

Stainlesssteel

Gears

Cat.: CT-VFM-I-HM009

Worm gearboxes
Riduttori a vite senza fine



Made in Italy

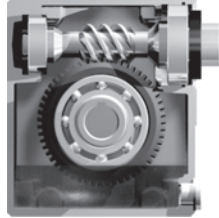
HYDRO · MEC

Stainlesssteel Gears 130 ÷ 185

STANDARD FEATURES

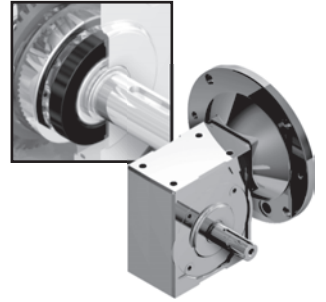


FPM (fkm) Seals.

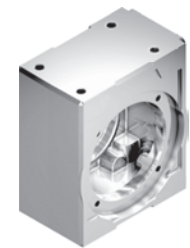


Special housing designed to keep adequate lubrication with low Oil q.ty to avoid internal pressures.

OPTIONS



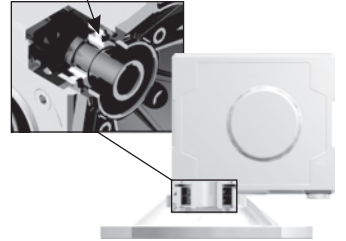
Protective seals cup to stand high pressure cleaning for hollow or extended shaft version.



Full Stainless Steel Housing.

Life lubricated fully synthetic oil

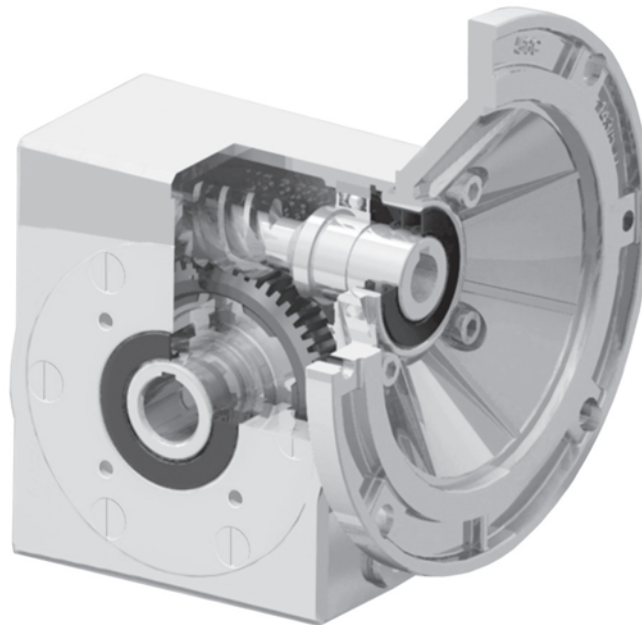
Second Bearing



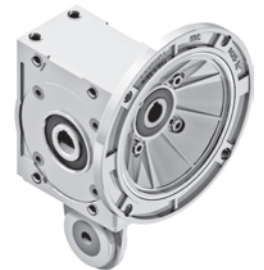
Standard second bearing on motor flange side and two oil seals with vertical motor position.



VITON output seal with external dust protection lips.



TORQUE ARM

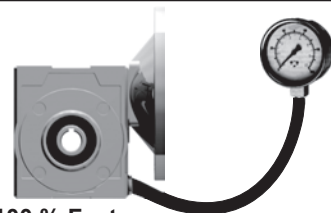


Stainless Steel Hollow shaft.

O-rings on all closing covers.



Optional interchangeable right or left hand output shafts available.

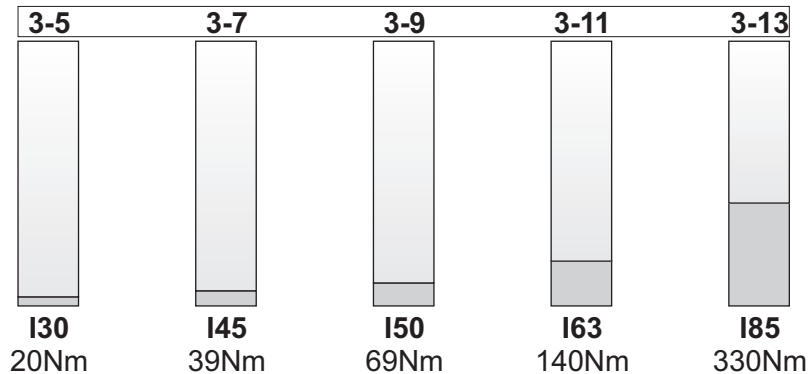


100 % Factory pressure leak test.

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



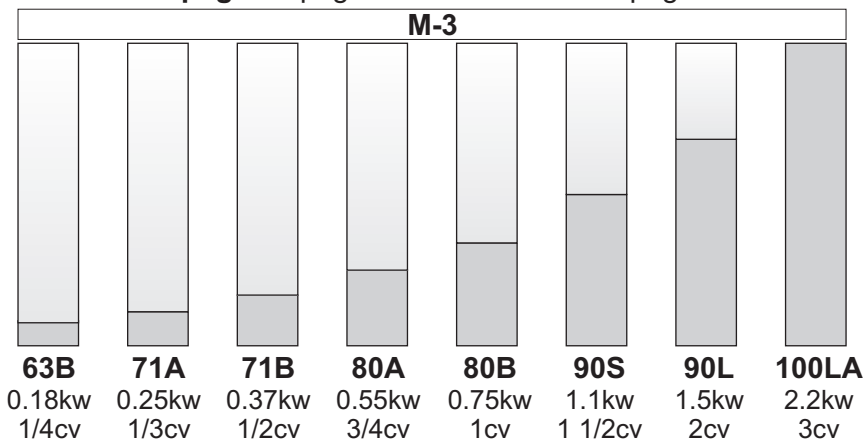
Types / Tipi /
Arten / Tipos →



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



Types / Tipi /
Arten / Tipos →



For : / Per : / Für : / Para :

Selection guide - fs
Guida alla selezione

Mounting pos. - Lubrication
Pos. di montaggio - lubrificazione

2 - 6 poles selection
Selezione 2 - 6 poli

Radial - axial loads
Carichi radiali e assiali

Reversibility
Reversibilità

Thermal limit
Limite termico

Atex certification
Certificazione Atex

Accessories
Accessori

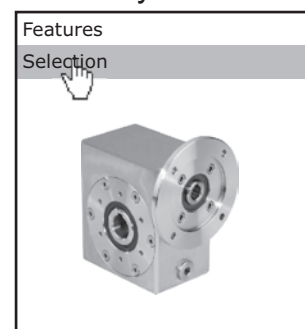
Download 3D drawings
Download disegni 3D

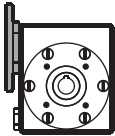

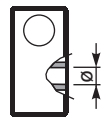
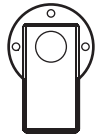
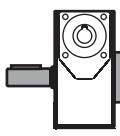
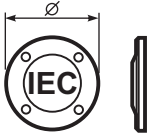
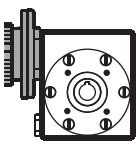
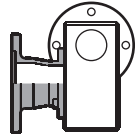
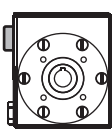
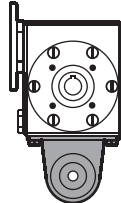
Interchangeability
Intercambiabilità

Installation and maintenance
Installazione, uso e manutenzione

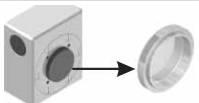
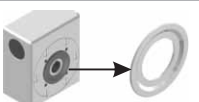
Spare parts list
Liste parti di ricambio

