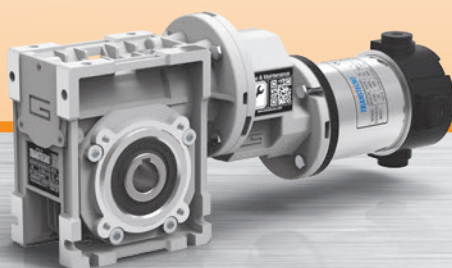
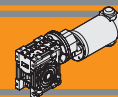


Motoriduttori CC a vite senza fine con precoppia  
DC pre stage wormgearmotors



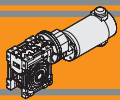




<b>Indice</b>	<b>Index</b>	Pag. Page
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Designazione	<i>Classification</i>	<b>BH2</b>
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Lubrificazione	<i>Lubrication</i>	<b>BH3</b>
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Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	<b>BH4</b>
Motori applicabili	<i>Motor adapters</i>	<b>BH5</b>
Dimensioni	<i>Dimensions</i>	<b>BH6</b>
Opzioni	<i>Options</i>	<b>BH13</b>
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Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet [www.transtecno.com](http://www.transtecno.com)**

*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. In this case the latest version is available on our web site [www.transtecno.com](http://www.transtecno.com)*



**Caratteristiche tecniche**

**Technical features**

I motoriduttori CC a vite senza fine con precoppia a magneti permanenti in neodimio **NDCMP** e in ferrite **ECMP** hanno le seguenti caratteristiche principali:

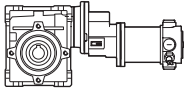
**NDCMP** neodymium permanent magnets and **ECMP** ferrite permanent magnets DC pre stage wormgearmotors range has the following main features:

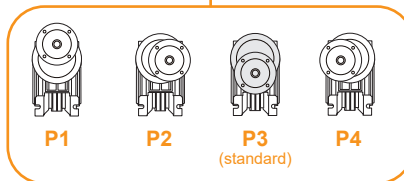
- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder e freno
- Potenze motore disponibili da 100 a 350W S2
- Carcasse dei riduttori in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico

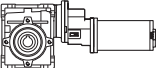
- Low voltage power supply 12/24 Vdc
- Suitable for encoder and brake assembly
- Motor power ratings available from 100 up to 350W S2
- Die-cast aluminum housings
- Permanent synthetic oil long-life lubrication.

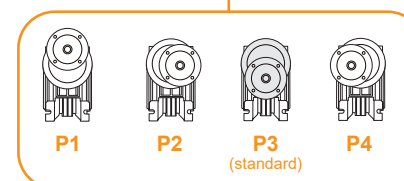
**Designazione**

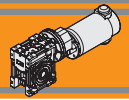
**Classification**

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	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
	120/056/040	180/056/040								



MOTORIDUTTORE / GEARMOTOR										
ECMP	070/056/030		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
	070/056/030	180/056/030	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	VS
	070/056/040	180/056/040							240	
	100/056/030	250/063/040							24E	
	100/056/040									





### Designazione

### Classification

Versione Riduttore Gearbox Version	Albero di uscita Output shaft	Braccio di reazione Torque arm *	Angolo Angle
<p><b>U</b>      <b>FD</b>      <b>FS</b> <b>FLD</b>      <b>FLS</b> <b>FBD</b>      <b>FBS</b></p>	<p><b>SZDX</b>      <b>SZSX</b>      <b>DZ</b></p>	<p><b>BRDX</b>      <b>BRSX</b></p>	<p>90°      90° 180°      0° 270°      270°</p>

\* 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 / Input speed	$M_2$ [Nm]	Coppia in uscita in funzione di $P_1$ / Output torque referred to $P_1$
$n_2$ [min <sup>-1</sup> ]	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

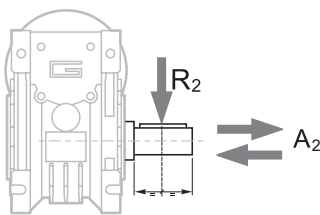
### Lubrication

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 positions.

### Carichi radiali

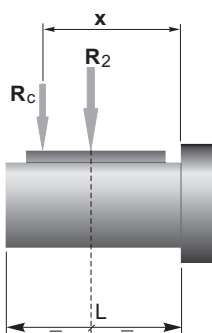
### Radial loads



$n_2$ [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:

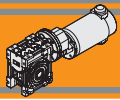


$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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




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






**Dati tecnici per servizio S2**

**NDCMP**

**Technical data for S2 duty**

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

$P_1$ [W]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		Versione motore Motor version
<b>250</b>						
(3000 min <sup>-1</sup> )	50	31	0.7	60		<b>180/056/030</b>
	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		<b>180/056/040</b>
	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		

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

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

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico

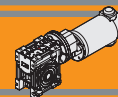
**NOTE:** for continuous or highly intermittent duty, please contact our technical service

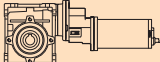
**Dati tecnici elettrici**

**Electrical technical data**

**ND 120** → 

**ND 180** → 


**Dati tecnici per servizio S2**
**ECMP**
**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
--------------	-------------------------------	---------------	----	---	---	----------------------------------

**100**

(3000 min <sup>-1</sup> )	50	13	1.7	60	<b>ECMP070/056/030</b>	12E/24E		
	40	16	1.4	75				
	33	17	1.6	90				
	25	22	1.1	120				
	20	25	0.9	150				
	50	14	3.2	60			<b>ECMP070/056/040</b>	12E/24E
	40	16	2.7	75				
	33	19	3.0	90				
	25	22	2.1	120				
	20	27	1.7	150				
17	30	1.4	180					
13	34	1.2	240					
10	38	0.9	300					

**250**

(3000 min <sup>-1</sup> )	50	33	0.7	60	<b>ECMP180/056/030</b>	120/240		
	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			<b>ECMP180/056/040</b>	120/240
	40	41	1.1	75				
	33	46	1.2	90				
	25	56	0.9	120				
	20	67	0.7	150				
17	61	0.7	180					
13	57	0.7	240					
10	51	0.7	300					
50	35	1.3	60	<b>ECMP180/063/040</b>	24E			
40	41	1.1	75					
33	46	1.2	90					
25	56	0.9	120					

**140**

(3000 min <sup>-1</sup> )	50	19	1.2	60	<b>ECMP100/056/030</b>	120/240/24E		
	40	22	1.0	75				
	33	24	1.1	90				
	25	30	0.8	120				
	20	31	0.7	150				
	50	19	2.3	60			<b>ECMP100/056/040</b>	120/240/24E
	40	23	1.9	75				
	33	26	2.2	90				
	25	31	1.5	120				
	20	37	1.2	150				
17	42	1.0	180					
13	48	0.8	240					
10	54	0.7	300					

**350**

(3000 min <sup>-1</sup> )	50	48	0.9	60	<b>ECMP250/063/040</b>	120/240
	40	57	0.8	75		
	33	65	0.9	90		
	25	69	0.7	120		

**NOTA**

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

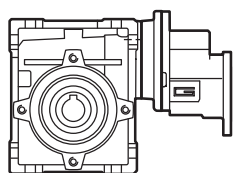
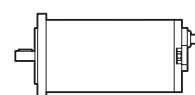
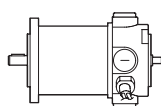
**NOTE**

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

**NOTA:** per servizio continuo o altamente intermittente, contattare il servizio tecnico

**NOTE:** for continuous or highly intermittent duty, please contact our technical service

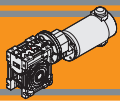
**Dati tecnici elettrici**
**Electrical technical data**

**Motori applicabili**
**Motor adapters**


		ND		EC					
		120.120 120.240	180.120 180.240	070.12E 070.24E	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240
<b>CMP</b>	056/030	150	150	150	150	150			
	056/040	300	300	300	300	300			
	063/040						120	120	120

