

MINI 
TECNO
small but strong

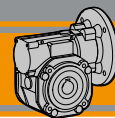
CL

Motoriduttori a vite senza fine
Wormgearmotors



MINI 
TECNO brand of
TRANSTECNO[®]

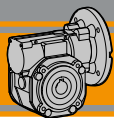




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CL

Motoriduttori a vite senza fine Wormgearmotors



Caratteristiche tecniche

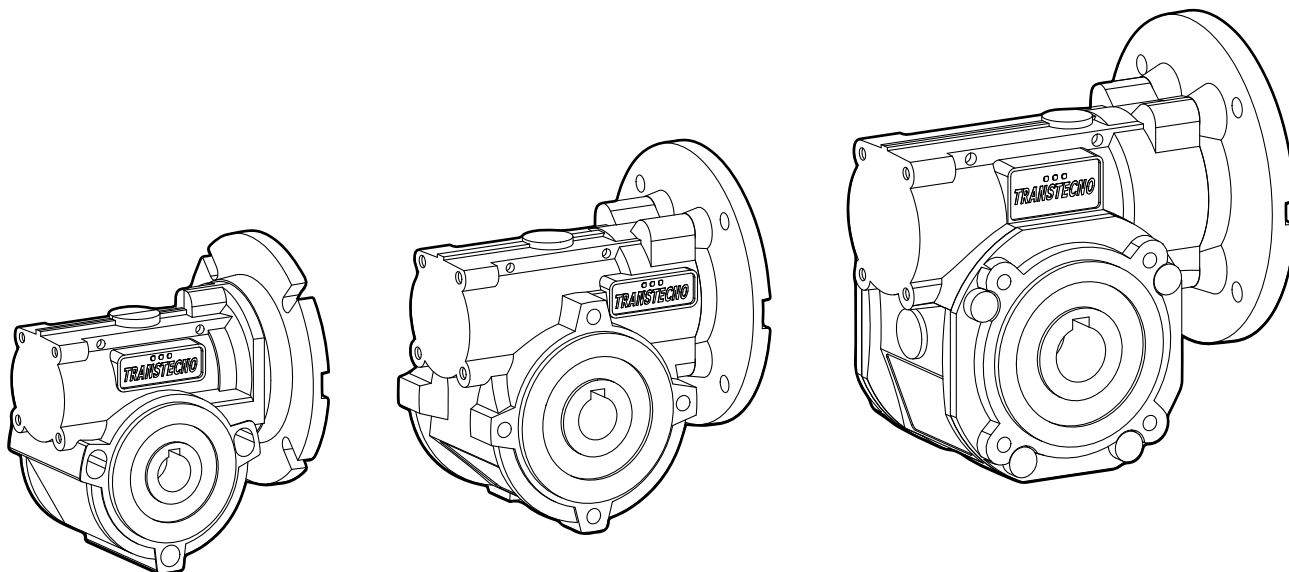
Technical features

L'elevata modularità contraddistingue i motoriduttori a vite senza fine della serie CL: i diversi kit entrata ed uscita li rendono estremamente versatili.

The high degree of modularity is a design feature of CL wormgearmotors range thanks to a wide selection of input and output kits. Main features of CL range are:

Le caratteristiche principali della serie CL sono:

- Carcassa in alluminio
- Lubrificazione permanente con olio sintetico
- Die-cast aluminium housing
- Permanent synthetic oil long life lubrication



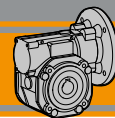
Designazione

Classification

RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

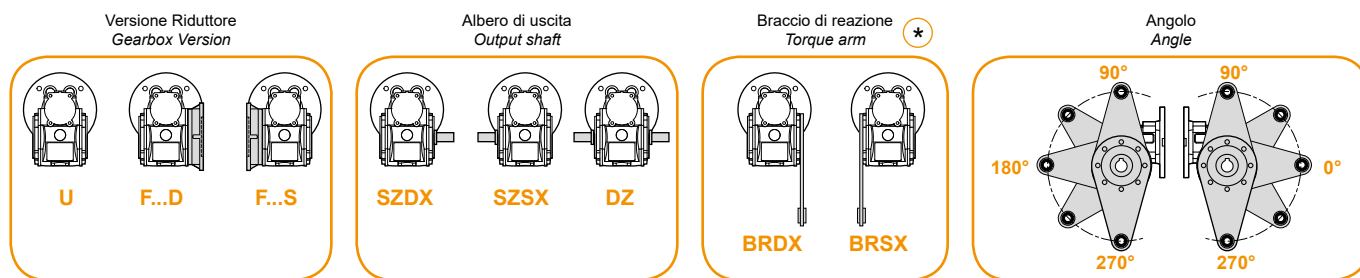
RIDUTTORE / GEARBOX

CL	030	U	10	63	B14	SZDX	BRSX	90	VS
Tipo Type	Grandezza Size	Versione riduttore Gearbox Version	Rapporto Ratio	IEC 	Forma costruttiva Version	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Opzioni Options
CL 	026 026 (D11) 026 (D14) 030 040	U F...	Vedere tabella See tables	56.. — 71..	B5 B14	SZDX SZSX DZ	BRDX BRSX *	0° 90° 180° 270°	VS
CLIS 									



