TRANSTECNO®
the modular gearmotor

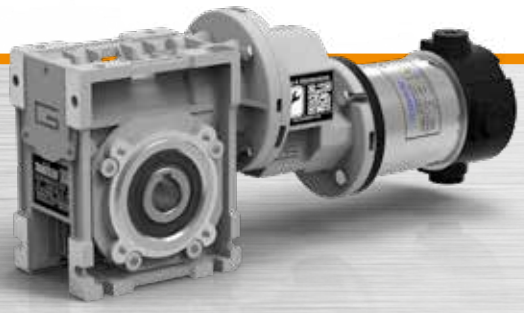
NDCMP

NDCMP

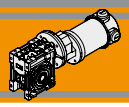
NDCMP Alü

Neodymium

Motoriduttori CC a vite senza fine con precoppia
DC pre stage wormgearmotors



TRANSTECNO · GENUINE · PRODUCTS ·



ENERGY SAVING

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Caratteristiche tecniche — *Technical features*

Le caratteristiche principali dei motoriduttori CC a vite senza fine con precoppia a magneti permanenti in neodimio NDCMP sono:

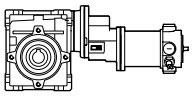
- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder e freno
- Potenze motore disponibili da 160 a 250 W S2
- Magneti in Neodimio
- Sia le carcasse dei riduttori a vite senza fine che delle precoppie sono in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.

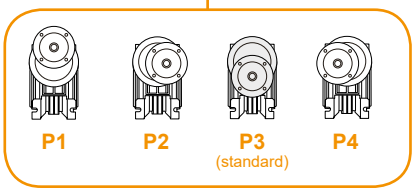
The main features of NDCMP neodymium permanent magnets DC pre stage wormgearmotors range are:

- *Low voltage power supply 12/24 Vdc*
- *Suitable for encoder and brake assembly*
- *Motor power ratings available from 160 to 250 W S2*
- *Neodymium magnets*
- *Die-cast aluminum housing on pre-stage and wormgearboxes*
- *Permanent synthetic oil long-life lubrication.*

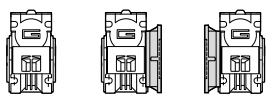
Designazione — *Classification*

MOTORIDUTTORE / *GEARMOTOR*

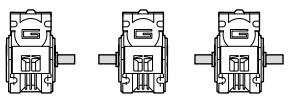
NDCMP	120/056/030	U	90	SZDX	BRSX	90	P4	240	VS
Tipo *Type*	Grandezza *Size*	Versione Riduttore *Gearbox Version*	Rapporto *Ratio*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio precoppia *Pre stage mounting position*	Versione Motore *Motor Version*	Opzioni *Options*
NDCMP 	**120/056/030** **180/056/030** **120/056/040** **180/056/040**	**U** **FD** **FS** **FLD** **FLS** **FBD** **FBS**	Vedere tabella *See tables*	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX** (*)	**0°** **90°** **180°** **270°**	**P1** **P2** **P3** (standard) **P4**	**120 — 240**	**VS**



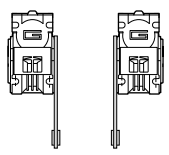
Versione Riduttore *Gearbox Version*



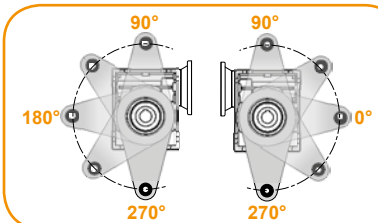
Albero di uscita *Output shaft*



Braccio di reazione (*) *Torque arm*



Angolo *Angle*



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

Simbologia — *Symbols*

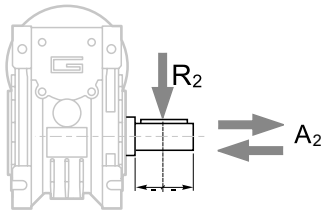
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	sf		Fattore di servizio / *Service factor*
i		Rapporto di riduzione / *Ratio*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
P_1	[kW]	Potenza in entrata / *Input power*	A_2	N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Lubrificazione — *Lubrication*

I riduttori a vite senza fine con precoppia della serie CMP sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

Permanent synthetic oil long-life lubrication allow to use CMP range in all mounting position.

