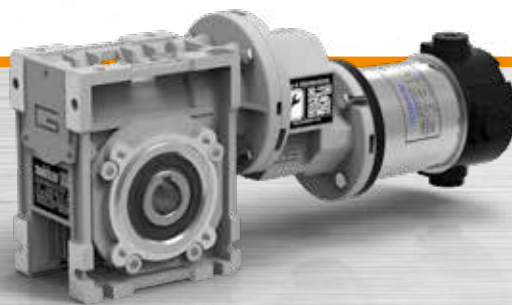


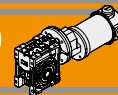


Neodymium

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



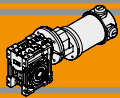




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### Caratteristiche tecniche

### Technical features

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

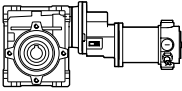
The main features of NDCMP neodymium permanent magnets DC pre stage wormgearmotors range are:

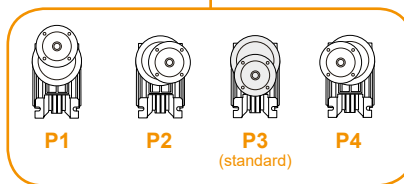
- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder e freno
- Potenze motore disponibili da 160 a 250 W S2
- Magneti in Neodimio
- Sia le carcasse dei riduttori a vite senza fine che delle precoppie sono in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.

- 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.

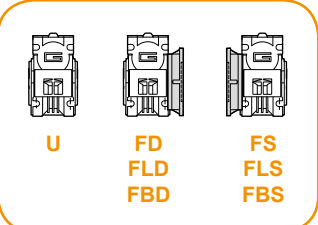
### Designazione

### Classification

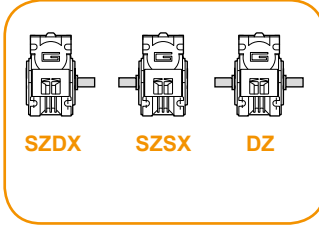
MOTORIDUTTORE / GEARMOTOR										
NDCMP	120/056/030		U	90	SZDX	BRSX	90	P4	240	VS
Tipo Type	Grandezza Size		Versione Riduttore Gearbox Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio precoppia Pre stage mounting position	Versione Motore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



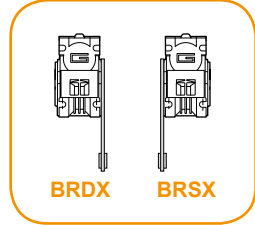
Versione Riduttore  
Gearbox Version



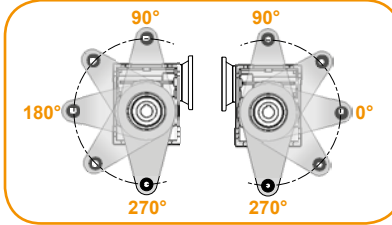
Albero di uscita  
Output shaft



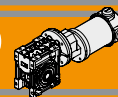
Braccio di reazione  
Torque arm \*



Angolo  
Angle



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



**Simbologia**

**Symbols**

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

**Lubrificazione**

**Lubrication**

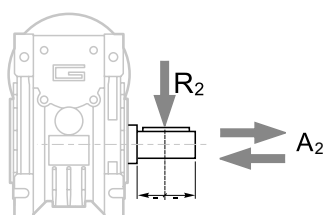
I riduttori a vite senza fine con precoppia della serie CMP sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

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

**NDCMP**

**Carichi radiali**

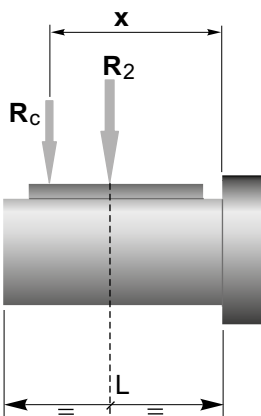
**Radial loads**



$n_2$ [min <sup>-1</sup> ]	$R_2$ [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:*

