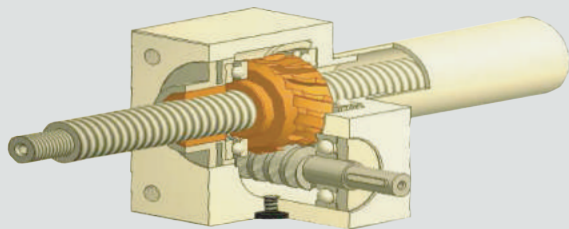


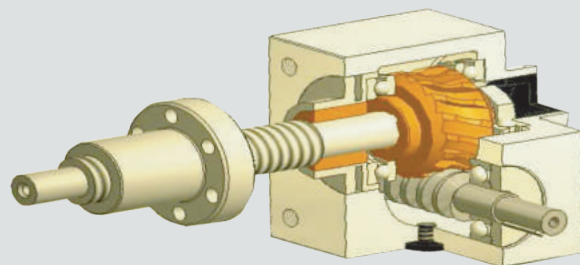


I NOSTRI MARTINETTI 
OUR WORM GEAR JACKS 





MARTINETTO A VITE SENZA FINE
(con o senza Flangia)



WORM GEAR JACK
(Worm gear jack with or without flange)

Come tutte le produzioni della ditta CARINI INDUSTRIA, anche i martinetti rispettano elevati standard qualitativi e grazie a materiali certificati e severi collaudi garantiscono la massima efficienza e durata nel tempo.

Like all CARINI INDUSTRIA productions, also jacks respect high quality standards and thanks to certified materials and strict tests, they guarantee best efficiency and long lasting in time.

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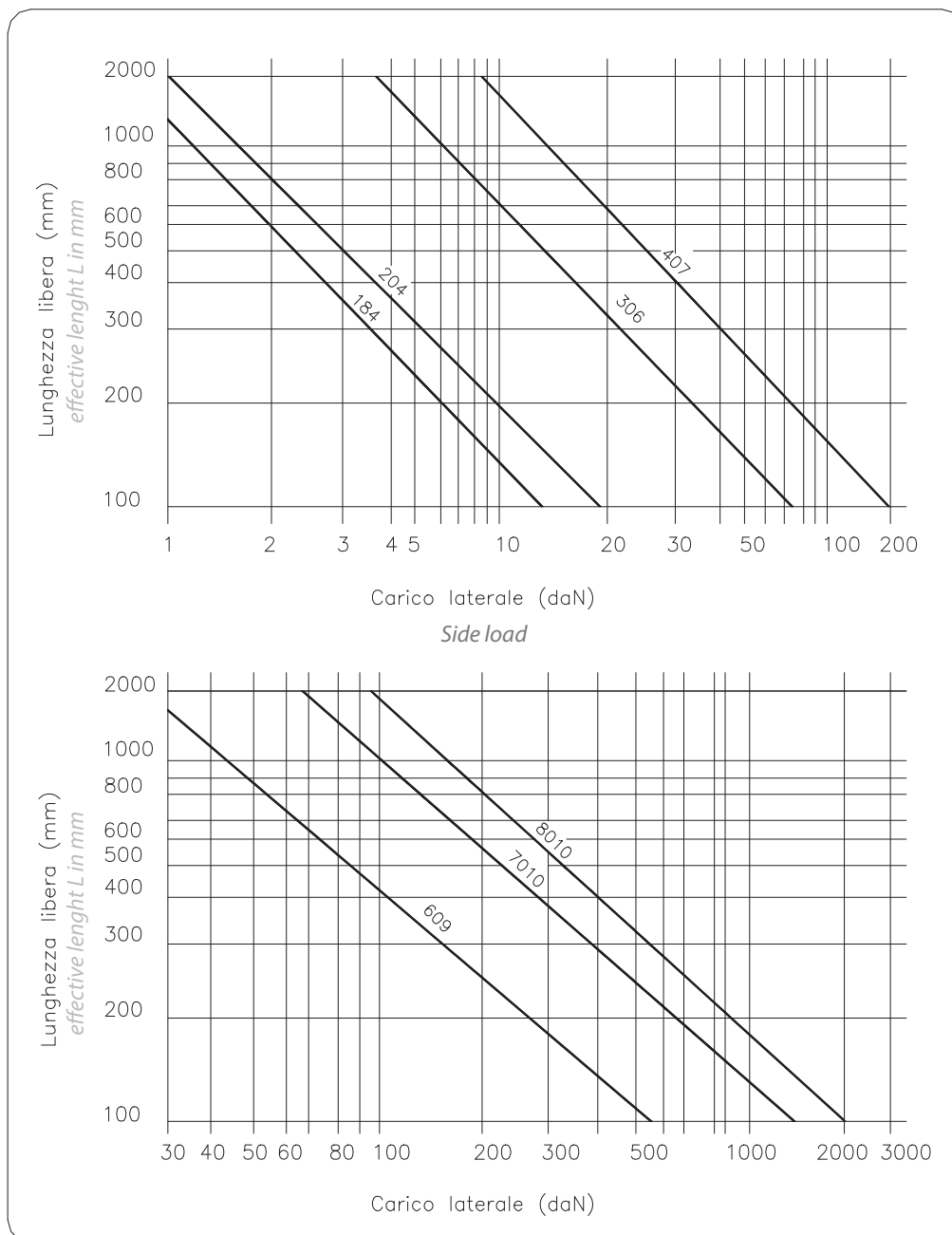
Jack HGO series "VF" type p. 7

Jack HGO series "VBM" type p. 8

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Max. Carico laterale consentito

