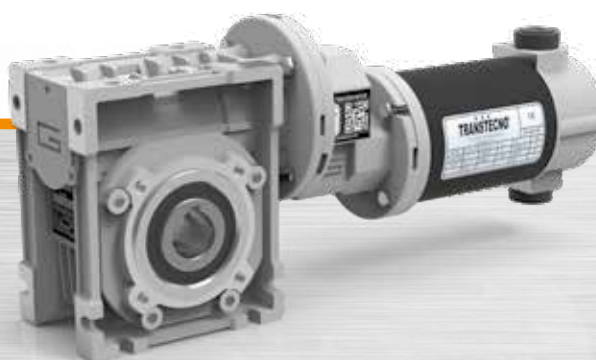
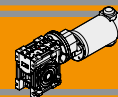




Ferrite

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

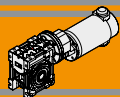




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	P2
Designazione	<i>Classification</i>	P2
Simbologia	<i>Symbols</i>	P3
Lubrificazione	<i>Lubrication</i>	P3
Carichi radiali	<i>Radial loads</i>	P3
Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	P4
Motori applicabili	<i>Motor adapters</i>	P5
Dimensioni	<i>Dimensions</i>	P6
Opzioni	<i>Options</i>	P19
Accessori	<i>Accessories</i>	P19

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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

**ECMP****Motoriduttori CC a vite senza fine con precoppia**
DC Pre stage wormgearmotors**Caratteristiche tecniche****Technical features**

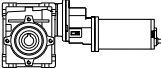
Le caratteristiche principali dei motoriduttori CC a vite senza fine con precoppia a magneti permanenti in ferrite serie ECMP sono:

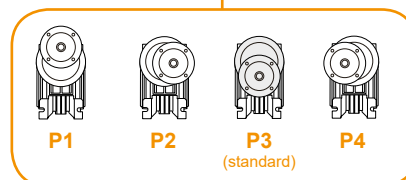
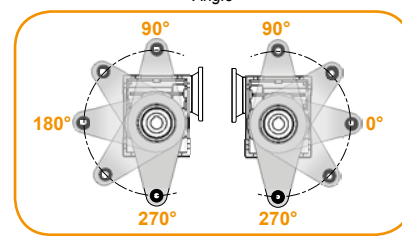
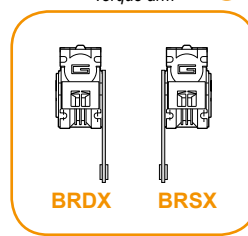
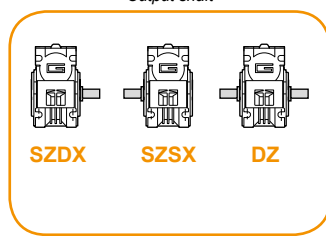
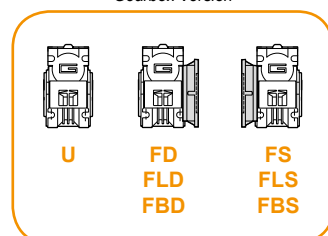
The main features of ECMP ferrite permanent magnets DC pre stage wormgearmotors range are:

- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 100 a 800W S2
- Magneti in ferrite
- Sia le carcasse dei riduttori a vite senza fine che delle precoppie sono in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico

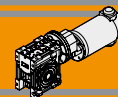
- Low voltage power supply 12/24 Vdc
- Suitable for encoder assembly
- Motor power ratings available from 100 up to 800W S2
- Ferrite magnets
- Die-cast aluminum housing on pre-stage and wormgearboxes
- Permanent synthetic oil long-life lubrication.

Designazione**Classification**

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 montag- gio precoppia Pre stage mounting position	Versione Motore Motor Version	Opzioni Options	
	ECMP	070/056/030	180/056/030	350/063/050	600/071/050	U	Vedere tabella	SZDX	BRDX	0°	P1	120	VS	
		070/056/040	180/056/040	350/063/063	600/071/063	FD		SZSX	BRSX	90°	P2			
			180/063/050	350/071/063	600/071/070	FS	DZ		180°	P3 (standard)	240			
			180/063/063	350/071/070	600/071/075	FLD								
		100/056/030		350/071/075		FLS								24E
		100/056/040	250/063/040			FBD								
		100/063/050	250/063/050			FBS								
		250/063/063												

Versione Riduttore
Gearbox VersionAlbero di uscita
Output shaftBraccio 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 / <i>Input speed</i>
n_2	[min ⁻¹]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>

M_2	[Nm]	Coppia in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
sf		Fattore di servizio / <i>Service factor</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

Lubrificazione

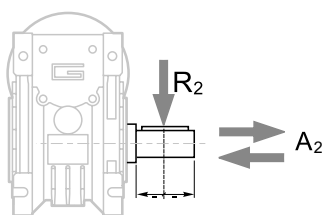
Lubrication

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 positions.