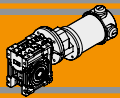


$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

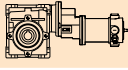
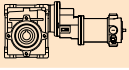
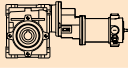
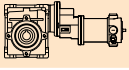
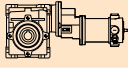
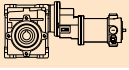
a, b = valori riportati nella tabella  
a, b = values given in the table

	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 <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		Versione motore Motor version	$P_1$ [W]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		Versione motore Motor version		
<b>160</b>							<b>250</b>								
(3000 min <sup>-1</sup> )	<b>50</b>	21	1.0	60		<b>120/056/030</b>	120/240	(3000 min <sup>-1</sup> )	50	31	0.7	60		<b>180/056/030</b>	180/240
	<b>40</b>	25	0.9	75				40	31	0.7	75				
	<b>33</b>	28	1.0	90				33	39	0.7	90				
	<b>25</b>	35	0.7	120				25	33	0.7	120				
	<b>20</b>	31	0.7	150				20	31	0.7	150				
	<b>50</b>	22	2.0	60		<b>120/056/040</b>	120/240		50	35	1.3	60		<b>180/056/040</b>	180/240
	<b>40</b>	26	1.7	75				40	41	1.1	75				
	<b>33</b>	30	1.9	90				33	46	1.2	90				
	<b>25</b>	36	1.3	120				25	56	0.9	120				
	<b>20</b>	43	1.1	150				20	66	0.7	150				
	<b>17</b>	48	0.9	180				17	61	0.7	180				
	<b>13</b>	55	0.7	240				13	57	0.7	240				
	<b>10</b>	51	0.7	300				10	51	0.7	300				

N.B.

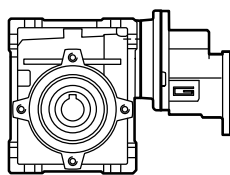
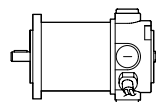
Verificare sempre che la coppia  $M_2$  utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.

Please check that the output torque  $M_2$  does not exceed the value in the grey areas

