10	2	8025	1.1	2.21	8851				03
12.4	140.84	1.5	7001	1.3	1.90	8851				04
10.6	165.32	1.5	8217	1.1	1.62	8851				05
9.5	184.94	1.5	9192	1.0	1.44	8851				06
8.9	197.34	1.5	9808	0.9	1.35	8851				07
8.1	215.10	1	7127	1.2	1.24	8851				08
7.6	231.60	1	7674	1.2	1.15	8851				09
7.0	249.31	1	8261	1.1	1.07	8851				10
6.5	269.37	1	8926	1.0	0.99	8851				11
6.0	292.64	0.75	7273	1.2	0.91	8851				12
5.8	302.26	0.75	7512	1.2	0.88	8851				13
5.0	349.30	0.75	8681	1.0	0.76	8851				14
4.4	399.12	0.5	6613	1.3	0.67	8851				15
3.7	476.80	0.5	7900	1.1	0.56	8851				16
2.8	622.28	0.33	6805	1.3	0.43	8851				17
2.1	821.70	0.25	6807	1.3	0.33	8851				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
214.69 oz	154.86 oz	154.86 oz	119.66 oz	263.96 oz	112.62 oz	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.

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.

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita

F_R (lb)
 F_A (lb)

$F_{eq} = F_R \cdot \frac{7.28}{X+5.69}$

F_{eq} (lb)

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	180	899	140	252	1259	70	315	1574
250	202	1012	120	270	1349	40	382	1911
200	216	1079	85	292	1461	15	540	2698

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

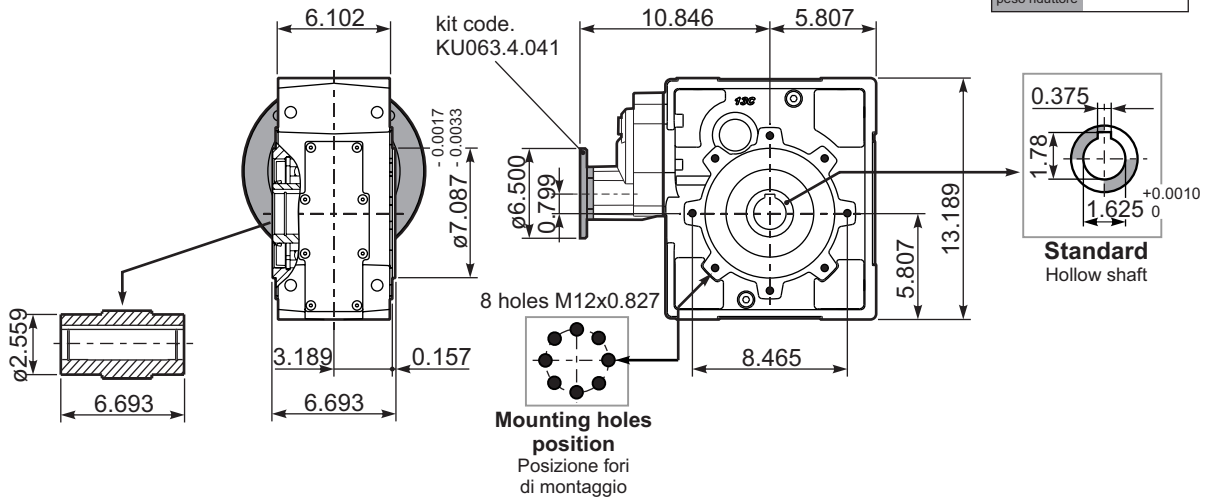
Input shaft
Albero in entrata

n_1	FA	FR
1750	90	450
1140	99	495

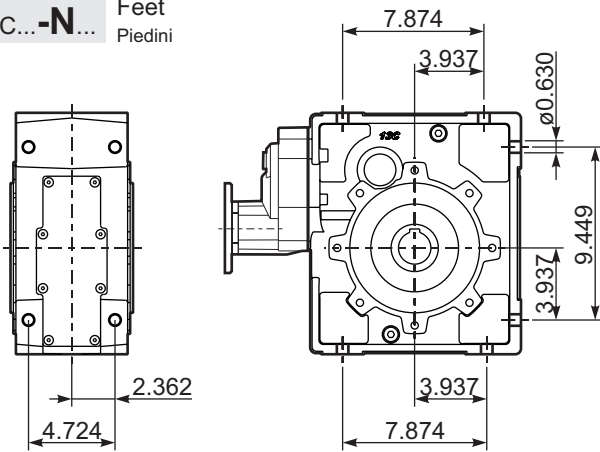
tab. 2

P134CC... Basic gearbox
Riduttore base

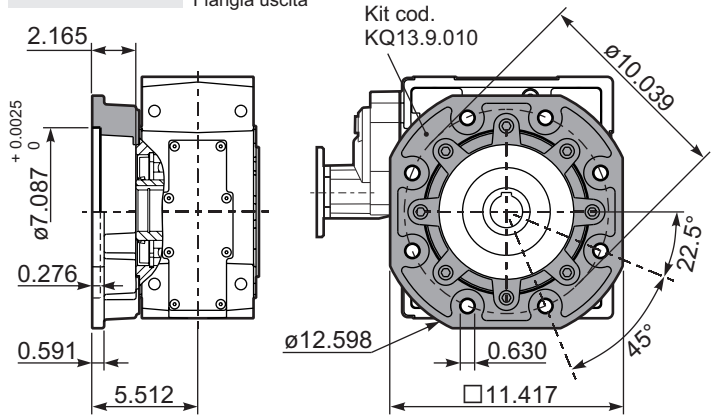
Gearbox weight
peso riduttore **117.9 lb**



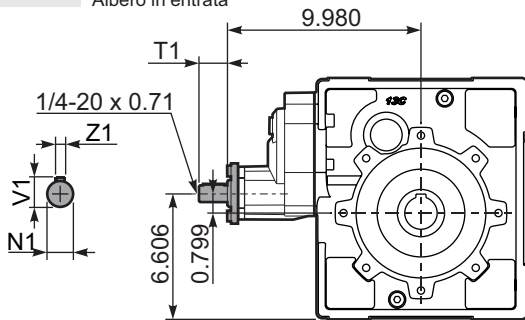
P134C...-N... Feet
Piedini



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

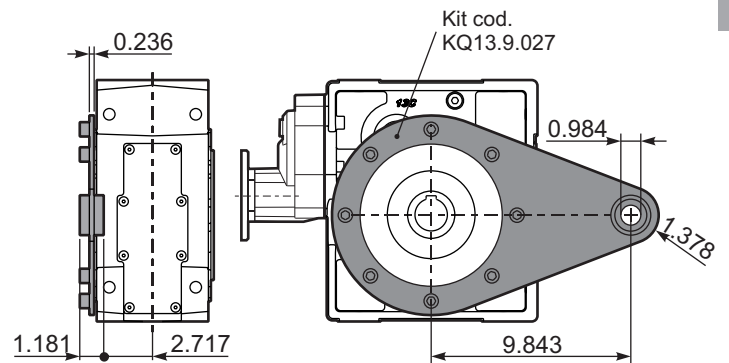


R134C... Input Shaft
Albero in entrata

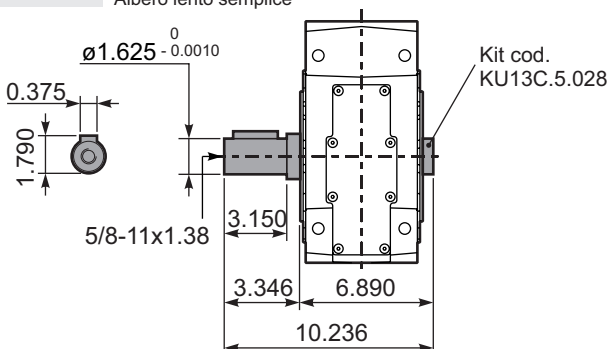


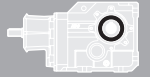
Nema flange	N1	T1	V1	Z1	kit code
Standard	0.750	1.97	0.83	0.188	KC40.5.070U
On request	0.625	1.57	0.71	0.188	KC40.5.069U