150

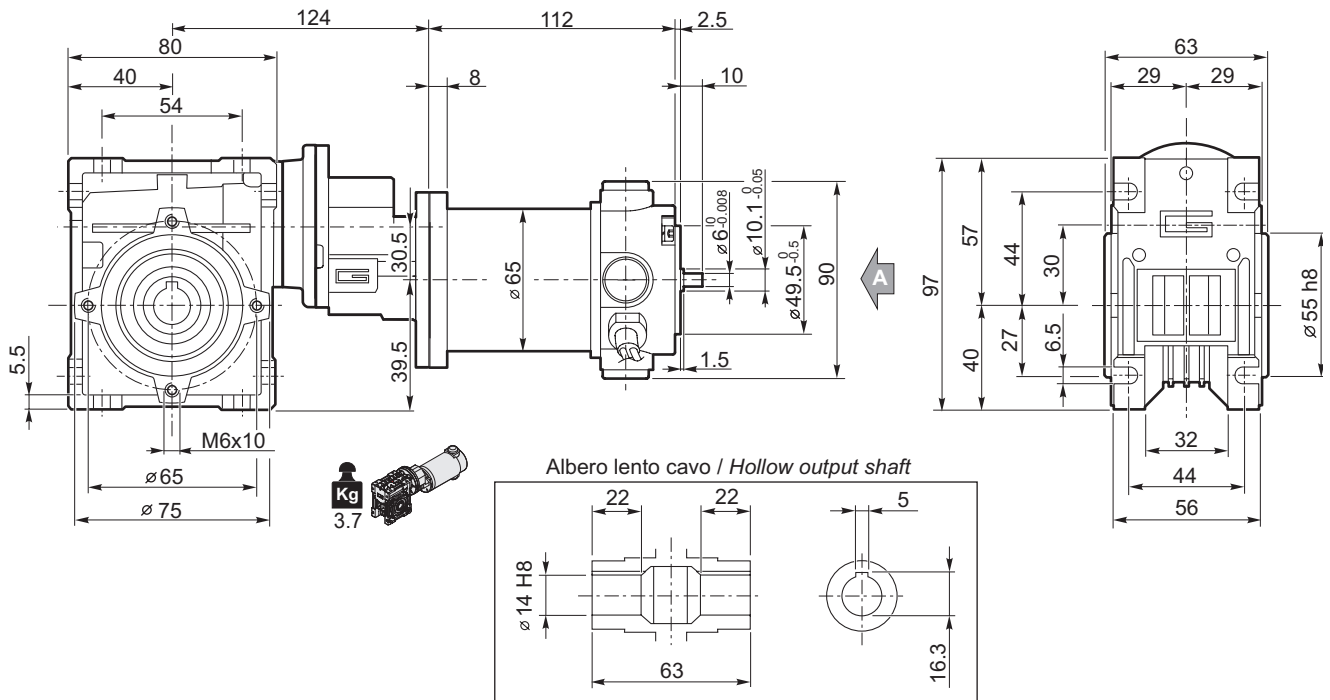
Rapporto di riduzione massimo  $i_{max}$   
Maximum ratio  $i_{max}$



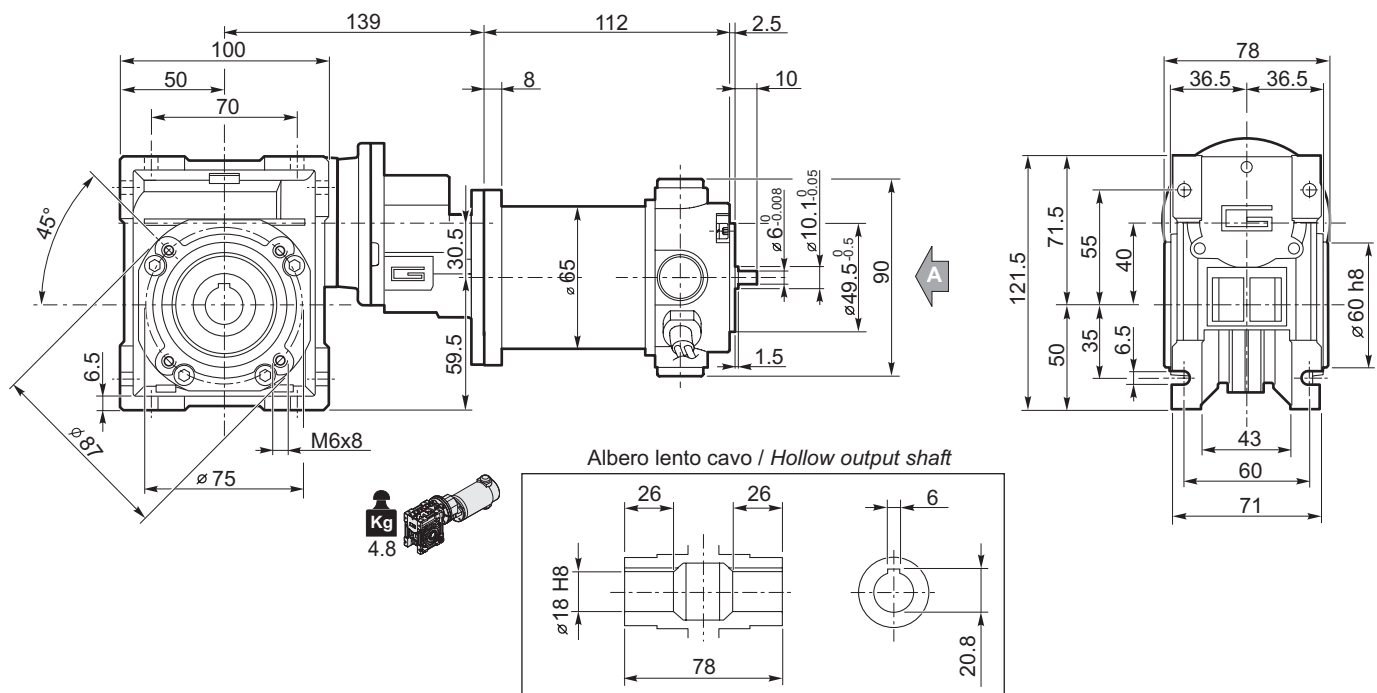
**Dimensioni**

**Dimensions**

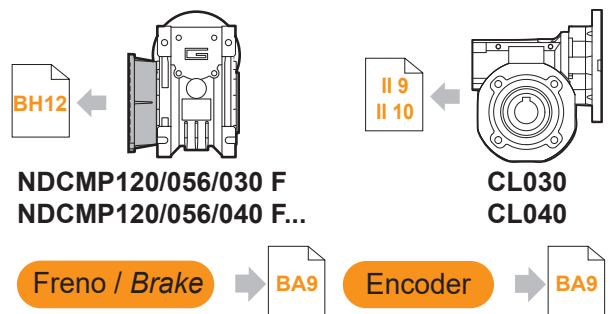
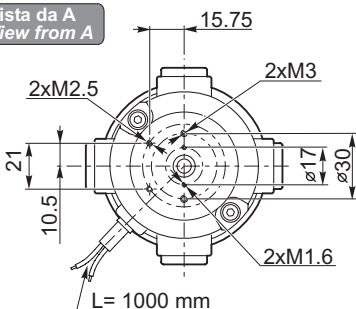
**NDCMP120/056/030 U**