Carichi radiali

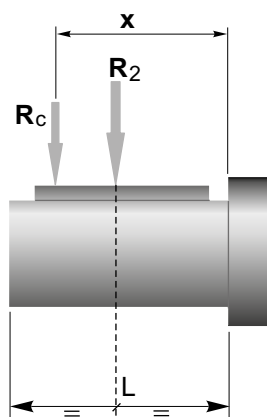
Radial loads



n_2 [min ⁻¹]	R_2 [N]					
	CM030	CM040	CM050	CM063	CM070	CM075
35	1179	2210	3095	4273	4568	4937
28	1270	2381	3334	4603	4921	5318
23	1356	2542	3559	4915	5254	5678
18	1471	2759	3862	5334	5702	6162
14	1600	3000	4200	5800	6200	6700

Quando il carico radiale risultante non è applicato sulla mezzera 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:

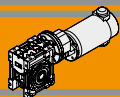


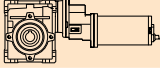
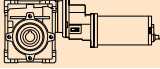
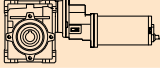
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

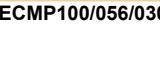
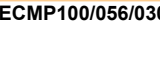
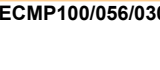
$$R \leq R_c$$

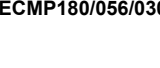
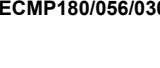
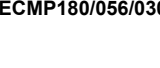
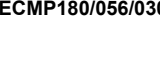
a, b = valori riportati nella tabella
 a, b = values given in the table

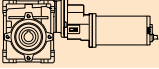
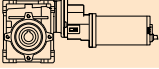
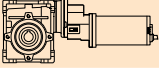
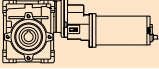
	CM					
	030	040	050	063	070	075
a	65	84	101	120	122	131
b	50	64	76	95	92	101
R_{2MAX}	1600	3000	4200	5800	6200	6700

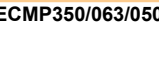
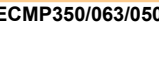
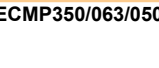
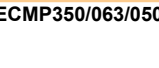
**ECMP****Motoriduttori CC a vite senza fine con precoppia**
DC Pre stage wormgearmotors**Dati tecnici per servizio S2****Technical data for S2 duty**

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
100						
(3000 min ⁻¹)	50	13	1.7	60		ECMP070/056/030
	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		ECMP070/056/040
	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		

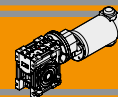
140						
(3000 min ⁻¹)	50	19	1.2	60		ECMP100/056/030
	40	22	1.0	75		
	33	24	1.1	90		
	25	30	0.8	120		
	20	31	0.7	150		
	50	19	2.3	60		ECMP100/056/040
	40	23	1.9	75		
	33	26	2.2	90		
	25	31	1.5	120		
	20	37	1.2	150		
	17	42	1.0	180		
	13	48	0.8	240		
	10	54	0.7	300		
	50	20	4.1	60		ECMP100/063/050
	40	24	3.2	75		
	33	27	3.7	90		
	25	32	2.6	120		
	20	39	2.1	150		
	17	43	1.8	180		
	13	50	1.4	240		

250						
(3000 min ⁻¹)	50	33	0.7	60		ECMP180/056/030
	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		ECMP180/056/040
	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	2.3	60		ECMP180/063/050
	40	42	1.8	75		
	33	48	2.1	90		
	25	58	1.5	120		
	20	69	1.2	150		
	17	77	1.0	180		
	13	90	0.8	240		
	50	37	4.2	60		ECMP180/063/063
	40	44	3.1	75		
	33	49	3.8	90		
	25	61	2.6	120		
	20	71	2.1	150		
	17	81	1.7	180		
	13	97	1.3	240		
	10	110	1.1	300		

