Stainless steel shielded helical bevel gearboxes

Riduttori a coppia conica schermati in acciaio inox

This range is CE NSF COMPONENT certified

FEATURES

Caratteristiche

BVL series
Stainless steel shielded helical bevel gearboxes

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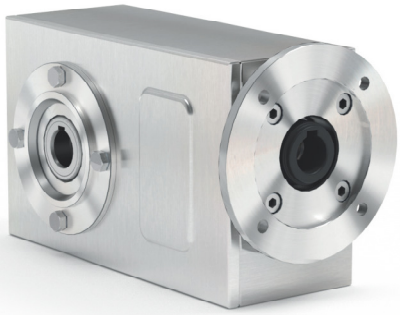
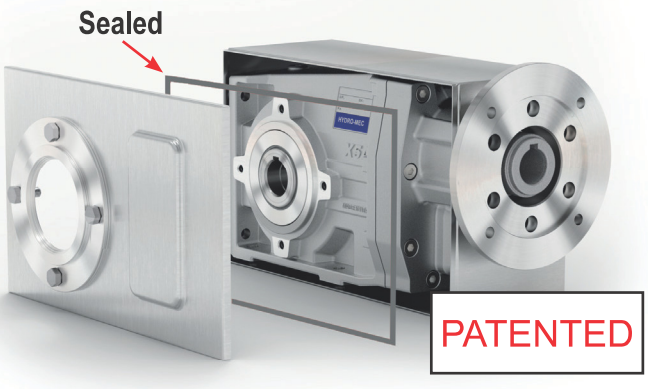
Type *Tipo*	Torque *Coppia*	Center distance *Interasse*	Input power *Potenza in entrata*	Hollow output shaft *Albero cavo in uscita*
X22L	50 Nm	-	0.12 ÷ 0.37 kW	**ø20**
X32L	90 Nm	-	0.25 ÷ 1.5 kW	**ø20**
X42L	150 Nm	-	0.25 ÷ 1.5 kW	**ø25**
X52L	250 Nm	-	0.55 ÷ 3.0 kW	**ø30**
X62L	410 Nm	-	0.75 ÷ 4.0 kW	**ø35**



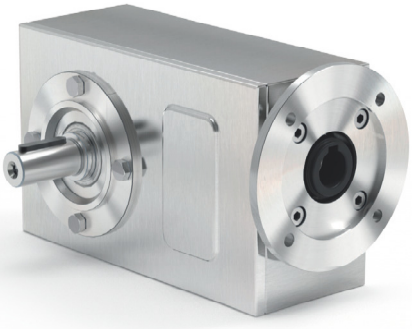
This product is:

CE NSF COMPONENT



The “L” series is an already totally enclosed aluminum gearboxes, that is shielded and sealed by stainless steel 316L case.

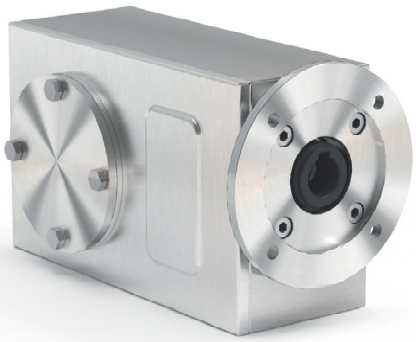
La serie “L” è ottenuta da un riduttore in alluminio che viene incapsulato all’interno di un carter sigillato in inox 316L.



Output shaft is produced in AISI 316L.

Albero in uscita in AISI 316L.

FEATURES

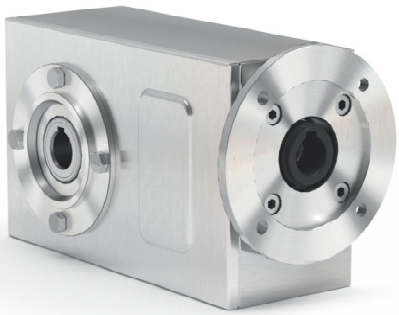


Protection cap in AISI 316L.

Coperchietto di protezione in AISI 316L.

Fully modular IEC flanges and compact NEMA C motor flanges.

Flange IEC e NEMA completamente modulari.



Stainless steel 316L hollow output shaft.
Viton seals with stainless steel 316L shield.

Albero cavo in uscita in acciaio inox AISI 316L. Anelli di tenuta in viton con schermo protettivo in acciaio inox AISI 316L.

Hardened and ground gears.

Ingranaggi temprati e rettificati.

How to order

Codifica

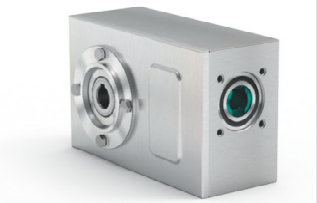
M	X42L	I	7.29	-C	BR
Type *Tipo*	**Size** *Grandezza*	**Hub** *Mozzo*	**Ratio** *Rapporto*	**Output shaft** *Albero uscita*	**Type** *Tipo*

Type / Tipo

P

M

B



Size / Grandezza

X22L
X32L
X42L
X52L
X62L

Hub / Mozzo

I
Hollow output shaft
Foro albero uscita

A
Single output shaft
Albero uscita singolo

Ratio / Rapporto

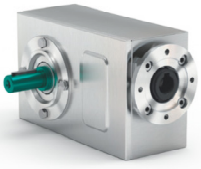
See technical data table
Vedi tabelle dati tecnici

Output shaft / Albero uscita

Hollow output shaft
Foro albero uscita

X22L X32L
-B → ø20
X42L
-C → ø25
X52L
-D → ø30
X62L
-E → ø35

Single output shaft
Albero uscita singolo



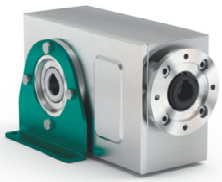
X22L X32L
-I → ø20
X42L
-L → ø25
X52L
-M → ø30
X62L
-N → ø35

Type / Tipo

FB
Universal
Forma base

BR
Reaction arm
Braccio di reazione

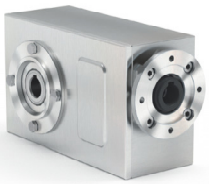
PA



PV

N	-T	B3	E	With Type M specify terminal box position *Con tipo M specificare posizione morsettiera*
Output flange *Flangia in uscita*	**Motor size** *Grandezza motore*	**Mounting position** *Posizione di montaggio*	**Input bore** *Foro entrata*	**Terminal box position** *Posizione morsettiera*

N Without flange
Senza flangia



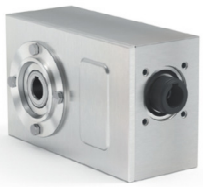
Flange
Flange

IEC B14

- **-P** -> *63 B14* (ø90)
- **-Q** -> *71 B14* (ø105)
- **-R** -> *80 B14* (ø120)
- **-T** > *90 B14* (ø140)
- **-U** -> *100÷112 B14* (ø160)

Without flange
Senza flangia

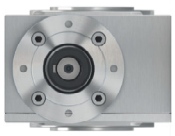
-M With coupling
Con giunto



B3

B6

B7



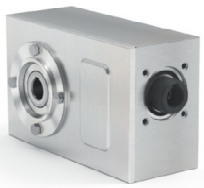
B8

V5

V6

V8

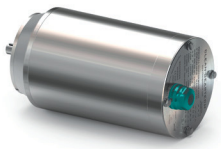
With coupling
Con giunto



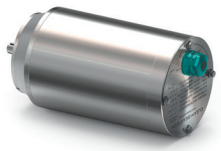
- **B** -> *11mm*
- **C** -> *14mm*
- **D** -> 19mm
- **E** -> 24mm
- **F** -> *28mm*