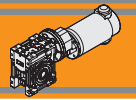
**NDCMP120/056/040 U**



Vista da A  
View from A



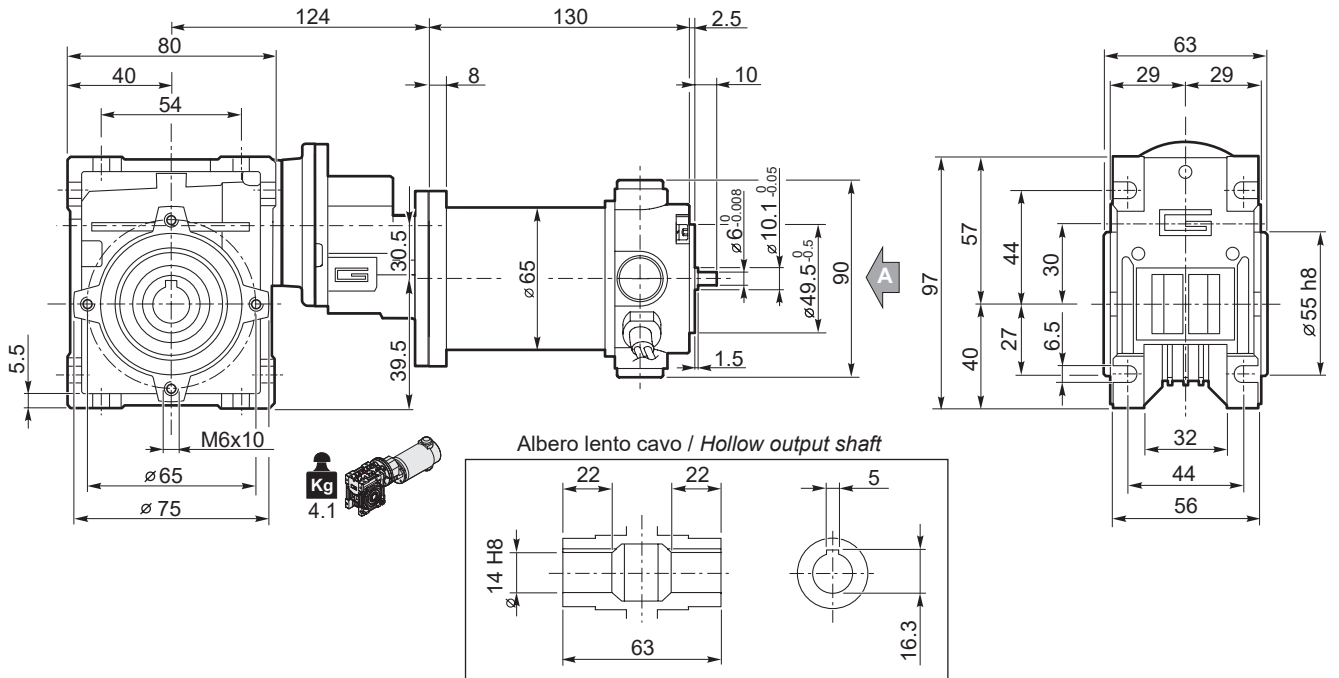




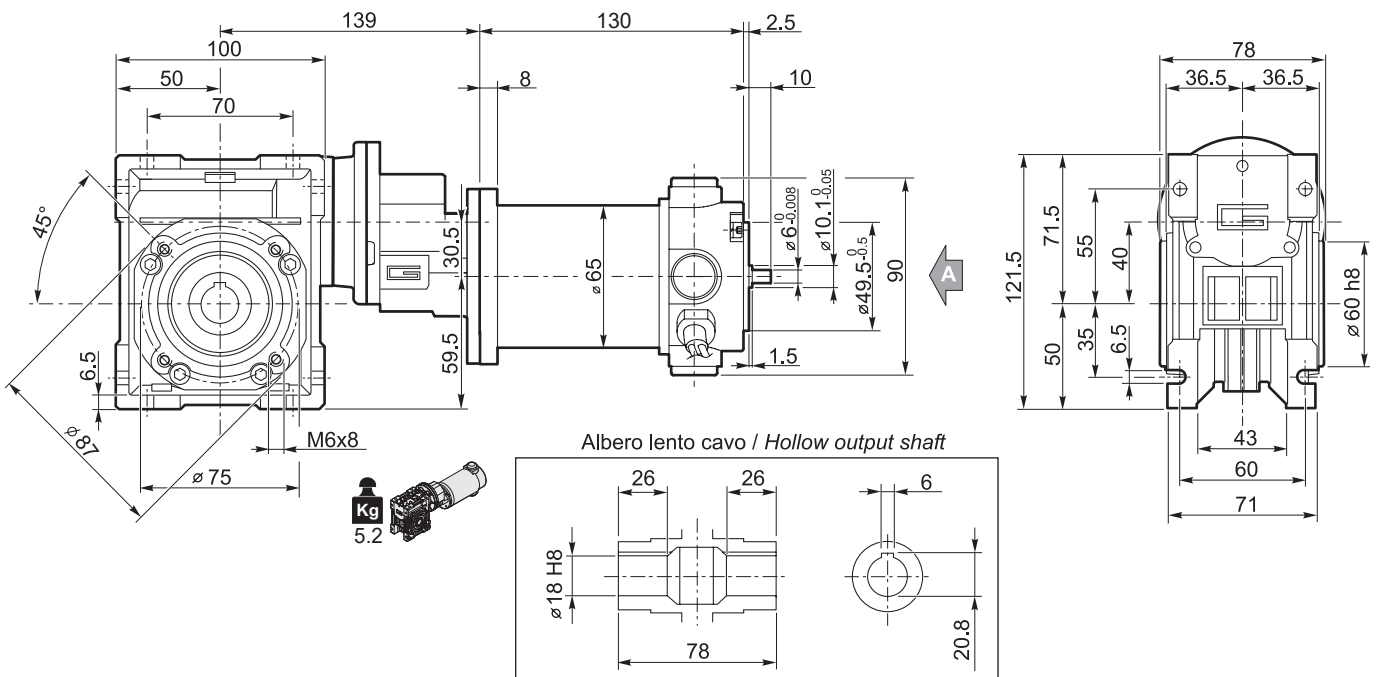
Dimensioni

Dimensions

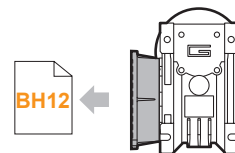
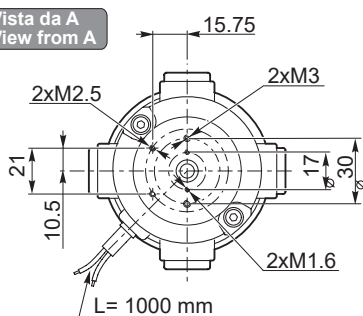
**NDCMP180/056/030 U**



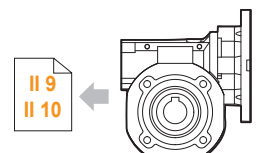
**NDCMP180/056/040 U**



Vista da A  
View from A



NDCMP180/056/030 F  
NDCMP180/056/040 F..