P134CBR.. Reaction arm
Braccio di reazione



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





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-Y	AA	AB			
							182/4TC	213/5TC	254/6TC			
294	5.94	20	4025	1.8	35.18	7081				302915		01
246	7.13	20	4826	1.5	30.08	7258				302913		02
204	8.58	20	5811	1.4	28.94	8408				302911		03
156	11.20	20	7585	1.2	23.34	8851				202915		04
130	13.43	20	9096	1.3	26.27	11949				202913		05
116	15.15	20	10256	1.2	24.16	12391				162915		06
108	16.17	20	10952	1.2	23.44	12834				202911	standard ø2.000	07
96	18.16	20	12298	1.1	22.31	13719				162913		08
89	19.70	20	13337	1.0	20.57	13719				132915		09
80	21.87	15	11106	1.3	19.13	14161				162911		10
74	23.62	15	11994	1.2	17.71	14161				132913		11
61	28.91	15	14681	1.0	14.47	14161				112913		12
50	34.81	10	11785	1.2	12.02	14161				112911		13
41.9	41.81	10	14154	1.0	10.01	14161				82913		14
34.8	50.34	7.5	12782	1.1	8.31	14161				82911		15

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

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

EN Unit **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.

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	V8
147.82 oz	126.70 oz	154.86 oz	179.49 oz	249.88 oz	175.98 oz	Ask	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 (lb) ↓
 F_A (lb) ←

$F_{eq} = F_R \cdot \frac{8.58}{X+6.61}$

F_{eq} (lb) ↓

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	405	2023	140	607	3035	70	679	3395
250	540	2698	120	629	3147	40	719	3597
200	585	2923	85	652	3260	15	786	3934

Input shaft
Albero in entrata

F_R (lb) ↓
 F_A (lb) ←

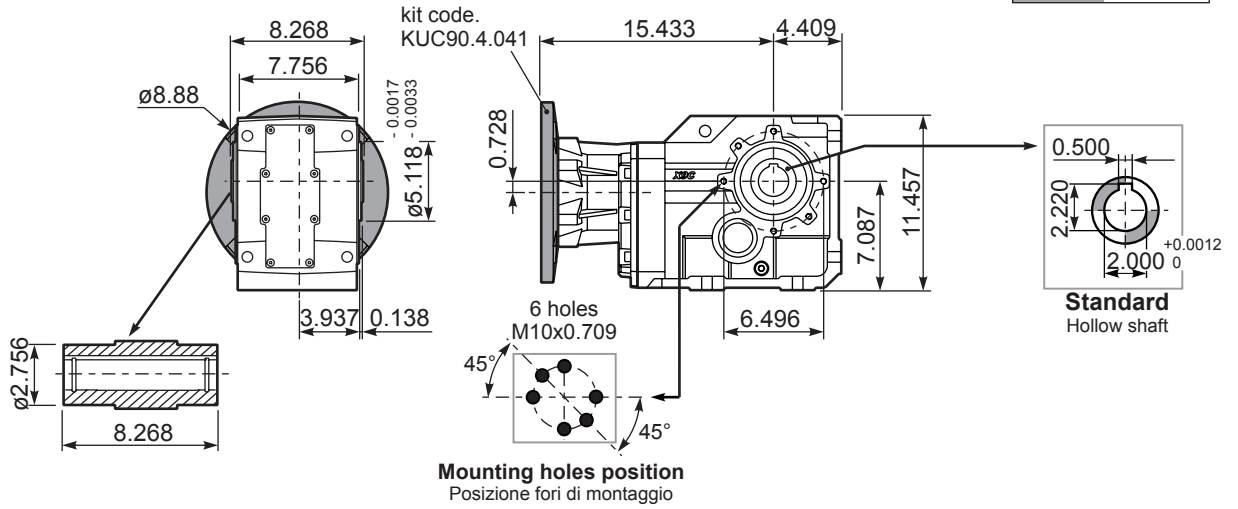
n_1	FA	FR
1750	157	787
1140	189	944

tab. 2

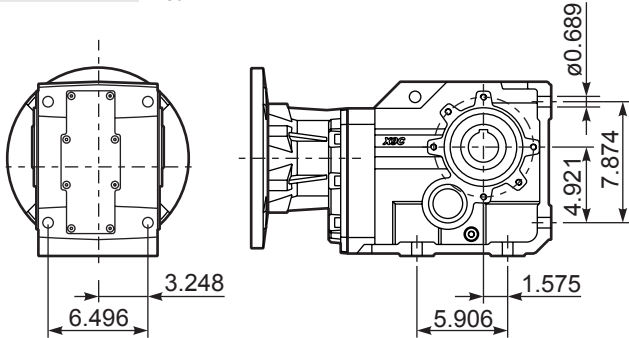
3D dimensions on the Web

PX93CC... Basic Gearbox
Riduttore base

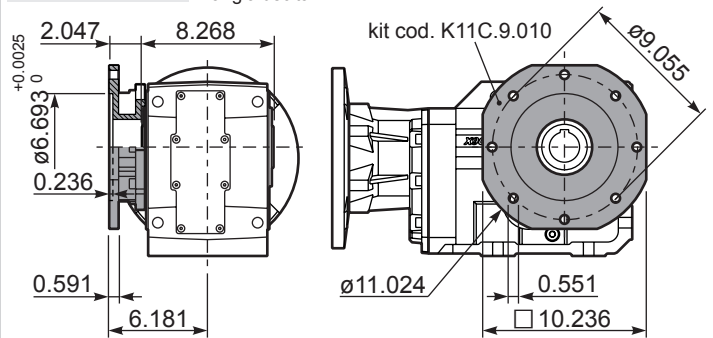
Gearbox weight
peso riduttore **364.0 lb**