0 Ready for input coupling
Predisposto per giunto

A



B



C

D

Useful formulas

Formule utili

Required power - *Potenza richiesta*

Lifting - *Sollevamento*

$$P_{[kW]} = \frac{M_{[Kg]} \cdot g_{[9.81]} \cdot v_{[m/s]}}{1000}$$

Rotation - *Rotazione*

$$P_{[kW]} = \frac{M_{[Nm]} \cdot n_{[rpm]}}{9550}$$

Linear movement - *Traslazione*

$$P_{[kW]} = \frac{F_{[N]} \cdot v_{[m/s]}}{1000}$$

Torque - *Coppia*

$$M_{[Nm]} = \frac{9550 \cdot P_{[kW]}}{n_{[rpm]}}$$

$$M_{[lb\ in]} = \frac{63030 \cdot P_{[HP]}}{n_{[rpm]}}$$

Radial loads - *Carichi radiali*

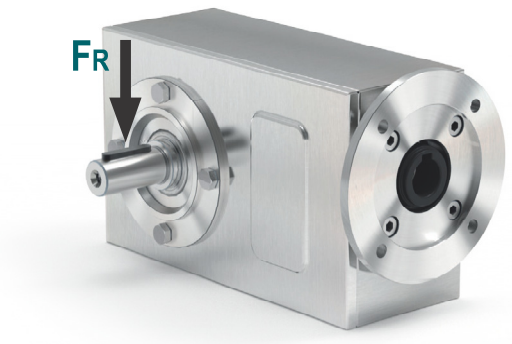
Radial load generated by external transmissions keyed onto input and/or output shafts.
Forza radiale generata da organi di trasmissione calettati sugli alberi di ingresso e/o uscita.

$$F_{R[N]} = \frac{M_{[Nm]} \cdot 2000}{d_{[mm]}} \cdot f_k$$

$$F_{R[N]} = \frac{M_{[lb\ in]} \cdot 8.9}{d_{[in]}} \cdot f_k$$

M: Output torque - *Momento torcente*
d: Diam. of driving element - *Diametro primitivo*
f_k: Factor - *Coefficiente di trasformazione*

- **1.15:** Gearwheels - *Ingranaggi*
- **1.25:** Chain sprochets - *Catena*
- **1.75:** Narrow v-belt pulley - *Cinghia Trapezoidale*
- **2.50:** Flat-belt pulley - *Cinghia piatta*



If your application requires higher radial loads, contact our technical office. Higher loads may be possible.
Nel caso la vostra applicazione richieda carichi radiali superiori consultare il nostro ufficio tecnico, valori maggiori possono essere accettati.

How to select a gearbox

Come selezionare un riduttore

A Select required torque (according to service factor)
Seleziona la coppia desiderata (comprensiva del fattore di servizio)

B Select output speed
Seleziona la velocità in uscita

C Select gear ratio in the line corresponding to the chosen motor power
Sulla riga corrispondente alla motorizzazione prescelta si può rilevare il rapporto di riduzione

D Select motor flange available (if requested)
Scegli la flangia disponibile (se richiesta)

Gear size *Grandezza riduttore* | **C** Ratio *Rapporto* | Transmitted torque *Momento torcente trasmesso* | Nominal power *Potenza nominale* | Flange code *Codice flangia* | Input speed *Velocità in entrata*

X22L **50 Nm**

BVL series
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Riduttori a coppia conica schermati in acciaio inox

The dynamic efficienty is **0.96** for all ratios — **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 - -	B5 motor flanges - -	B14 motor flanges -P 63	B14 motor flanges -Q 71		Output shaft	Ratio code
290	**4.83**	0.37	12	2.6	0.95	30			C		289		01
189	**7.40**	0.37	18	1.7	0.62	30			C		287		02
146	**9.58**	0.37	23	1.7	0.64	40			C		199		03
128	**10.98**	0.37	27	1.7	0.63	45			C		179		04
107	**13.07**	0.37	32	1.4	0.53	45			C		159	**Standard ø20**	05
95	**14.66**	0.37	35	1.3	0.47	45			C		197		06
89	**15.79**	0.37	38	1.2	0.44	45			C		139		07
83	**16.81**	0.37	41	1.1	0.41	45			C		177		08
70	**20.00**	0.37	48	1.0	0.37	48			C		157		09
...	...	...	...	...	...	...			...		...		...

B Output speed *Velocità in uscita* | Motor power *Potenza motore* | Service factor *Fattore di servizio* | **A** Nominal torque *Momento torcente nominale* | Output shaft diam. *Diametro albero uscita* | Notes *Note*

Type of load and starts per hour
Tipo di carico e avviamenti per ora

			Oper. hours per day *Ore di funz. giorn.* 3h	10h	24h
Continuous or intermittent application with start / hour *Applicazione continua o intermittente con numero operazioni/ora*	≤ 10	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 numero operazioni/ora*	> 10	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*

B) Mounting with reduction bushing *Montaggio con boccola di riduzione*

C) Motor flange holes position/terminal box position *Posizione fori flangia/basetta motore*

B) Available without reduction bushing *Disponibile anche senza boccola*

X22L

50 Nm

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Output speed n_2 [min^{-1}]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges - - - -	B14 motor flanges -P 63	B14 motor flanges -Q 71		Output shaft	Ratio code
290	**4.83**	0.37	12	2.6	0.95	30		C		289		01
189	**7.40**	0.37	18	1.7	0.62	30		C		287		02
146	**9.58**	0.37	23	1.7	0.64	40		C		199		03
128	**10.98**	0.37	27	1.7	0.63	45		C		179		04
107	**13.07**	0.37	32	1.4	0.53	45		C		159		05
95	**14.66**	0.37	35	1.3	0.47	45		C		197		06
89	**15.79**	0.37	38	1.2	0.44	45		C		139		07
83	**16.81**	0.37	41	1.1	0.41	45		C		177	**Standard ø20**	08
70	**20.00**	0.37	48	1.0	0.37	48		C		157		09
64	**21.93**	0.37	53	0.9	0.35	50		C		109		10
58	**24.18**	0.25	39	1.3	0.32	50		C		137		11
48.2	**29.04**	0.25	47	1.1	0.26	50		C		99		12
41.7	**33.57**	0.18	42	1.2	0.23	50		C		107		13
36.2	**38.67**	0.18	48	1.0	0.20	50		C		79		14
31.5	**44.44**	0.18	55	0.9	0.17	50		C		97		15
23.7	**59.18**	0.12	48	1.0	0.13	50		C		77		16
19.9	**70.24**	0.12	57	0.9	0.11	50		C		67		17

Motor flanges available *Flange motore disponibili*

B) **Supplied with reduction bushing** *Fornito con bussola di riduzione*

B) **Available on request without reduction bushing** *Disponibile a richiesta senza bussola di riduzione*

C) **Motor flange holes position** *Posizione fori flangia motore*

Lubrication
Lubrificazione

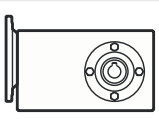
Always specify the mounting position
Specificare sempre la posizione di montaggio

Unit X22L is supplied with synthetic oil to assure long life lubrication.
Food grade oil is available on request.
See Table 1 for lubrication and recommended quantity.
See Table 2 for possible radial and axial loads on the gearbox.