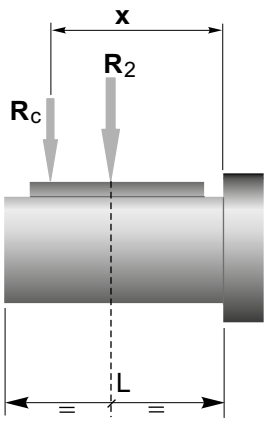
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]	
	CM030	CM040
35	1179	2210
28	1270	2381
23	1356	2542
18	1471	2759
14	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:



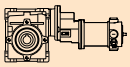
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

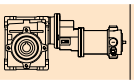
$$R \leq R_c$$

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

	CMP	
	030	040
a	65	84
b	50	64
R_{2MAX}	1600	3000

Dati tecnici per servizio S2 — *Technical data for S2 duty*

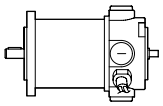
P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		Versione motore *Motor version*
160						
(3000 min^{-1})	**50**	21	1.0	60	**120/056/030**	120/240
	40	25	0.9	75		
	33	28	1.0	90		
	25	35	0.7	120		
	20	31	0.7	150		
	50	22	2.0	60	**120/056/040**	120/240
	40	26	1.7	75		
	33	30	1.9	90		
	25	36	1.3	120		
	20	43	1.1	150		
	17	48	0.9	180		
	13	55	0.7	240		
	10	51	0.7	300		

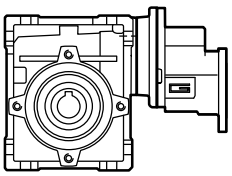
P_1 [W]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		Versione motore *Motor version*
250						
(3000 min^{-1})	50	31	0.7	60	**180/056/030**	180/240
	40	31	0.7	75		
	33	39	0.7	90		
	25	33	0.7	120		
	20	31	0.7	150		
	50	35	1.3	60	**180/056/040**	180/240
	40	41	1.1	75		
	33	46	1.2	90		
	25	56	0.9	120		
	20	66	0.7	150		
	17	61	0.7	180		
	13	57	0.7	240		
	10	51	0.7	300		

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas

Motori applicabili — *IEC Motor adapters*



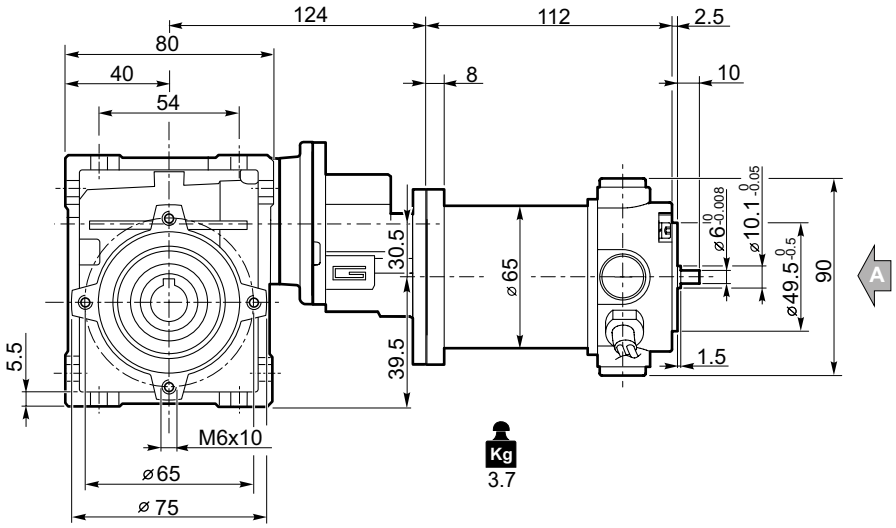


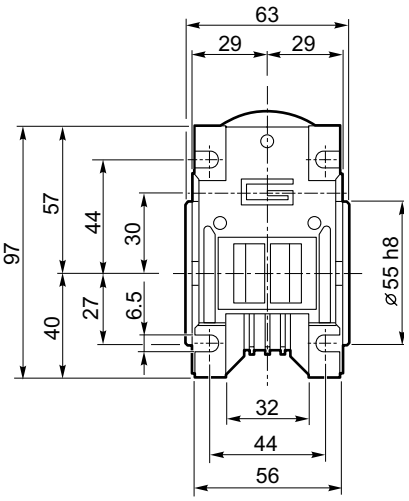
		ND	
		120.120 120.240	**180.120 180.240**
CMP	**056/030**	150	300
	056/040	150	300