See on our web site
www.hydromec.com
just click on the product
family button



Type - Tipo Typ - Tipo	Size - Grandezza Grösse - Tamaño	Mounting - Montaggio Montage Tipo de montaje	Ratio - Rapporto Untersetzung Relación	Hub - Mozzo corona Hohlwelle Nucleo corona	Output shaft Albero lento Abtriebswelle Eje solida	Motor size Grandezza motore Motor Grösse Tamaño motor
P	I45	UN	10	U	S	A
 P	I30 I45 I50 I63 I85	 UN	See technical data table Vedi tabelle dati tecnici. Ver tabla datos técnicos	 Ø STANDARD I30 ⇨ Ø14 I45 ⇨ Ø18 I50 ⇨ Ø25 I63 ⇨ Ø25 I85 ⇨ Ø35 U INCH I45 ⇨ Ø0.750" I50 ⇨ Ø1.000" I63 ⇨ Ø1.125" I85 ⇨ Ø1.500"	 Ø  S	
 M		 FL				I30 O P W 56B14 (Ø80) 63B14 (Ø90) 56C (Ø6.5")
 B		 BR Full stainless steel Torque arm				I45 P Q W 63B14 (Ø90) 71B14 (Ø105) 56C (Ø6.5")
						I50 P Q R W 63B14 (Ø90) 71B14 (Ø105) 80B14 (Ø120) 56C (Ø6.5")
						I63 Q R T W X 71B14 (Ø105) 80B14 (Ø120) 90B14 (Ø140) 56C (Ø6.5") 143/5TC (Ø6.5")
						I85 D E U W X Y 80B5 (Ø200) 90B5 (Ø200) 100-112B14 (Ø160) 56C (Ø6.5") 143/5TC (Ø6.5") 182/4TC (Ø8.88")

On request

A	Protective seals cup CLOSE TYPE	
B	Protective seals cup OPEN TYPE	

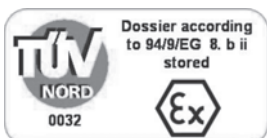
0=Type R

Reduced Fl.

- 1**=56B5/Ø11
- 2**=63B5/Ø14
- 3**=71B5/Ø19
- 4**=71B5/Ø24
- 5**=90B5/Ø28
- 6**=100B5/Ø38
- 7**=132B5/Ø42
- 8**=80B14/Ø11
- 9**=100B5/Ø24

M

without flange
Senza flangia



A richiesta possiamo fornire i nostri prodotti secondo le normative ATEX

On request we can deliver our products according to the ATEX

Auf Anfrage können wir unsere Produkte den Richtlinien ATEX entsprechend liefern

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

REQUIRED POWER / POTENZA RICHIESTA / ERFORDERLICHE LEISTUNG / POTENCIA NECESARIA

Lifting / sollevamento / hubantriebe / elevación

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

Rotation / rotazione / drehung / rotation

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

Linear movement / traslazione / linearbewegung / translacion

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

TORQUE / COPPIA / DREHMOMENT / PAR

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

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

RADIAL LOADS / CARICHI RADIALI / RADIALE - UND AXIALLASTEN / CARGA RADIAL Y AXIAL

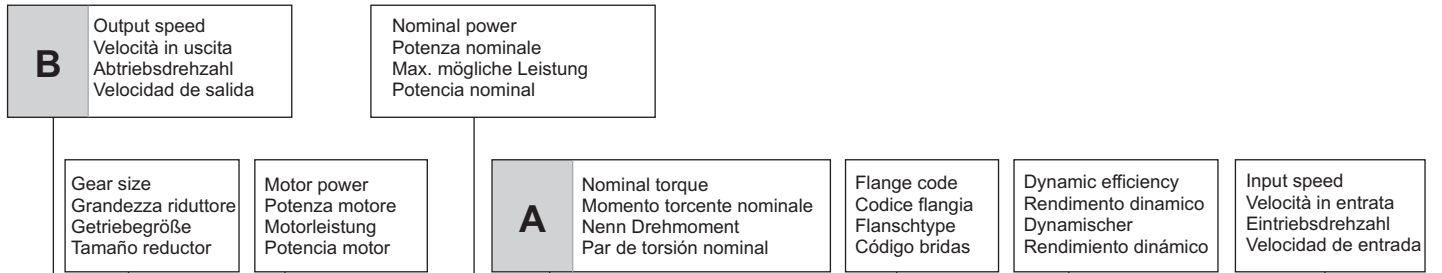
- Radial load generated by external transmissions keyed onto input and/or output shafts.
- Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.
- Belastungen der Antriebs- bzw. Abtriebswellen durch von aussen eingebrachte Radiallasten.
- Cargas radiales, generada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



	$F_R \text{ [N]} = \frac{M \text{ [Nm]} \cdot 2000}{d \text{ [mm]}} \cdot f_k$	$F_R \text{ [N]} = \frac{M \text{ [lb in]} \cdot 8.9}{d \text{ [in]}} \cdot f_k$
M	Output torque / Momento torcente / Abtriebsdrehmoment / Par torsion	
d	Diam. of driving element / Diametro primitivo / Durchmesser der Abtriebseinheit / Diámetro primitivo	
f_k	Factor / Coefficiente di trasformazione / Faktor / Coefficiente de transmisión 1.15 Gearwheels / Ingranaggi / Zahnrad / Engranaje 1.25 Chain sprochets / Catena / Antriebskette / Cadena 1.75 Narrow v-belt pulley / Cinghia Trapezoidale / Keilriemen / Correa trapezoidal 2.50 Flat-belt pulley / Cinghia piatta / Flachzahnriem. / Correa plana	

- If your application requires higher radial loads, contact our technical office. Higher load may be possible.
- Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.
- Wenn Ihre Anwendung höhere Radialbelastungen erfordert, so wenden Sie sich bitte an unser technischen Büro.
- En el caso en que una aplicación exija una carga radial superior a la especificada en el catálogo, consultar a nuestra oficinas técnica.

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

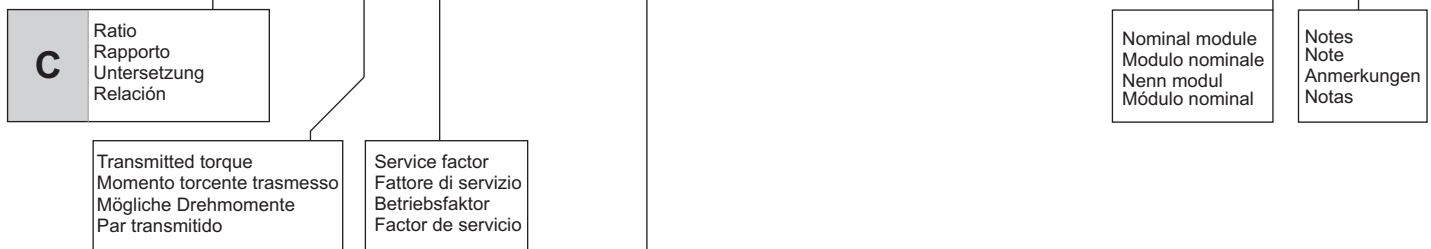


145 Rightangle - Gear
39Nm Rating - Stainlesssteel WORM GEARBOXES

QUICK SELECTION / Selezione veloce

input speed (n_i) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges			Dynamic efficiency RD	Tooth Module Mn	Ratios code
							B	C	O	P	Q			
200	7	0.37	14	2.1	0.76	29	B		B-C	B-C		80	2.2	01
140	10	0.37	20	1.5	0.54	29	B		B-C	B-C		79	2.2	02
100	14	0.37	27	1.1	0.39	29	B		B-C	B-C		77	2.4	03



D	Motor flange available Flange disponibili Erhältliche Motorflansche Bridas disponibles
B)	Mounting with reduction ring Montaggio con boccola di riduzione Reduzierhülsen Montaje con casquillo de reducción
C)	Motor flangeholes position/terminal box position Posizione fori flangia/basetta motore Bohrungsposition am Motorflansch/-socket Posición agujeros brida / base motor
B)	Available without reduction bushes Disponibile anche senza boccola Auch ohne Reduzierbuchse verfügbar 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	Seleccionar el par deseado (incluyendo el factor de servicio)
B	Select output speed	Seleziona la velocità in uscita	Ausgewählte Abtriebsdrehzahl	Seleccionar la velocidad de salida
C	On the same line of selected geared motor, you can find the gear ratio	Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione	Auf der gleichen Linie wie die ausgewählte Motorleistung steht auch die Getriebeuntersetzung	En la línea correspondiente al motor preseleccionado es posible encontrar la relación de reducción
D	Select motor flange available (if requested)	Scegli la flangia disponibile (se richiesta)	Erhältliche Motorflansche (auf Anfrage)	Seleccionar la brida disponible (sobre pedido)