Designazione

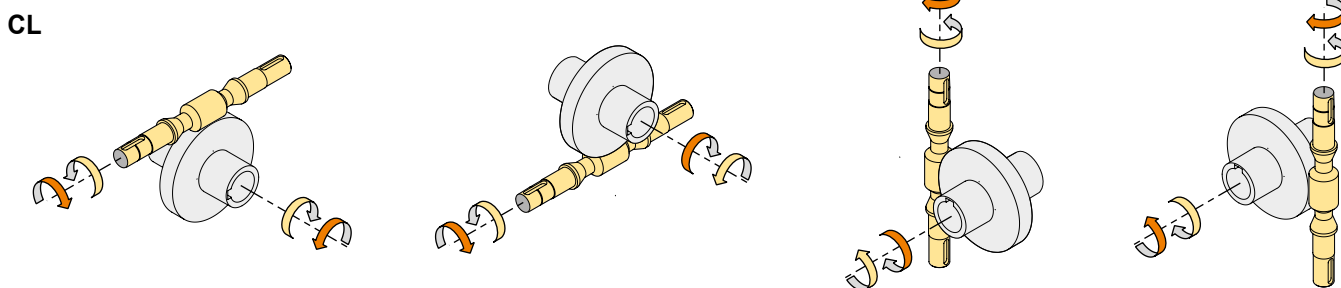
Classification



* NOTA: il braccio di reazione viene fornito smontato.
NOTE: the torque arm will be supplied not assembled.

Sensi di rotazione

Direction of rotation



Simbologia

Symbols

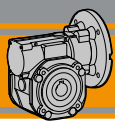
n_1 [min ⁻¹]	Velocità in ingresso / Input speed	sf	Fattore di servizio / Service factor
n_2 [min ⁻¹]	Velocità in uscita / Output speed	Rd %	Rendimento dinamico / Dynamic efficiency
i	Rapporto di riduzione / Ratio	Rs %	Rendimento statico / Static efficiency
P_1 [kW]	Potenza in entrata / Nominal input power	R_2 [N]	Carico radiale ammissibile in uscita / Permitted output radial load
M_2 [Nm]	Coppia in uscita in funzione di P_1 / Output torque referred to P_1	A_2 [N]	Carico assiale ammissibile in uscita / Permitted output axial load
P_{n1} [kW]	Potenza nominale in entrata / Nominal input power	Z	Numero di principi della vite / Worm starts
M_{n2} [Nm]	Coppia nominale in uscita in funzione di P_{n1} / Nominal output torque referred to P_{n1}	β	Angolo d'elica / Helix angle

Lubrificazione

Lubrication

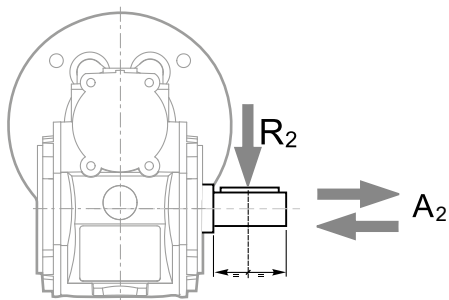
Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Carichi radiali

Radial loads

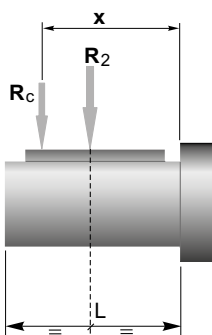


$A_2 = R_2 \times 0.2$

n ₂ [min ⁻¹]	R ₂ [N]		
	CL026	CL030	CL040
187	400	674	1264
140	490	743	1392
93	580	851	1596
70	610	936	1754
56	610	1008	1890
47	610	1069	2004
35	610	1179	2210
28	610	1270	2381
23	610	1356	2542
18	610	1471	2759
14	610	1600	3000

Quando il carico radiale risultante non è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

	CL		
	026	030	040
a	56	65	84
b	43	50	64
R _{2MAX}	610	1600	3000

Dati di dentatura

Toothing data

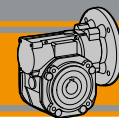
	Dati della coppia vite-corona Worm wheel data	Rapporto / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CL026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57'	10° 30'		6° 33'	5° 17'	4° 26'	3° 49'		
CL030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CL040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'

Rendimento

Efficiency

	n ₁ [min ⁻¹]	Rendimento Efficiency	Rapporto / Ratio											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CL026	2800	Rd	89	87	85	83	80		73	68	64	60		
	1400		87	84	83	78	74		66	61	57	53		
	900		84	83	80	75	71		61	57	52	48		
CL030	2800	Rs	72	71	68	61	56	46	41	36	34			
	1400		89	88	86	84	81	78	74	70	65	62	57	52
	900		86	85	84	79	75	72	67	62	58	55	48	43
CL040	2800	Rs	84	83	81	75	71	68	62	58	53	49	43	39
	1400		72	67	63	55	50	43	39	35	31	27	23	21
	900		90	89	87	84	83	80	77	73	69	66	60	56
CL040	2800	Rd	88	86	84	81	78	74	70	65	60	58	52	46
	1400		86	84	82	77	74	70	66	60	57	53	46	41
	900		74	71	67	60	55	51	45	40	36	32	28	24


Rendimento teorico del riduttore dopo il rodaggio
Theoretical efficiency of the gearbox after the first running period



Dati tecnici

n_1 1400 min⁻¹

Technical data


	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CLIS026

280	13	0.44	5
187	14	0.33	7.5
140	14	0.25	10
93	14	0.18	15
70	14	0.14	20
47	15	0.11	30
35	14	0.08	40
28	13	0.07	50
23	12	0.06	60

CLIS030

280	18	0.61	5
187	20	0.46	7.5
140	21	0.37	10
93	21	0.26	15
70	19	0.19	20
56	20	0.16	25
47	22	0.16	30
35	20	0.12	40
28	19	0.10	50
23	17	0.08	60
18	15	0.06	80
14	14	0.05	100

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
---	-------------------------------	----------------	----------------	-----

CLIS040

280	41	1.37	5
187	44	1.00	7.5
140	45	0.79	10
93	45	0.54	15
70	40	0.38	20
56	38	0.30	25
47	48	0.34	30
35	42	0.24	40
28	39	0.19	50
23	36	0.15	60
18	33	0.12	80
14	31	0.10	100

Nota:

Pn_1 è la potenza meccanica.