Maximum side load allowed



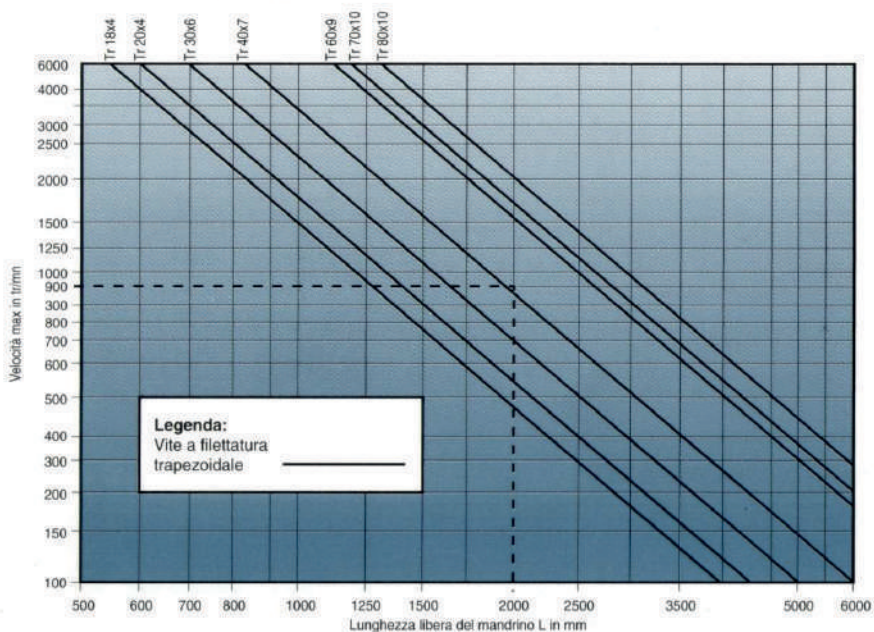
Massimo carico laterale consentito

Nel corretto funzionamento dei martinetti, la presenza di carichi laterali è dannosa. Nelle tabelle sopra riportate sono indicati i massimi carichi laterali sopportabili dai martinetti, in funzione della lunghezza libera dell'asta filettata.

Maximum side load allowed

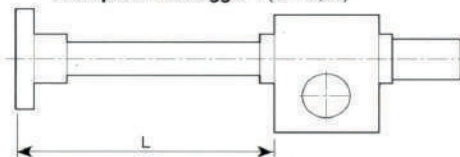
Side loads are dangerous for the correct operation of jacks. Maximum side loads our jacks can bear are indicated in the charts above, giving threaded screw's effective length.

VELOCITÀ CRITICA

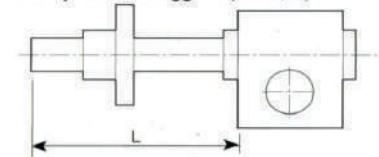


- **Velocità ammessa del mandrino** = Velocità massima x coefficiente di utilizzo (fk) x 0,8.
- **Esempio:** Martinetto a vite con Tr 40x7 e lunghezza libera del mandrino L=2000 mm (corsa + ghiera + sconfinamento)
Velocità massima = 900 tr/mn.
- **Esempio di montaggio 1 e 2:** Velocità ammessa = Velocità massima x 0,36 x 0,8 = 259 tr/mn.
- **Esempio di montaggio 3:** Velocità ammessa = Velocità massima x 1,47 x 0,8 = 1058 tr/mn.
- **Esempio di montaggio 4:** Velocità ammessa = Velocità massima x 2,23 x 0,8 = 1600 tr/mn.

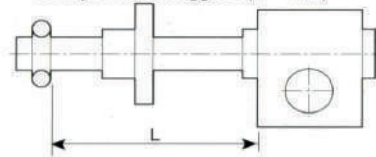
Esempio di montaggio 1 (fk = 0,36)



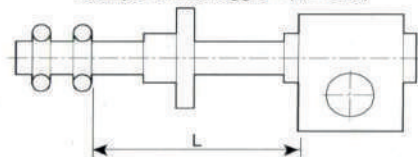
Esempio di montaggio 2 (fk = 0,36)



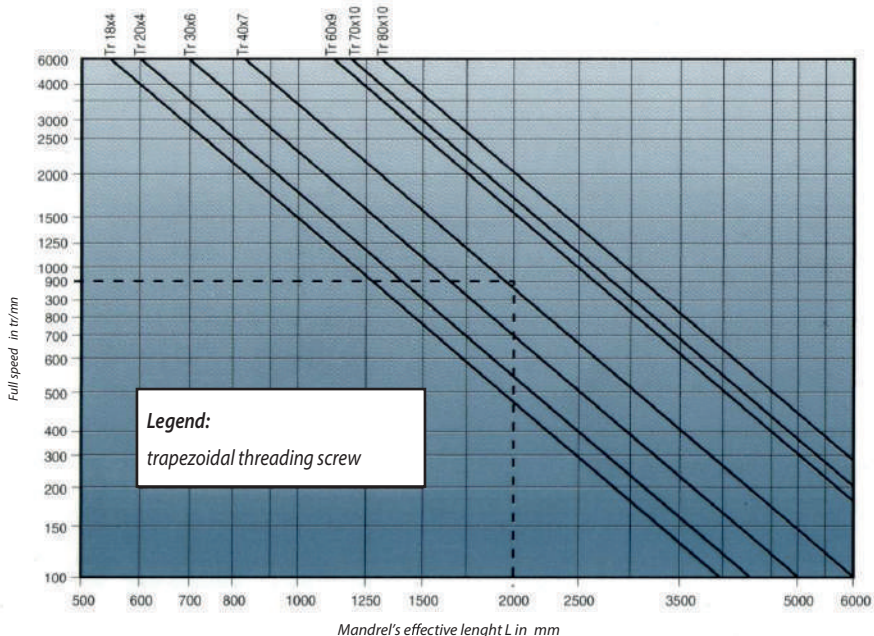
Esempio di montaggio 3 (fk = 1,47)



Esempio di montaggio 4 (fk = 2,23)