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
350						
(3000 min ⁻¹)	50	48	0.9	60		ECMP250/063/040
	40	57	0.8	75		
	33	65	0.9	90		
	25	69	0.7	120		
	50	49	1.6	60		ECMP250/063/050
	40	59	1.3	75		
	33	67	1.5	90		
	25	81	1.0	120		
	20	97	0.8	150		
	17	108	0.7	180		
	13	99	0.7	240		
	50	51	3.0	60		ECMP250/063/063
	40	61	2.2	75		
	33	69	2.7	90		
	25	85	1.9	120		
	20	100	1.5	150		
	17	114	1.2	180		
	13	136	0.9	240		
	10	154	0.8	300		

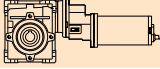
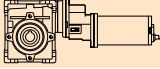
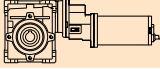
500						
(3000 min ⁻¹)	50	70	1.1	60		ECMP350/063/050
	40	84	0.9	75		
	33	95	1.0	90		
	25	116	0.7	120		
	20	116	0.7	150		
	17	109	0.7	180		ECMP350/063/063
	13	99	0.7	240		
	50	73	2.1	60		ECMP350/071/063
	40	88	1.6	75		
	33	98	1.9	90		
	25	122	1.3	120		
	20	143	1.1	150		
	17	163	0.9	180		ECMP350/071/070
	13	195	0.7	240		
	10	174	0.7	300		
	50	73	2.1	60		ECMP350/071/075
	40	88	1.6	75		
	33	98	1.9	90		
	25	122	1.3	120		
	20	143	1.1	150		
	17	163	0.9	180		ECMP350/071/075
	13	195	0.7	240		
	10	174	0.7	300		
	50	75	3.7	60		ECMP350/071/075
	40	90	2.7	75		
	33	102	3.2	90		
	25	127	2.3	120		
	20	150	1.7	150		
	17	168	1.5	180		
	13	206	1.1	240		
	10	234	0.9	300		

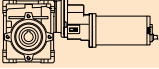
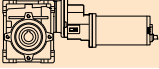
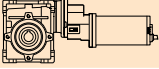
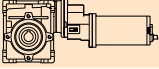
NOTAVerificare sempre che la coppia M₂ utilizzata non ecceda il valore indicato nelle caselle in grigio**NOTE**Please check that the output torque M₂ does not exceed the value in the grey areas



Dati tecnici per servizio S2

Technical data for S2 duty

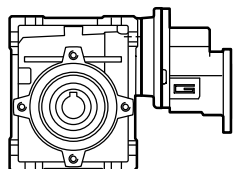
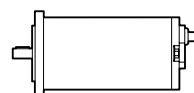
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
800						
(3000 min ⁻¹)	50	112	0.7	60		ECMP600/071/050
	40	107	0.7	75		
	33	141	0.7	90		
	50	117	1.3	60		ECMP600/071/063
	40	140	1.0	75		
	33	157	1.2	90		
	25	195	0.8	120		
	20	228	0.7	150		
	17	203	0.7	180		

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
800						
(3000 min ⁻¹)	50	118	1.9	60		ECMP600/071/070
	40	144	1.4	75		
	33	162	1.7	90		
	25	201	1.2	120		ECMP600/071/075
	20	236	0.9	150		
	17	270	0.8	180		
	50	118	2.3	60		
	40	144	1.7	75		
	33	164	2.0	90		
	25	204	1.4	120		ECMP600/071/075
	20	240	1.1	150		
	17	270	0.9	180		
	13	329	0.7	240		
	10	293	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