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges not available		Available B14 motor flanges		Dynamic efficiency RD	Tooth Module Mn[mm]	Ratios code
							-	-	O	P			
280	5	0.18	5	3.2	0.57	16	-	-	B-C	63	82	1.26	09
200	7	0.18	7	2.3	0.42	16	-	-	B-C	63	80	1.44	01
140	10	0.18	10	1.7	0.30	16	-	-	B-C	63	78	1.44	02
93	15	0.18	13	1.3	0.24	18	-	-	B-C	63	73	1.44	03
70	20	0.18	17	1.0	0.19	18	-	-	B-C	63	70	1.09	04
47	30	0.12	15	1.3	0.16	20	-	-	B-C	63	62	1.44	05
35	40	0.12	19	1.0	0.12	19	-	-	B-C	63	57	1.09	06
23	61	0.09	19	1.0	0.09	19	-	-	B-C	63	50	0.72	07
17.5	80	0.09	16	1.0	0.06	15	-	-	B-C	63	48	0.56	08

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 I30 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.

LUBRICATION I30 Oil Quantity 0.10 Lt.

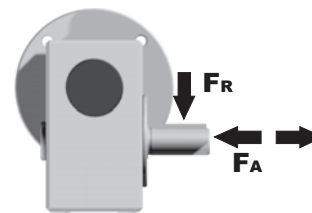
AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

I Il riduttore tipo I30 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.

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n_2 [min ⁻¹]	FA [N]	FR [N]
200	120	600
150	140	700
100	160	800
75	180	900
50	200	1000
25	250	1250
15	280	1400

tab. 2

D Für die Lebensdauerschmierung ist das Getriebe der Größe I30 mit synthetischem Öl befüllt. Bei Einbaulage V5 oder V6 bitten wir um Rücksprache. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño I30 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.

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

Selection Service Factor
Selezione e fattore di servizio

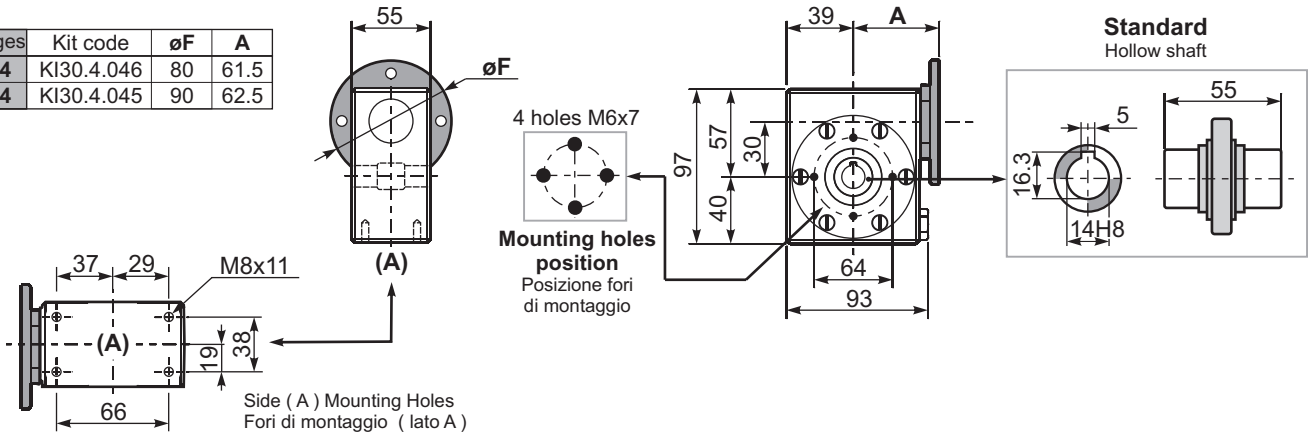
Installation & Maintenance
Installazione e manutenzione

DETAILED LUBRICATION / POSITIONS
Dettagli lubrificazione / posizioni

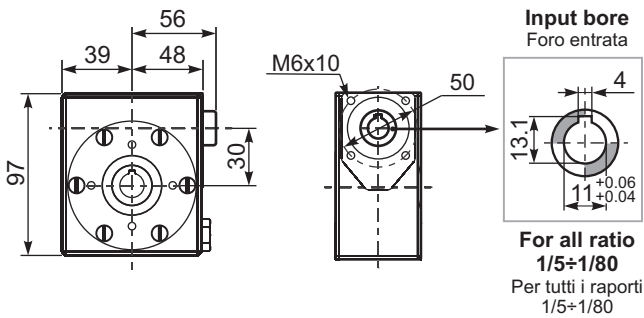
Wormbox weight
peso riduttore **2.5 kg**

PI30**UN**... Basic wormbox
Riduttore base

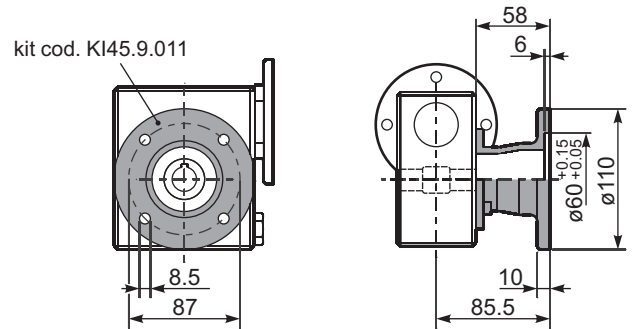
M. flanges	Kit code	øF	A
56B14	KI30.4.046	80	61.5
63B14	KI30.4.045	90	62.5



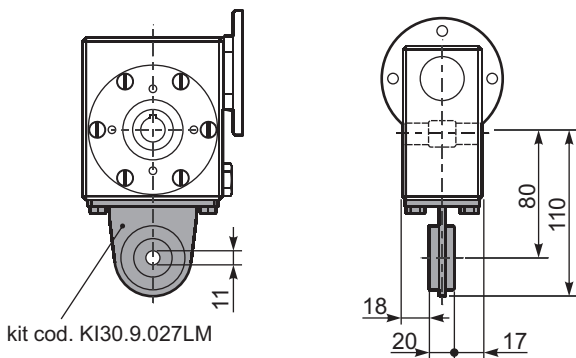
BI30UN... Modular base
Base modulare



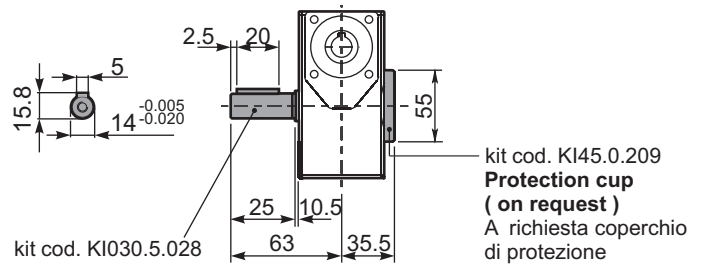
PI30**FL**... Output flange
Flangia uscita



PI30**BR**... Reaction arm
Braccio di reazione



PI30.....**S**... Single Shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce							input speed (n ₁) = 1400 min ⁻¹						
Output Speed n ₂ [min ⁻¹]	Ratio i	Motor power P _{1M} [kW]	Output torque M _{2M} [Nm]	Service factor f.s.	Nominal power P _{1R} [kW]	Nominal torque M _{2R} [Nm]	B5 motor flanges not available		Available B14 motor flanges		Dynamic efficiency RD	Tooth Module Mn[mm]	Ratios code
							-	-	P	Q			
200	7	0.37	14	2.1	0.76	29	-	-	B-C	71	80	2.2	01
140	10	0.37	20	1.5	0.54	29	-	-	B-C	71	79	2.2	02
100	14	0.37	27	1.1	0.39	29	-	-	B-C	71	77	2.4	03
67	21	0.37	36	1.1	0.41	39	-	-	B-C	71	67	1.6	04
50	28	0.25	31	1.3	0.31	39	-	-	B-C	71	65	2.5	05
38	37	0.25	40	1.0	0.25	39	-	-	B-C	71	63	1.8	06
30	46	0.25	46	0.8	0.21	39	-	-	B-C	71	59	1.5	07
23	60	0.18	41	0.9	0.17	39	-	-	B-C	71	56	1.2	08
20	70	0.12	31	0.9	0.11	29	-	-	B-C	71	54	1.0	09
13.7	102	0.09*	28	<0.8	0.08	28	-	-	B-C	71	49	0.72	10

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 I45 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 I45 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.