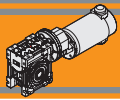
CL030  
CL040

Freno / Brake



Encoder

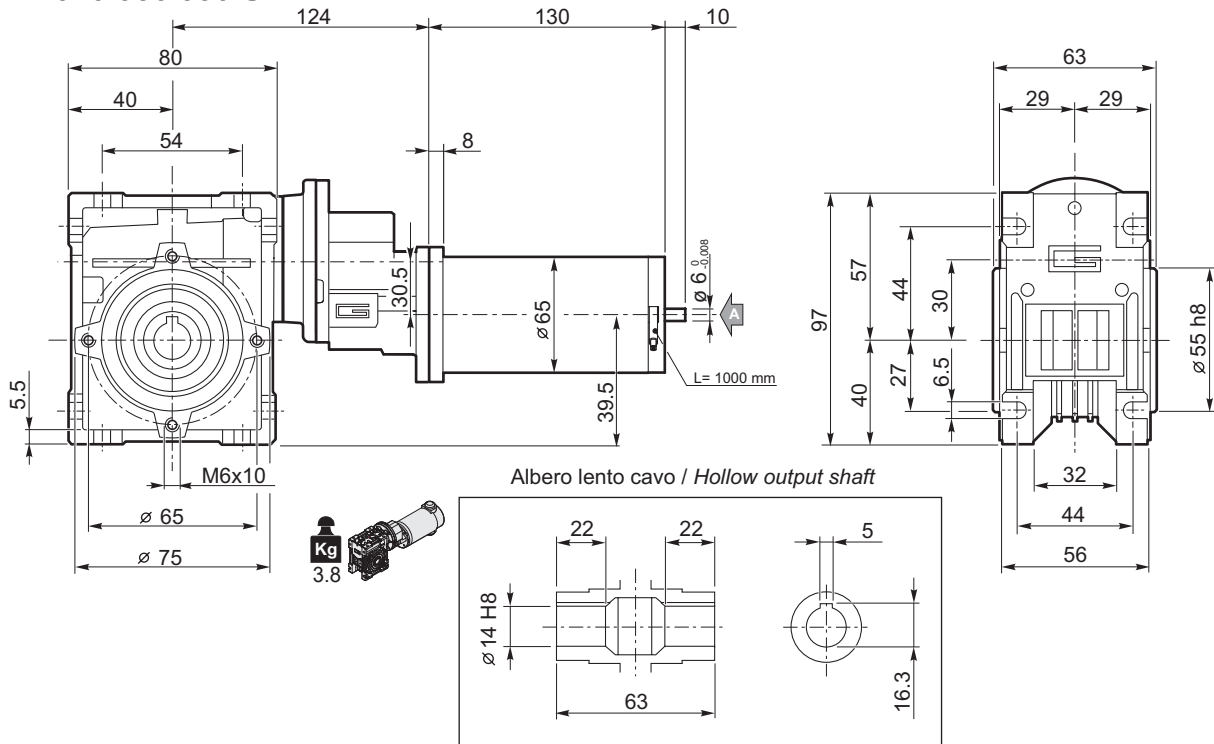




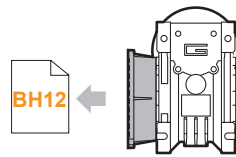
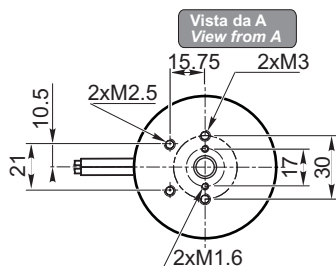
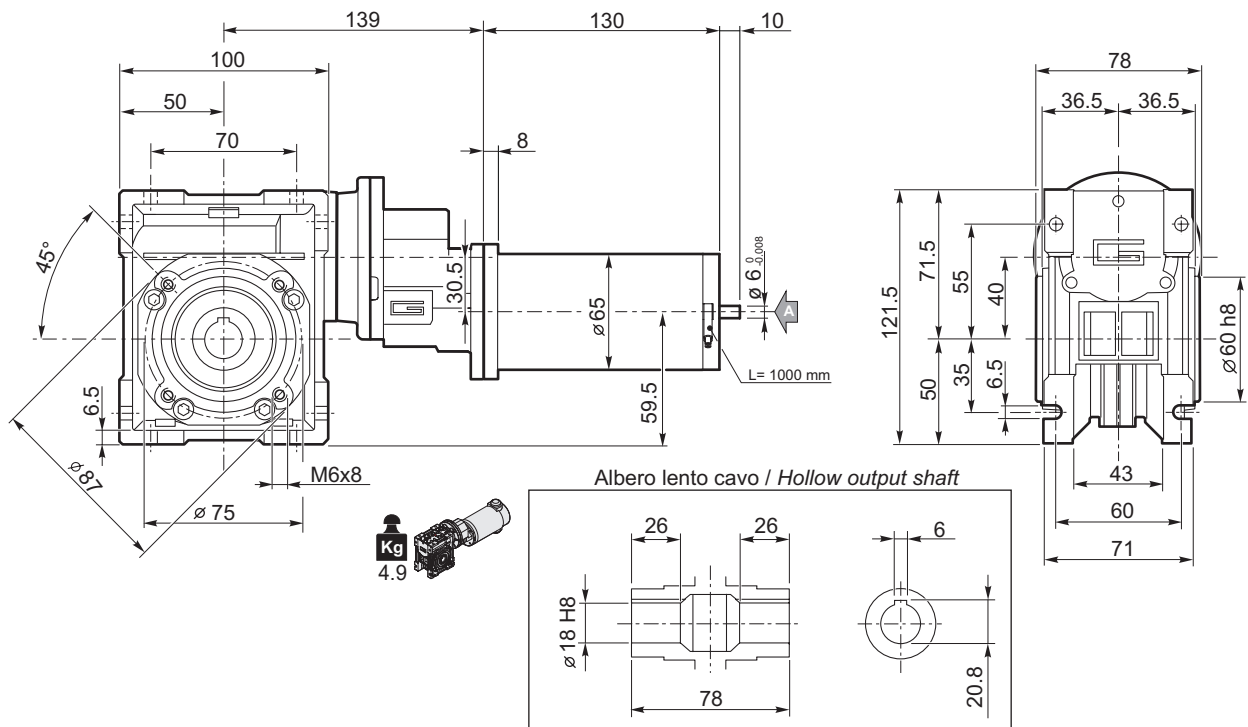
### Dimensioni

### Dimensions

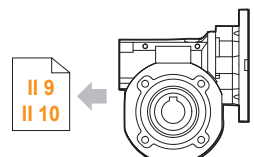
#### ECMP070/056/030 U



#### ECMP070/056/040 U



ECMP070/056/030 F  
ECMP070/056/040 F..