La potenza applicabile è ridotta del fattore termico.

Per maggiori dettagli consultare il nostro Servizio Tecnico.

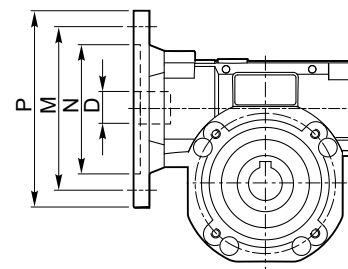
Note:

Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.

Motori applicabili

IEC Motor adapters

	IEC	N	M	P	D	i																	
						5	7.5	10	15	20	25	30	40	50	60	80	100						
CL026	56B14	50	65	80	9																		
CL030	63B5	95	115	140	11																		
	63B14	60	75	90	9																		
CL040	71B5	110	130	160	14																		
	63B5	95	115	140	11	B	B	B	B	B	B	B	B										
	63B14	60	75	90	9	BS	BS	BS	BS	BS	BS	BS	BS	BS	B	B	B	B					
56B5	80	100	120	9																			
56B14	50	65	80	9																			



N.B.

Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

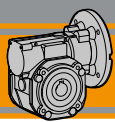
N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio

B/BS = Metal shaft sleeve

Nota: flange Nema disponibili a richiesta

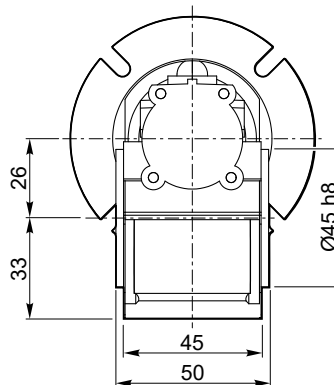
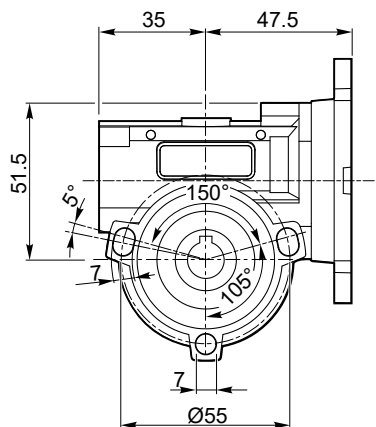
Note: Nema flange available on demand



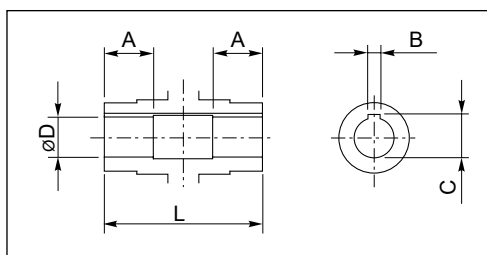
Dimensioni

Dimensions

CL 026 U



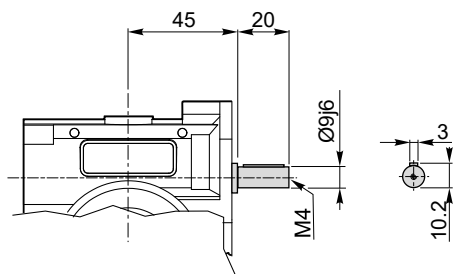
Kg
0.7



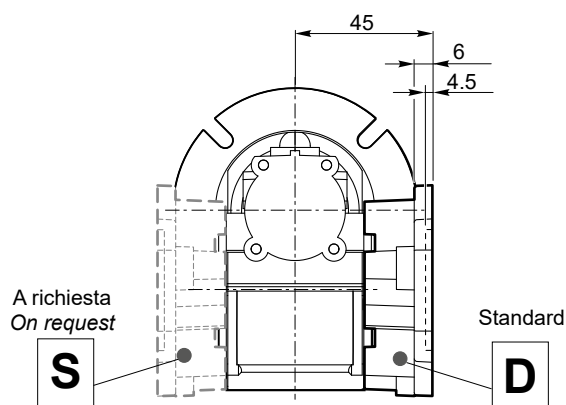
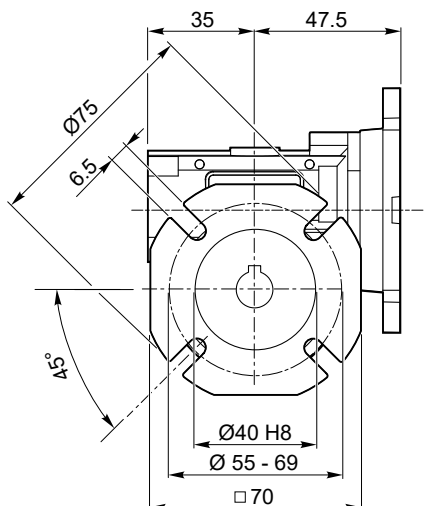
Albero lento cavo / Hollow output shaft

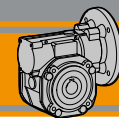
Grandezza Size	ø D H8	L	A	B	C
CL 026 (D14)	14	50	15	5	16.2
CL 026	12	50	15	4	13.8
CL 026 (D11)	11	50	15	4	12.8

CLIS 026 ..