150 — Rapporto di riduzione massimo i_{max}
Maximum ratio i_{max}

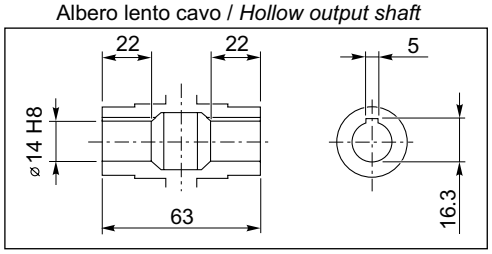
Dimensioni *Dimensions*

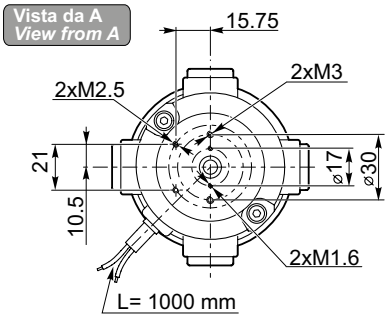
NDCMP120/056/030 U

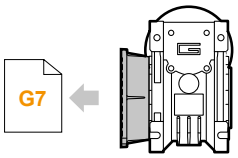




Albero lento cavo / *Hollow output shaft*





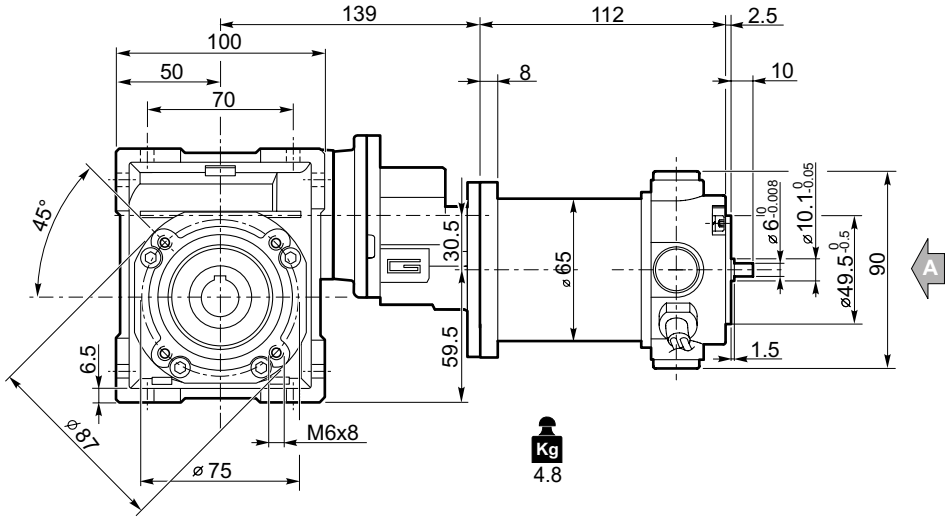


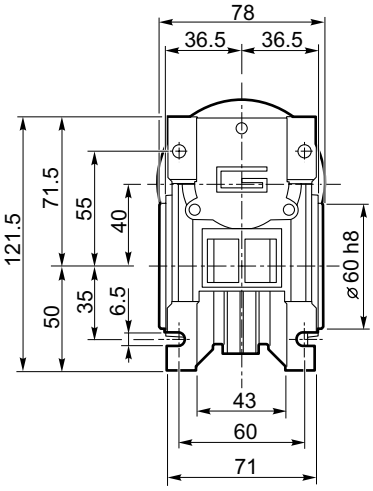