CL030  
CL040

Motori / Motors IP66

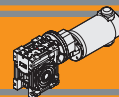


Freno / Brake



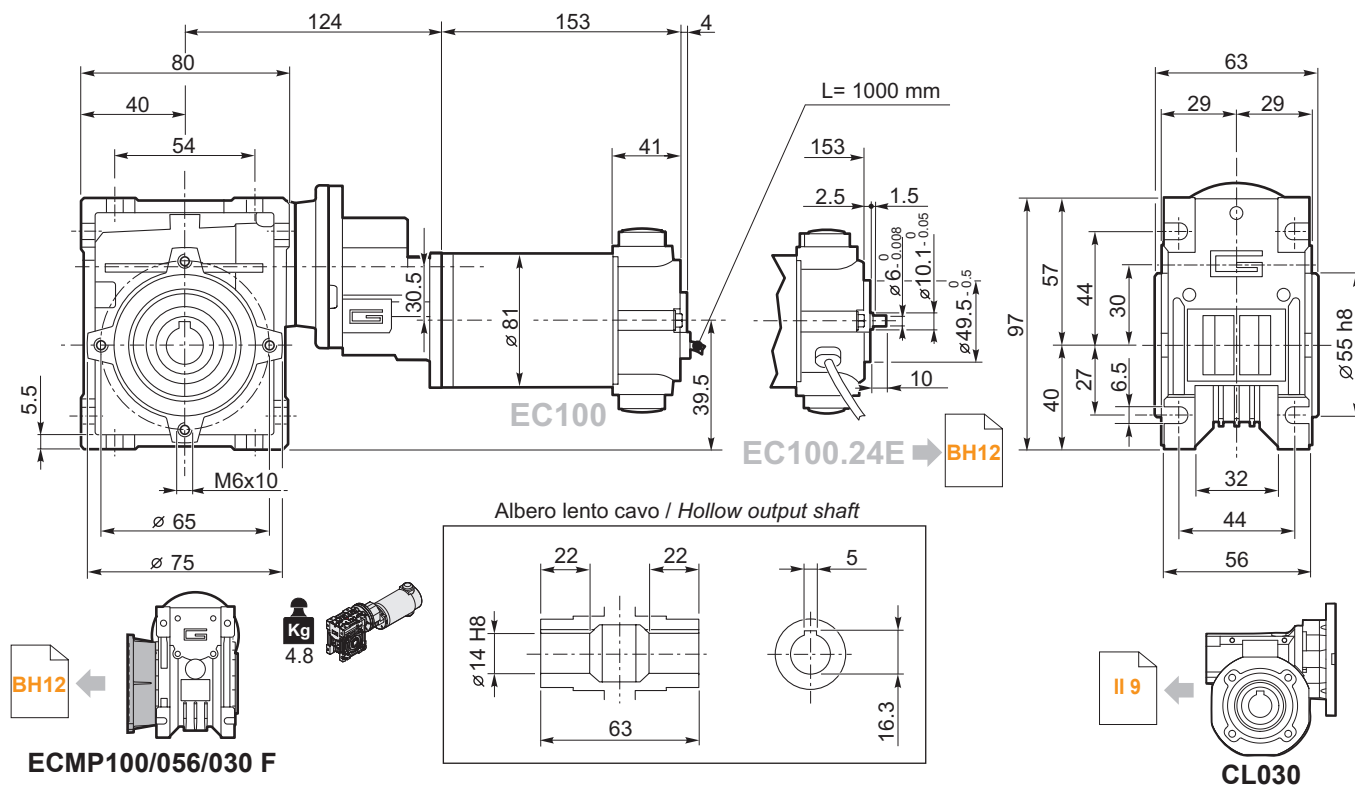
Encoder





## Dimensioni

## Dimensions

**ECMP100/056/030 U**

Motori / Motors IP66

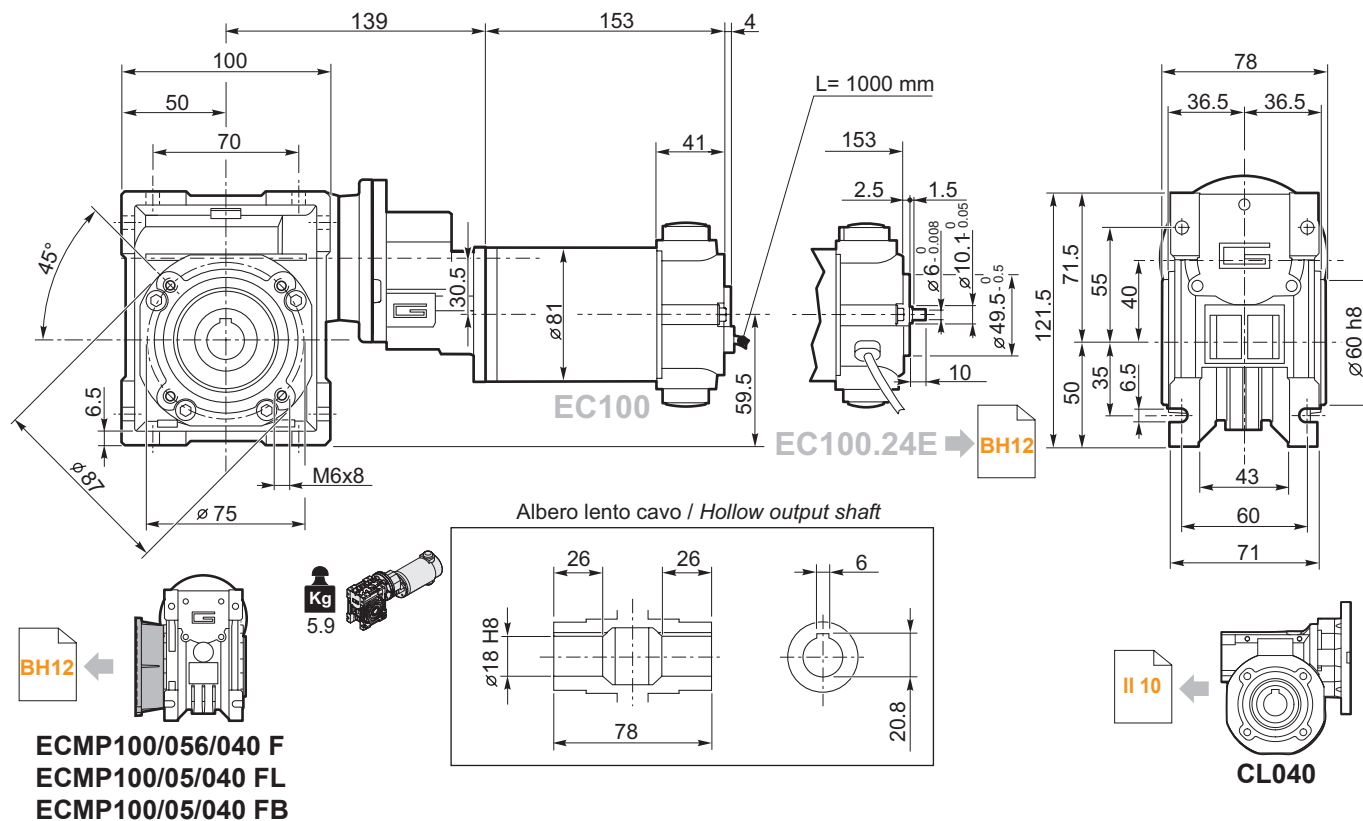
BC4

Freno / Brake

BB23

Encoder

BB24

**ECMP100/056/040 U**

Motori / Motors IP66

BC4

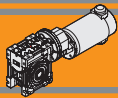