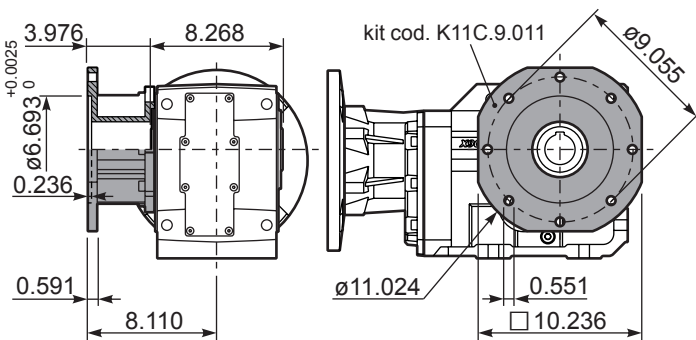
PX93C...FB.. Feet
Piedini



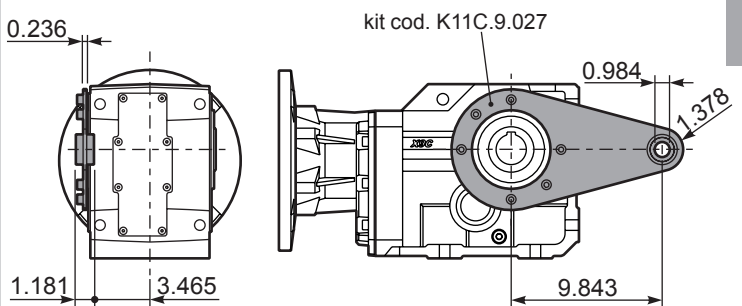
PX93C...-FC.. Output flange
Flangia uscita



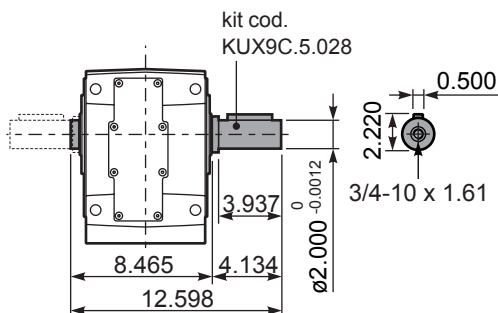
PX93C...-FL.. Output flange
Flangia uscita



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



PX93CA... Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft 	Ratios code
							-W	-X	-Y	AA		
							56C	143/5TC	182/4TC	213/5TC		
57.0	30.70	10	10174	1.4	13.92	14161					30132913	01
47.3	36.97	10	12250	1.2	11.56	14161					30132911	02
36.3	48.26	7.5	11993	1.2	8.86	14161					20132915	03
30.2	57.86	7.5	14380	1.0	7.39	14161					20132913	04
26.8	65.24	7.5	16215	0.9	6.55	14161					16132915	05
25.1	69.68	5	11544	1.3	6.33	14604					20132911	06
22.4	78.23	5	12962	1.1	5.63	14604					16132913	07
20.6	84.85	5	14057	1.0	5.04	14161					13132915	08
18.6	94.20	5	15608	0.9	4.68	14604					16132911	09
17.2	101.74	5	16856	0.9	4.33	14604					13132913	10
14.3	122.51	3	12178	1.2	3.60	14604					13132911	11
11.7	149.95	3	14906	1.0	2.94	14604					11132911	12
9.7	180.09	2	11935	1.2	2.45	14604					8132913	13
8.5	206.81	2	13706	1.0	2.07	14161					6132915	14
8.1	216.85	2	14371	1.0	2.03	14604					8132911	15
7.1	247.99	1.5	12326	1.2	1.78	14604					6132913	16
5.9	298.61	1.5	14842	1.0	1.48	14604					6132911	17

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

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **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.

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
158.38 oz	133.74 oz	158.38 oz	186.53 oz	267.48 oz	186.53 oz	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

$F_{eq} = FR \cdot \frac{8.58}{X+6.61}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	405	2023	140	607	3035	70	679	3395
250	540	2698	120	629	3147	40	719	3597
200	585	2923	85	652	3260	15	786	3934

Input shaft
Albero in entrata

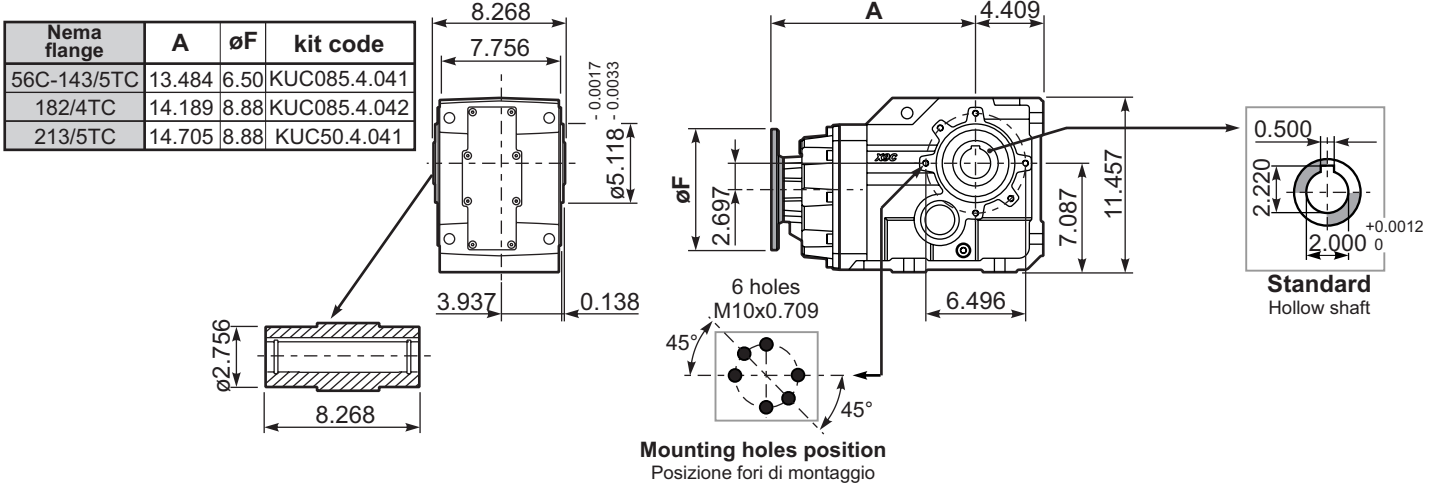
n_1	FA	FR
1750	101	506
1140	112	562

tab. 2

3D dimensions on the Web

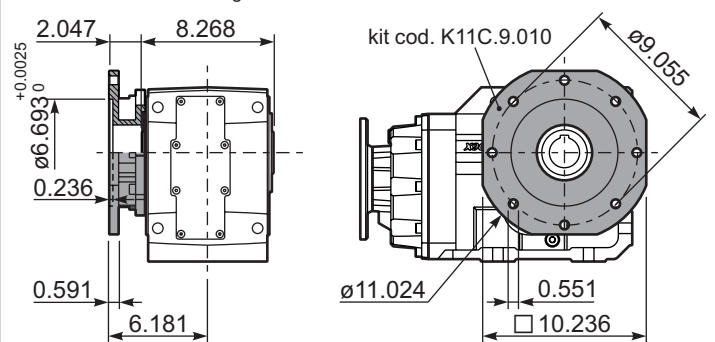
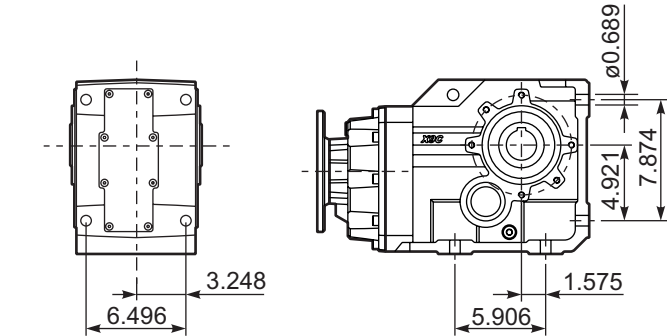
PX94CC... Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **333.0 lb**