Il riduttore tipo X22L viene fornito con olio sintetico e lubrificazione tipo "long life".
Disponibile a richiesta olio alimentare.
Vedi Tabella 1 per oli e quantità consigliati.
Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

Agip *Telium VSF 320* — **Shell** *Omala S4 WE 320*

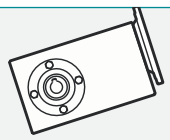
B3 *Standard* 0.25 LT



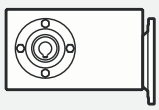
B6 *On request* 0.25 LT

B7 *On request* 0.25 LT

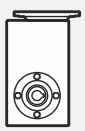
V8 *On request* ASK



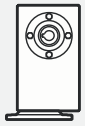
B8 *On request* 0.25 LT



V5 *On request* 0.43 LT



V6 *On request* 0.31 LT



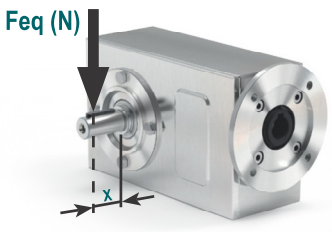
Tab. 1

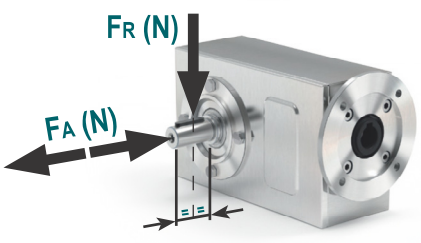
Radial and axial loads
Carichi radiali e assiali

Output shaft
Albero di uscita

n_2 [min^{-1}]	F_A [N]	F_R [N]
400	360	1800
250	380	1900
150	420	2100
100	440	2200
75	440	2200
50	440	2200
25	440	2200
15	440	2200

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



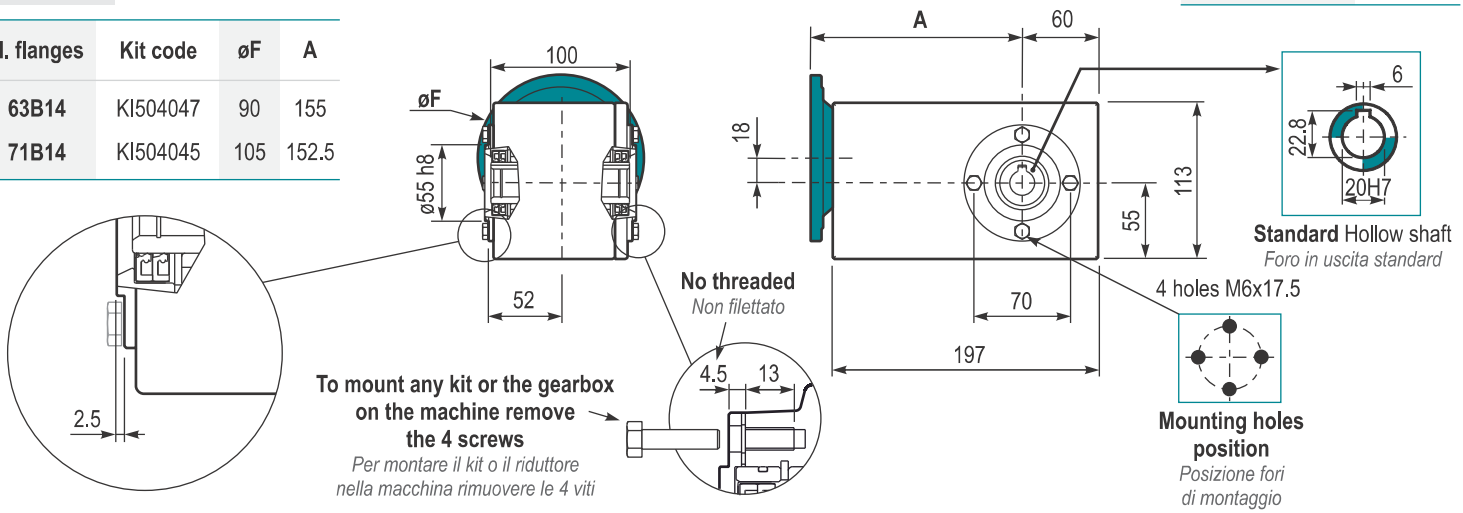


Tab. 2

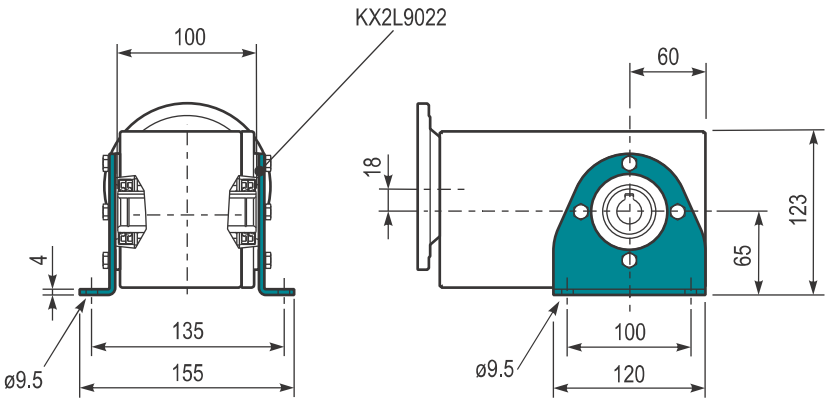
PX22L... Basic gearbox
Riduttore base

Gearbox weight *Peso riduttore* **7.0 kg**

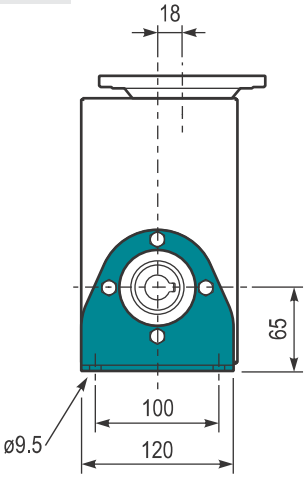
M. flanges	Kit code	øF	A
63B14	KI504047	90	155
71B14	KI504045	105	152.5



PX22LPA.. Feet
Piedini

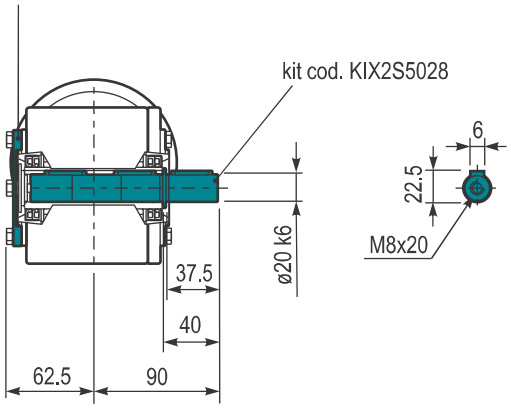


PX22LPV.. Feet
Piedini

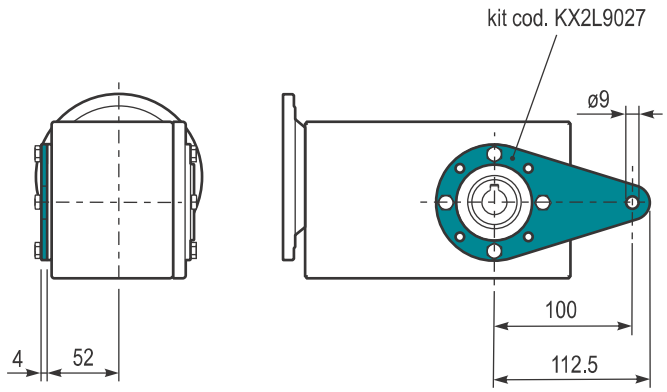


PX22L..A.. Single output shaft
Albero semplice in uscita

cod. X2L0209
Protection cap (on request)
A richiesta coperchio di protezione



PX22LBR.. Reaction Arm
Braccio di reazione



X32L

90 Nm

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Riduttori a coppia conica schermati in acciaio inox

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Output speed n_2 [min^{-1}]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges - - / - -	B14 motor flanges -Q 71	-R 80	-T 90		Output shaft ø	Ratio code
191	**7.33**	1.5	72	1.0	1.5	70		C	C		289		01
125	**11.22**	1.1	80	1.1	1.2	85		C	C		287		02
106	**13.26**	1.1	95	0.9	0.98	85		C	C		199		03
91	**15.37**	1.1	110	0.8	0.89	90		C	C		179		04
78	**18.04**	0.75	89	1.0	0.76	90		C	C		159		05
69	**20.30**	0.75	100	0.9	0.68	90		C	C		197		06
65	**21.54**	0.75	106	0.9	0.64	90		C	C		139		07
59	**23.53**	0.55	85	1.1	0.58	90		C	C		177	**Standard**	08
51	**27.62**	0.55	100	0.9	0.50	90		C	C		157	**ø20**	09
47.6	**29.40**	0.55	106	0.8	0.47	90		C	C		109		10
42.5	**32.97**	0.37	80	1.1	0.42	90		C	C		137		11
36.5	**38.37**	0.37	93	1.0	0.36	90		C	C		99		12
31.1	**45.00**	0.25	73	1.2	0.31	90		C	C		107		13
27.6	**50.67**	0.25	83	1.1	0.27	90		C	C		79		14
23.8	**58.73**	0.25	96	0.9	0.23	90		C	C		97		15
18.1	**77.55**	0.25*	127	0.7	0.18	90		C	C		77		16