NDCMP120/056/030 F

Freno / *Brake* B9

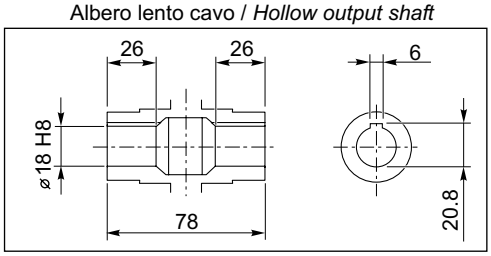
Encoder B9

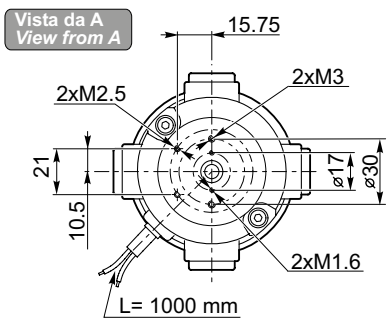
NDCMP120/056/040 U

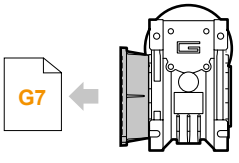




Albero lento cavo / *Hollow output shaft*







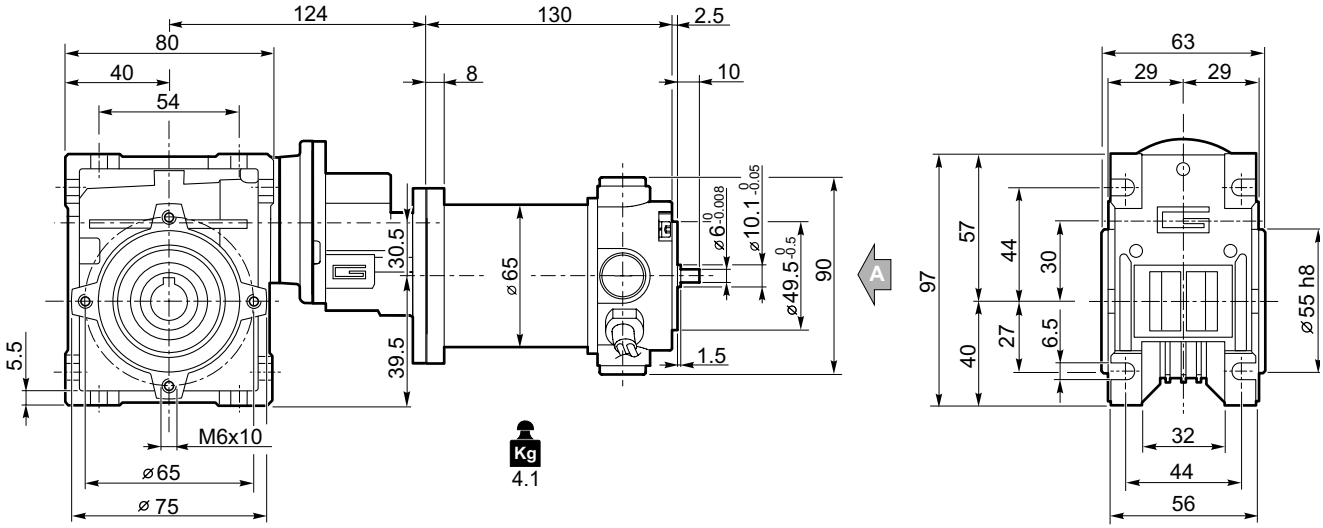
NDCMP120/056/040 F
NDCMP120/056/040 FB
NDCMP120/056/040 FL