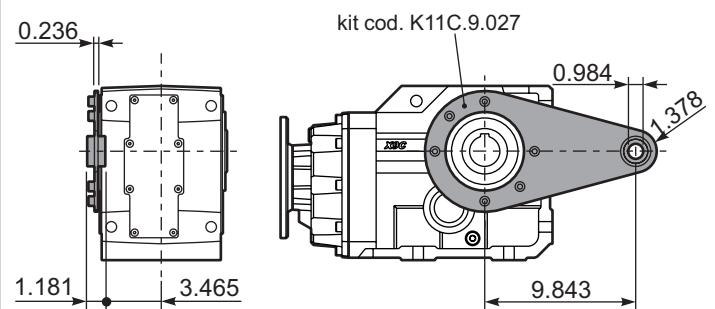
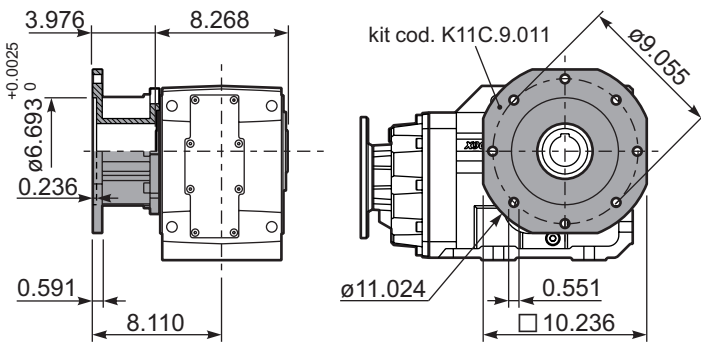
PX94C...FB.. Feet
Piedini

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



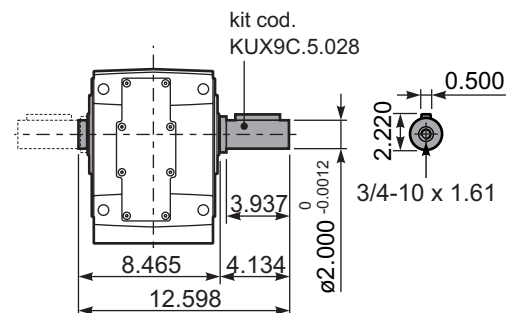
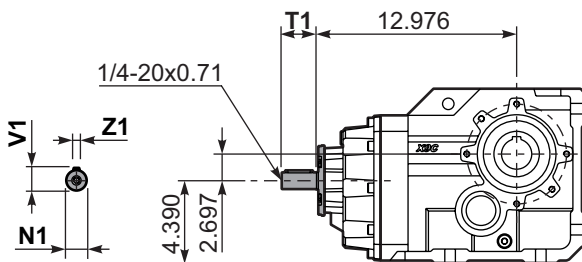
PX94C...-FL.. Output flange
Flangia uscita

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

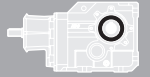


RX94C... Input shaft
Albero in entrata

PX94CA... Single shaft
Albero lento semplice



Nema flanges	N1	T1	V1	Z1	kit code
Standard	0.875	1.97	0.96	0.188	KC50.5.070U
On request	0.750	1.97	0.83	0.188	KC50.5.069U



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges				Output Shaft \varnothing	Ratios code
							AC	AD				
							284/6 TC	324/6 TC				
274	6.39	40	8659	1.3	53.15	11506					01	
250	7.00	40	9483	1.3	52.26	12391					02	
205	8.55	40	11581	1.1	45.85	13276					03	
175	10.01	40	13559	1.0	41.78	14161					04	
160	10.97	40	14850	1.0	40.53	15046					05	
131	13.39	40	18135	1.0	41.00	18587					06	
111	15.71	30	15961	1.2	36.60	19472					07	
102	17.21	30	17480	1.2	34.94	20357					08	
83	21.02	30	21347	1.0	29.85	21242				standard $\varnothing 2.375$	09	
74	23.73	30	24105	1.0	28.64	23012					10	
67	25.99	30	26399	0.9	28.16	24782					11	
63	27.93	30	28371	0.9	27.14	25667					12	
57	30.59	25	25892	1.0	24.78	25667					13	
55	31.74	25	26866	1.0	23.88	25667					14	
46.8	37.36	25*	31620	0.8	20.29	25667					15	
42.3	41.37	25*	35018	0.7	18.32	25667					16	
38.6	45.31	25*	38351	0.7	16.73	25667					17	
31.6	55.33	25*	46853	0.6	14.17	26552					18	

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

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 **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 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.

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					
B3	B6	B7	B8	V5	V6	V8
404.7oz	193.6 oz	369.5 oz	264.0 oz	475.1 oz	334.4 oz	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			$F_{eq} = FR \cdot \frac{9.96}{X+7.60}$					
n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	450	2248	140	629	3147	70	787	3934
250	562	2810	120	674	3372	40	945	4721
200	607	3035	85	719	3597	15	1214	6070
Input shaft Albero in entrata								
n_1	FA	FR						
1750	252	1259						
1140	274	1371						

tab. 2

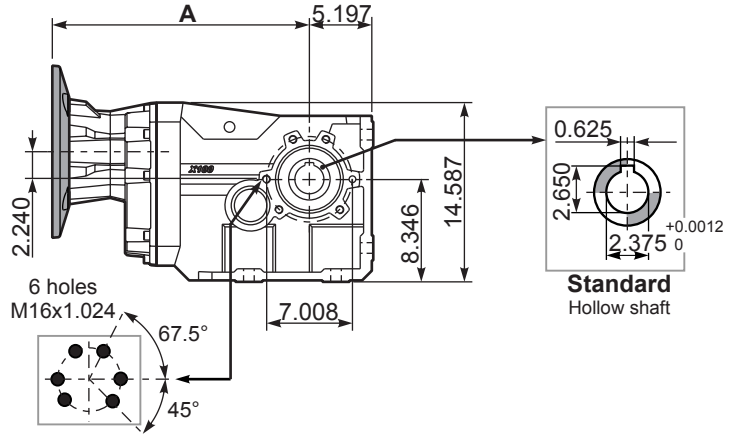
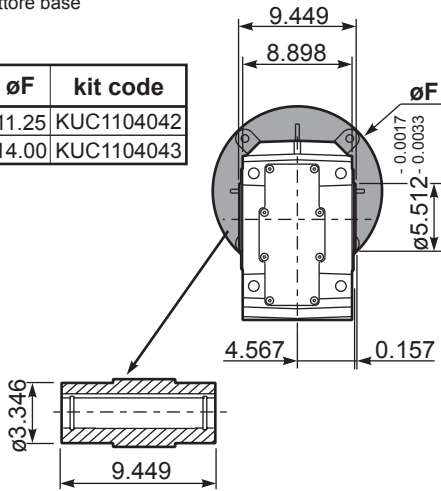
3D dimensions on the Web

PX103C...