*** Power higher than the maximun 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*

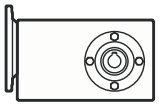
Lubrication
Lubrificazione

Always specify the mounting position
Specificare sempre la posizione di montaggio

Unit X32L is supplied with synthetic oil to assure long life lubrication.
Food grade oil is available on request.
See Table 1 for lubrication and recommended quantity.
See Table 2 for possible radial and axial loads on the gearbox.
Il riduttore tipo X32L viene fornito con olio sintetico e lubrificazione tipo "long life".
Disponibile a richiesta olio alimentare.
Vedi Tabella 1 per oli e quantità consigliati.
Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

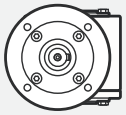
Agip *Telium VSF 320* — **Shell** *Omala S4 WE 320*

B3 *Standard* 0.40 LT

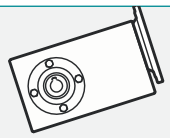


B6 *On request* 0.60 LT

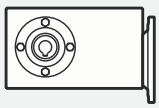
B7 *On request* 0.40 LT



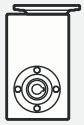
V8 *On request* ASK



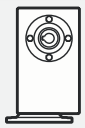
B8 *On request* 0.60 LT



V5 *On request* 0.85 LT



V6 *On request* 0.60 LT



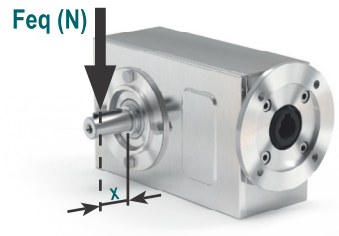
Tab. 1

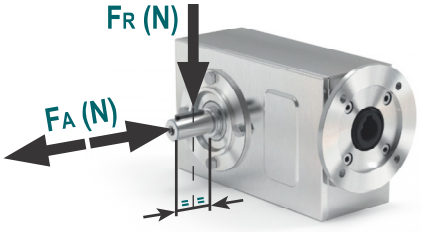
Radial and axial loads
Carichi radiali e assiali

Output shaft
Albero di uscita

n_2 [min^{-1}]	F_A [N]	F_R [N]
250	400	2000
150	450	2250
100	500	2500
75	560	2800
50	560	2800
25	560	2800
15	560	2800

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



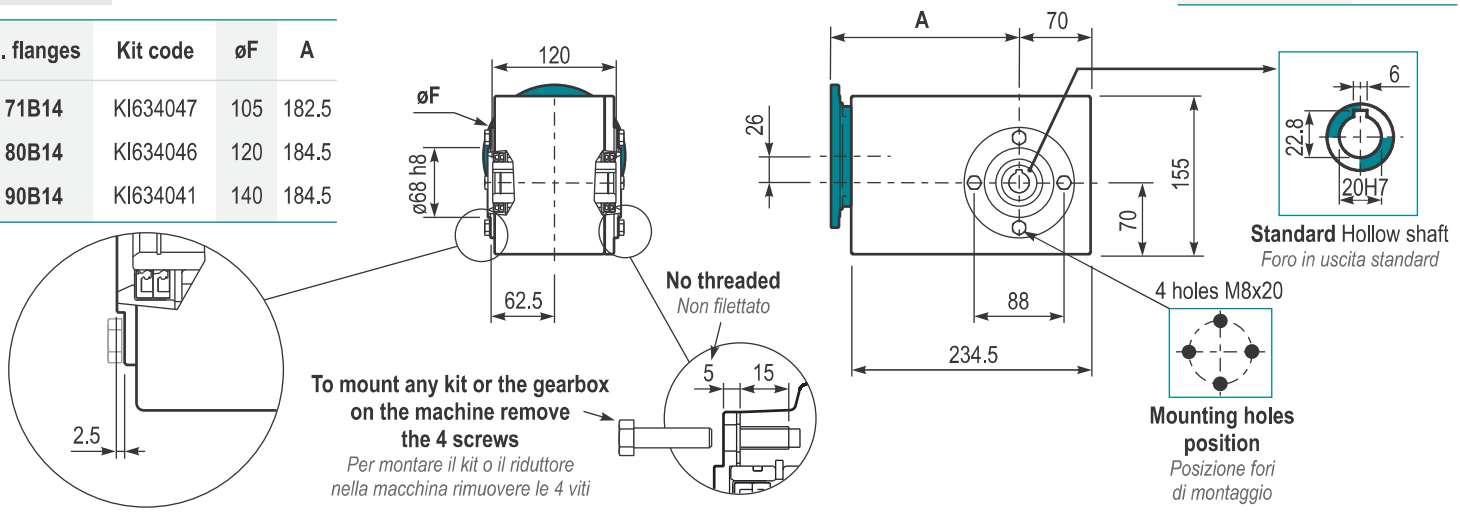


Tab. 2

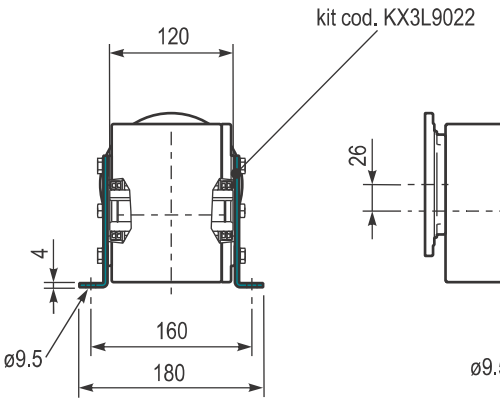
PX32L... Basic gearbox
Riduttore base

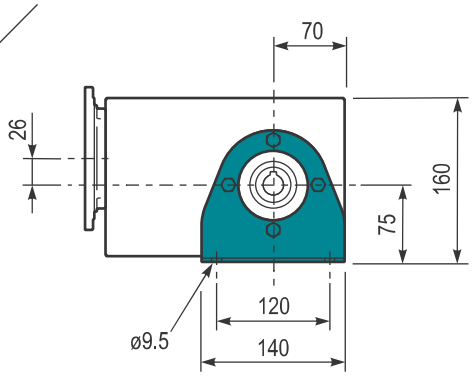
Gearbox weight *Peso riduttore* **12.0 kg**