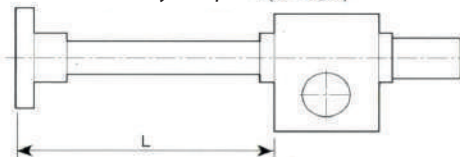


CRITICAL VELOCITY

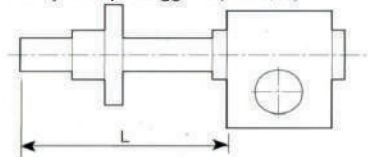


- **Mandrel's tolerated speed** = full speed x application coefficient
- **Example:** Tr 40x7 screw jack and mandrel's effective length L= 2000 mm (stroke + ferrule + trespassing)
Maximum speed= 900 tr/mn
- **Assembly examples 1 and 2:** tolerated speed = Maximum speed x 0,36 x 0,8 = 259 tr/mn
- **Assembly examples 3:** tolerated speed = Maximum speed x 1,47 x 0,8 = 1058 tr/mn
- **Assembly examples 4:** tolerated speed = Maximum speed x 2,23 x 0,8 = 1600 tr/mn

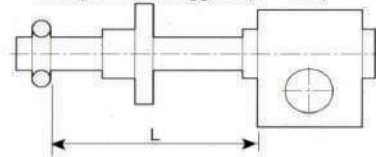
Assembly examples 1 (fk = 0,36)



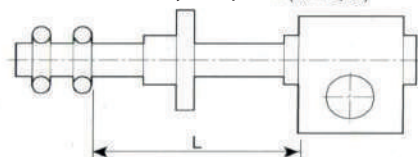
Assembly examples 2 (fk = 0,36)



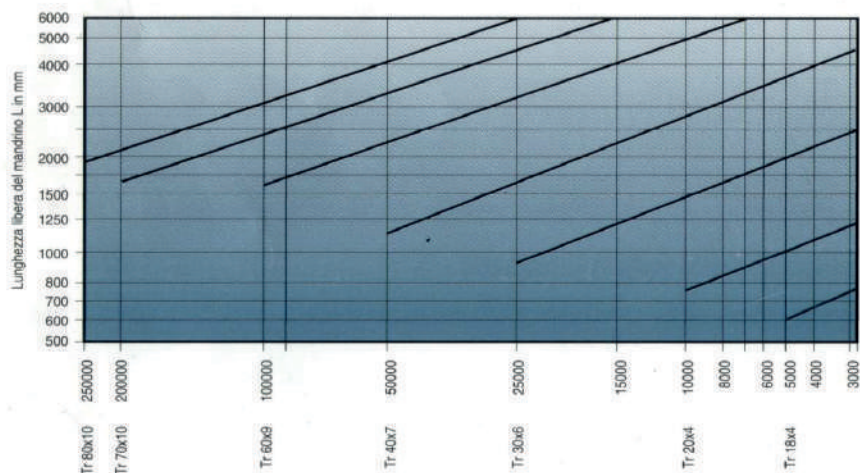
Assembly examples 3 (fk = 1,47)



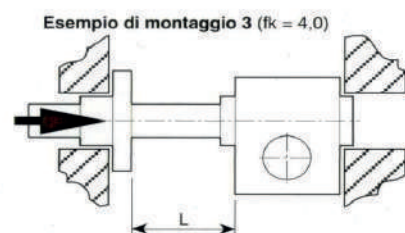
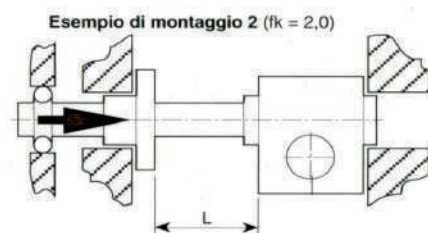
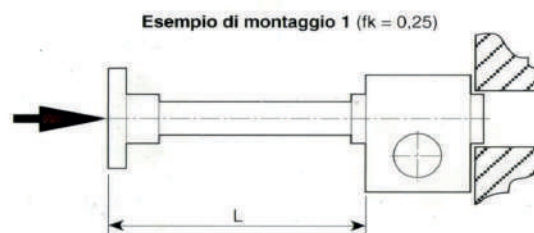
Assembly examples 4 (fk = 2,23)