CL 026 F

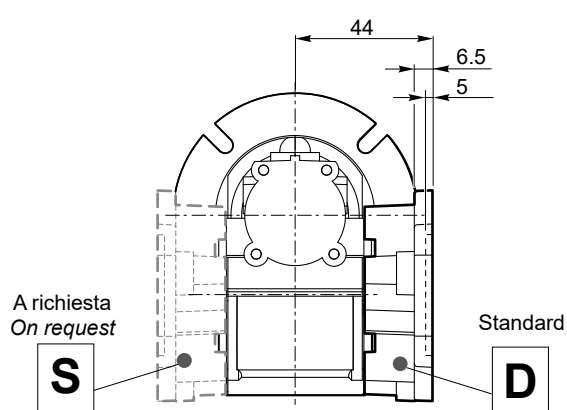
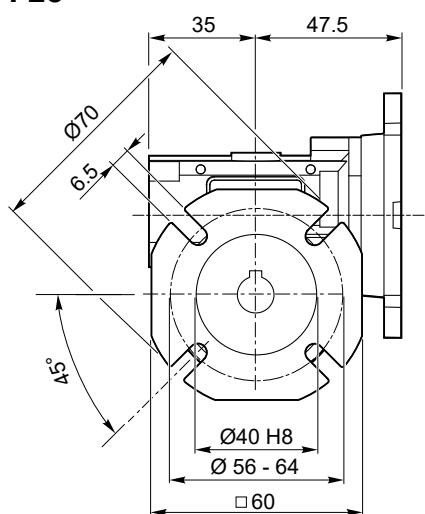




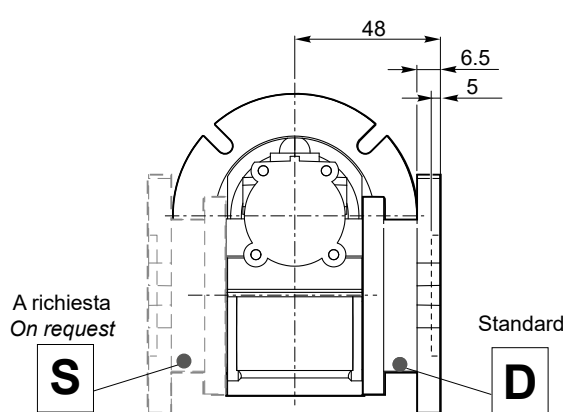
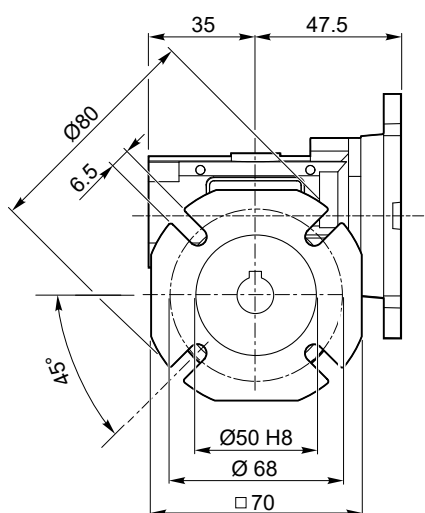
Dimensioni

Dimensions

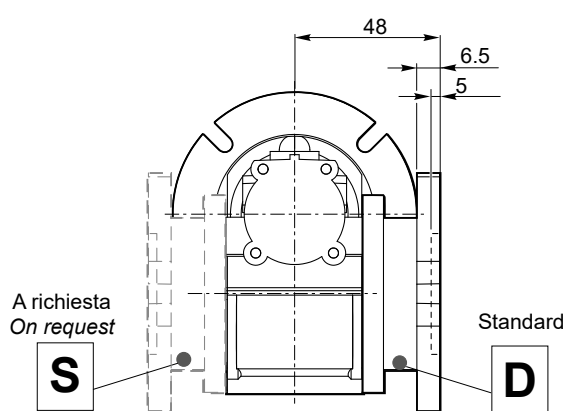
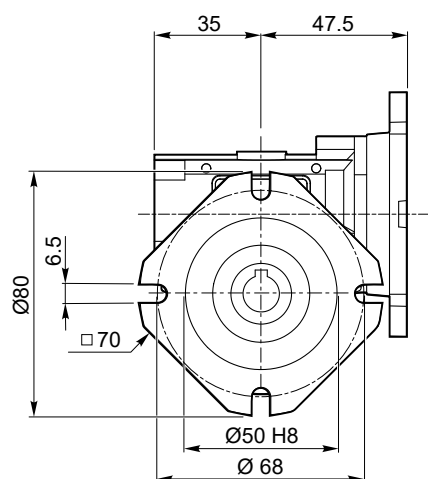
CL 026 F28

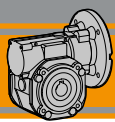


CL 026 F30



CL 026 F30C

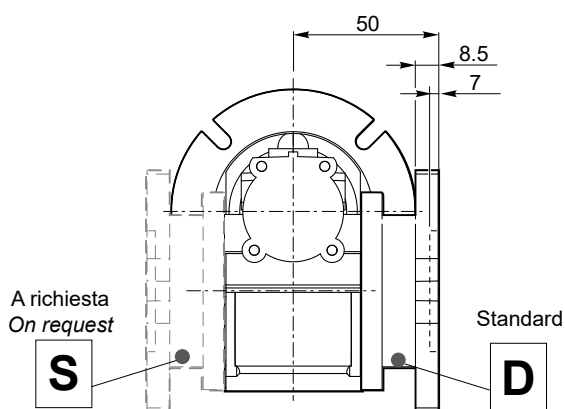
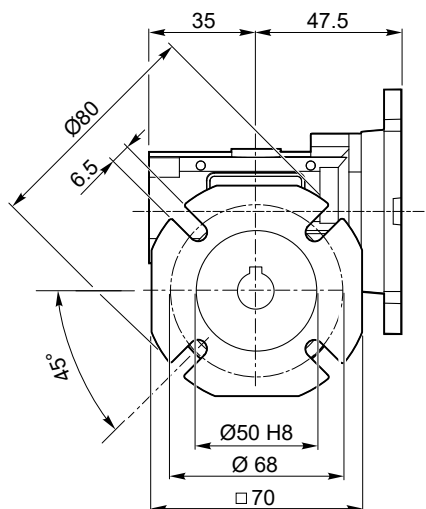