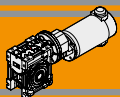
Motor adapters



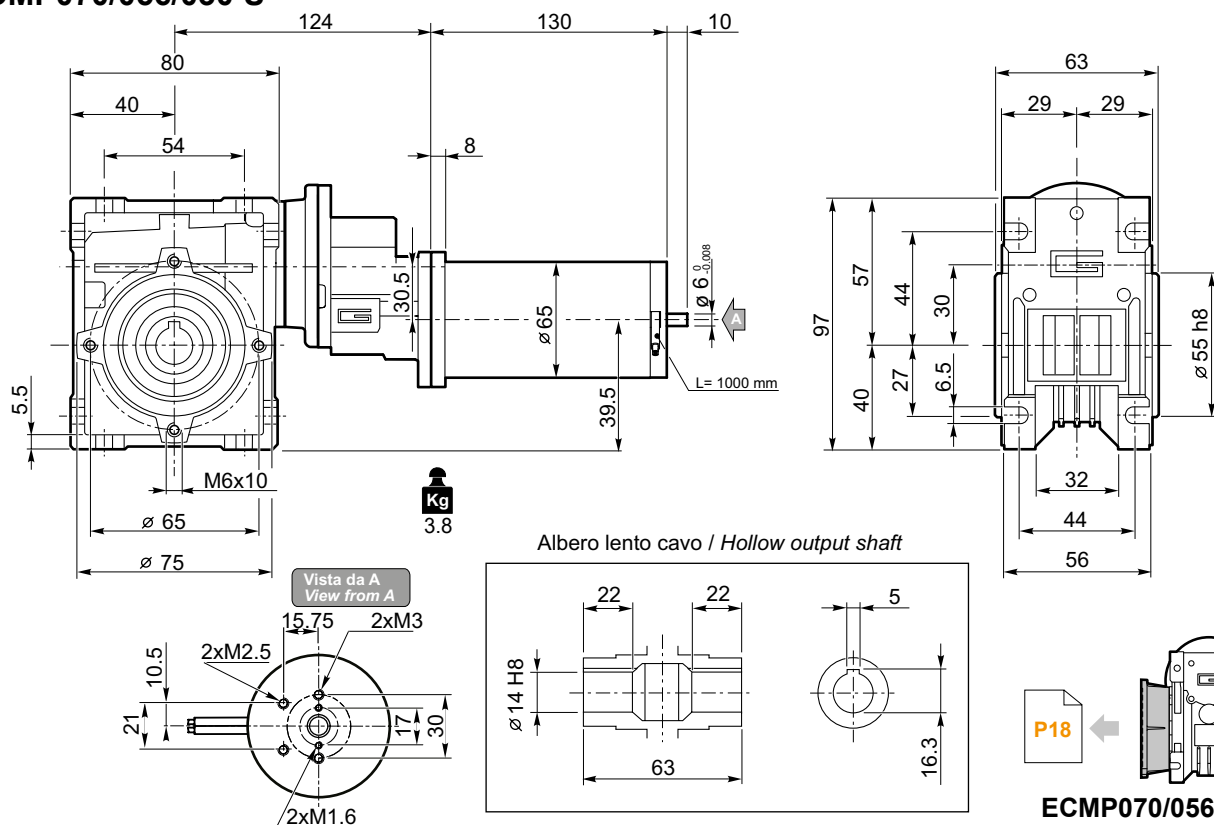
		EC						
		070.12E 070.24E	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
CMP	056/030	150	150	150				
	056/040	300	300	300				
	063/040					120		
	063/050		240	240	240	240	240	
	063/063			300	300	300	300	
	071/050							90
	071/063						180	180
	071/070						300	180
	071/075						300	300