D Für die Lebensdauerschmierung ist das Getriebe der Größe I45 mit synthetischem Öl befüllt. Bei Einbaulage V5 oder V6 bitten wir um Rücksprache. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño I45 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.

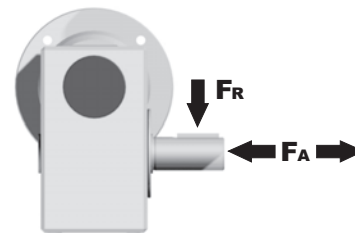
▀ LUBRICATION I45 Oil Quantity 0.24 Lt.

AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

▀ RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n ₂ [min ⁻¹]	FA [N]	FR [N]
200	180	900
150	200	1000
100	220	1100
75	240	1200
50	260	1400
25	300	1800
15	400	2000

tab. 2

▀ CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS
Dati tecnici completi



Mounting Positions
Posizioni montaggio

Accessories and Options
Accessori e opzioni

Spare Parts
Parti di ricambio

ADVANCED SELECTION BY INPUT POWER
Selezione per potenza

Documentation
Documentazione

Stock and Logistic
Stock e logistica

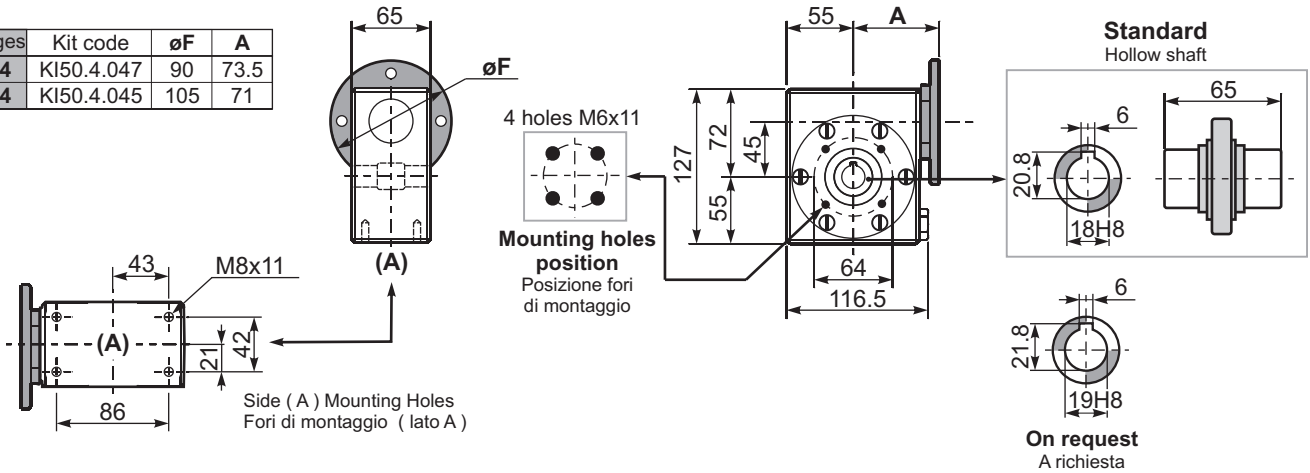
Selection Service Factor
Selezione e fattore di servizio

Installation & Maintenance
Installazione e manutenzione

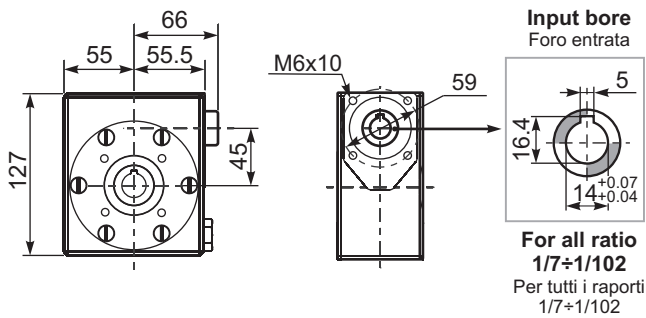
Wormbox weight
peso riduttore **5.0 kg**

PI45**UN**... Basic wormbox
Riduttore base

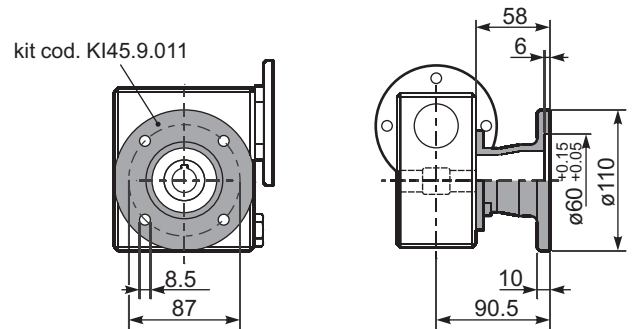
M. flanges	Kit code	øF	A
63B14	KI50.4.047	90	73.5
71B14	KI50.4.045	105	71



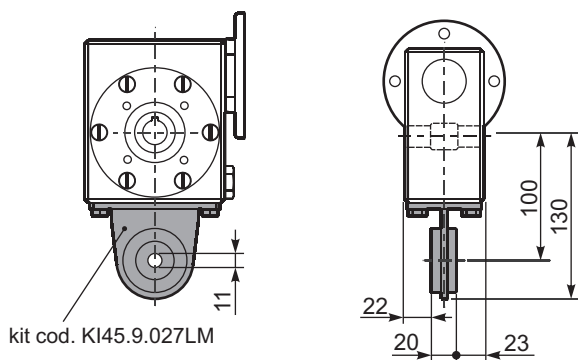
BI45UN... Modular base
Base modulare



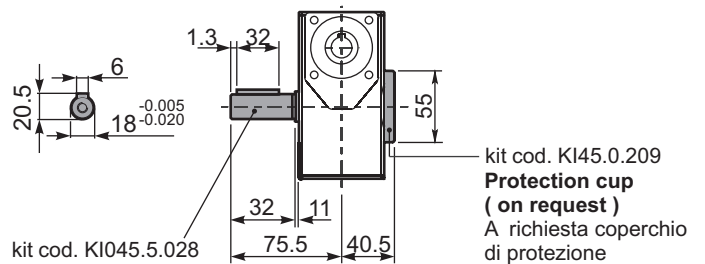
PI45FL... Output flange
Flangia uscita



PI45BR... Reaction arm
Braccio di reazione



PI45....S... Single Shaft
Albero lento semplice





QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges not available		Available B14 motor flanges			Dynamic efficiency RD	Tooth Module Mn[mm]	Ratios code
							-	-	P	Q	R			
200	7	0.75	29	1.8	1.4	54	-	-	B-C	B		82	2.5	01
140	10	0.75	41	1.4	1.1	59	-	-	B-C	B		80	2.4	02
100	14	0.75	57	1.1	0.86	65	-	-	B-C	B		79	2.6	03
78	18	0.55	51	1.2	0.64	59	-	-	B-C	B		75	2.0	04
54	26	0.55	67	0.9	0.51	63	-	-	B-C	B		69	2.7	05
39	36	0.37	63	1.1	0.41	69	-	-	B-C			69	2.1	06
33	43	0.37	72	0.9	0.34	65	-	-	B-C			66	1.8	07
23	60	0.25	59	1.0	0.25	59	-	-	B-C			58	1.3	08
21	68	0.25	66	0.8	0.21	55	-	-	B-C			57	1.2	09
17.5	80	0.18	53	1.0	0.18	54	-	-	B-C			54	1.0	10
14	100	0.12	41	1.2	0.14	49	-	-	B-C			50	0.8	11

Motor Flanges Available
Flange Motore Disponibili

B) Supplied with Reduction Bushing
Fornito con Bussola di Riduzione

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

C) Motor Flange Holes Position
Posizione Fori Flangia Motore

EN Unit I50 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.