Dimensioni

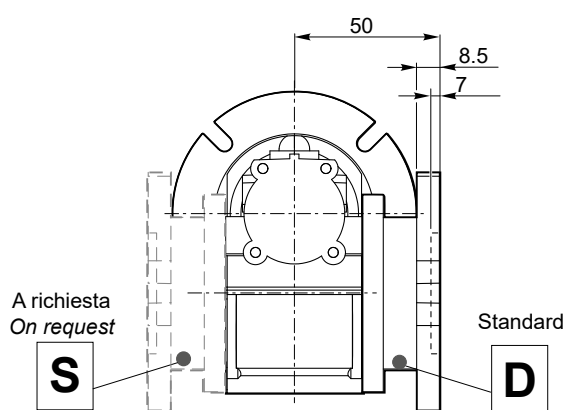
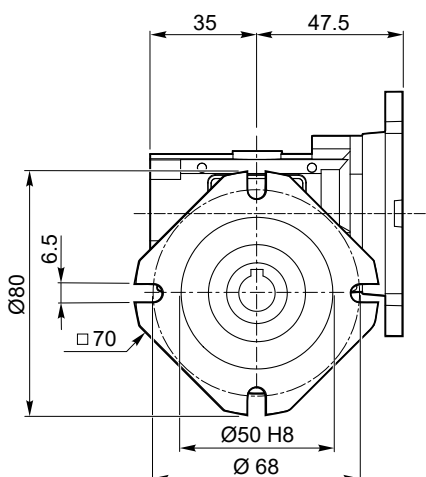
Dimensions

CL 026 F30S



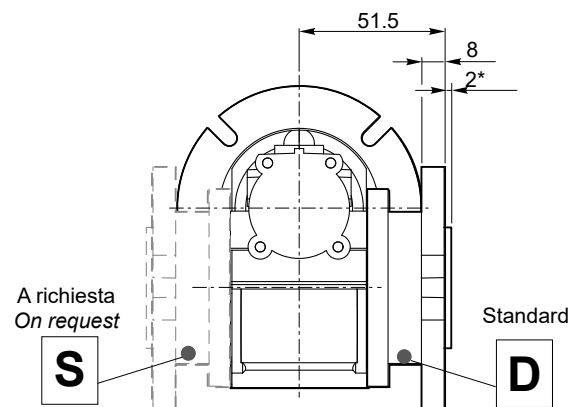
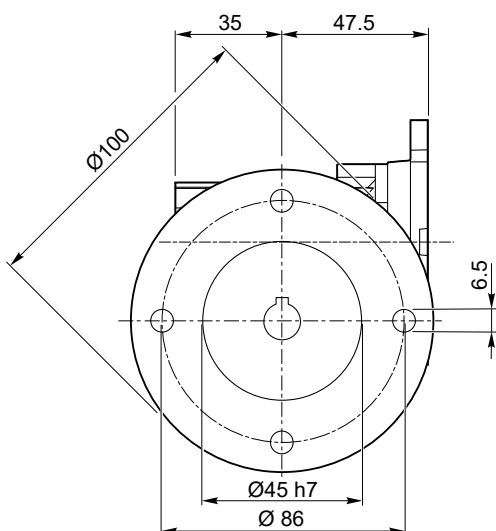
Nota: Esecuzione con flangia uscita F30 e spessore 2mm
Note: Made with flange F30 and spacer with 2mm thickness

CL 026 F30SC

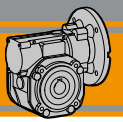


Nota: Esecuzione con flangia uscita F30C e spessore 2mm
Note: MAde with flange F30C and spacer with 2mm thickness

CL 026 F100



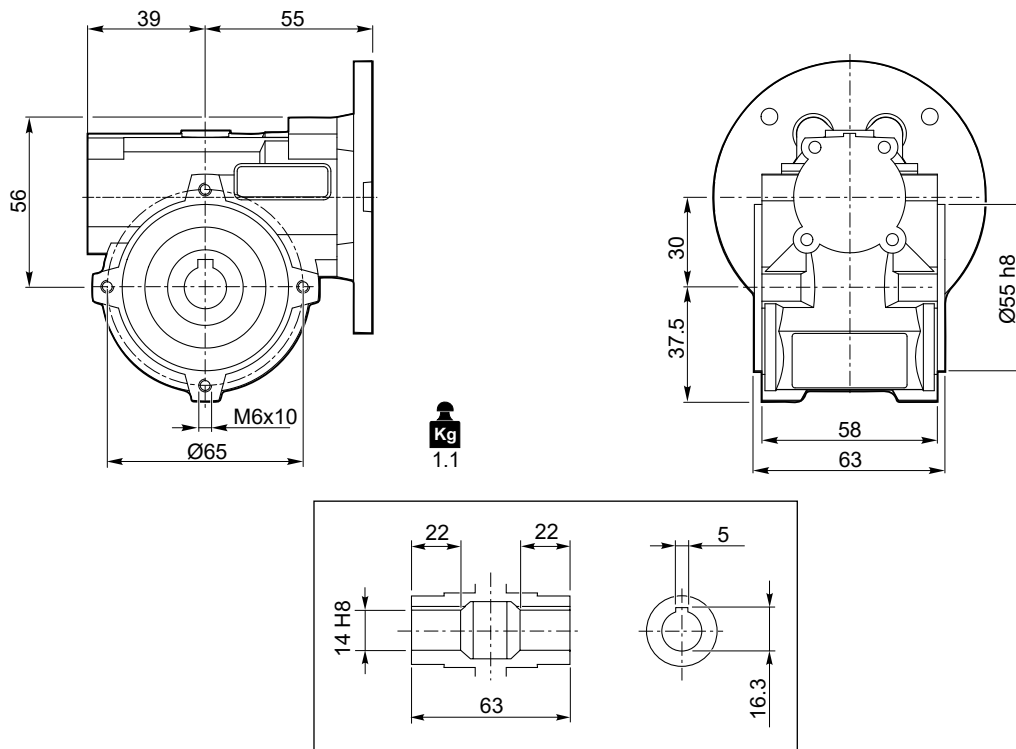
(*): Centraggio maschio
(*): Male centering diameter