M. flanges	Kit code	øF	A
71B14	KI634047	105	182.5
80B14	KI634046	120	184.5
90B14	KI634041	140	184.5

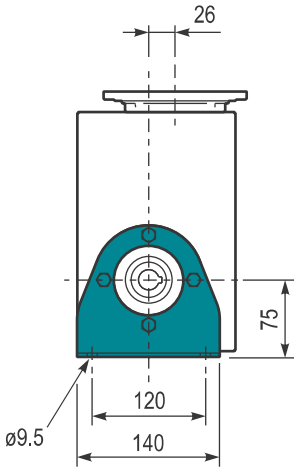


PX32LPA.. Feet
Piedini



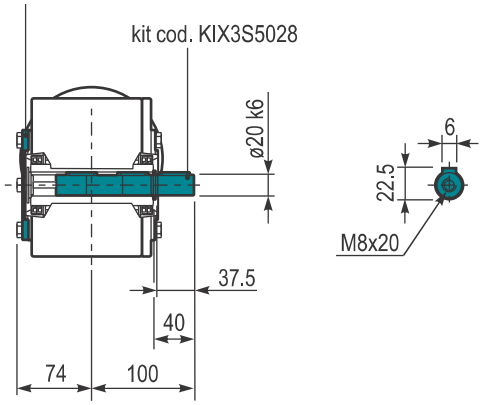


PX32LPV.. Feet
Piedini

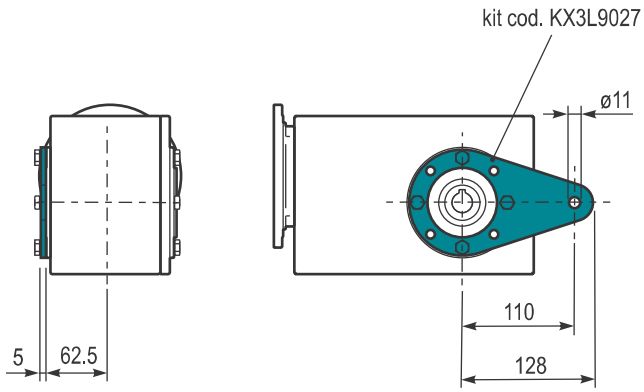


PX32L..A.. Single output shaft
Albero semplice in uscita

cod. X3L0209
Protection cap (on request)
A richiesta coperchio di protezione



PX32LBR.. Reaction Arm
Braccio di reazione



X42L

150 Nm

BVL series
Stainless steel shielded helical bevel gearboxes

Riduttori a coppia conica schermati in acciaio inox

The dynamic efficienty is **0.96** for all ratios — **Input speed (n_1) = 1400 min^{-1}**

Output speed	Ratio	Motor power	Output torque	Service factor	Nominal power	Nominal torque	B5 motor flanges		B14 motor flanges				Output shaft	Ratio code
							-	-	-Q	-R	-T			
							-	-	71	80	90			
n_2 [min^{-1}]	i	P_{1M} [kW]	M_{2M} [Nm]	f.s	P_{1R} [kW]	M_{2R} [Nm]								
192	**7.29**	1.5	71	1.3	2.0	95			C	C		2811		01
125	**11.20**	1.5	110	1.4	2.0	150			C	C		288		02
106	**13.18**	1.5	129	1.2	1.7	150			C	C		1911		03
92	**15.27**	1.1	109	1.4	1.5	150			C	C		1711		04
78	**17.93**	1.1	128	1.2	1.3	150			C	C		1511		05
69	**20.25**	1.1	145	1.0	1.1	150			C	C		198		06
65	**21.40**	1.1	153	1.0	1.1	150			C	C		1311		07
60	**23.47**	0.75	115	1.3	0.98	150			C	C		178	**Standard ø25**	08
51	**27.55**	0.75	135	1.1	0.83	150			C	C		158		09
47.9	**29.21**	0.75	143	1.0	0.78	150			C	C		1011		10
42.6	**32.88**	0.75	161	0.9	0.70	150			C	C		138		11
36.7	**38.12**	0.55	138	1.1	0.60	150			C	C		911		12
31.2	**44.89**	0.55	163	0.9	0.51	150			C	C		108		13
27.8	**50.34**	0.37	122	1.1	0.40	131			C	C		711		14
23.9	**58.58**	0.37	142	1.1	0.39	150			C	C		98		15
18.1	**77.36**	0.25	126	1.2	0.30	150			C	C		78		16

Motor flanges available
Flange motore disponibili

B) **Supplied with reduction bushing**
Fornito con bussola di riduzione

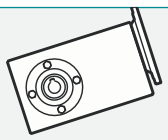
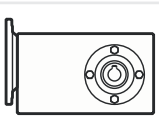
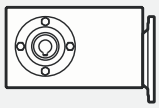
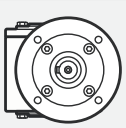
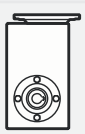
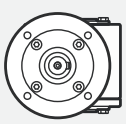
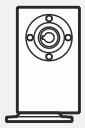
B) **Available on request without reduction bushing**
Disponibile a richiesta senza bussola di riduzione

C) **Motor flange holes position**
Posizione fori flangia motore

Lubrication
Lubrificazione

Always specify the mounting position
Specificare sempre la posizione di montaggio

Unit X42L is supplied with synthetic oil to assure long life lubrication.
Food grade oil is available on request.
See Table 1 for lubrication and recommended quantity.
See Table 2 for possible radial and axial loads on the gearbox.
Il riduttore tipo X42L viene fornito con olio sintetico e lubrificazione tipo "long life".
Disponibile a richiesta olio alimentare.
Vedi Tabella 1 per oli e quantità consigliati.
Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

Agip *Telium VSF 320* / **Shell** *Omala S4 WE 320*		**V8** *On request* ASK	
B3 *Standard* 0.60 LT		**B8** *On request* 0.70 LT	
B6 *On request* 0.75 LT		**V5** *On request* 1.10 LT	
B7 *On request* 0.50 LT		**V6** *On request* 0.60 LT	

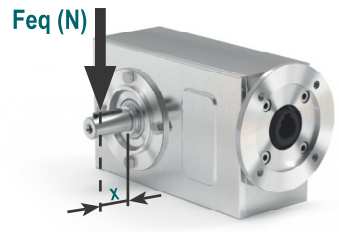
Tab. 1

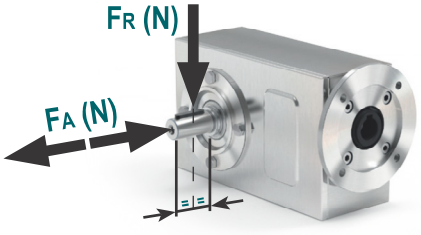
Radial and axial loads
Carichi radiali e assiali

Output shaft
Albero di uscita

n_2 [min^{-1}]	F_A [N]	F_R [N]
250	500	2500
150	600	3000
100	700	3500
75	800	4000
50	960	4800
25	960	4800
15	960	4800