LUBRICATION I50 Oil Quantity 0.38 Lt

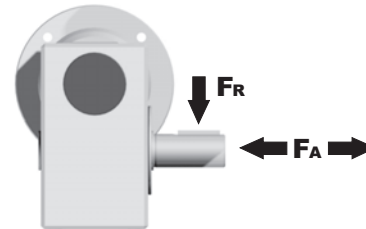
AGIP	KLUBER	SHELL	MOBIL
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630

tab. 1

I Il riduttore tipo I50 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.

RADIAL AND AXIAL LOADS

Output shaft
Albero di uscita



n_2 [min ⁻¹]	FA [N]	FR [N]
200	240	1200
150	280	1400
100	300	1500
75	340	1700
50	380	1900
25	480	2500
15	560	2800

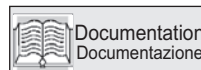
tab. 2

D Für die Lebensdauerschmierung ist das Getriebe der Größe I50 mit synthetischem Öl befüllt. Bei Einbaulage V5 oder V6 bitten wir um Rücksprache. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño I50 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.

CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

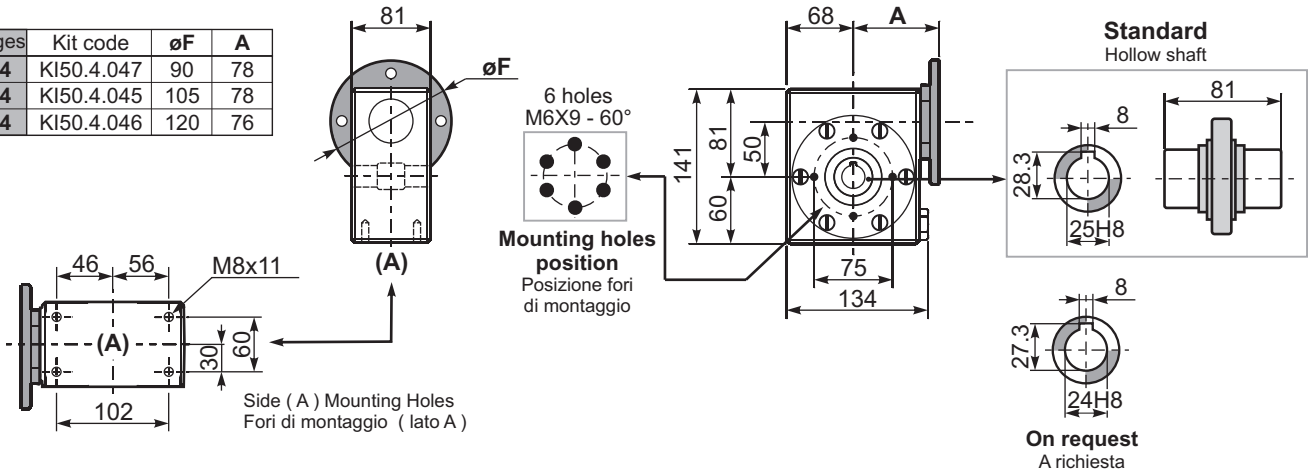
COMPLETE TECHNICAL DATAS Dati tecnici completi
ADVANCED SELECTION BY INPUT POWER Selezione per potenza
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni



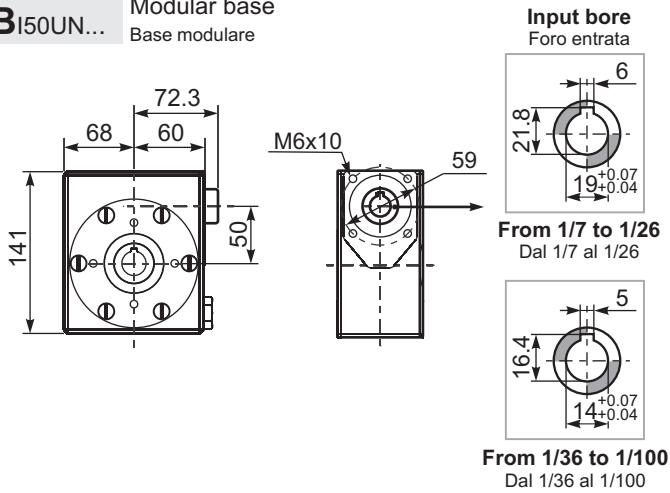
Wormbox weight
peso riduttore **7.3 kg**

PI50**UN**... Basic wormbox
Riduttore base

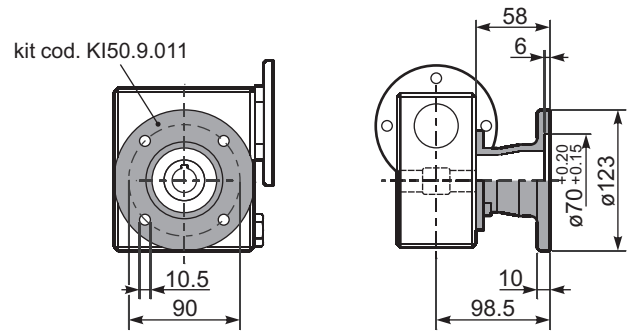
M. flanges	Kit code	øF	A
63B14	KI50.4.047	90	78
71B14	KI50.4.045	105	78
80B14	KI50.4.046	120	76



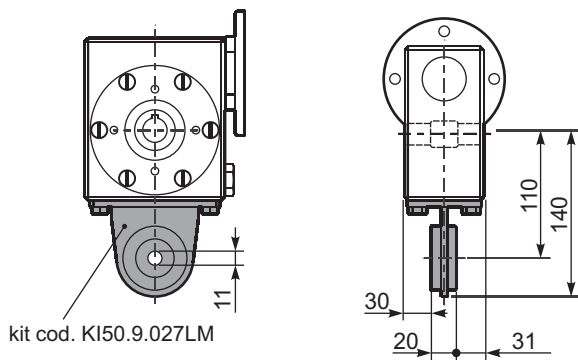
BI50UN... Modular base
Base modulare



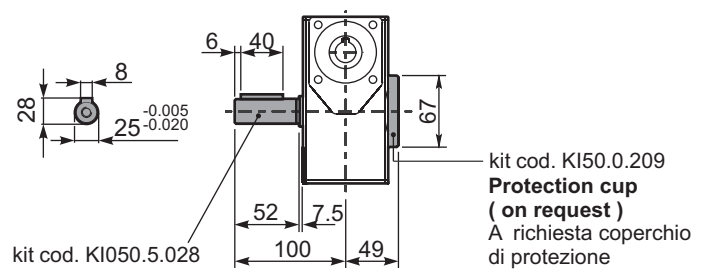
PI50FL... Output flange
Flangia uscita



PI50BR... Reaction arm
Braccio di reazione



PI50.....S... Single Shaft
Albero lento semplice





■ QUICK SELECTION / Selezione veloce							input speed (n_1) = 1400 min ⁻¹							
Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges not available		Available B14 motor flanges			Dynamic efficiency RD	Tooth Module Mn [mm]	Ratios code
							-	-	Q	R	T			
200	7	1.8	71	1.7	3.0	119			B-C	B-C		83	3.1	01
140	10	1.8	99	1.3	2.3	128			B-C	B-C		81	3.1	02
93	15	1.5	121	1.1	1.6	131			B-C	B-C		79	3.1	03
74	19	1.1	111	1.2	1.3	131			B-C	B-C		78	2.6	04
58	24	1.1	135	1.0	1.1	135			B-C	B-C		75	2.0	05
47	30	1.1	167	0.8	0.92	139			B-C	B-C		74	3.2	06
39	36	0.75	125	1.1	0.84	140			B-C	B-C		68	2.7	07
31	45	0.55	111	1.2	0.63	129			B-C	C		66	2.1	08
21	67	0.55	151	0.8	0.43	118			B-C	C		60	1.5	09
17.5	80	0.37	115	1.0	0.36	113			B-C	C		57	1.3	10
14.9	94	0.37	123	0.9	0.34	113			B-C	C		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 I63 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 I63 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.