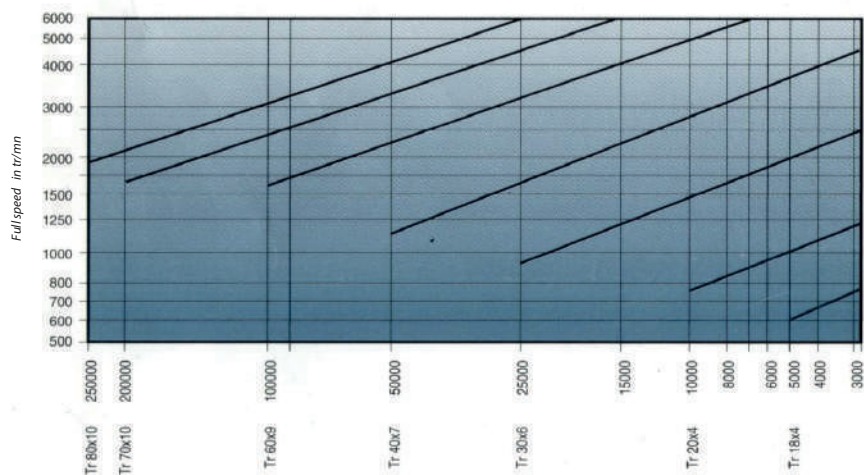
FLESSIONE



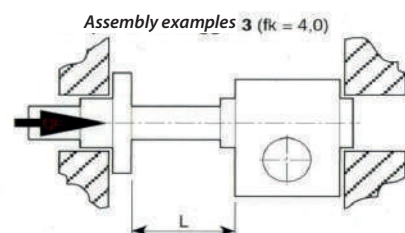
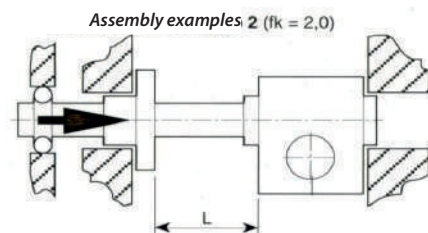
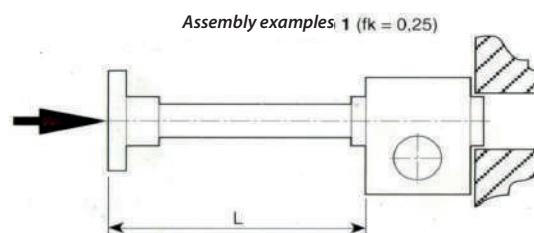
- **Potenza di flessione ammessa** = Potenza massima x coefficiente di utilizzo (fk) x 0,8.
 - **Esempio:** Martinetto a vite con Tr 40x7 e lunghezza del mandrino L=2000 mm (corsa + ghiera + sconfinamento) Potenza massima = 15000 N.
 - **Esempio di montaggio 1:** Potenza ammessa = 15000 x 0,25 x 0,8 = 3000 N.
 - **Esempio di montaggio 2:** Potenza ammessa = 15000 x 2 x 0,8 = 24000 N.
 - **Esempio di montaggio 3:** Potenza ammessa = 15000 x 4 x 0,8 = 48000 N.
- ⇒ carico 40 x 7 = 50000 N.



BENDING STRENGTH



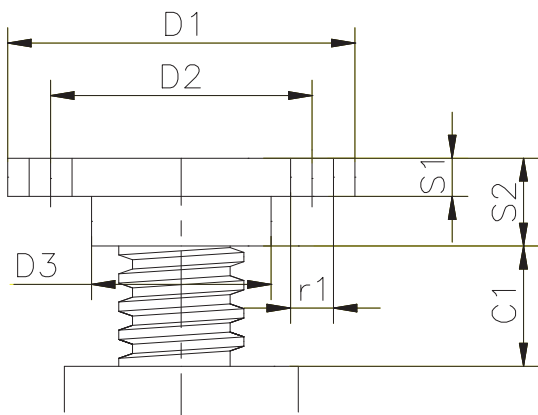
- **tolerated bending power** = max power x application coefficient
- **Example:** Tr 40x7 screw jack and mandrel's effective length L= 2000 mm (stroke + ferrule + trespassing) **Maximum power**= 15000 N
- **Assembly examples 1 :** tolerated power = 15000 x 0,25 x 0,8 = 3000 N.
- **Assembly examples 2:** tolerated power = 15000 x 2 x 0,8 = 24000 N.
- **Assembly examples 3:** tolerated power = 15000 x 4 x 0,8 = 48000 N.