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



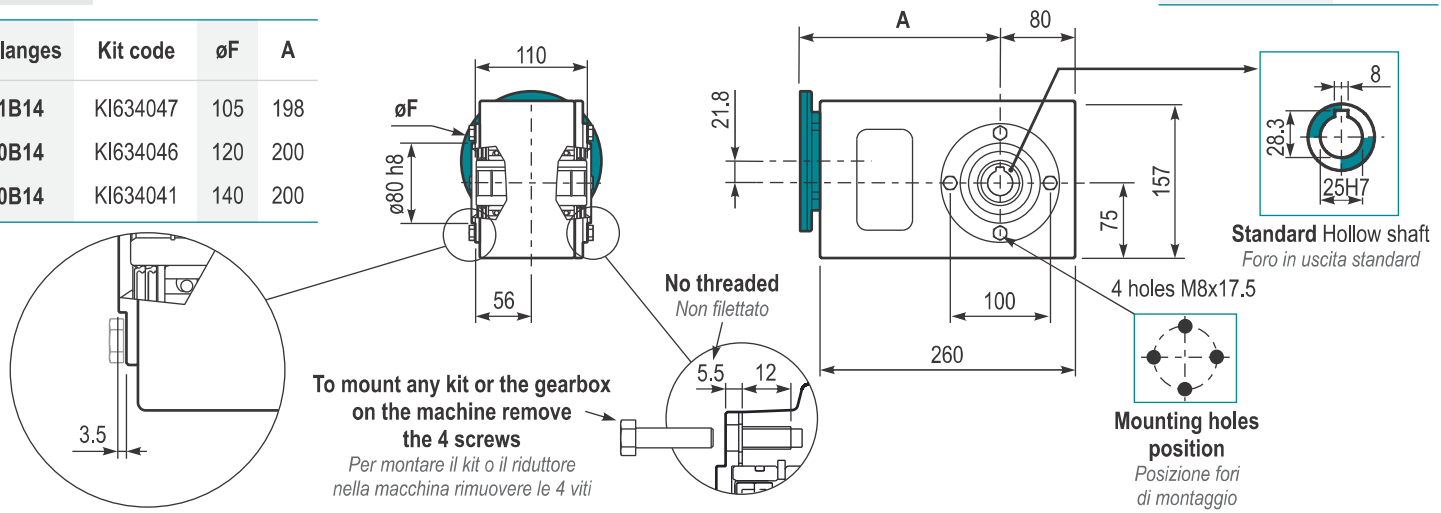


Tab. 2

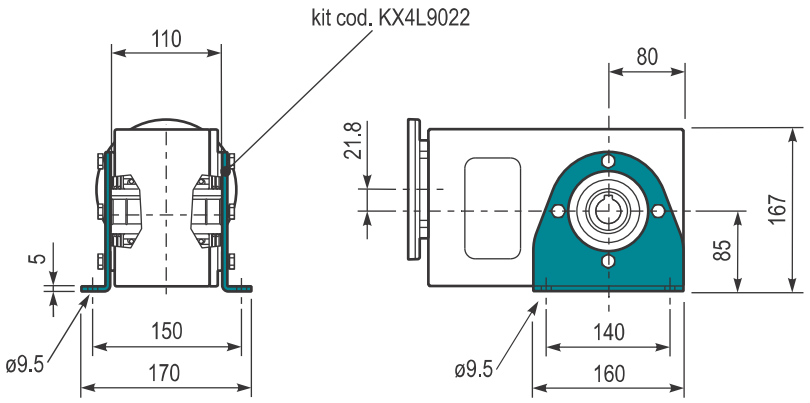
PX42L... Basic gearbox
Riduttore base

Gearbox weight *Peso riduttore* **10.5 kg**

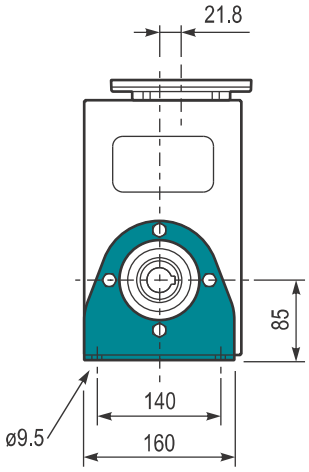
M. flanges	Kit code	øF	A
71B14	KI634047	105	198
80B14	KI634046	120	200
90B14	KI634041	140	200



PX42LPA.. Feet
Piedini

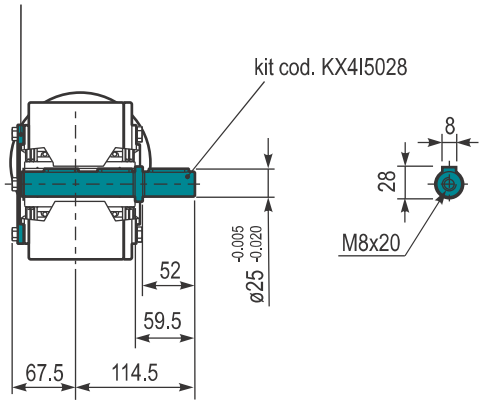


PX42LPV.. Feet
Piedini

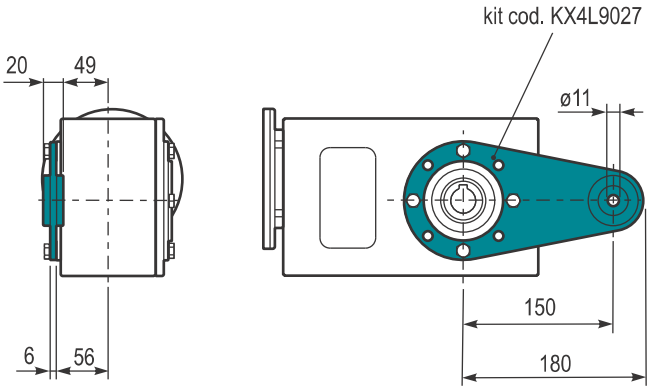


PX42L..A.. Single output shaft
Albero semplice in uscita

cod. X4L0209
Protection cap (on request)
A richiesta coperchio di protezione



PX42LBR.. Reaction Arm
Braccio di reazione



X52L

250 Nm

BVL series
Stainless steel shielded helical bevel gearboxes

Riduttori a coppia conica schermati in acciaio inox

The dynamic efficienty is **0.96** for all ratios — **Input speed (n_1) = 1400 min^{-1}**

Output speed n_2 [min^{-1}]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges - - - - - - - -	B14 motor flanges -R 80	B14 motor flanges -T 90	B14 motor flanges -U 100-112		Output shaft	Ratio code
232	**6.03**	3	116	1.2	3.4	135					3011		01
151	**9.26**	3	179	0.9	2.6	155					308		02
123	**11.36**	3	219	1.0	3.1	230					2011		03
91	**15.36**	2.2	218	1.1	2.5	250					1611		04
80	**17.46**	2.2	248	1.0	2.2	250					208		05
70	**19.97**	2.2	284	0.9	1.9	250					1311		06
59	**23.60**	1.5	231	1.1	1.6	250					168	**Standard ø30**	07
57	**24.45**	1.5	239	1.0	1.6	250					1111		08
45.6	**30.69**	1.1	220	1.1	1.2	250					138		09
39.6	**35.35**	1.1	253	1.0	1.1	250					811		10
37.3	**37.57**	1.1	269	0.9	1.0	250					118		11
28.8	**48.68**	0.75	239	1.0	0.78	250					611		12
25.8	**54.33**	0.75	267	0.9	0.70	250					88		13
18.7	**74.81**	0.55	271	0.8	0.43	210					68		14

Motor flanges available *Flange motore disponibili*

B) **Supplied with reduction bushing** *Fornito con Bussola di Riduzione*

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

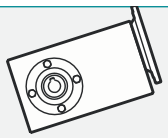
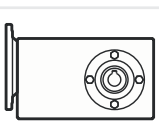
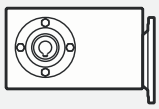
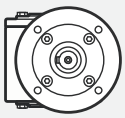
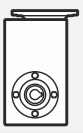
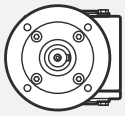
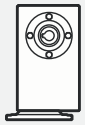
C) **Motor flange holes position** *Posizione Fori Flangia Motore*

Lubrication
Lubrificazione

Always specify the mounting position
Specificare sempre la posizione di montaggio

Unit X52L is supplied with synthetic oil to assure long life lubrication.
Food grade oil is available on request.
See Table 1 for lubrication and recommended quantity.
See Table 2 for possible radial and axial loads on the gearbox.

Il riduttore tipo X52L viene fornito con olio sintetico e lubrificazione tipo "long life".
Disponibile a richiesta olio alimentare.
Vedi Tabella 1 per oli e quantità consigliati.
Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

Agip *Telium VSF 320* / **Shell** *Omala S4 WE 320*		**V8** *On request* ASK	
B3 *Standard* 0.90 LT		**B8** *On request* 1.40 LT	
B6 *On request* 1.50 LT		**V5** *On request* 1.95 LT	
B7 *On request* 0.75 LT		**V6** *On request* 1.15 LT	

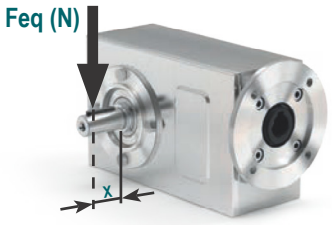
Tab. 1

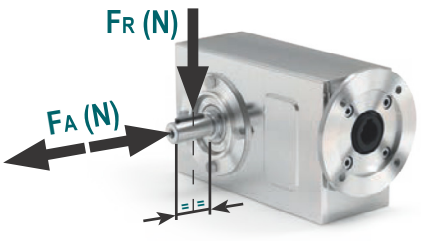
Radial and axial loads
Carichi radiali e assiali