150

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

**ECMP**

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

Dimensioni**Dimensions****ECMP070/056/030 U**

Motori / Motors IP66

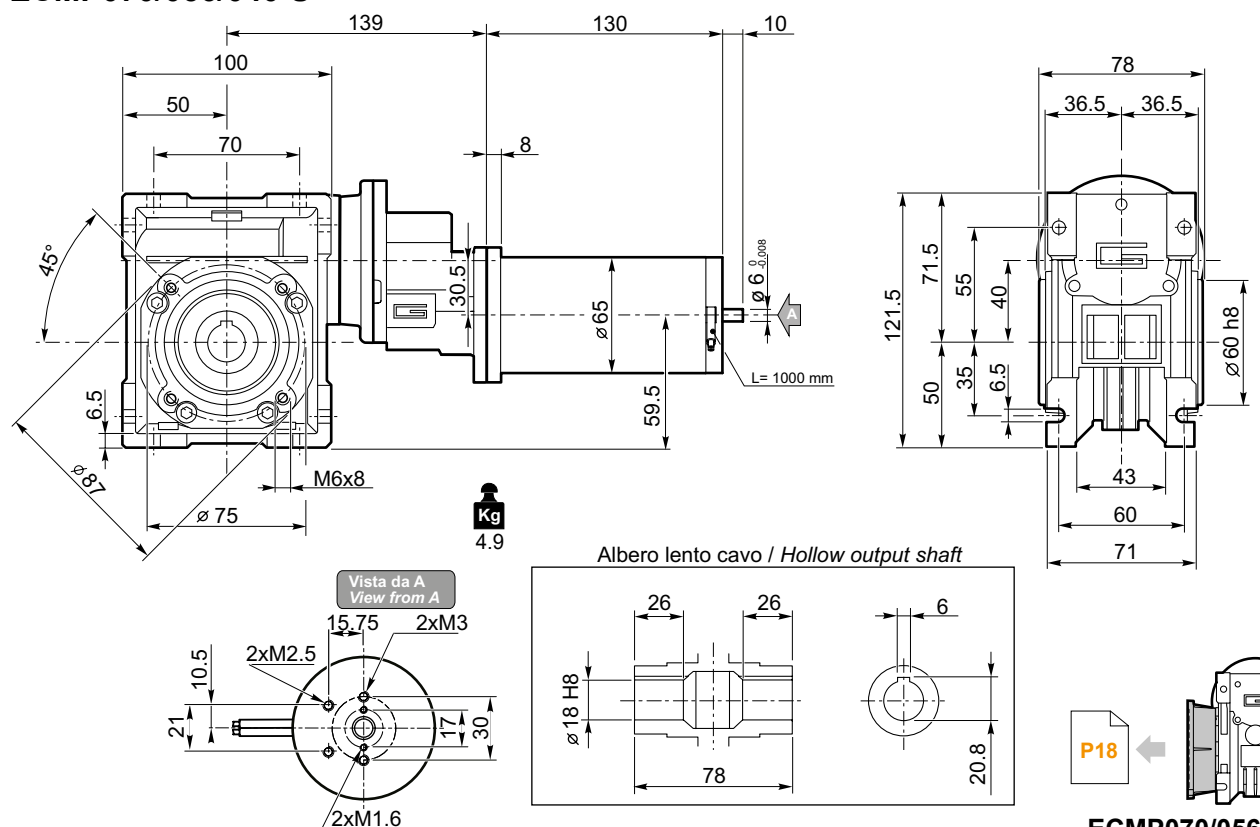
I2

Freno / Brake

H23

Encoder

H24

ECMP070/056/040 U

Motori / Motors IP66

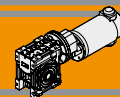
I2

Freno / Brake

H23

Encoder

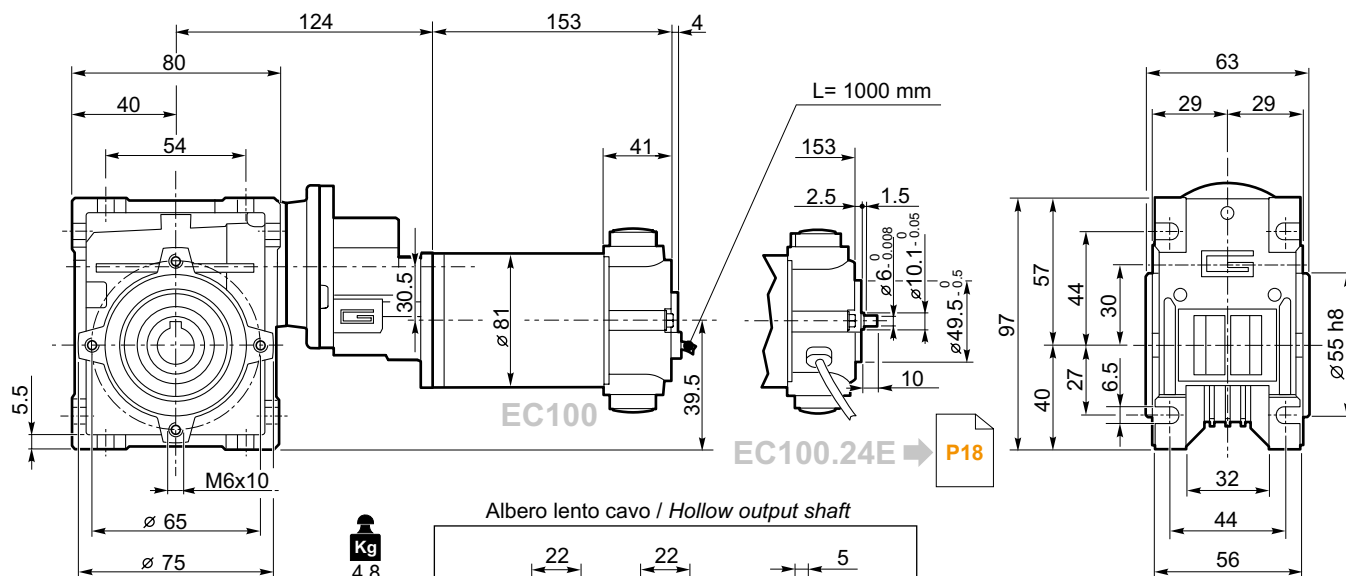
H24



Dimensioni

Dimensions

ECMP100/056/030 U



Motori / Motors IP66

I4