### Motori applicabili

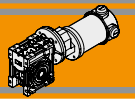
### IEC Motor adapters



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

150

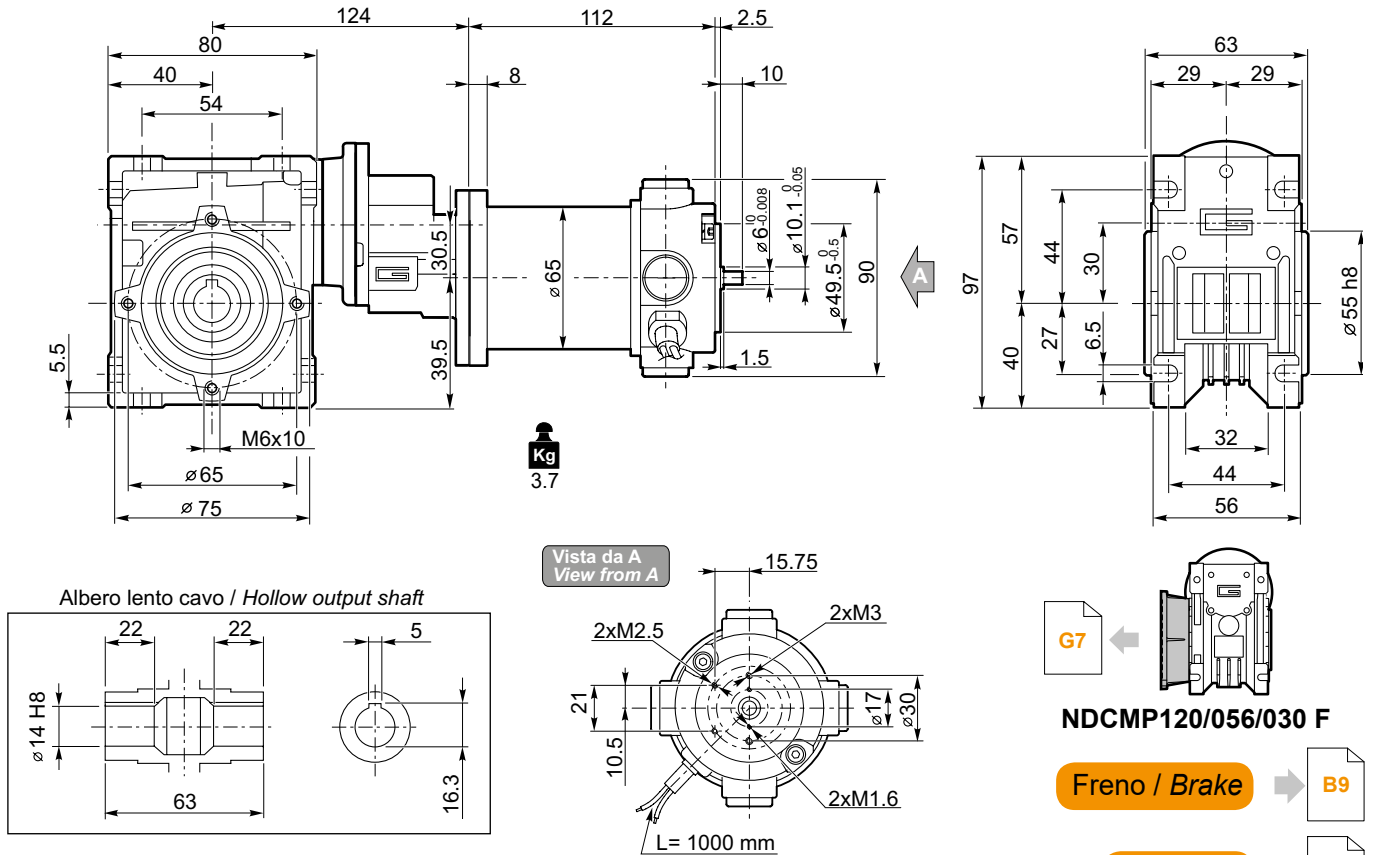
Rapporto di riduzione massimo  $i_{max}$   
Maximum ratio  $i_{max}$