D Für die Lebensdauerschmierung ist das Getriebe der Größe I63 mit synthetischem Öl befüllt. Bei Einbaulage V5 oder V6 bitten wir um Rücksprache. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño I63 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.

Standard	On request				
0.98 LT	0.69 LT	0.69 LT	0.98 LT	0.98 LT	0.98 LT
AGIP	KLUBER	SHELL	MOBIL		
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630		

tab. 1

■ RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita	n_2	FA	FR
	200	360	1800
	150	400	2000
	100	460	2300
	75	500	2500
	50	600	3000
	25	700	3800
	15	800	4000

tab. 2

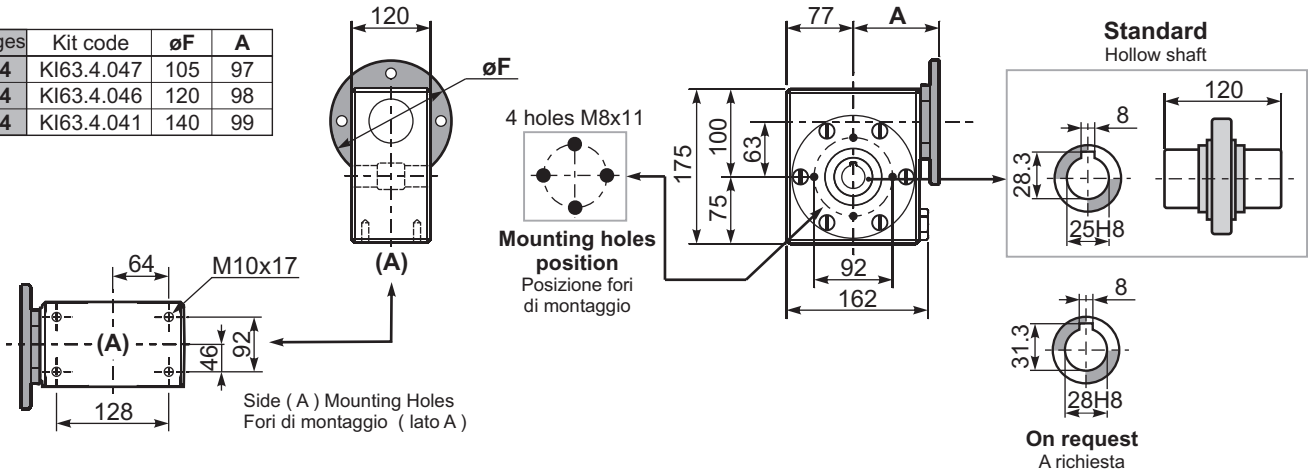
■ CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi		Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza		Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione
DETAILED LUBRICATION / POSITIONS Dettagli lubrificazione / posizioni	Documentation Documentazione			

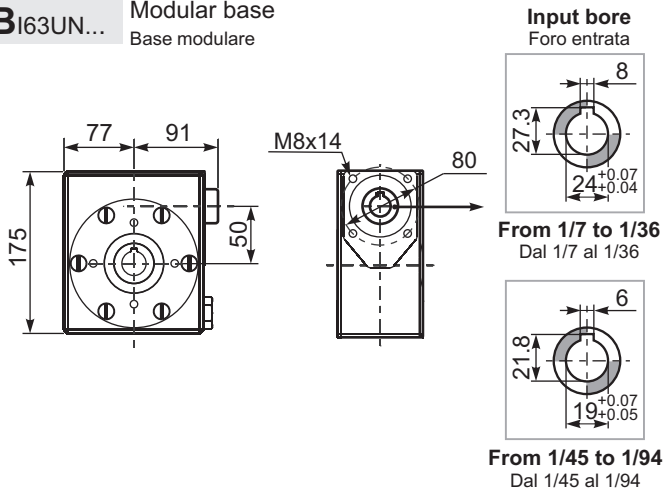
Wormbox weight **14.6 kg**
peso riduttore

PI63**UN**... Basic wormbox
Riduttore base

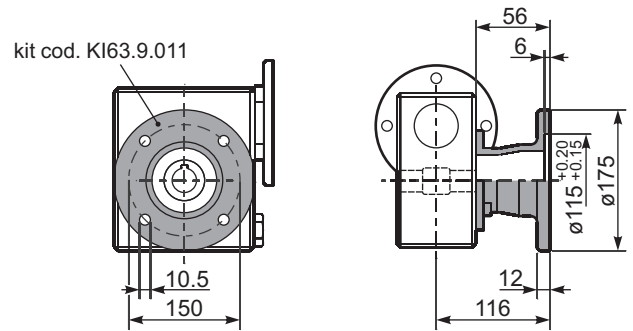
M. flanges	Kit code	øF	A
71B14	KI63.4.047	105	97
80B14	KI63.4.046	120	98
90B14	KI63.4.041	140	99



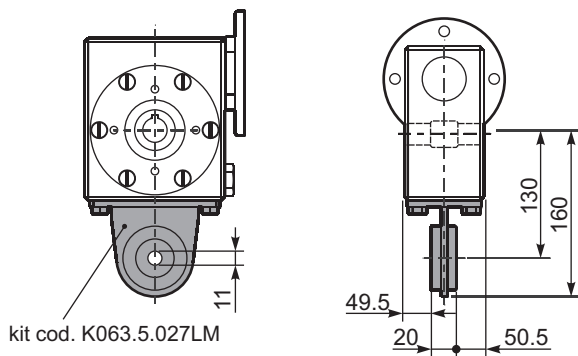
BI63UN... Modular base
Base modulare



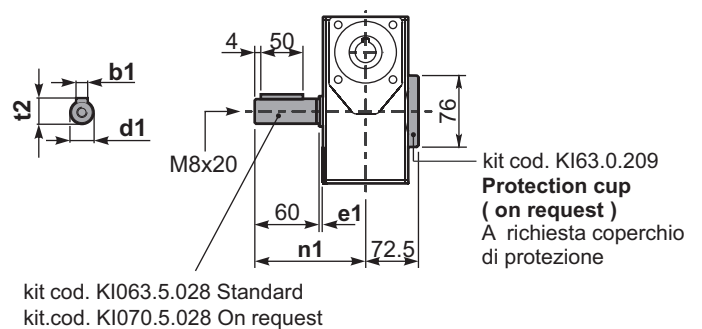
PI63FL... Output flange
Flangia uscita



PI63BR... Reaction arm
Braccio di reazione



PI63.....S... Single Shaft
Albero lento semplice



	b1	e1	d1	n1	t2
Standard	8	3.2	25 ^{-0.005} _{-0.020}	121.9	28
On request	8	3.5	28 ^{-0.005} _{-0.020}	122.2	31



QUICK SELECTION / Selezione veloce

input speed (n_1) = 1400 min⁻¹

Output Speed n_2 [min ⁻¹]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s.	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	Available B5 motor flanges		Available B14 motor flanges	Dynamic efficiency RD	Tooth Module Mn[mm]	Ratios code
							D	E	U			
200	7	4.0	168	1.5	5.8	245	B	B		88	4.23	01
140	10	4.0	218	1.2	4.9	270	B	B		80	4.2	02
100	14	3.0	223	1.3	3.9	290	B	B		78	4.5	03
70	20	2.2	237	1.2	2.6	280	B	B		79	3.4	04
64	22	2.2	258	1.1	2.4	280	B	B		78	3.1	05
50	28	2.2	315	1.0	2.3	330	B	B		75	4.7	06
37	38	1.5	276	1.2	1.7	320	B	B		71	3.5	07
30	46	1.5	320	1.0	1.4	310	B	B		68	3.1	08
27	52	1.1	258	1.1	1.2	275	B	B		66	2.7	09
21	67	1.1	327	0.8	0.93	275	B	B		65	2.1	10
18.9	74	0.75	220	1.2	0.87	255	B	B		58	1.9	11
14.6	96	0.55	191	1.2	0.66	230	B	B		53	1.5	12

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 I85 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 I85 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.