Freno / Brake

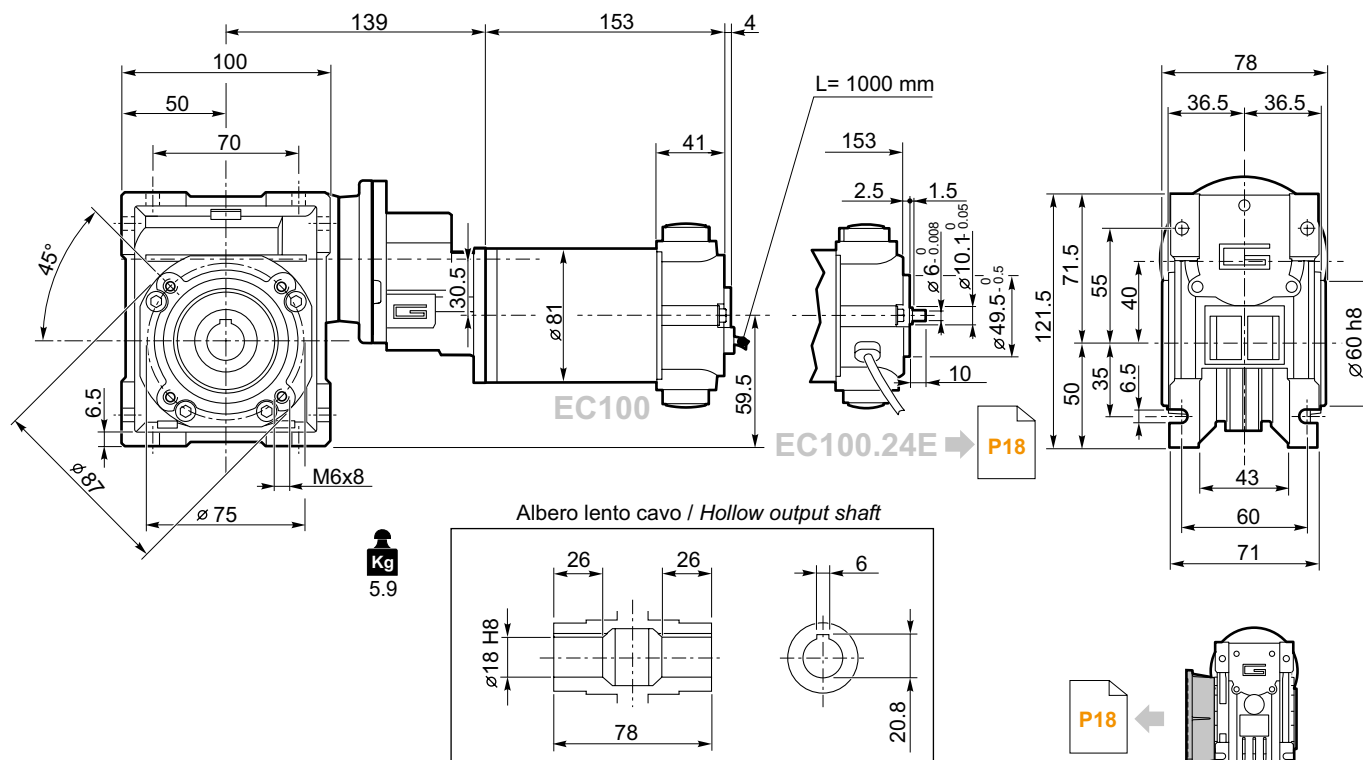
H23

Encoder

H24

ECMP100/056/030 F

ECMP100/056/040 U



Motori / Motors IP66

I4

Freno / Brake

H23

Encoder

H24

ECMP100/056/040 F
ECMP100/05/040 FL
ECMP100/05/040 FB

ECMP



Dimensions

EC100

EC100.24E → P18

Albero lento cavo / Hollow output shaft

P18 ←

**ECMP100/063/050 F
ECMP100/063/050 FL
ECMP100/063/050 FB**

Motori / Motors IP66 → I4

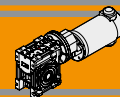
Freno / Brake → H23

Encoder → H24

7.2 Kg

Dimensions:

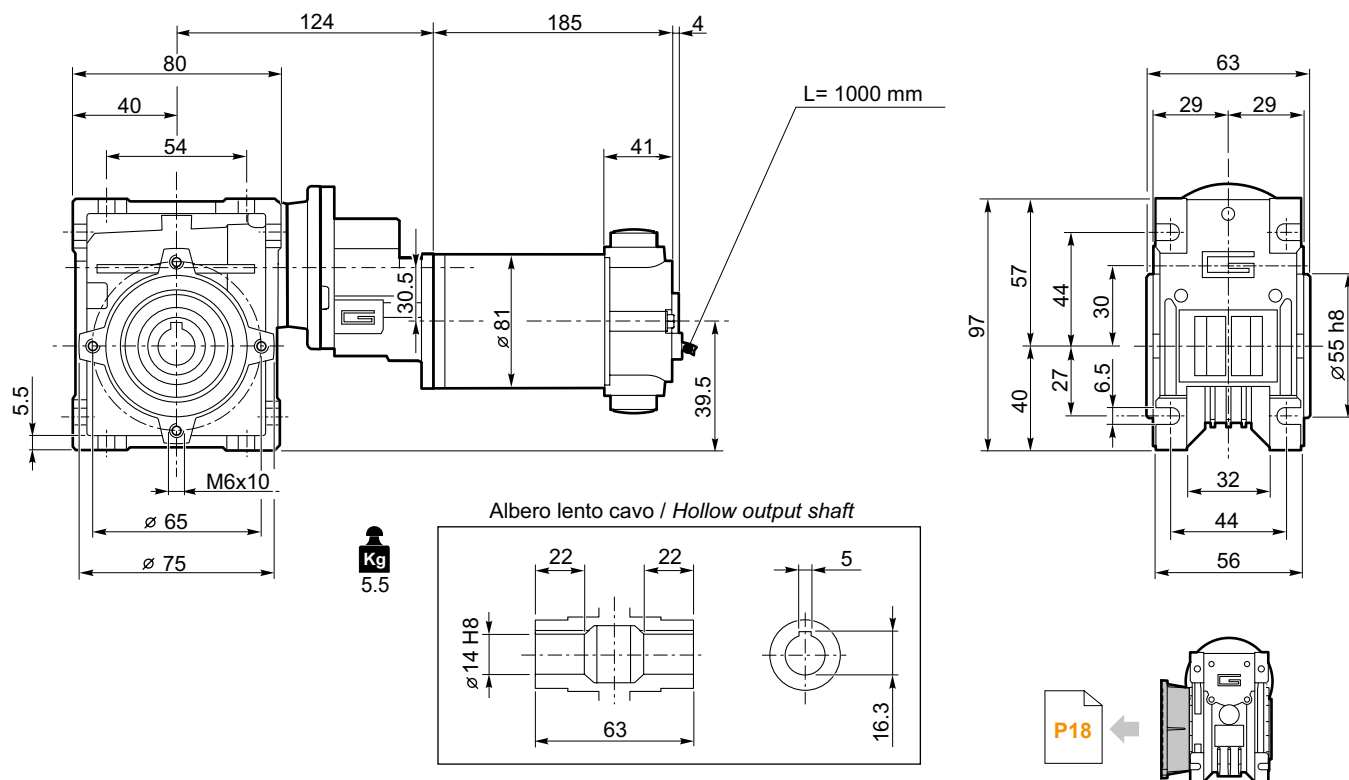
- Front view: 120, 60, 80, 152, 155, 4, 41, 79.5, 30.5, 81, 7, 45°, 85, M8x10, 98.
- Side view: L=1000 mm, 155, 2.5, 1.5, 6^{+0.008}, 10.1^{-0.05}, 49.5^{-0.5}, 10.
- Rear view: 92, 43.5, 43.5, 144, 84, 64, 50, 60, 40, 8.5, 70, 85, 49, h8, 70.
- Hollow output shaft: 30, 30, 8, 28.3, 92, 25 H8.