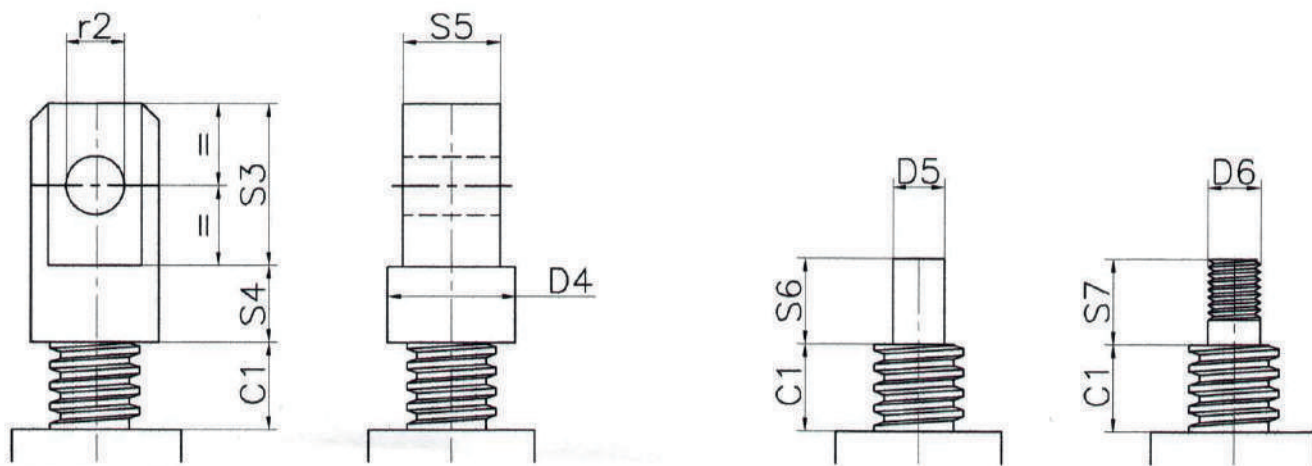
➔ Load 40 x 7=50000 N

Terminali

Terminal options



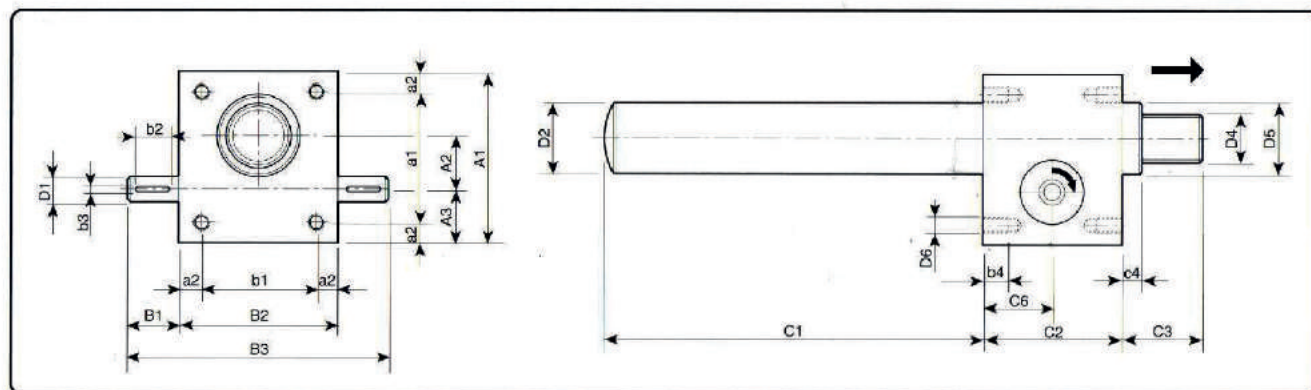
SERIE <i>Type</i>	D1	D2	D3	S1	S2	C1	n° x r1
HGO184	54	40	26	8	14	15	4x7
HGO204	79	60	39	8	21	15	4x11
HGO306	89	67	46	10	23	20	4x11
HGO407	109	85	60	15	30	25	4x13
HGO609	149	117	85	20	50	25	4x17
HGO7010	198	155	105	30	60	25	4x25
HGO8010	218	170	120	30	60	25	4x25



SERIE <i>Type</i>	D4	D5	D6	S3	S4	S5	S6	S7	r2
HGO184	-	-	12x1	-	-	-	-	20	-
HGO204	38	15	14x2	40	35	25	25	20	20
HGO306	48	20	20x2.5	50	45	30	30	30	25
HGO407	68	30	30x3.5	70	55	40	45	30	35
HGO609	88	40	36x4	100	80	60	60	48	50
HGO7010	108	55	56x5.5	120	90	75	80	58	60
HGO8010	118	65	64x6	130	95	80	85	58	65

Martinetto Serie HGO Tipo "VM"

jack HGO series "VM" type



Dimensioni comuni Standard dimensions

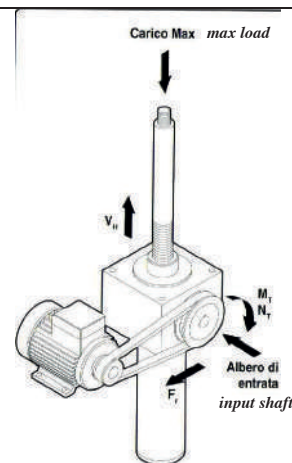
SERIE TYPE	A1	A2	A3	a1	a2	B1	B2	B3	b1	b2	b3 P9	b4
HGO184	80	25	24	60	10	24	72	120	52	18	3	13
HGO204	100	32	28	78	11	27.5	85	140	63	20	5	15
HGO306	155	50	45	131	12	40	126	206	102	30	6	-
HGO407	160	70	50	165	15	54.5	160	269	130	40	8	-
HGO609	211	70	63	175	18	50	170	270	134	40	8	40
HGO7010	280	90	75	230	25	60	230	350	180	50	8	45
HGO8010	280	90	75	230	25	60	230	350	180	50	8	45

Dimensioni Tipo "VM" Type "VM" dimensions

SERIE TYPE	C1	C2	C3	C4	C6	D1 h6	D2	D4	D5	D6
HGO184	20	62	35	12	31	10	33.5	Tr 18x4	29.6	M8
HGO204	30	75	45	18	37.5	14	42	Tr 20x4	38.7	M8
HGO306	60	90	45	25	45	20	65	Tr 30x6	60	-
HGO407	75	120	60	35	60	25	74	Tr 40x7	69	-
HGO609	80	150	65	40	75	25	95	Tr 60x9	90	M20
HGO7010	80	176	65	40	88	30	127	Tr 70x10	120	M30
HGO8010	80	176	65	40	88	30	127	Tr 80x10	120	M30

Forze e coppia agente sul martinetto Forces acting on the jack

Dimens.	Rapporto RATIO	VH (mm/1')	NT (Tr/min)	Carico Mx. daN	Pn Kw	Mt daNm	Fc daN
	H L	H L			H L		
HGO 184	1:4÷1:16	1500÷375	1500	500	0.3÷0.19	0.12	10
HGO204	1:4÷1:16	1500÷375	1500	1000	0.55÷0.35	0.21	20
HGO306	1:30	300	1500	2500	0.68	0.44	45
HGO407	1:30	350	1500	5000	1.69	1.10	60
HGO609	1:30	450	1500	10000	4.30	2.80	60
HGO7010	1:30	500	1500	20000	11.70	7.60	90
HGO8010	1:30	500	1500	25000	14.50	9.40	90



RAPPORTO • VITE^{SE}/ CORONA (per AGO184 e AGO204 i rapporti sono 1:4 H- 1:16 L)

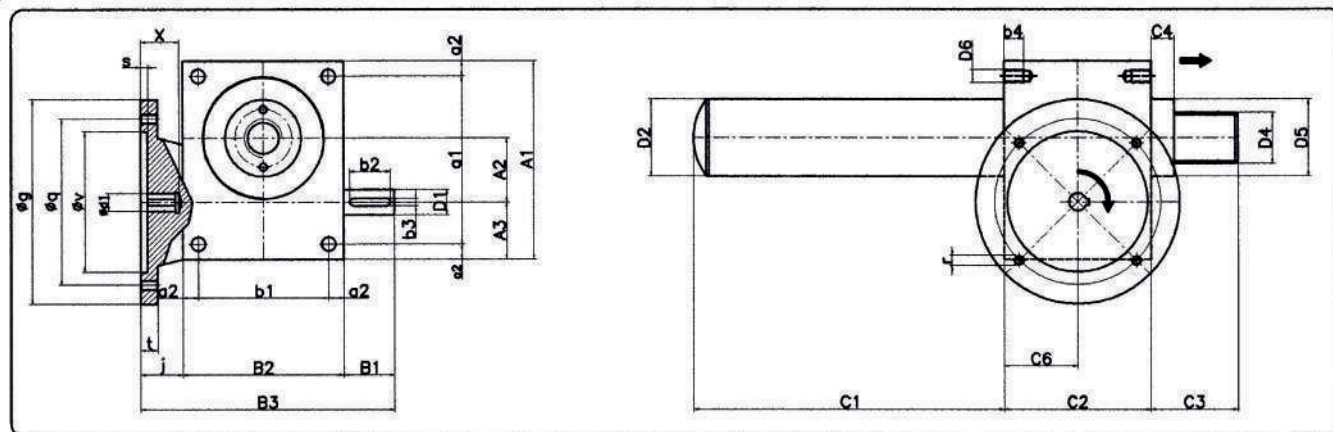
- N_T = numero giri/min in ingresso;
- M_T = momento torcente;
- V_H = corsa vite mm/1';
- Carico max. applicabile;
- P_n = potenza da applicare per il sollevamento del carico max.;
- F_r = carico radiale max. sull'albero di entrata.