Basic Gearbox
Riduttore base

Gearbox weight
peso riduttore **298 lb**

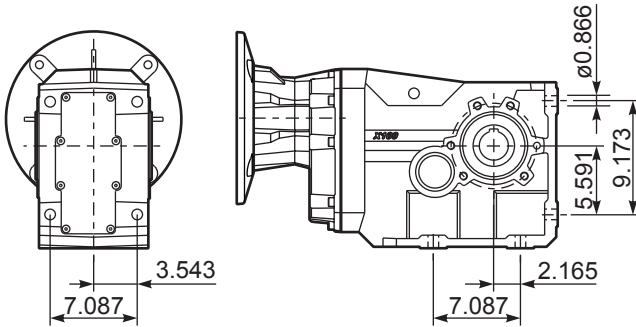
Nema flange	A	øF	kit code
284/6TC	20.933	11.25	KUC1104042
324/6TC	20.933	14.00	KUC1104043



Mounting holes position
Posizione fori di montaggio

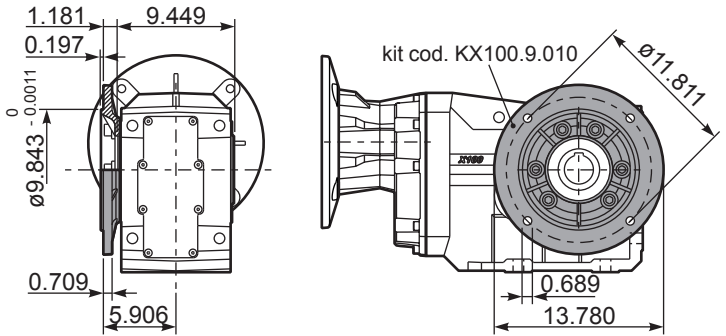
PX103...**FB**..

Feet
Piedini



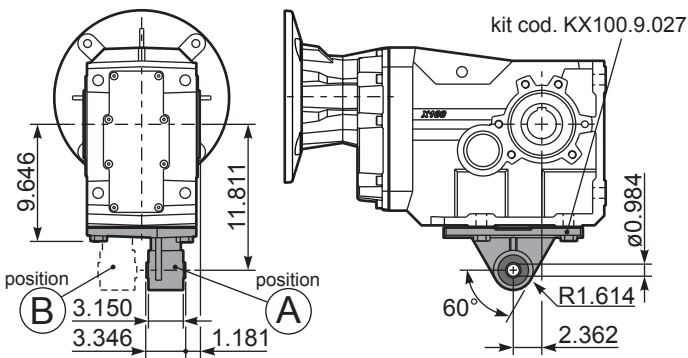
PX103...**-F6**..

Output flange
Flangia uscita



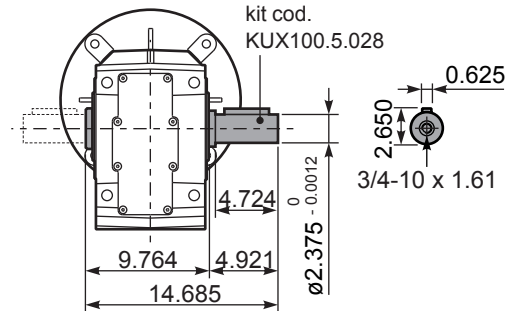
PX103...**BR**..

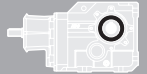
Reaction Arm
Braccio di reazione



PX103**A**...

Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n₁) = 1750 min⁻¹

Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [HP]	Output torque M _{2M} [lb in]	Service factor f.s.	Nominal power P _{1R} [HP]	Nominal torque M _{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
36.0	48.57	15	24139	1.1	15.95	25667				30142911	01
25.6	68.43	10	22676	1.2	11.71	26552				20142914	02
23.3	74.95	10	24835	1.1	10.69	26552				20142913	03
18.9	92.53	7.5	22995	1.2	8.66	26552				16142914	04
17.3	101.33	7.5	25183	1.1	7.91	26552				16142913	05
14.5	120.33	5.0	19935	1.3	6.66	26552				13142914	06
14.1	123.75	5.0	20503	1.3	6.48	26552				16142911	07
13.3	131.78	5.0	21833	1.2	6.08	26552				13142913	08
11.9	147.28	5.0	24401	1.1	5.44	26552				11142914	09
10.8	161.30	5.0	26724	1.0	4.97	26552				11142913	10
8.9	196.98	3.0	19581	1.4	4.07	26552				11142911	11
8.2	212.99	3.0	21172	1.3	3.76	26552				8142914	12
7.5	233.26	3.0	23188	1.1	3.44	26552				8142913	13
6.1	284.86	3.0	28317	0.9	2.81	26552				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.

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					
B3	B6	B7	B8	V5	V6	V8
422.3 oz	211.2 oz	404.7 oz	281.6 oz	510.3 oz	387.1 oz	Ask

AGIP Blasias 460

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

tab. 1

RADIAL AND AXIAL LOADS

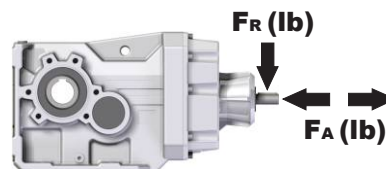
Output shaft
Albero di uscita

$$F_{eq} = FR \cdot \frac{9.96}{X+7.60}$$



n ₂	FA	FR	n ₂	FA	FR	n ₂	FA	FR
300	450	2248	140	629	3147	70	787	3934
250	562	2810	120	674	3372	40	944	4721
200	607	3035	85	719	3597	15	1214	6070

Input shaft
Albero in entrata



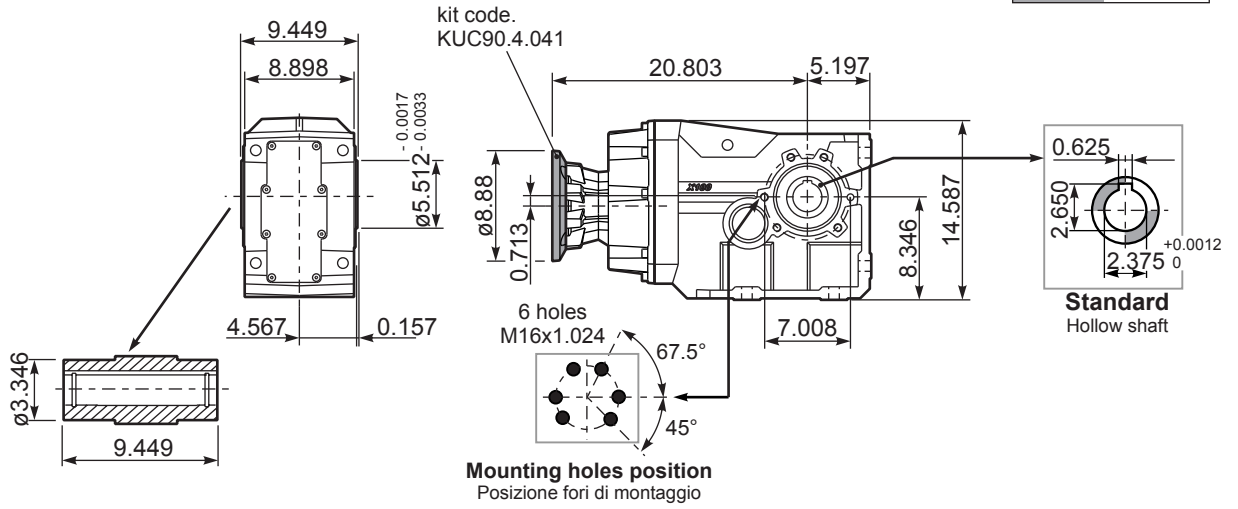
n ₁	FA	FR
1750	157	787
1140	189	944

tab. 2

PX104C...