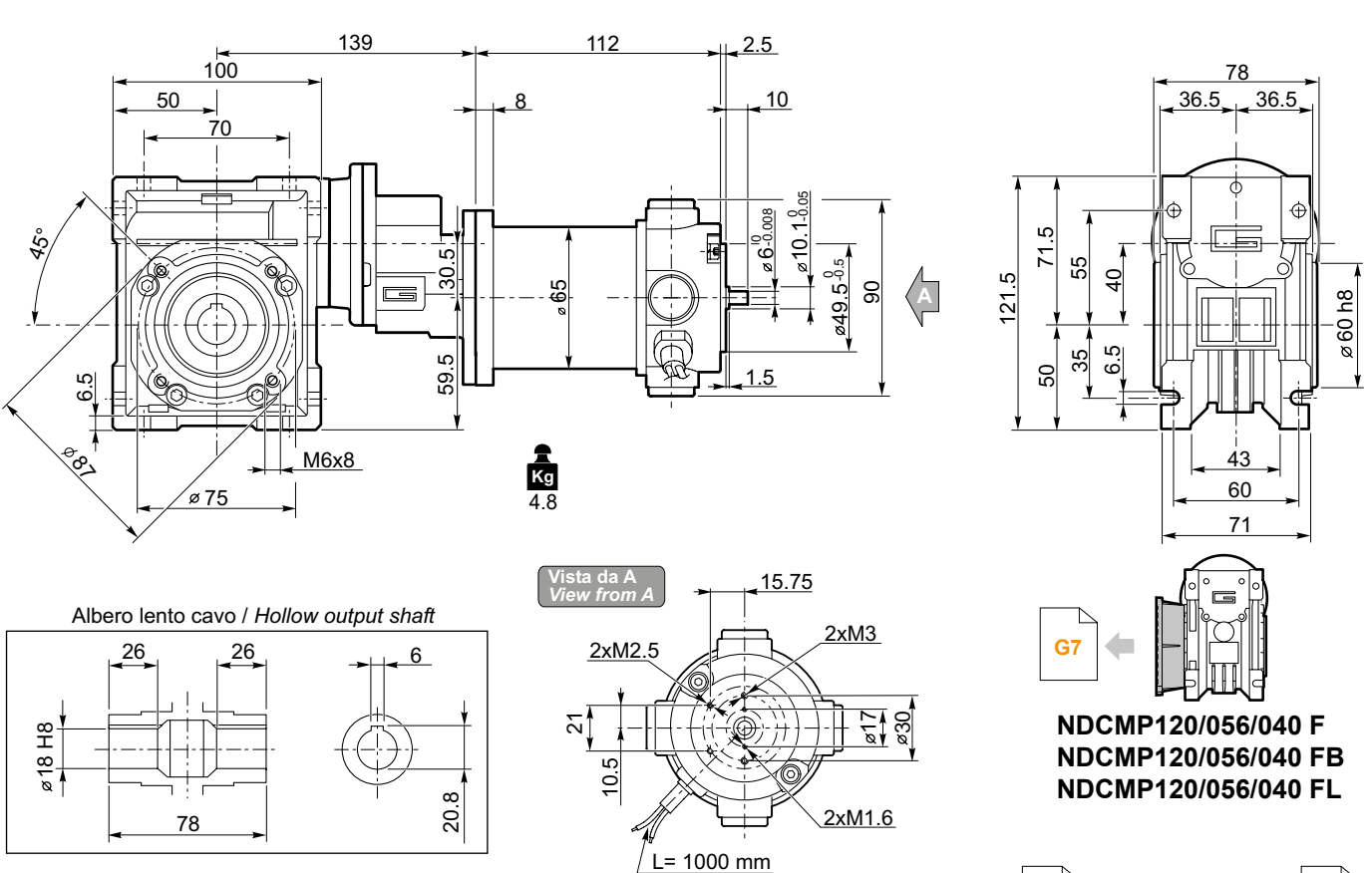
**Dimensioni**

**Dimensions**

**NDCMP120/056/030 U**



**NDCMP120/056/040 U**



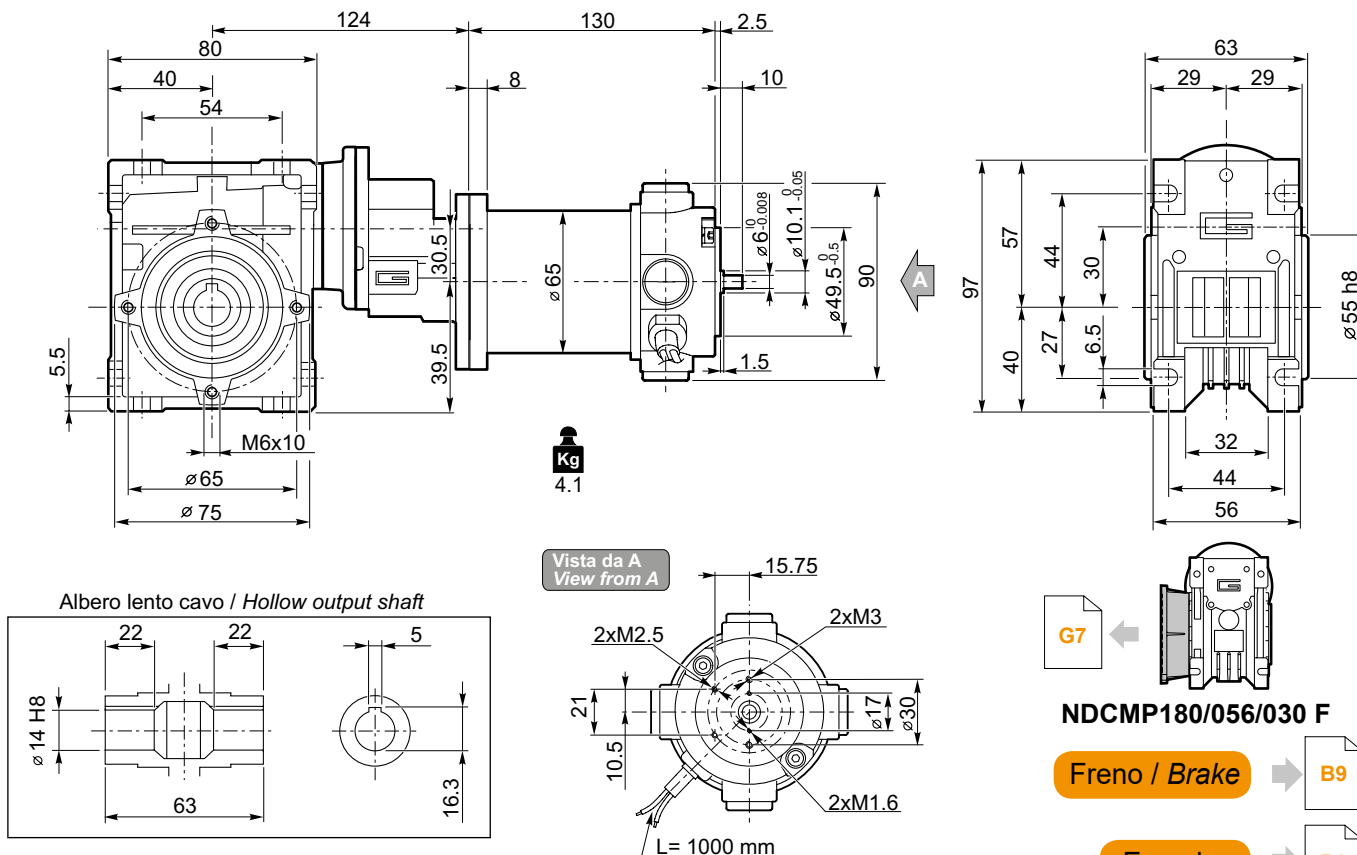
**NDCMP**



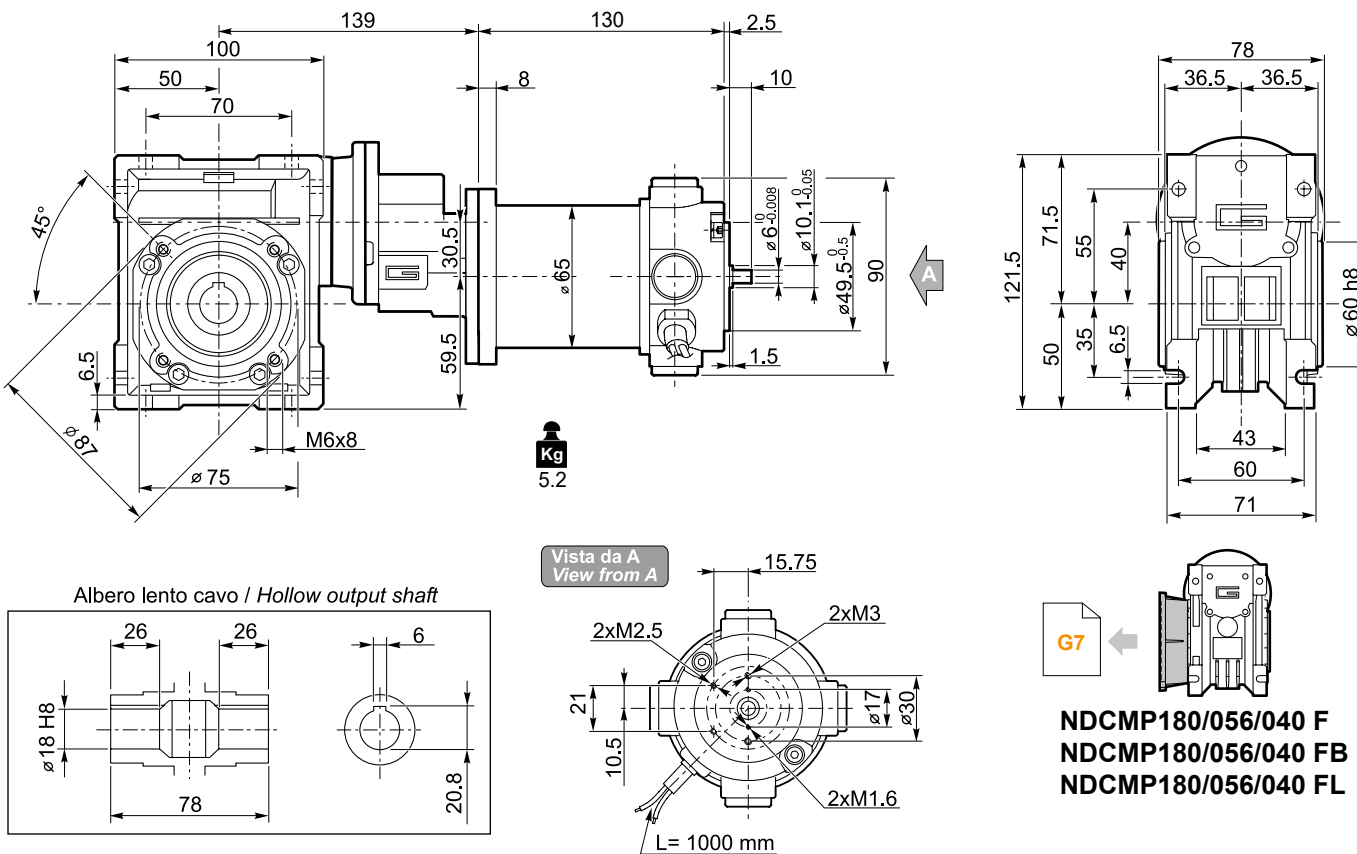
### Dimensioni

### Dimensions

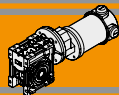
#### NDCMP180/056/030 U



#### NDCMP180/056/040 U



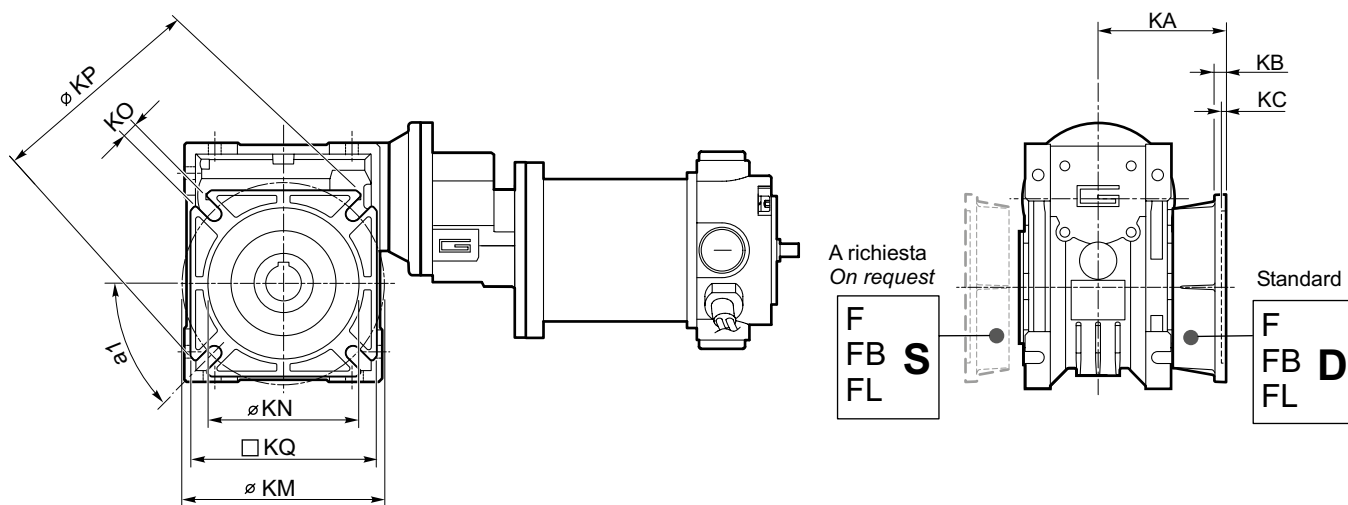