WORM GEAR/CROWN RATIO (1:4 H - 1:16 L for HGO184 and HGO204)

- N_r = input number of rotations/min
- M_r = torsion moment
- V_h = stroke screw mm/l
- Maximum load allowed
- P_n = necessary power to lift maximum load
- F_c = maximum radial load on input shaft

Martinetto Serie HGO Tipo "VMB"

jack HGO series "VMB" type



Dimensioni comuni Standard dimensions

SERIE TYPE	A1	A2	A3	a1	a2	B1	B2	B3	j	b1	b2	b3	b4
HGO204	100	32	28	78	11	27.5	85	142.5	30	63	20	5	15
HGO306	155	50	45	131	12	40	126	199	33	102	30	6	-
HGO407	160	70	50	165	15	54.5	160	254.5	40	130	40	8	-
HGO609	211	70	63	175	18	50	170	270	40	134	40	8	40
HGO7010	280	90	75	230	25	60	230	345	55	180	50	8	45
HGO8010	280	90	75	230	25	60	230	345	55	180	50	8	45

Dimensioni Tipo "VMB" Type "VMB" dimensions

SERIE TYPE	C1	C2	C3	C4	C6	D1	D2	D4	D5	D6
HGO204	30	75	45	18	37.5	14	42	Tr 20x4	38.7	M8
HGO306	60	90	45	25	45	20	65	Tr 30x6	60	-
HGO407	75	120	60	35	60	25	74	Tr 40x7	69	-
HGO609	80	150	65	40	75	25	95	Tr 60x9	90	M20
HGO7010	80	176	65	40	88	30	127	Tr 70x10	120	M30
HGO8010	80	176	65	40	88	30	127	Tr 80x10	120	M30

Dimensioni alberi motori e flange Drive shafts and flanges dimensions

SERIE TYPE	Ød1G7 x X				Øg			
HGO204	14x30	11x23	9x20		160	140	120	105
HGO306	19x40	14x30	11x23.....		200	160	140	120
HGO407	28x60	24x50	19x40	14x30	250	200	160	140
HGO609	28x60	24x50	19x40	14x30	250	200	160	140
HGO7010	38x60	28x60.....			300	250	200	160
HGO8010	38x60	28x60.....			300	250	200	160

Dimensioni delle flange flanges dimensions

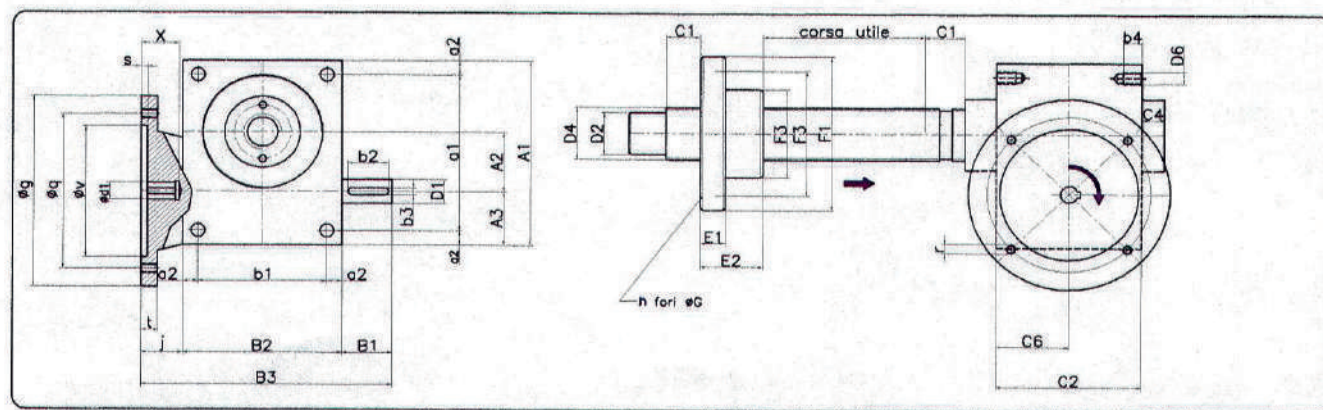
Flangia B5						Flangia B14			
s	t	r	Øg	Øq±0.2	Øv F7	r	Øg	Øq±0.2	Øv F7
6	17	4xM12	300	265	230	4xØ13	300	265	230
6	17	4xM12	250	215	180	4xØ13	250	215	180
5	15	4xM10	200	165	130	4xØ11	200	165	130
5	15	4xM8	160	130	110	4xØ9	160	130	110
4	10	4xM8	140	115	95	4xØ9	140	115	95
4	10	4xM6	120	100	80	4xØ7	120	100	80
5	10					4xØ7	105	85	70

RAPPORTO • VITE_{sr}/ CORONA (per AGO184 e AGO204 i rapporti sono 1:4 H - 1:16 L)
 •N_r = numero giri/min in ingresso; •Carico max. applicabile;
 •M_r = momento torcente; •P_n = potenza da applicare per il sollevamento del carico max.;
 •V_H = corsa vite mm/l'; •F = carico radiale max. sull'albero di entrata.