Freno / Brake

BB23

Encoder

BB24

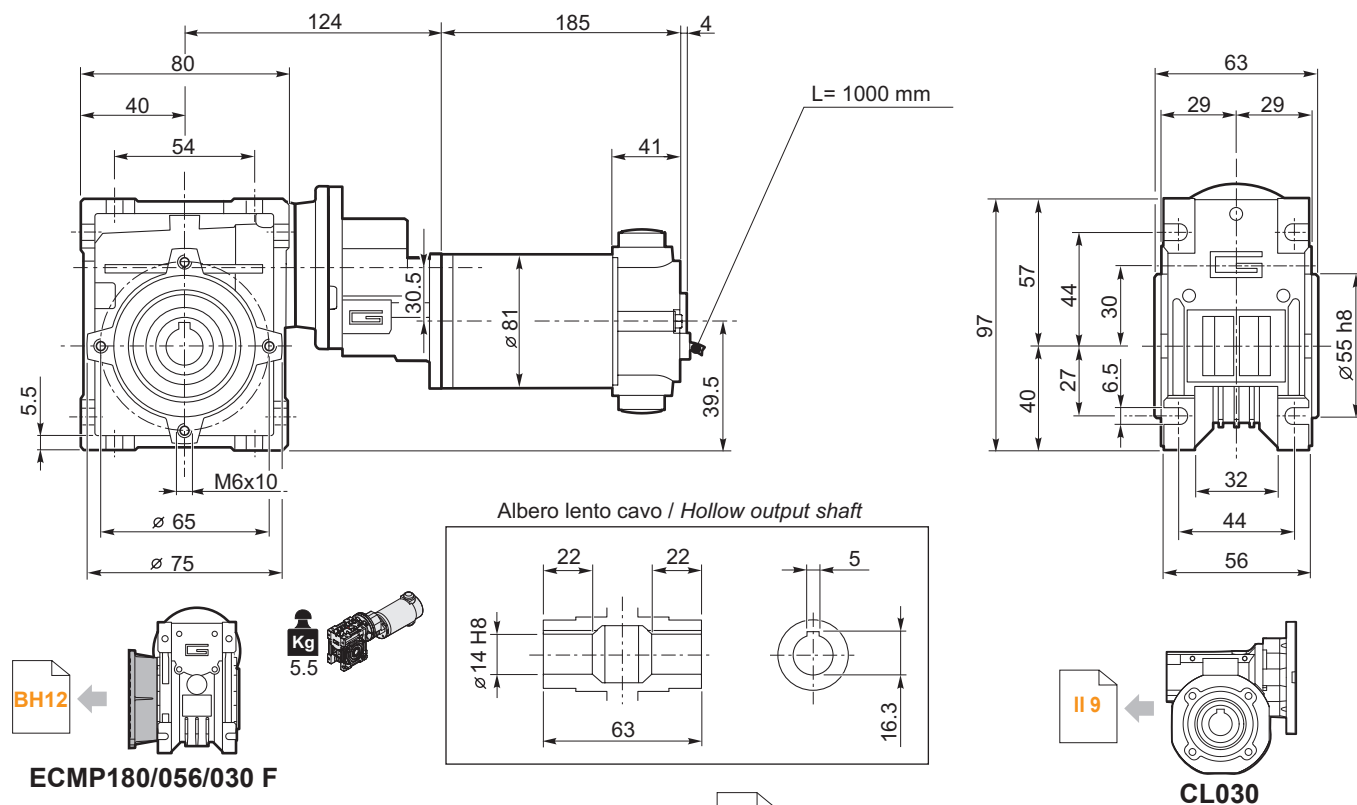
DC



## Dimensioni

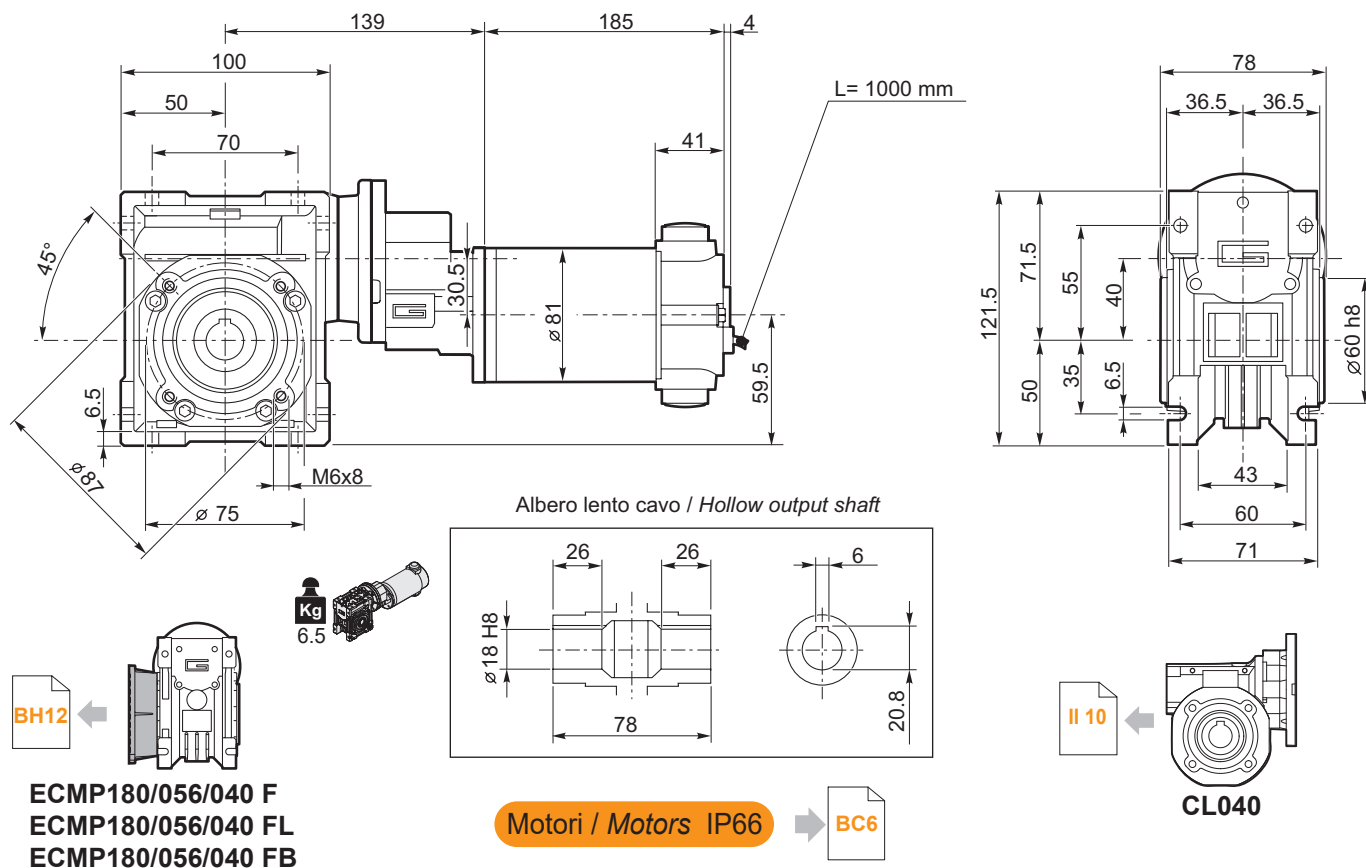
## Dimensions

### ECMP180/056/030 U



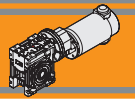
Motori / Motors IP66 → BC6

### ECMP180/056/040 U



Motori / Motors IP66 → BC6

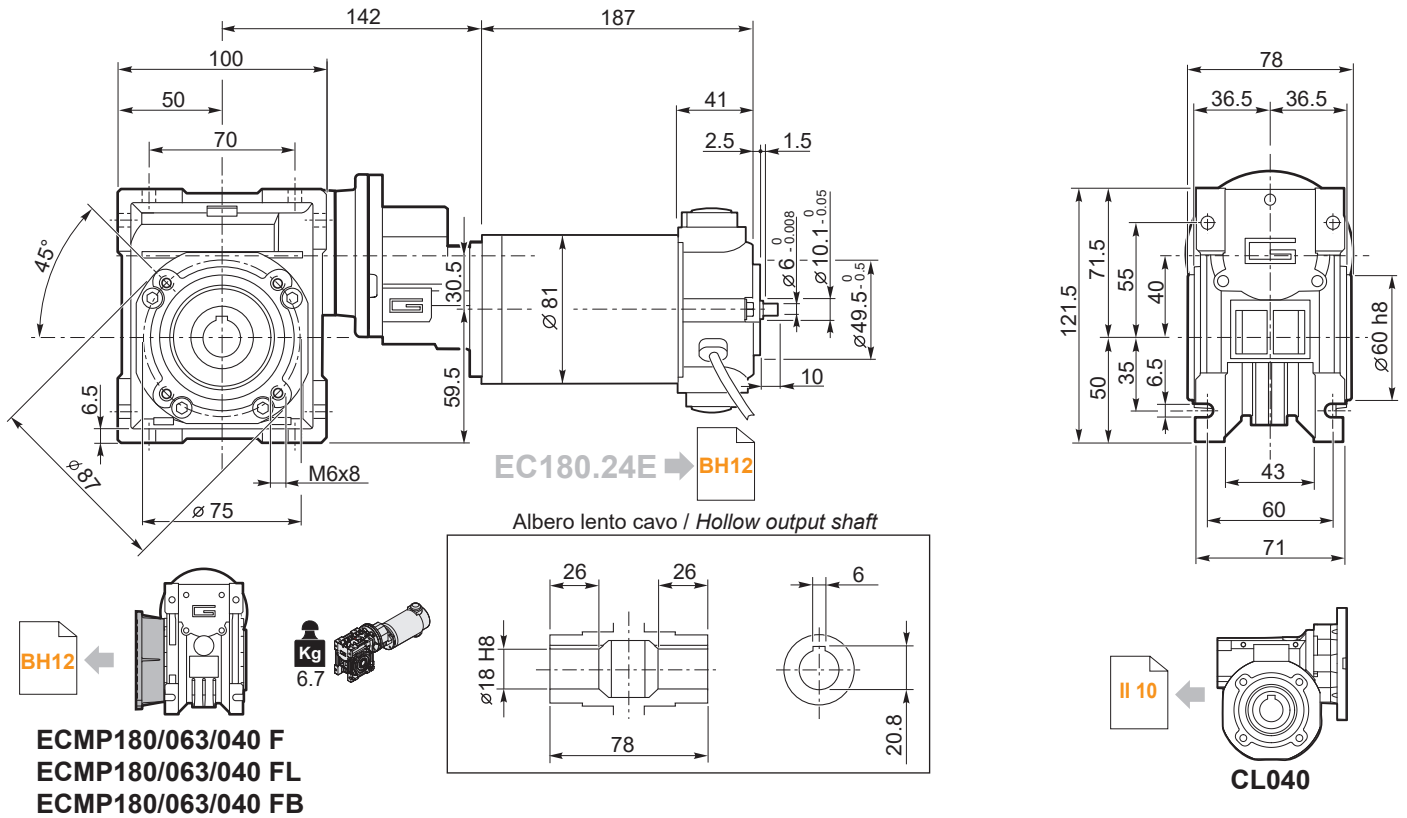
ECMP180/056/040 F  
ECMP180/056/040 FL  
ECMP180/056/040 FB