**Dimensioni**

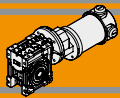
**Dimensions**

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



**NDCMP**

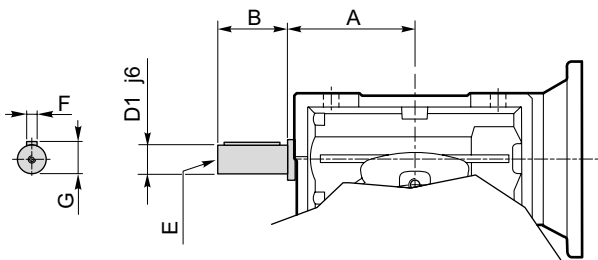
CMP	CMP.F									CMP.FB							CMP.FL								
	a1	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ
056/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125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



### Opzioni

### Options

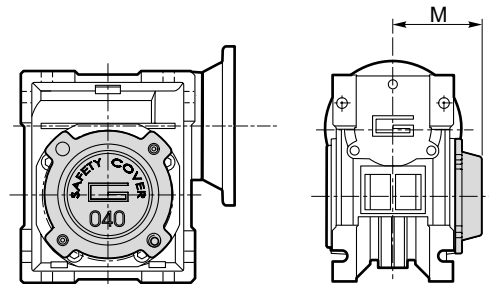
#### VS - Vite sporgente / Extended input shaft



CMP	A	B	D <sub>1</sub> 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



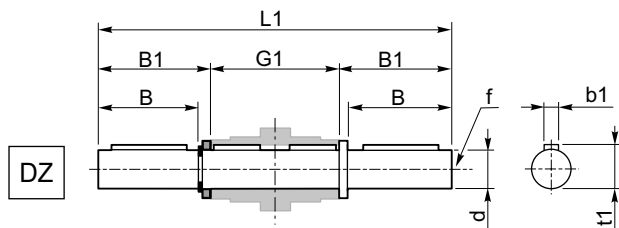
	M
CM 030	47
CM 040	54.5

### Accessori

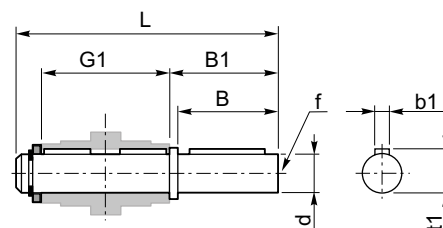
### Accessories

#### Albero lento semplice e doppio

#### Single and double output shaft



SZ

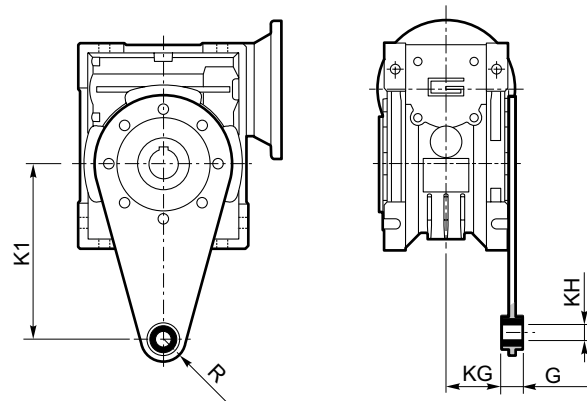


CMP	d h7	B	B1	G1	L	L1	f	b1	t1
056/030	14	30	32.5	63	102	128	M6	5	16
056/040	18	40	43	78	128	164	M6	6	20.5

### 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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