WORM GEAR/CROWN RATIO (1:4 H - 1:16 L for HGO184 and HGO204)
 • N_r = input number of rotations/min • Maximum load allowed
 • M_r = torsion moment • P_n = necessary power to lift maximum load
 • V_H = stroke screw mm/l • F = maximum radial load on input shaft

Martinetto Serie HGO Tipo "VFB"

jack HGO series "VFB" type



Dimensioni comuni Standard dimensions

SERIE	A1	A2	A3	a1	a2	B1	B2	B3	j	b1	b2	b3	b4
HGO204	100	32	28	78	11	27.5	85	142.5	30	63	20	5	15
HGO306	155	50	45	131	12	40	126	199	33	102	30	6	-
HGO407	160	70	50	165	15	55	160	254.5	40	130	40	8	-
HGO609	211	71	63	175	18	50	170	270	40	134	40	8	40
HGO7010	280	90	75	230	25	60	230	345	55	180	50	8	45
HGO8010	280	90	75	230	25	60	230	345	55	180	50	8	45

Dimensioni Tipo "VFB" Type "VFB" dimensions

SERIE	C1	C2	C3	C4	C6	D1	D2	D4	D5	D6	E1	F1	F2	F3	nxG	
HGO204	15	75	20	18	37.5	14	15	Tr 20x4	38.7	M8	10	40	50	30	40	5x6
HGO306	20	90	25	25	45	20	20	Tr 30x6	60	-	12	50	65	40	53	5x7
HGO407	25	120	30	35	60	25	25	Tr 40x7	69	-	12	65	80	55	68	6x7
HGO609	25	150	65	40	75	25	40	Tr 60x9	95	M20	15	95	105	75	90	6x9
HGO7010	25	176	70	40	88	30	55	Tr 70x10	120	M30	18	120	120	90	105	8x9
HGO8010	25	176	75	40	88	30	60	Tr 80x10	120	M30	18	120	130	100	115	8x9

Dimensioni alberi motore e flange Drive shafts and flanges dimensions

SERIE	Ød G7 x X		Øg	
HGO204	14x30	11x23	9x20	160
HGO306	19x40	14x30	11x23	200
HGO407	28x60	24x50	19x40 14x30	250
HGO609	28x60	24x50	19x40 14x30	250
HGO7010	38x60	28x60		300
HGO8010	38x60	28x60		300

Dimensioni delle flange flanges dimensions

Flangia B5						Flangia B14			
s	t	r	Øg	Øq±0.2	Øv F7	r	Øg	Øq±0.2	Øv F7
6	17	4xM12	300	265	230	4xØ13	300	265	230
6	17	4xM12	250	215	180	4xØ13	250	215	180
5	15	4xM10	200	165	130	4xØ11	200	165	130
5	15	4xM8	160	130	110	4xØ9	160	130	110
4	10	4xM8	140	115	95	4xØ9	140	115	95
4	10	4xM6	120	100	80	4xØ7	120	100	80
5	10					4xØ7	105	85	70

RAPPORTO • VITEsr / CORONA (per AGO184 e AGO204 i rapporti sono 1:4 H - 1:16 L)

- Nr= numero giri/min in ingresso; •Carico max. applicabile;
- Mr= momento torcente; •Pn= potenza da applicare per il sollevamento del carico max.;
- Vh= corsa vite mm/l'; •F= carico radiale max. sull'albero di entrata.

WORM GEAR/CROWN RATIO (1:4 H - 1:16 L for HGO184 and HGO204)

- Nr= input number of rotations/min • Maximum load allowed
- Mr= torsion moment • Pn= necessary power to lift maximum load
- Vh= stroke screw mm/l • F= maximum radial load on input shaft

***Le misure indicate con asterisco, possono subire variazioni, perché prodotti reperibili da commercio.**

*Measures marked with * may change since they are commercial items*

IMPORTANTE

Per i modelli con flangia, in caso di richiesta d'offerta o di acquisti, è necessario specificare:

Diametro del foro del pignone (d1)

Diametro di centraggio (v)

Diametro esterno della flangia (g)