Basic Gearbox
Riduttore base

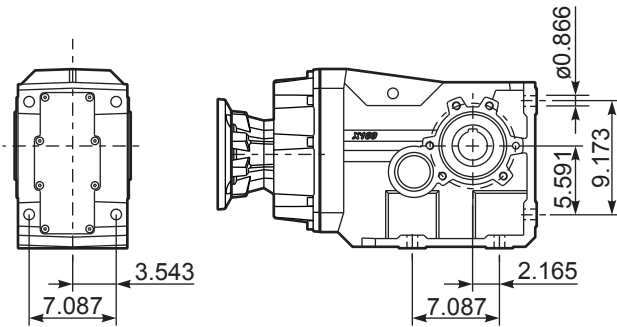
Gearbox weight
peso riduttore **274 lb**



Mounting holes position
Posizione fori di montaggio

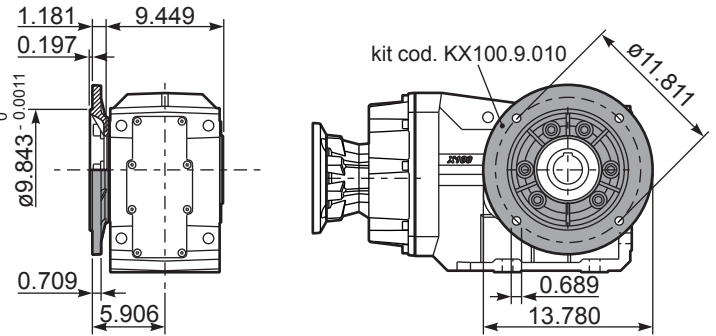
PX104...**FB**..

Feet
Piedini



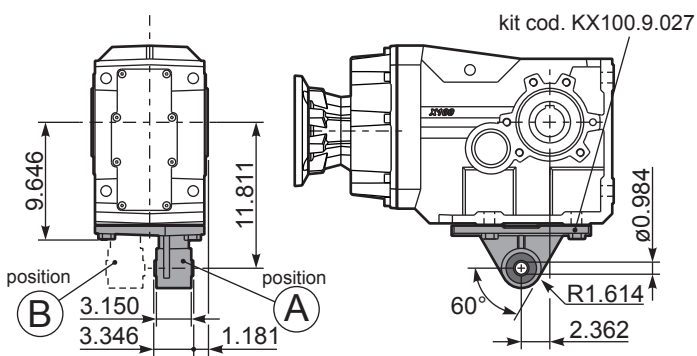
PX104...**-F6**..

Output flange
Flangia uscita



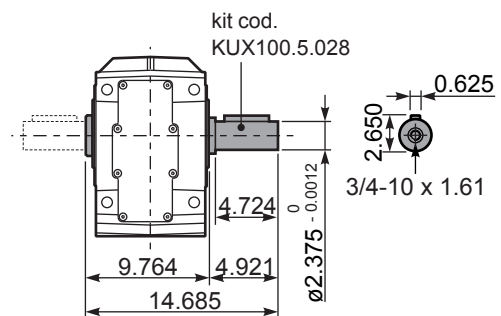
PX104...**BR**..

Reaction Arm
Braccio di reazione



PX104**A**...

Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	
							AC	AD			
							284/6 TC	324/6 TC			
274	6.39	50	10824	2.0	102.2	22127			392914		01
250	7.00	50	11854	2.0	98.9	23454			392913		02
205	8.55	50	14476	1.7	85.6	24782			392911		03
175	10.01	50	16949	1.7	83.6	28322			302914		04
160	10.97	50	18563	1.5	76.3	28322			302913		05
131	13.39	50	22669	1.3	66.4	30093			302911		06
111	15.71	50	26601	1.2	58.2	30978			222914		07
102	17.21	50	29133	1.1	56.2	32748			222913		08
83	21.02	50	35578	1.0	49.8	35403			222911	standard ø2.750	09
74	23.73	40	32140	1.1	45.2	36288			162914		10
67	25.99	40	35199	1.1	43.2	38058			162913		11
63	27.93	40	37828	1.0	40.2	38058			142914		12
57	30.59	40	41428	1.0	38.5	39828			142913		13
55	31.74	30	32239	1.2	37.1	39828			162911		14
46.8	37.36	30	37944	1.0	31.5	39828			142911		15
42.3	41.37	30	42022	0.9	28.4	39828			102914		16
38.6	45.31	25	38351	1.0	26.0	39828			102913		17
31.6	55.33	25	46835	0.9	21.3	39828			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 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.

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					
475.1 oz	281.6 oz	545.5 oz	510.3 oz	774.3 oz	457.5 oz	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

$F_{eq} = FR \cdot \frac{12.81}{X+10.06}$

n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	472	2360	140	697	3484	70	944	4721
250	584	2922	120	728	3642	40	1259	6295
200	674	3372	85	809	4046	15	1798	8992

Input shaft
Albero in entrata

n_1	FA	FR
1750	252	1259
1140	274	1371

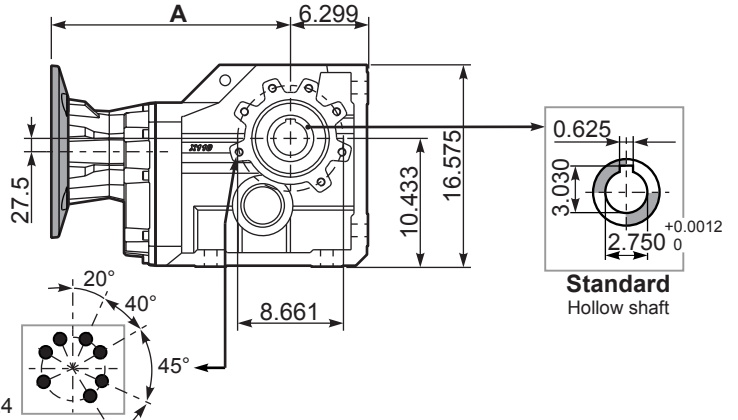
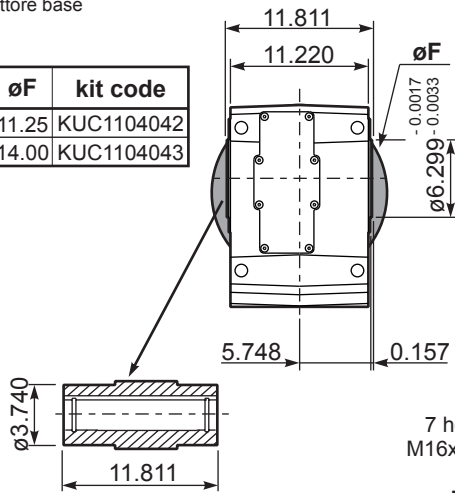
tab. 2

3D dimensions on the Web

PX113C... Basic Gearbox
Riduttore base

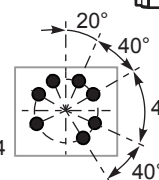
Gearbox weight
peso riduttore **377 lb**

Nema flange	A	øF	kit code
284/6TC	19.48	11.25	KUC1104042
324/6TC	19.48	14.00	KUC1104043