Dimensioni

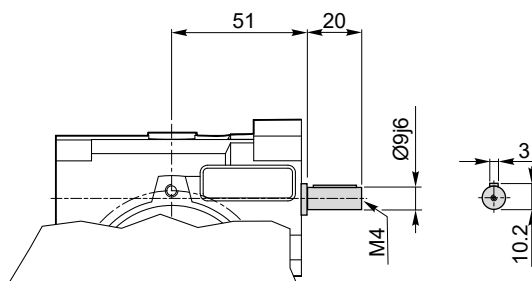
Dimensions

CL 030 U

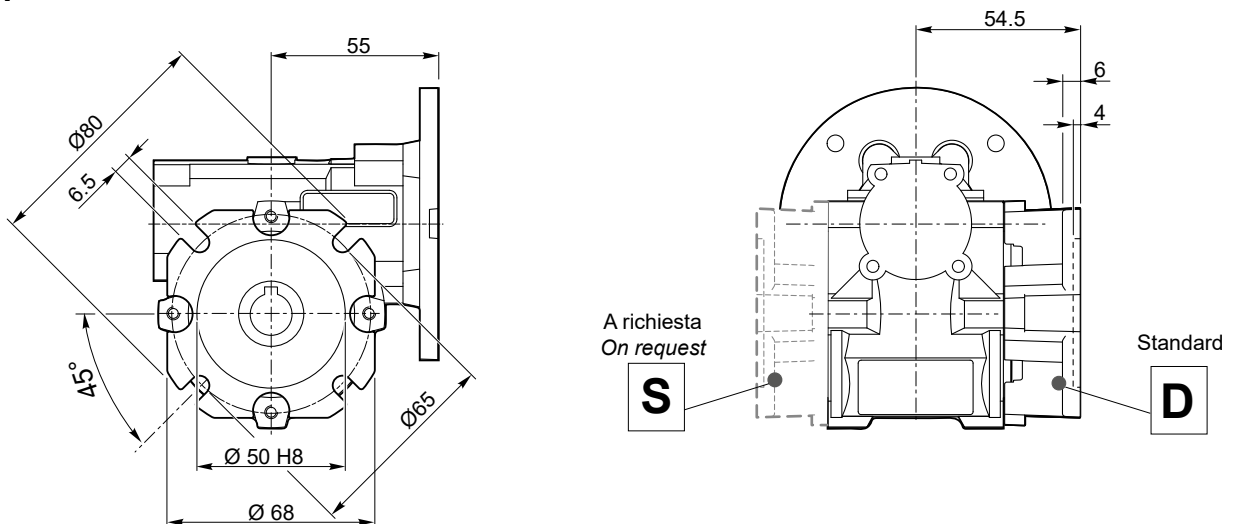


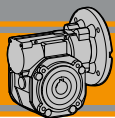
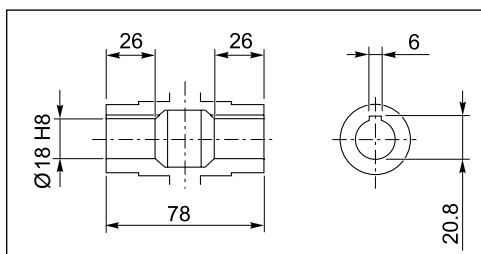
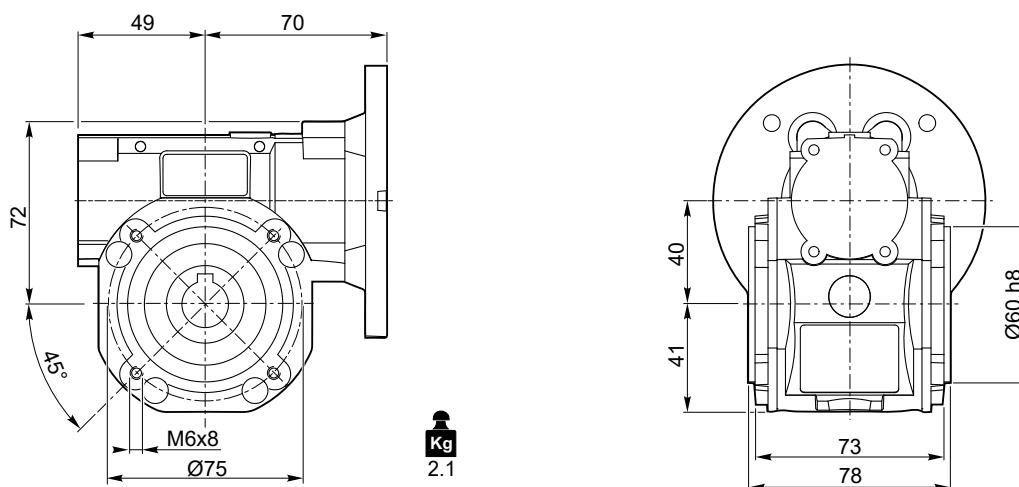
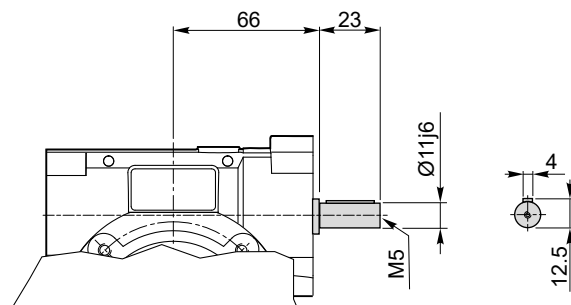
Albero lento cavo / Hollow output shaft

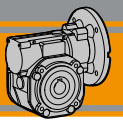
CLIS 030 ..