Output shaft
Albero di uscita

n_2 [min^{-1}]	F_A [N]	F_R [N]
250	600	3000
150	700	3500
100	800	4000
75	820	4100
50	960	4800
25	1350	6750
15	1660	8300

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



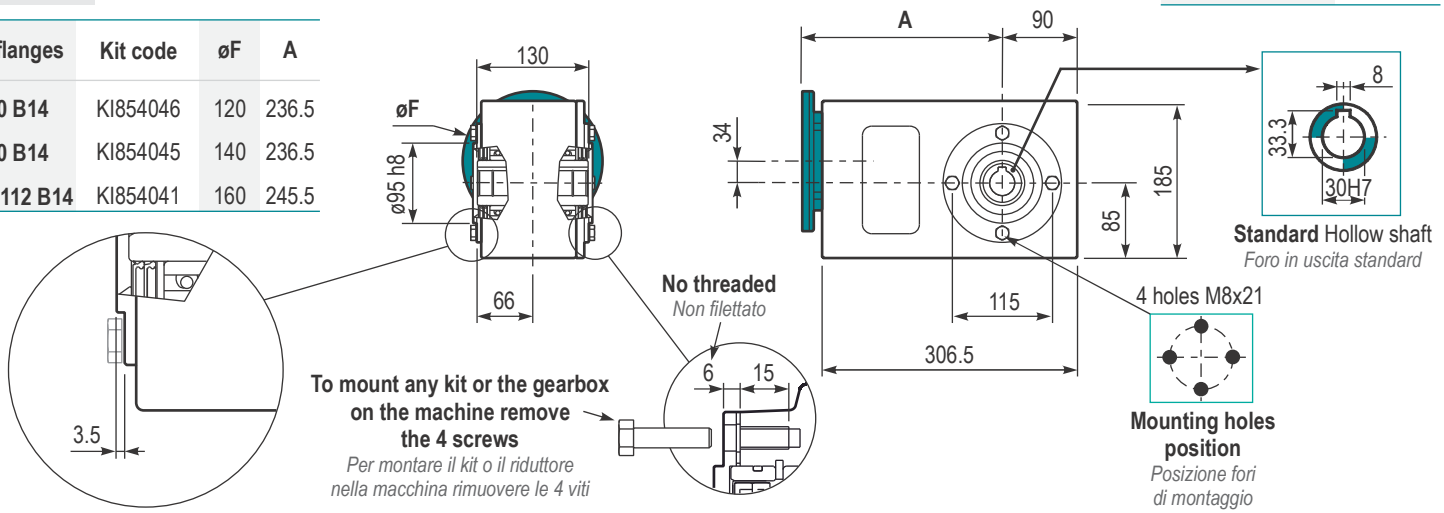


Tab. 2

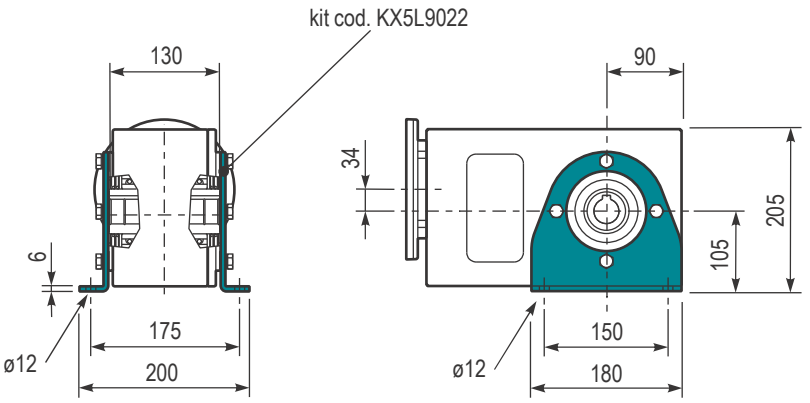
PX52L... Basic gearbox
Riduttore base

Gearbox weight *Peso riduttore* **15.8 kg**

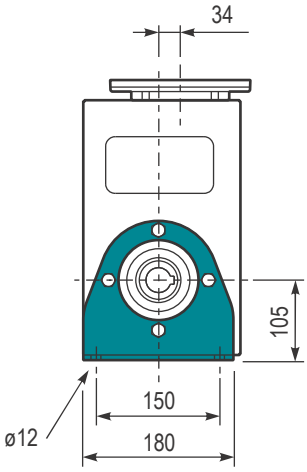
M. flanges	Kit code	øF	A
80 B14	KI854046	120	236.5
90 B14	KI854045	140	236.5
100-112 B14	KI854041	160	245.5



PX52LPA.. Feet
Piedini

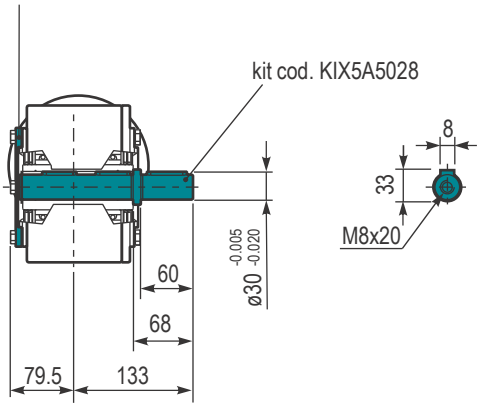


PX52LPV.. Feet
Piedini

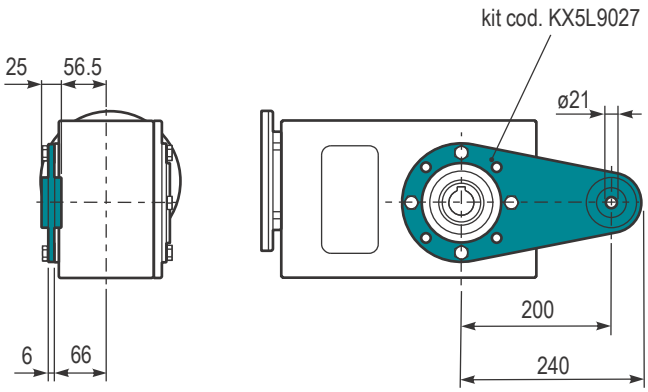


PX52L..A.. Single output shaft
Albero semplice in uscita

cod. X5L0209
Protection cap (on request)
A richiesta coperchio di protezione



PX52LBR.. Reaction Arm
Braccio di reazione



X62L

410 Nm

BVL series
Stainless steel shielded helical bevel gearboxes

Riduttori a coppia conica schermati in acciaio inox

The dynamic efficienty is **0.96** for all ratios — **Input speed (n_1) = 1400 min^{-1}**

Output speed n_2 [min^{-1}]	Ratio i	Motor power P_{1M} [kW]	Output torque M_{2M} [Nm]	Service factor f.s	Nominal power P_{1R} [kW]	Nominal torque M_{2R} [Nm]	B5 motor flanges - - - - - - - -	B14 motor flanges -R 80	B14 motor flanges -T 90	B14 motor flanges -U 100-112		Output shaft	Ratio code
232	**6.03**	4	155	1.6	6.1	240					3011		01
151	**9.26**	4	238	1.1	4.5	270					308		02
123	**11.36**	4	291	1.2	4.7	350					2011		03
91	**15.36**	4	394	1.0	3.8	385					1611		04
80	**17.46**	4	448	0.9	3.5	400					208		05
70	**19.97**	3	386	1.1	3.1	410					1311		06
59	**23.60**	3	456	0.9	2.7	410					168	**Standard ø35**	07
57	**24.45**	3	472	0.9	2.6	410					1111		08
45.6	**30.69**	2.2	436	0.9	2.0	410					138		09
39.6	**35.35**	1.5	346	1.2	1.8	410					811		10
37.3	**37.57**	1.5	368	1.1	1.7	410					118		11
28.8	**48.68**	1.1	348	1.0	1.1	365					611		12
25.8	**54.33**	1.1	389	1.1	1.2	410					88		13
18.7	**74.81**	0.75	367	1.0	0.73	360					68		14