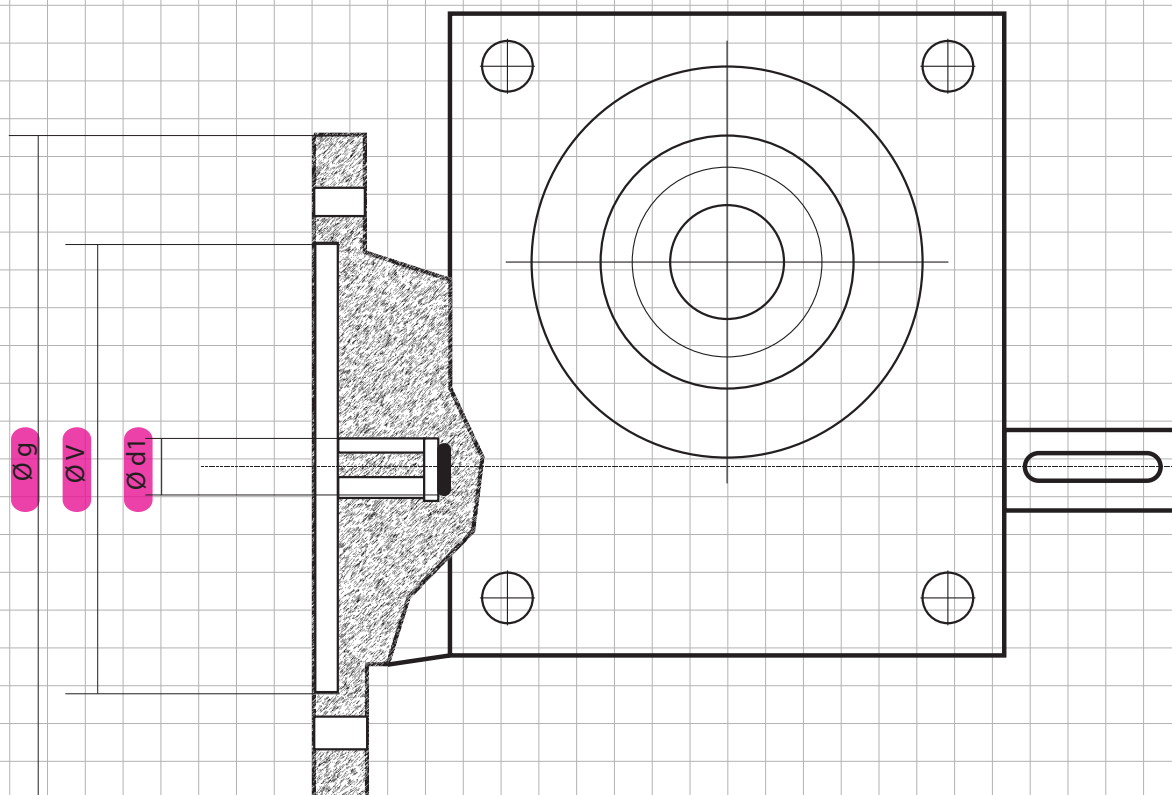
ATTENTION

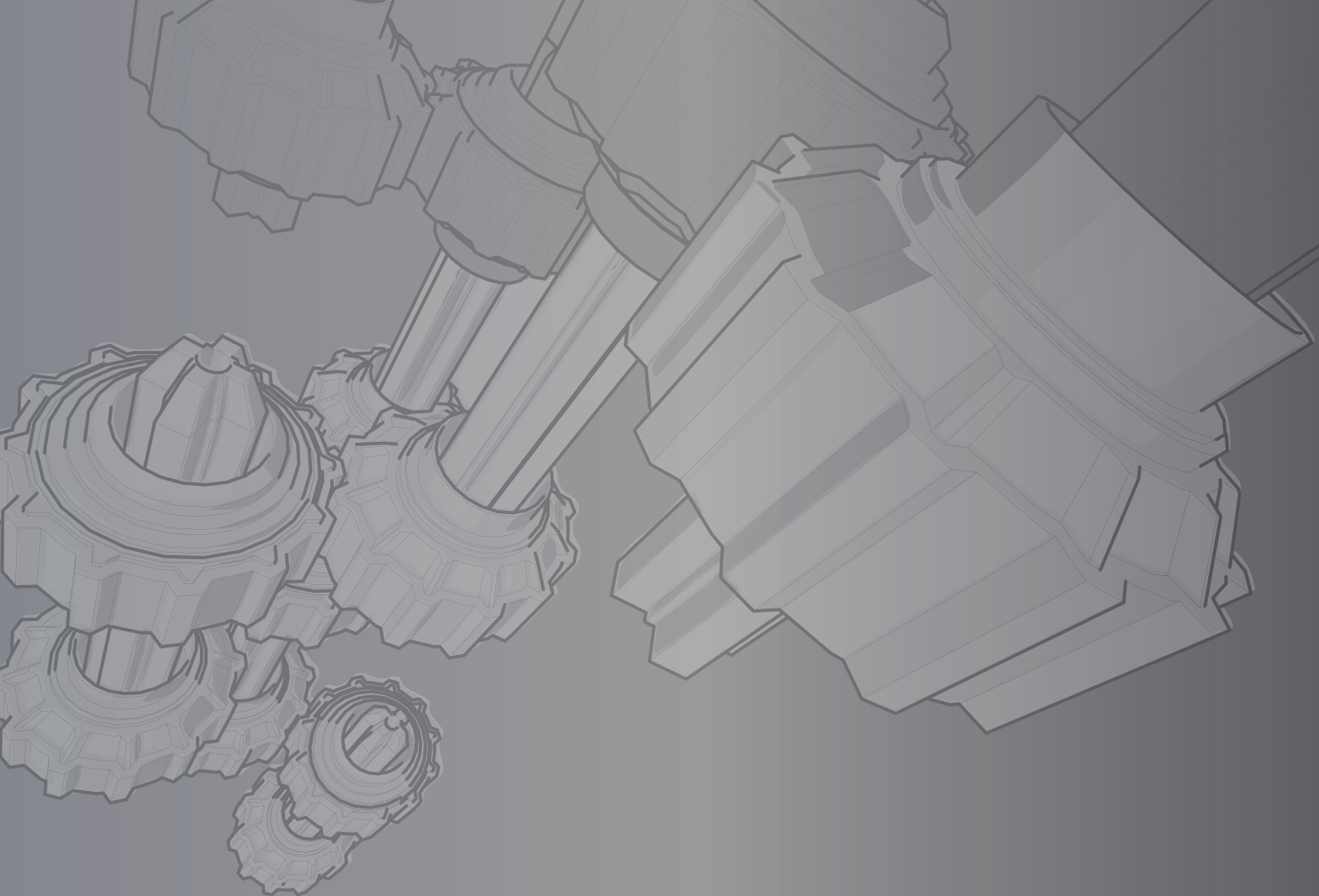
If you need a quotation or if you want to order some material involving flanged models, we kindly ask you to provide this detailed technical information:

Internal hole diameter for pinion (d1)

Centering diameter (v)

External diameter for flange (g)





ISO 9001 Cert n° 10 1



 **carini** industria
POWER TRASMISSION

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info@cariniindustria.it - www.cariniindustria.it

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MECCANICA OVERSIZE