Freno / *Brake* B9

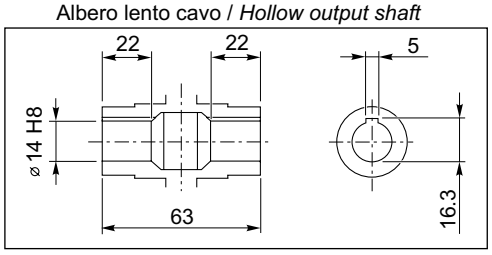
Encoder B9

Dimensioni ***Dimensions***

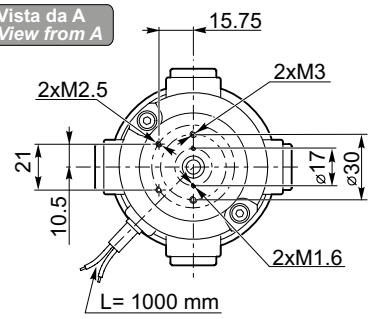
NDCMP180/056/030 U

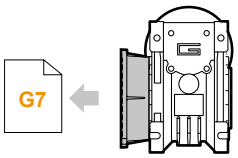


Albero lento cavo / *Hollow output shaft*



Vista da A / *View from A*



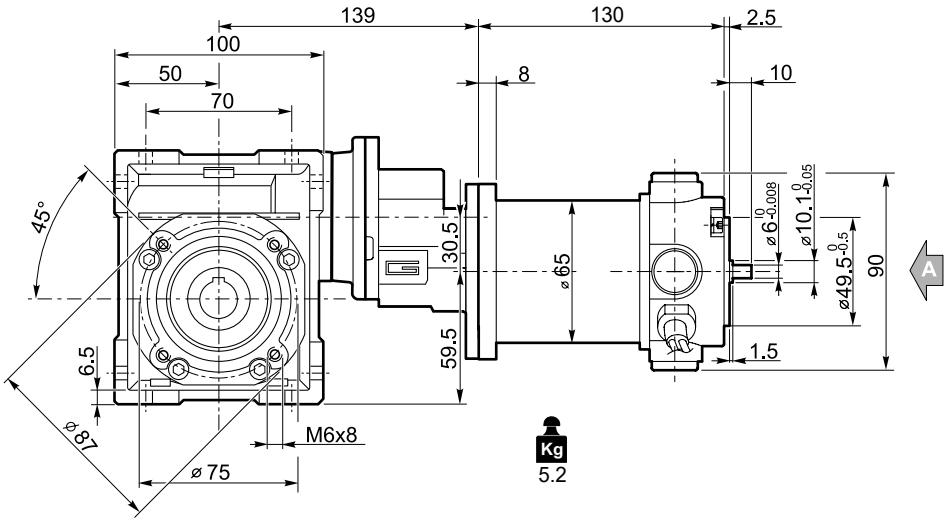


NDCMP180/056/030 F

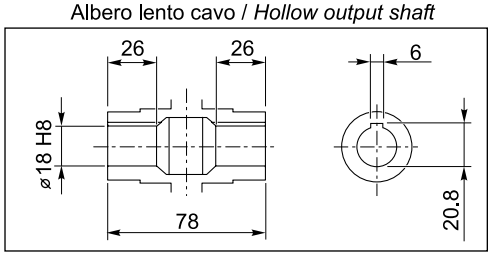
Freno / *Brake* B9

Encoder B9

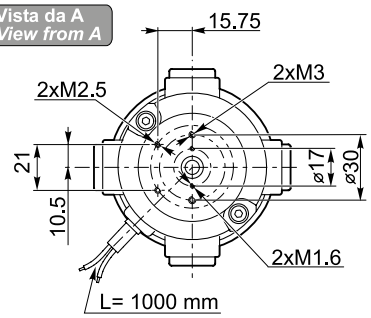
NDCMP180/056/040 U

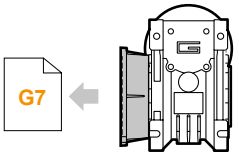


Albero lento cavo / *Hollow output shaft*



Vista da A / *View from A*





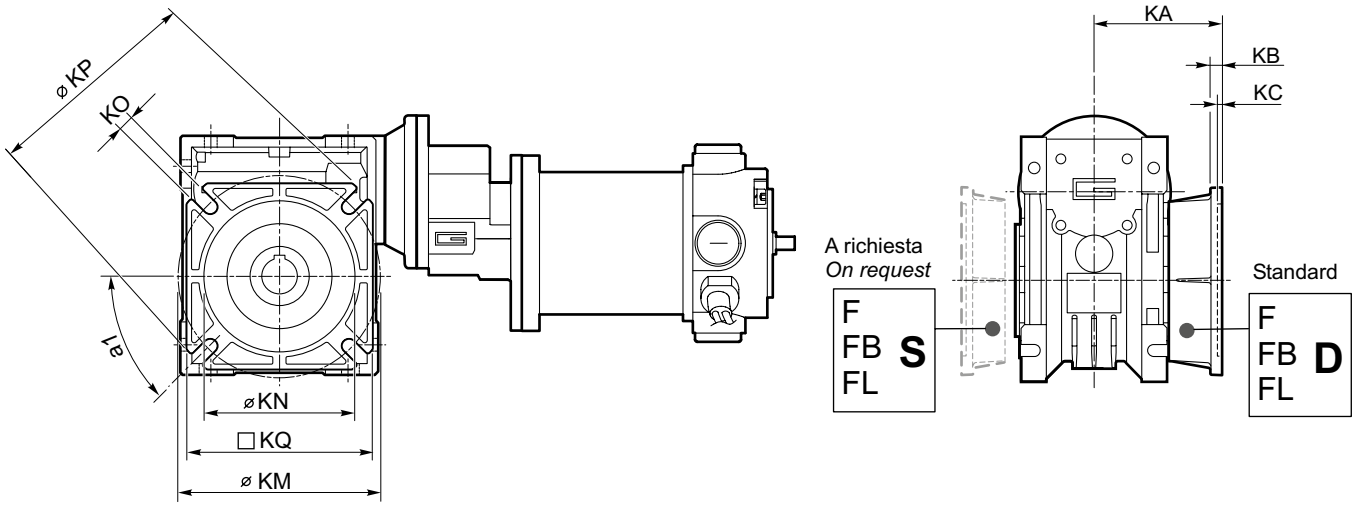
NDCMP180/056/040 F
NDCMP180/056/040 FB
NDCMP180/056/040 FL