Dimensioni

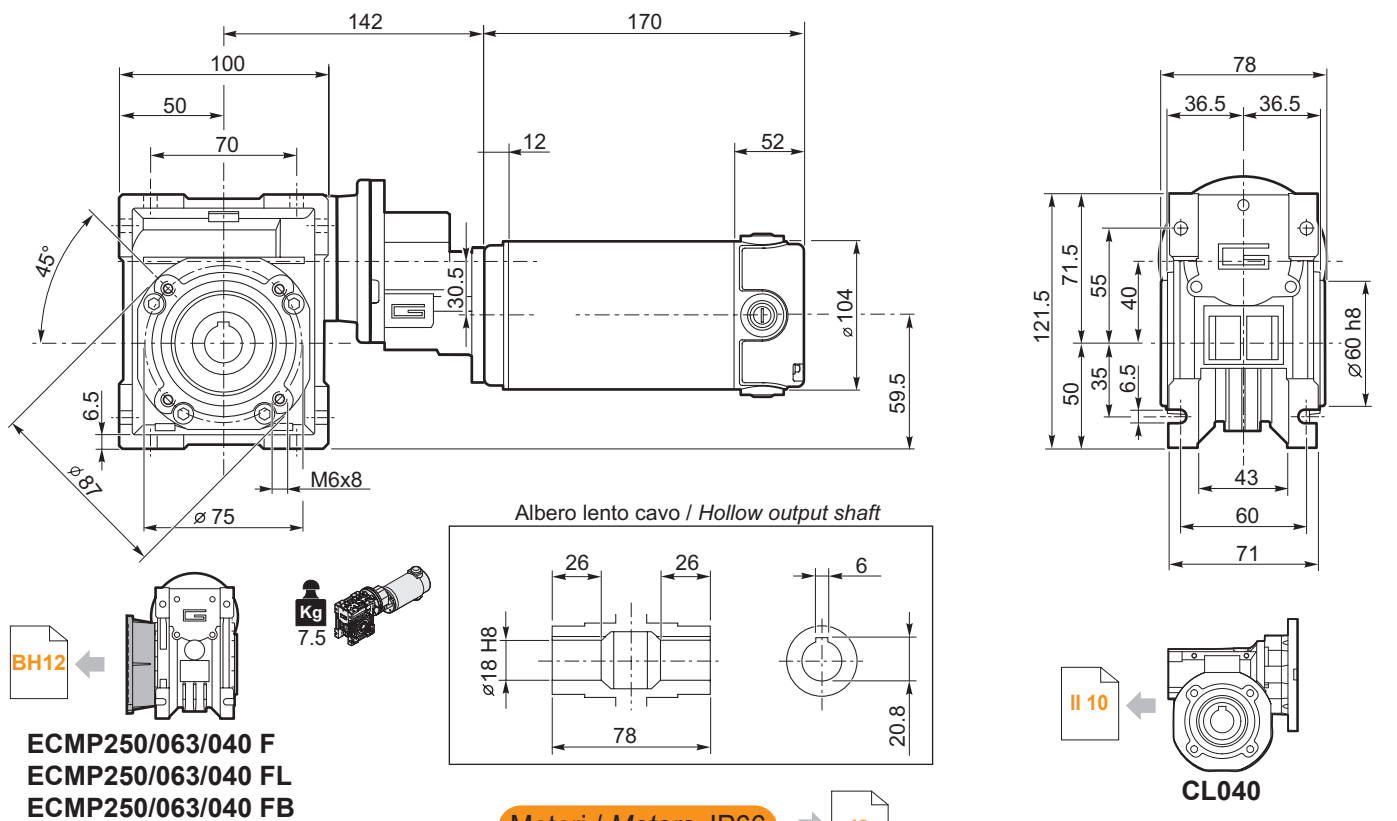
Dimensions

ECMP180/063/040 U



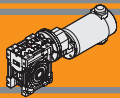
Motori / Motors IP66 → BC6    Freno / Brake → BB23    Encoder → BB24

ECMP250/063/040 U



Motori / Motors IP66 → I8

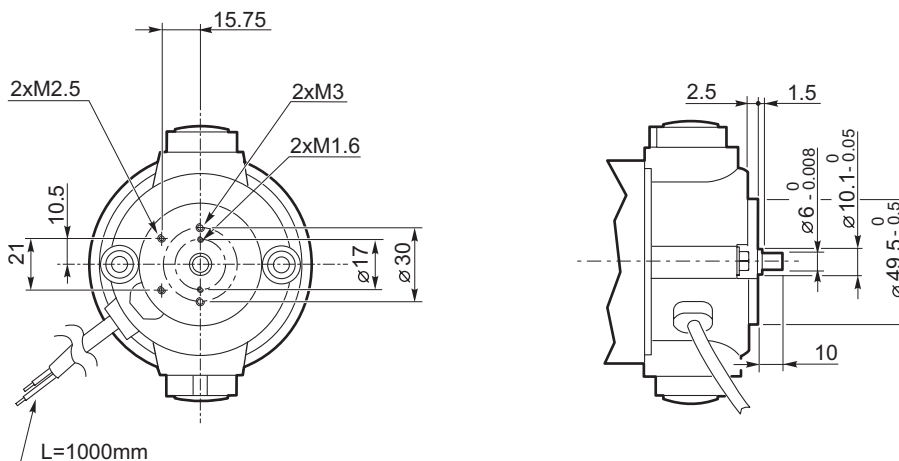
DC



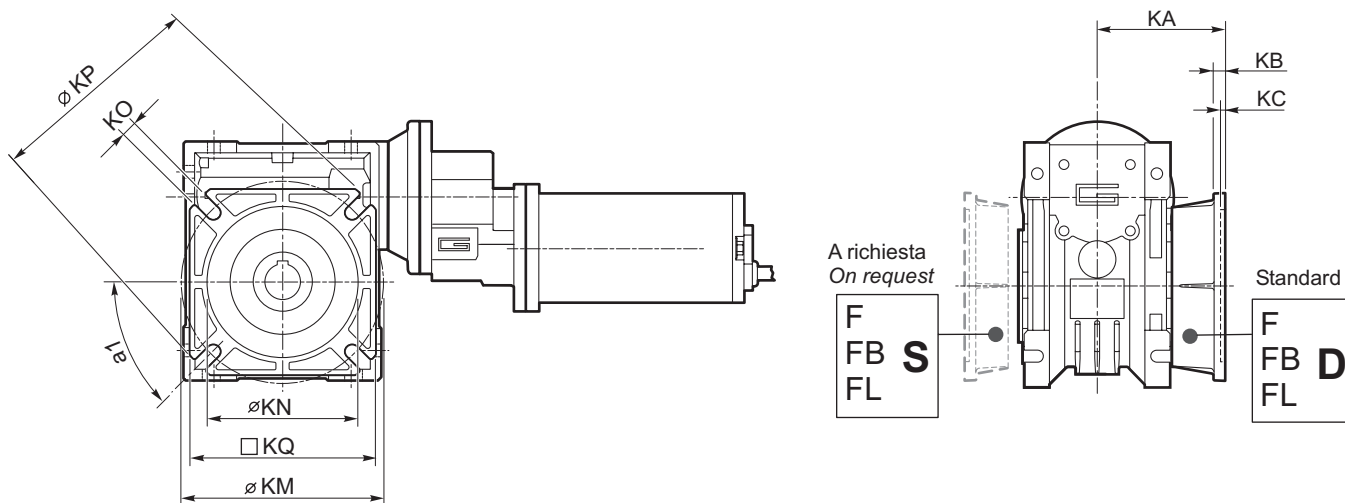
**Dimensioni**

**Dimensions**

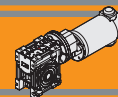
**EC100.24E  
EC180.24E**



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



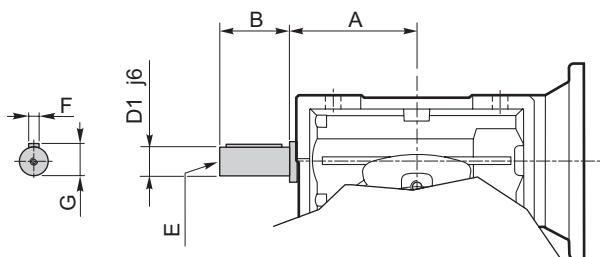
CMP	CMP..F								CMP..FB							CMP..FL									
	a1	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ	KA	KB	KC	KM	KN <sub>H8</sub>	KO	KP	KQ
056/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040 063/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(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
056/040 063/040	53	23	11	M5	4	12.5