D Für die Lebensdauerschmierung ist das Getriebe der Größe I85 mit synthetischem Öl befüllt. Bei Einbaulage V5 oder V6 bitten wir um Rücksprache. In Tabelle 1 ist die Schmiermenge und das empfohlene Schmiermittel angegeben. In Tabelle 2 sind die zulässigen Radial- und Axialbelastungen des Getriebes aufgeführt. Die komplette Dokumentation, Wartungs- und Inbetriebnahmeanleitungen finden Sie unter.

E El reductor tamaño I85 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.

Standard			On request		
2.10 LT	1.50 LT	1.50LT	2.10 LT	2.10 LT	2.10 LT
AGIP	KLUBER	SHELL	MOBIL		
Telium VSF 320	Syntheso D220 EP	Tivela Oil WB	Glygoyl 30 SHC 630		

tab. 1

-RADIAL AND AXIAL LOADS			
Output shaft Albero di uscita 	n_2 [min ⁻¹]	FA [N]	FR [N]
	200	500	2500
	150	580	2900
	100	600	3000
	75	700	3500
	50	800	4000
	25	1000	5000
15	1160	5800	

tab. 2

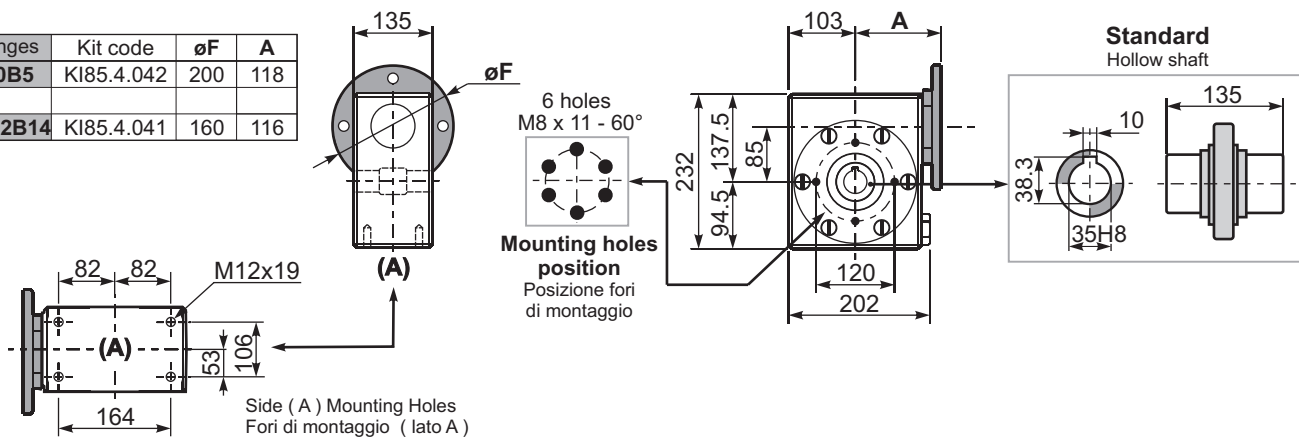
CHECK ON OUR WEB SITE FOR / Controllare sul nostro sito web per:

COMPLETE TECHNICAL DATAS Dati tecnici completi		Mounting Positions Posizioni montaggio	Accessories and Options Accessori e opzioni	Spare Parts Parti di ricambio
ADVANCED SELECTION BY INPUT POWER Selezione per potenza	Documentation Documentazione	Stock and Logistic Stock e logistica	Selection Service Factor Selezione e fattore di servizio	Installation & Maintenance Installazione e manutenzione

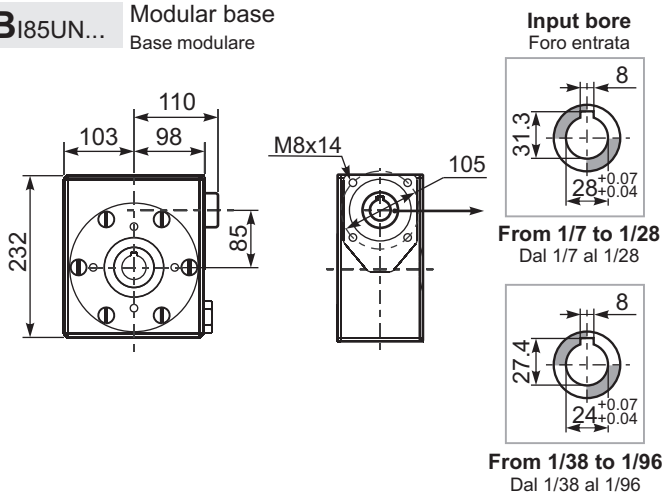
Wormbox weight
peso riduttore **23.3 kg**

PI85UN... Basic wormbox
Riduttore base

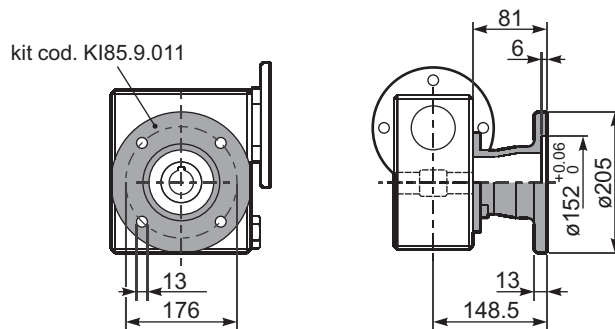
M. flanges	Kit code	øF	A
80-90B5	KI85.4.042	200	118
100-112B14	KI85.4.041	160	116



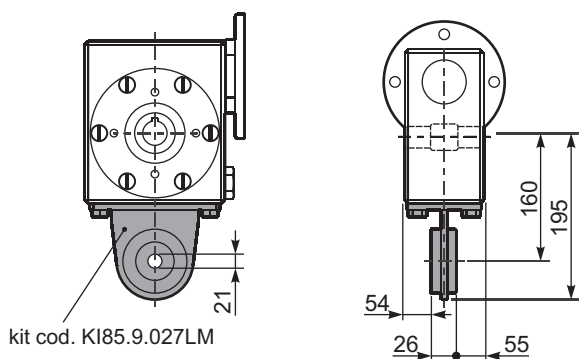
BI85UN... Modular base
Base modulare



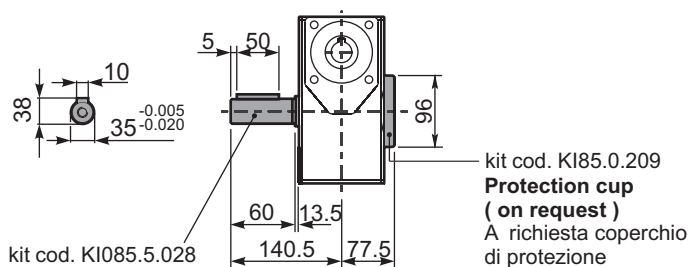
PI85FL... Output flange
Flangia uscita



PI85BR... Reaction arm
Braccio di reazione

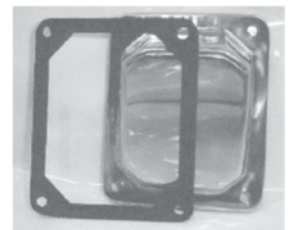
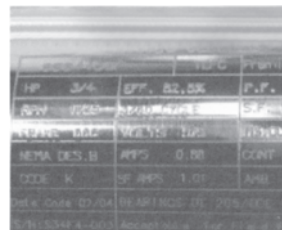
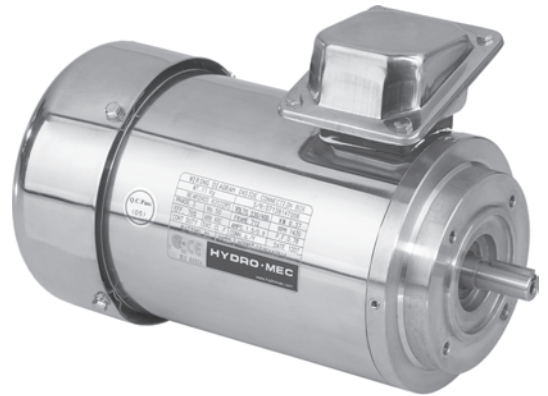
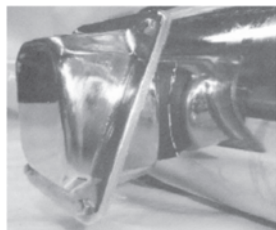
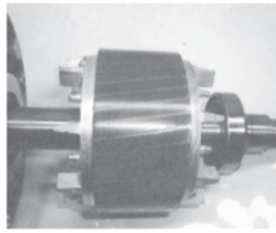