Motor flanges available
Flange motore disponibili

B) **Supplied with reduction bushing**
Fornito con Bussola di Riduzione

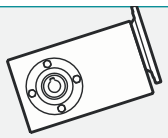
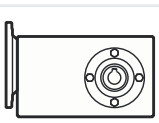
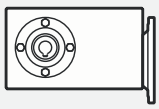
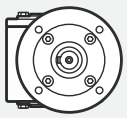
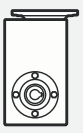
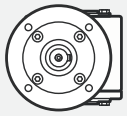
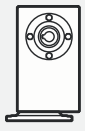
B) **Available on request without reduction bushing**
Disponibile a Richiesta senza Bussola di Riduzione

C) **Motor flange holes position**
Posizione Fori Flangia Motore

Lubrication
Lubrificazione

Always specify the mounting position
Specificare sempre la posizione di montaggio

Unit X62L is supplied with synthetic oil to assure long life lubrication.
Food grade oil is available on request.
See Table 1 for lubrication and recommended quantity.
See Table 2 for possible radial and axial loads on the gearbox.
Il riduttore tipo X62L viene fornito con olio sintetico e lubrificazione tipo "long life".
Disponibile a richiesta olio alimentare.
Vedi Tabella 1 per oli e quantità consigliati.
Vedi Tabella 2 per i carichi radiali e assiali applicabili al riduttore.

Agip *Telium VSF 320*	**Shell** *Omala S4 WE 320*	**V8** *On request* ASK	
B3 *Standard* 1.25 LT		**B8** *On request* 1.60 LT	
B6 *On request* 1.70 LT		**V5** *On request* 2.45 LT	
B7 *On request* 0.95 LT		**V6** *On request* 1.50 LT	

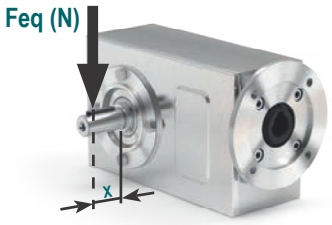
Tab. 1

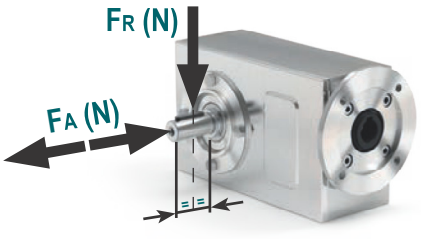
Radial and axial loads
Carichi radiali e assiali

Output shaft
Albero di uscita

n_2 [min^{-1}]	F_A [N]	F_R [N]
250	600	3000
150	700	3500
100	780	3900
75	890	4450
50	1140	5700
25	1330	6650
15	1660	8300

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



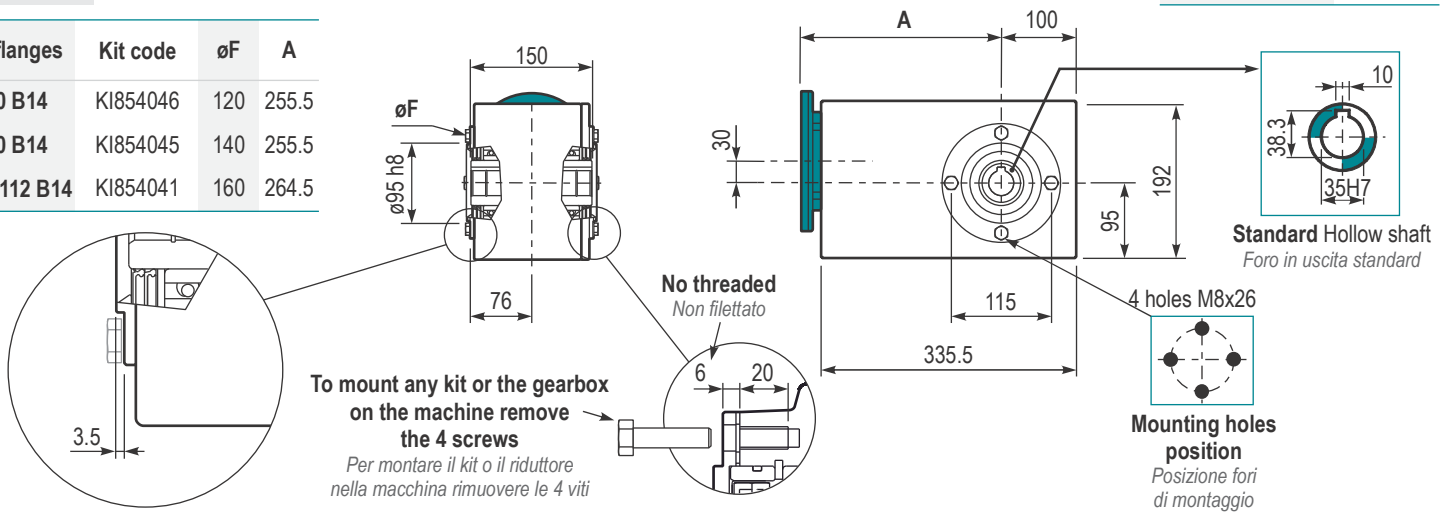


Tab. 2

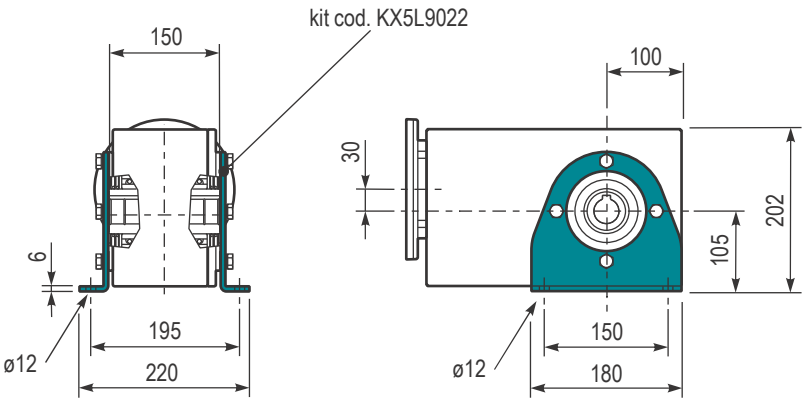
PX62L... Basic gearbox
Riduttore base

Gearbox weight *Peso riduttore* **19.5 kg**

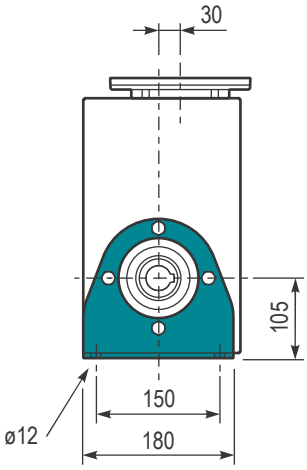
M. flanges	Kit code	øF	A
80 B14	KI854046	120	255.5
90 B14	KI854045	140	255.5
100-112 B14	KI854041	160	264.5



PX62LPA.. Feet
Piedini

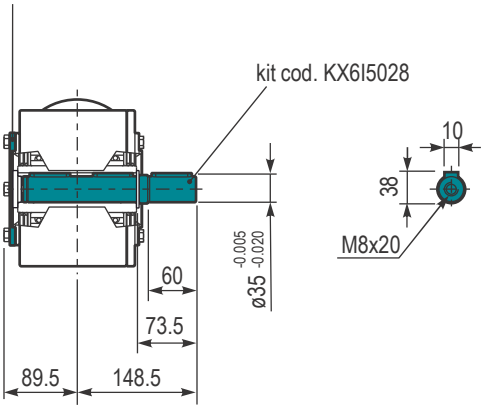


PX62LPV.. Feet
Piedini



PX62L..A.. Single output shaft
Albero semplice in uscita

cod. X5L0209
Protection cap (on request)
A richiesta coperchio di protezione



PX62LBR.. Reaction Arm
Braccio di reazione