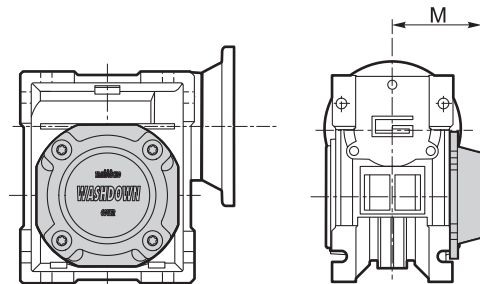
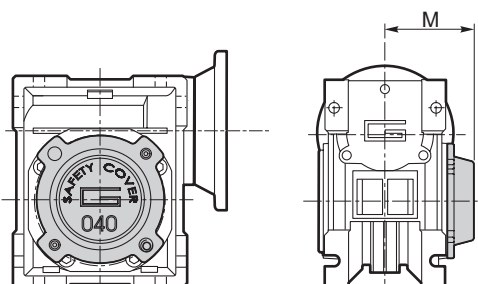
Costruito su richiesta  
Built on request

Accessori

Accessories

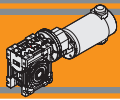
**SC - Safety cover**

**WD - Kit washdown cover**



	M
CM 030	47
CM 040	54.5

	M
CM 030	48
CM 040	55.5



**Accessori**

**Accessories**

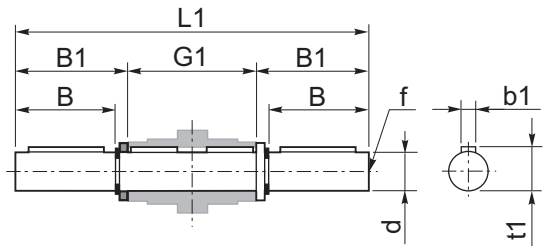
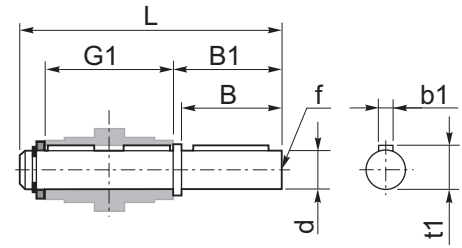
**Albero lento semplice e doppio**

**Single and double output shaft**

CMP	d <sub>h7</sub>	B	B1	G1	L	L1	f	b1	t1
056/030	14	30	32.5	63	102	128	M6	5	16
056/040 063/040	18	40	43	78	128	164	M6	6	20.5

SZ

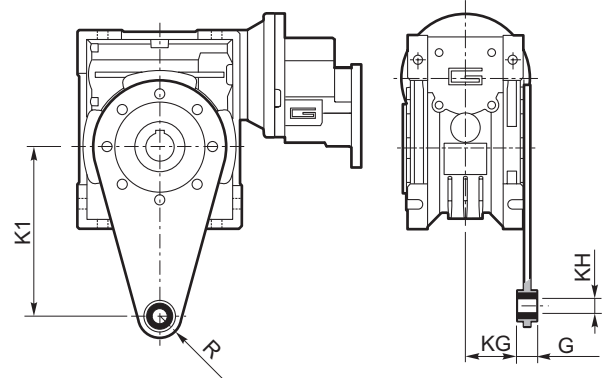
DZ



**Braccio di reazione**

**Torque arm**

CMP	K1	G	KG	KH	R
056/030	85	14	23	8	15
056/040 063/040	100	14	31	10	18





 **TRANSTECNO SRL  
HEADQUARTERS**

Company subject to the management  
and coordination of INTERPUMP GROUP SPA  
Via Caduti di Sabbiano, 11/D-E  
40011 Anzola dell'Emilia (BO)  
ITALY  
T+39 051 64 25 811  
F +39 051 73 49 43  
sales@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

**TRANSTECNO®**  
the modular gearmotor

MEMBER OF INTERPUMP GROUP



 **HANGZHOU TRANSTECNO POWER  
TRANSMISSIONS CO LTD**  
No.4 Xiuyan Road Fengdu Industry Zone  
Pingyao Town Yuhang District  
Hangzhou City, Zhejiang Province  
311115 - CHINA  
T +86 571 86 92 02 60  
F +86 571 86 92 18 10  
info-china@transtecno.cn  
[www.transtecno.cn](http://www.transtecno.cn)

 **MA TRANSTECNO S.A.P.I. DE C.V.**  
Av. Mundial # 176, Parque Industrial  
JM Apodaca, Nuevo León,  
C.P. 66600 - MEXICO  
T +52 8113340920  
info@transtecno.com.mx  
[www.transtecno.com.mx](http://www.transtecno.com.mx)

 **TRANSTECNO IBÉRICA  
THE MODULAR GEARMOTOR, S.A.**  
Carrer de la Ciència, 45  
08840 Viladecans (Barcelona) - SPAIN  
T +34 931 598 950  
info@transtecno.es  
[www.transtecno.es](http://www.transtecno.es)

 **TRANSTECNO B.V.**  
Siliciumweg 32  
3812 SX Amersfoort - NETHERLANDS  
T +31(0) 33 45 19 505  
F +31(0) 33 45 19 506  
info@transtecno.nl  
[www.transtecno.nl](http://www.transtecno.nl)

 **TRANSTECNO AANDRIJFTECHNIEK B.V.**  
Siliciumweg 32  
3812 SX Amersfoort - NETHERLANDS  
T +31 (0) 33 20 4 7 006  
info@transtecnoaandrijftechnik.nl  
[www.transtecnoaandrijftechnik.nl](http://www.transtecnoaandrijftechnik.nl)

 **TRANSTECNO USA**  
8 Creek Parkway,  
Boothwyn PA 19061-8136 - UNITED STATES  
T +1 (610) 4970154  
F +1 (610) 497 6085

**TRANSTECNO USA – WEST COAST BRANCH**  
14561 Fryelands Blvd SE  
Monroe, WA 98272 - UNITED STATES  
T +1 360-863-1300  
F +1 360-863-1303  
usaoffice@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

 **TRANSTECNO CANADA**  
51 B Caldari Road Unit 10  
Vaughan, ON L4K 4G3 - CANADA  
T +1 905 761 0762  
F +1 905 761 9265  
canadaoffice@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

 **TRANSTECNO CHILE-PERU**  
Av. Los Libertadores 41  
Parque Industrial - Los Libertadores 16.500  
Santiago, Colina - CHILE  
T +56 2 29633870

Carretera Panamericana Sur KM 29.5,  
Interior I-3, Z.I. Lurin - PERU  
T +51 1 3546259 / + 51 1 3434231  
chileoffice@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

 **TRANSTECNO INDIA**  
#6A, Sipcot Industrial complex, Phase-1, Elasagiri Road  
Hosur - 635126 Tamilnadu - INDIA  
T +91 4344 274434  
M +91 81443 88800

**TRANSTECNO INDIA – NORTH BRANCH**  
Plot No: 3 A, Sector 2, IIE, Sidcul, Pantnagar  
U.S. Nagar, Uttarakhand – 263153 - INDIA  
indiaoffice@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

 **SALES OFFICE BRAZIL**  
Rua Dr. Freire Alemão 155 / 402 - CEP. 90450-060  
Auxiliadora Porto Alegre RS - BRAZIL  
T +55 51 3251 5447  
F +55 51 3251 5447  
M +55 51 811 45 962  
braziloffice@transtecno.com  
[www.transtecno.com.br](http://www.transtecno.com.br)

 **SALES OFFICE OCEANIA**  
Unit 5, 12 Nyholt Drive, Yatala 4207  
Queensland - AUSTRALIA  
T +61 07 3800 0103  
M +61 04 38060997  
oceaniaoffice@transtecno.com  
[www.transtecno.com.au](http://www.transtecno.com.au)

 **SALES OFFICE SOUTH KOREA**  
772-41, Bongdong-ro, Bongdong-eup, Wanju-goon  
Chonbuk, 55313  
SOUTH KOREA  
T +82 70 8867 8897  
F +82 504 199 2107  
M +82 10 5094 2107  
koreaoffice@transtecno.com  
[www.transtecno.com](http://www.transtecno.com)

[www.minitecno.com](http://www.minitecno.com)  
[www.transtecno.com](http://www.transtecno.com)