Freno / *Brake* B9

Encoder B9

Dimensioni — *Dimensions*

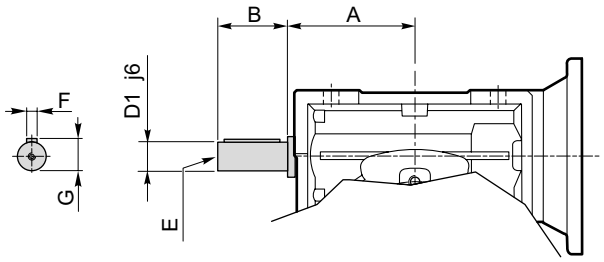
NDCMP.../... F... Flange uscita / *Output flanges*



CMP	a1	CMP..F								CMP..FB								CMP..FL							
		KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
056/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	10(n.4)	110	95

Opzioni *Options*

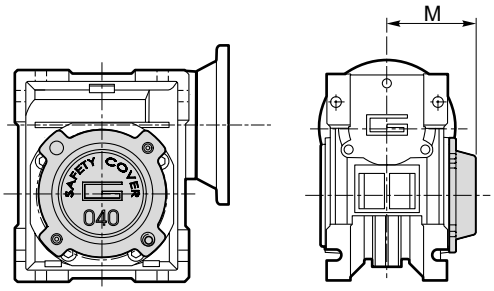
VS - Vite sporgente / *Extended input shaft*



CMP	A	B	D_1 j6	E	F	G
056/030	45	20	9	M4	3	10.2
056/040	53	23	11	M5	4	12.5

Costruito su richiesta
Built on request

SC - *Safety cover*

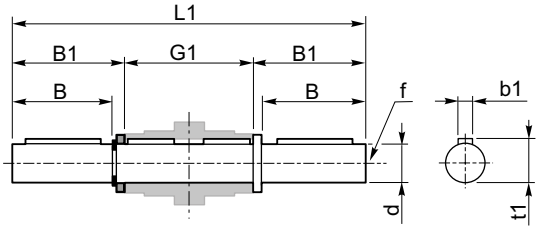


	M
CM 030	47
CM 040	54.5

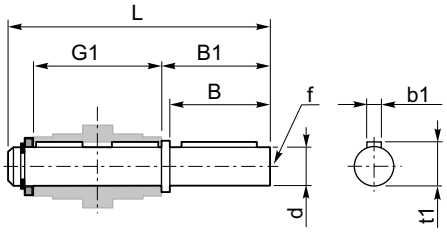
Accessori *Accessories*

Albero lento semplice e doppio *Single and double output shaft*

DZ



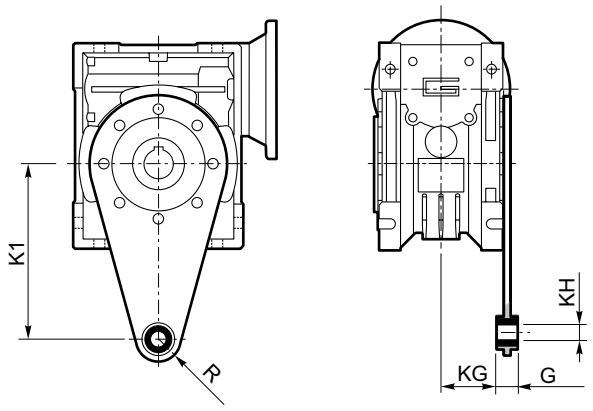
SZ



CMP	d h7	B	B1	G1	L	L1	f	b1	t1
056/030	14	30	32.5	63	102	128	M6	5	16
056/040	18	40	43	78	128	164	M6	6	20.5

Braccio di reazione *Torque arm*

CMP	K1	G	KG	KH	R
056/030	85	14	23	8	15
056/040	100	14	31	10	18



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