CL 030 F



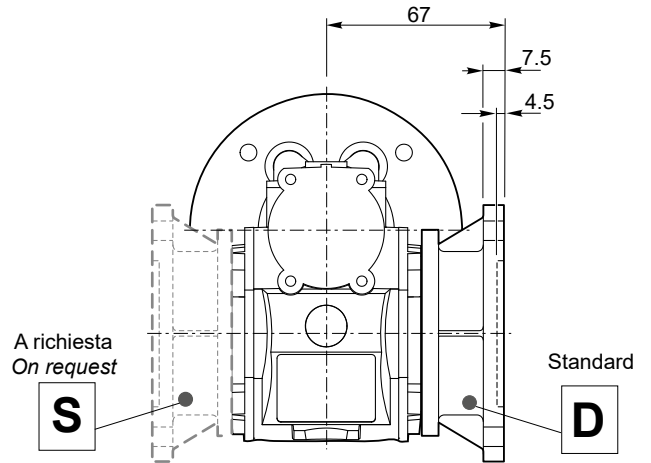
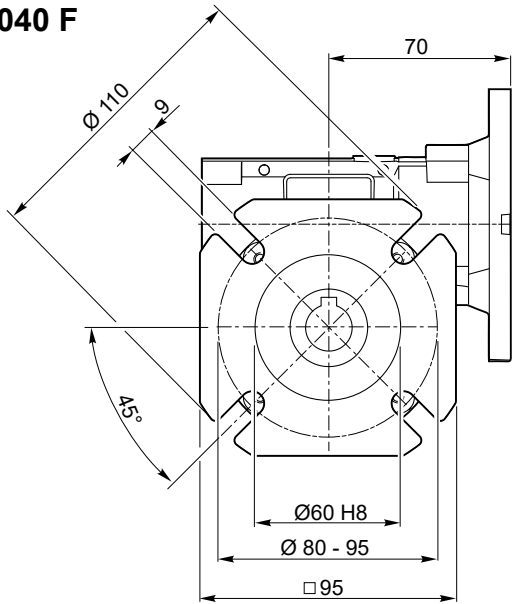
**CL****Motoriduttori a vite senza fine**
Wormgearmotors**MINI**
TECNO**Dimensioni****Dimensions****CL 040 U***Albero lento cavo / Hollow output shaft***CLIS 040 ..**



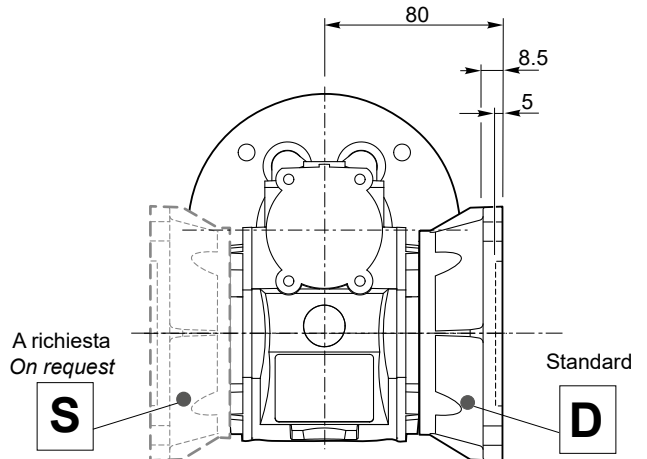
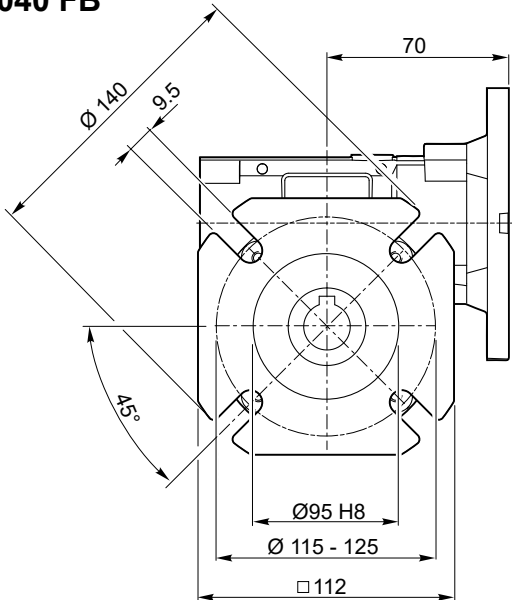
Dimensioni