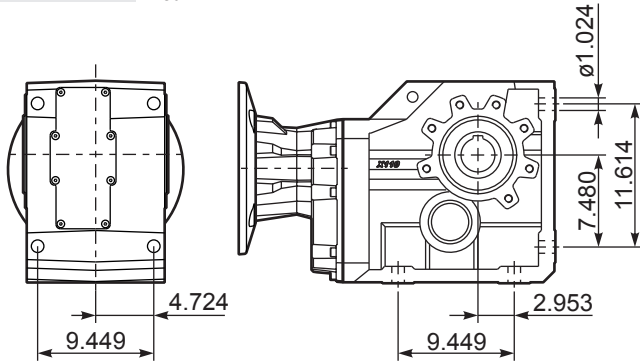
7 holes
M16x1.024

Mounting holes position
Posizione fori di montaggio

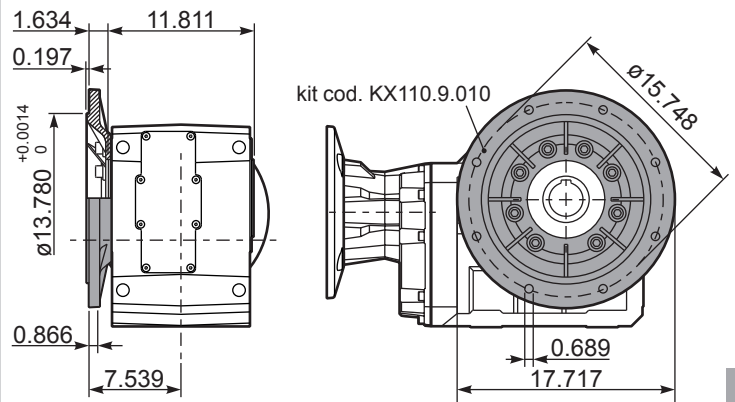


Standard
Hollow shaft

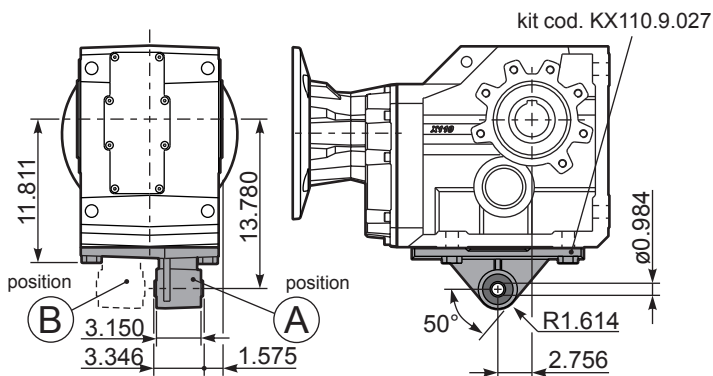
PX113...FB.. Feet
Piedini



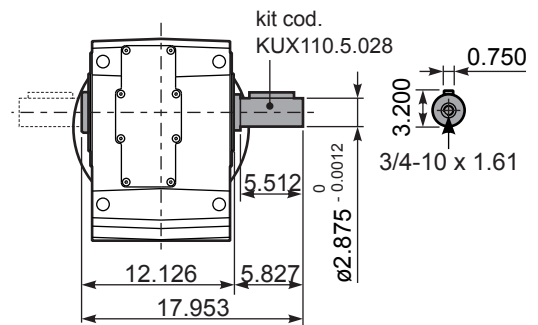
PX113...-F7.. Output flange
Flangia uscita

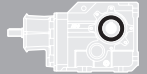


PX113...BR.. Reaction Arm
Braccio di reazione



PX113A... Single shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1750 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [HP]	Output torque M_{2M} [lb in]	Service factor f.s.	Nominal power P_{1R} [HP]	Nominal torque M_{2R} [lb in]	Available NEMA motor flanges			Output Shaft 	Ratios code
							-Y	AA	AB		
							182/4TC	213/5TC	254/6TC		
36.0	48.57	20	32185	1.2	24.75	39828				30142911	01
25.6	68.43	15	34015	1.2	17.95	40713				20142914	02
23.3	74.95	15	37252	1.1	16.39	40713				20142913	03
18.9	92.53	10	30660	1.3	13.28	40713				16142914	04
17.3	101.33	10	33578	1.2	12.13	40713				16142913	05
14.5	120.33	10	39871	1.0	10.21	40713				13142914	06
14.1	123.75	10	41005	1.0	9.71	39828				16142911	07
13.3	131.78	10	43665	0.9	9.32	40713				13142913	08
11.9	147.28	7.5	36602	1.1	8.34	40713				11142914	09
10.8	161.30	7.5	40086	1.0	7.62	40713				11142913	10
8.9	196.98	5	32635	1.2	6.10	39828				11142911	11
8.2	212.99	5	35287	1.2	5.77	40713				8142914	12
7.5	233.26	5	38646	1.1	5.27	40713				8142913	13
6.1	284.86	3	28317	1.4	4.22	39828				8142911	14

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

A Motor Flanges Available
Flange Motore Disponibili

B Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit **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.

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
510.3 oz	299.2 oz	580.7 oz	563.1 oz	809.5 oz	510.3 oz	Ask

AGIP Blasias 460

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

tab. 1

RADIAL AND AXIAL LOADS

Output shaft

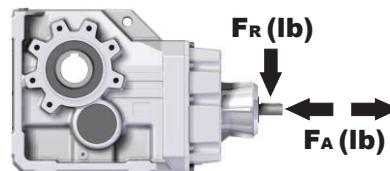
Albero di uscita



n_2	FA	FR	n_2	FA	FR	n_2	FA	FR
300	472	2360	140	697	3484	70	944	4721
250	584	2922	120	728	3642	40	1259	6295
200	674	3372	85	809	4046	15	1798	8992