PI85.....S... Single Shaft
Albero lento semplice

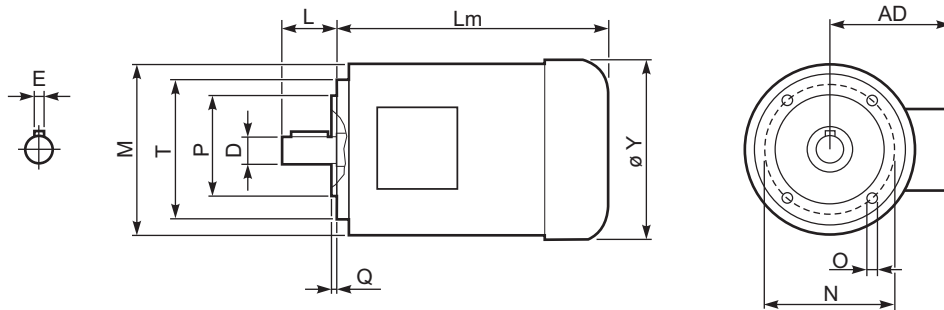


Stainlesssteel IEC motors

- 1) 300 Series Stainless Steel Construction.
- 2) Inverter duty
- 3) Washdown Duty Applications.
- 4) BISSC Certified.
- 5) Pharmaceutical & Food Processing.
- 6) Beverage Industry.
- 7) Mill and Chemical Duty.
- 8) Corrosion Resistant.
- 9) Laser Etched Nameplate.
- 10) Oversized Bearings on both ends
c/w Locked Drive-end Bearing
Construction.
- 11) Oversized Conduit Box c/w Lead
Seal.
- 12) Drill & Tapped Drains.
- 13) T-Drain included.
- 14) Double Lip Contact Seals.
- 15) IP 65



B14



Outside dimensions may be different according to manufacturers.
Le dimensioni esterne sono indicative, possono variare tra i vari costruttori.

	4 poli / poles			B14												Kg
	kW	Nm	A _(400V)	D	E	L	Lm	Y	AD	P	N	M	T	O	Q	
63	0.18	1.30	0.69	11	4	23.5	252	128	106	60	75	114	90	M5	2.5	8.2
71	0.25	1.70	0.91	14	5	30.5	228	146	115	70	85	134	105	M6	2.5	8.3
	0.37	2.52	1.14				252									10.4
80	0.55	3.77	1.51	19	6	40	300	158	115	80	100	144	120	M6	3	17.5
	0.75	5.11	2.57													17.5
90	1.1	7.45	2.78	24	8	50	321	174	135	95	115	165	140	M8	3	22.4
	1.5	10.2	3.61				367									27.6
100	2.2	14.8	5.07	28	8	60	374	203	150	110	130	190	160	M8	3.5	33.5

Please Read Carefully

The following WARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your product.

Read ALL instructions prior to operating reducer. Injury to personnel or reducer failure may be caused by improper installation, maintenance or operation.

WARNING:

- Written authorization required to operate or use reducers in man lift or people moving devices.
- Check to make sure that certain applications do not exceed the allowable load capacities published in the current catalog.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.
- Hot oil and reducers can cause severe burns. Use extreme care when removing lubrication plugs and vents.
- Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application power.
- Reducers are not to be considered fail safe or self-locking devices. If these features are required, a properly sized, independent holding device should be utilized. Reducers should not be used as a brake.
- Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as to not subject the reducer to loads beyond the catalog rating.
- Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and not other associated attachments or motors.
- Use of an oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to the reducer or other equipment may result.
- Overhung loads subject shaft bearings and shafts to stress which may cause premature bearing failure and or shaft breakage from bending fatigue, if not sized properly.

Our company will not be responsible for any direct or indirect damages, caused by a wrong use of the products or for not observing the catalogue/web indication

Leggere attentamente

Le seguenti raccomandazioni sono fondamentali per la vostra protezione e per garantirvi molti anni di sicuro funzionamento del vostro prodotto senza alcun problema.

Leggere attentamente tutte le istruzioni prima di azionare il riduttore. L'inappropriata installazione, manutenzione o funzionamento del riduttore può causare incidenti al personale addetto e danni al riduttore stesso.

ATTENZIONE!

- E' richiesta autorizzazione scritta per azionare riduttori in ascensori o dispositivi per il movimento delle persone.
- Controllare che alcune applicazioni non eccedano la massima capacità di carico ammessa pubblicata in questo catalogo.
- L'acquirente è l'unico responsabile per la determinazione dell'adeguatezza del prodotto per qualcuna o tutte le utilizzazioni che l'acquirente stesso farà del riduttore. L'applicazione dell'acquirente non potrà essere soggetta ad alcuna implicita garanzia di montaggio per uno scopo particolare.
- Per ragioni di sicurezza l'acquirente dovrà provvedere a porre protezioni adeguate su tutta la lunghezza dell'albero a tutti gli organi in movimento. L'utilizzatore è responsabile del controllo di tutti i codici di sicurezza e la predisposizione di protezioni adeguate. In assenza di tali precauzioni si possono verificare incidenti alle persone e danni agli apparati.
- Olio e riduttori bollenti possono causare gravi ustioni. Usare estrema cautela nella rimozione dei tappi e delle ventole.
- 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.

La nostra ditta non si ritiene responsabile per eventuali danni diretti o indiretti derivanti da un uso improprio dei prodotti e dalla mancata osservanza delle indicazioni riportate a catalogo o web..

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One step gearboxes
Riduttori ad uno stadio



Worm gearboxes
Rid. a vite senza fine



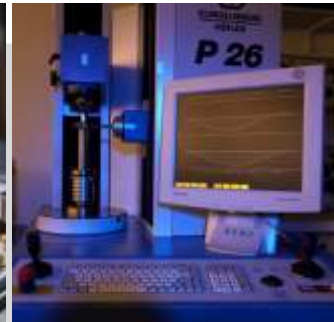
Square worm gearboxes
Rid. a vite senza fine quadrato



Coaxial gearboxes
Riduttori coassiali



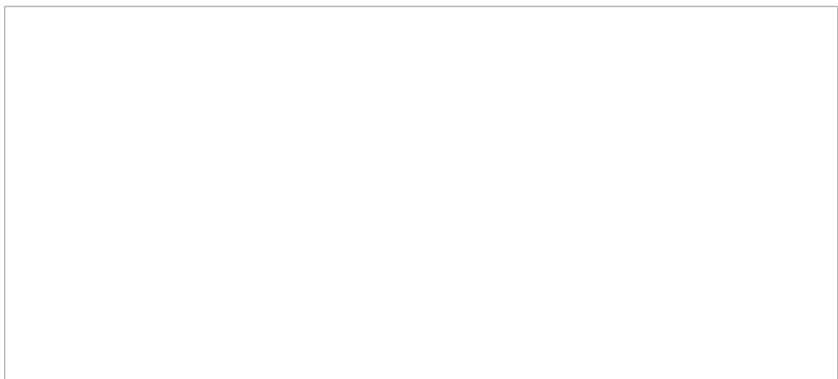
Shaft mounted gearboxes
Rid. ad assi paralleli



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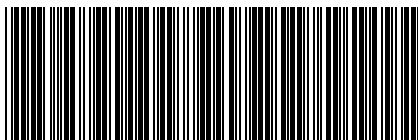


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