Dimensions

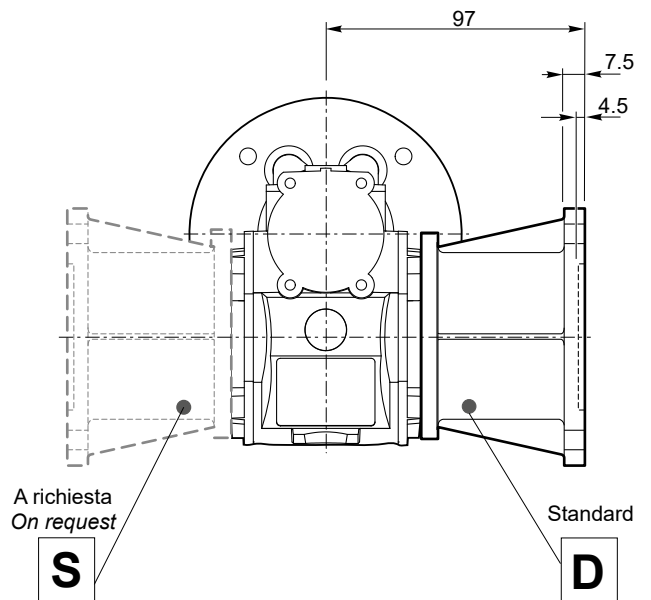
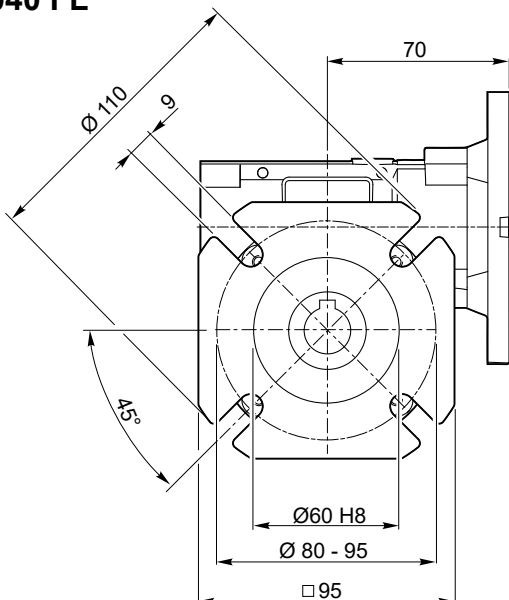
CL 040 F

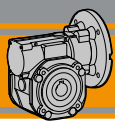


CL 040 FB



CL 040 FL





CL

Motoriduttori a vite senza fine
Wormgearmotors

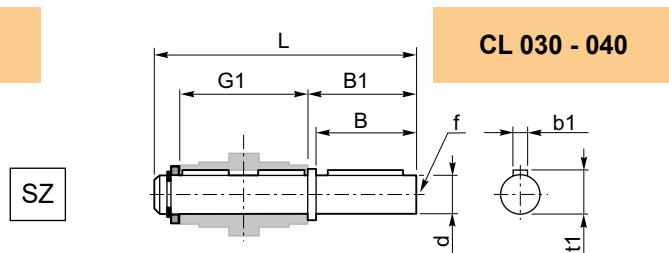
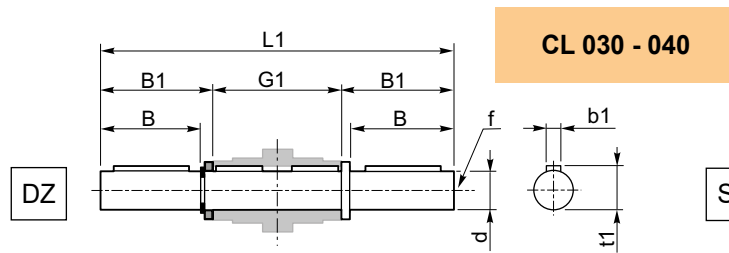


Accessori

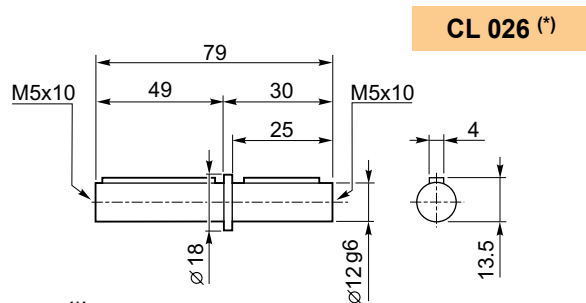
Accessories

Albero lento semplice e doppio

Single and double output shaft



CL	d _{h7}	B	B1	G1	L	L1	f	b1	t1
030	14	30	32.5	63	102	128	M6	5	16
040	18	40	43	78	128	164	M6	6	20.5

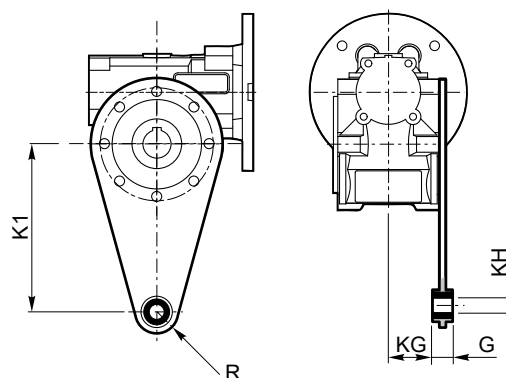


(*)
Nota: disponibile solo per cavo uscita Ø12
Note: available for output hollow shaft Ø12 only

Braccio di reazione

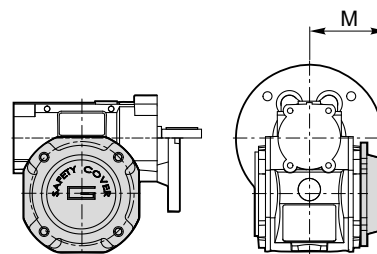
Torque arm

CL	K1	G	KG	KH	R
030	85	14	23	8	15
040	100	14	31	10	18



SC - Safety Cover

CL	M
030	47
040	54.5

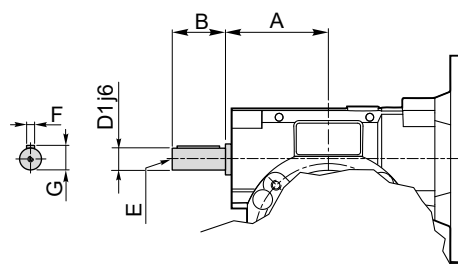


Opzioni

Options

VS - Vite sporgente / Extended input shaft

CL	A	B	D _{1j6}	E	F	G
030	45	20	9	M4	3	10.2
040	53	23	11	M5	4	12.5



Costruito su richiesta
Built on request

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