Input shaft

Albero in entrata



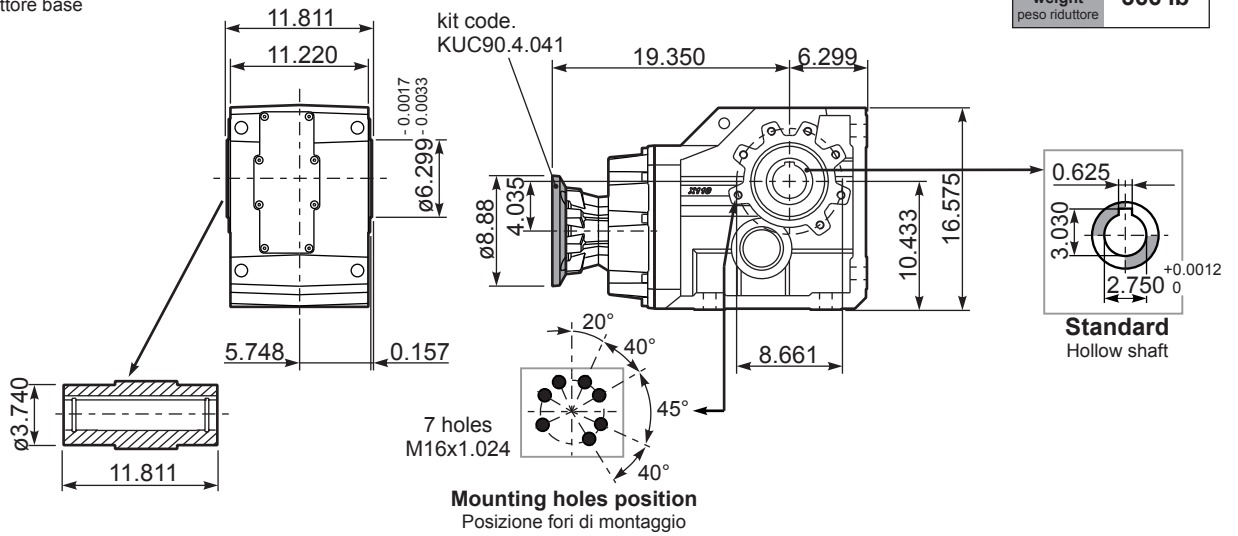
n_1	FA	FR
1750	157	787
1140	189	944

tab. 2

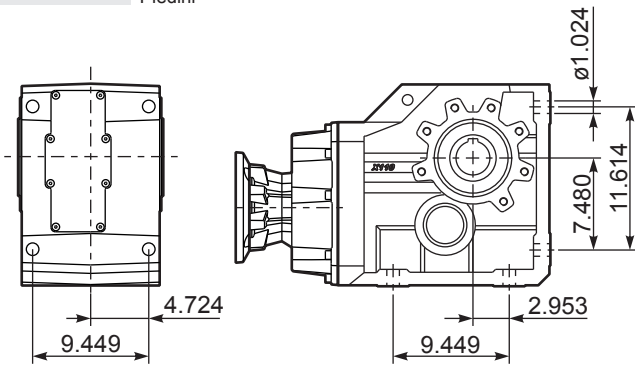
3D dimensions on the Web

PX114C... Basic Gearbox
 Riduttore base

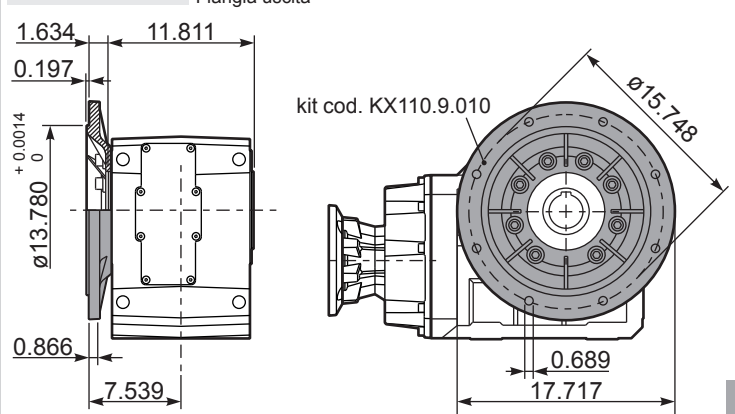
Gearbox weight
 peso riduttore **366 lb**



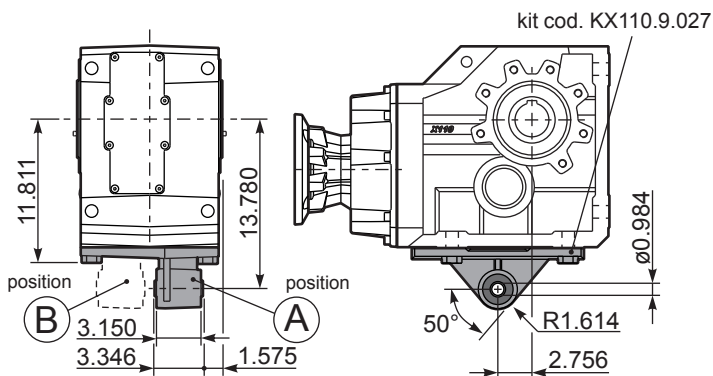
PX114...FB.. Feet
 Piedini



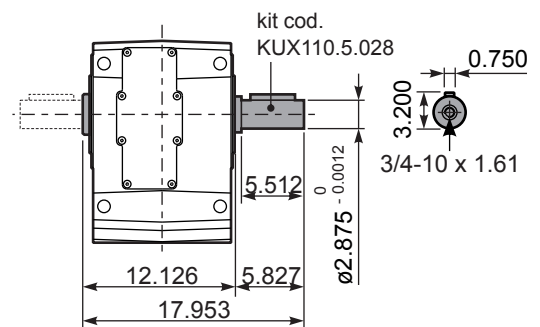
PX114...-F7.. Output flange
 Flangia uscita



PX114...BR.. Reaction Arm
 Braccio di reazione



PX114A... Single shaft
 Albero lento semplice



Please Read Carefully

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

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

WARNING:

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

SELLING CONDITIONS

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

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

Leggere attentamente

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

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

ATTENZIONE:

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

CONDIZIONI DI VENDITA

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

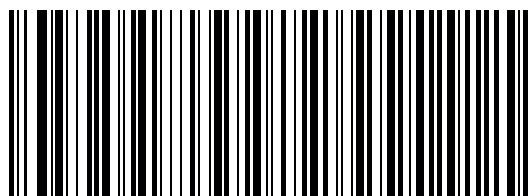
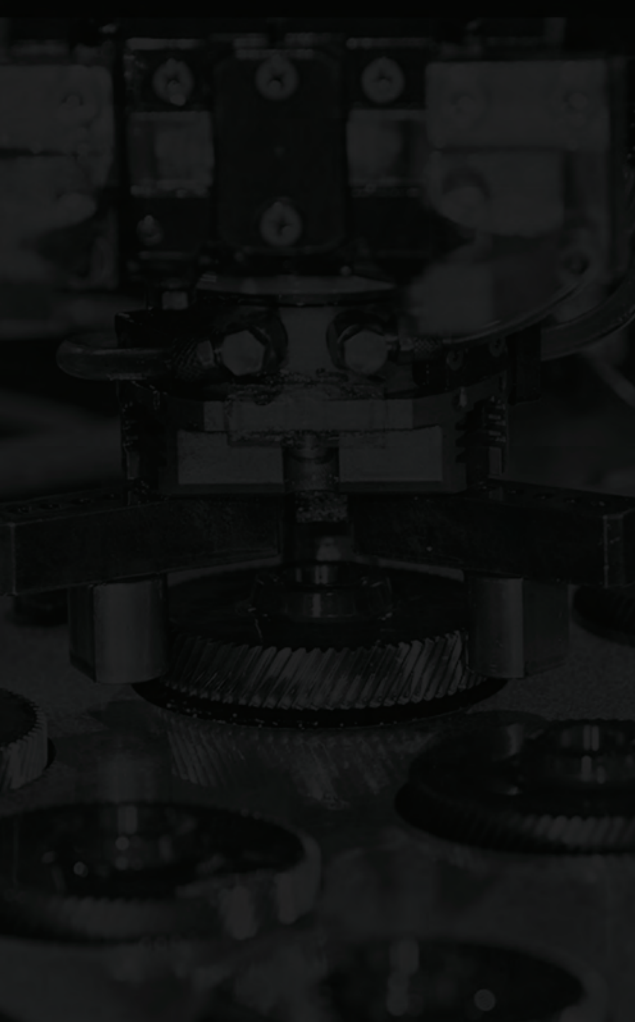
La garanzia decade nel caso in cui siano state eseguite riparazioni o apportate modifiche senza nostro consenso scritto.

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

HYDRO-MEC

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