Dimensioni

Dimensions

ECMP180/056/030 U



Motori / Motors IP66

I6

Freno / Brake

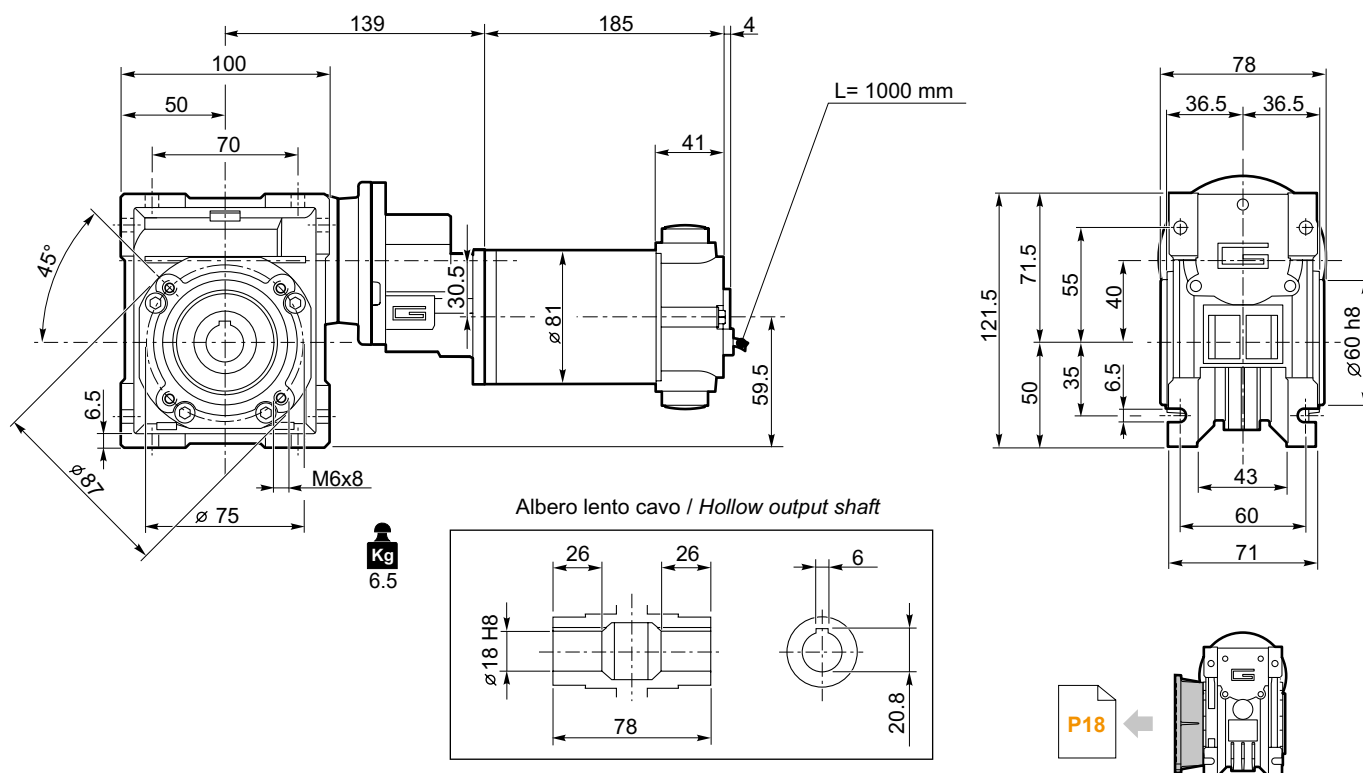
H23

Encoder

H24

ECMP180/056/030 F

ECMP180/056/040 U



Motori / Motors IP66

I6

Freno / Brake

H23

Encoder

H24

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



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

Dimensions

EC180

EC180.24E → P18

Albero lento cavo / Hollow output shaft

Motori / Motors IP66 → I6

Freno / Brake → H23

Encoder → H24

ECMP180/063/050 F
ECMP180/063/050 FL
ECMP180/063/050 FB

EC180

EC180.24E → P18

Albero lento cavo / Hollow output shaft

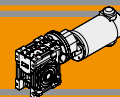
Motor weight: 10.6 Kg

Motor options:

- Motori / Motors IP66 → I6
- Freno / Brake → H23
- Encoder → H24

Model variants:

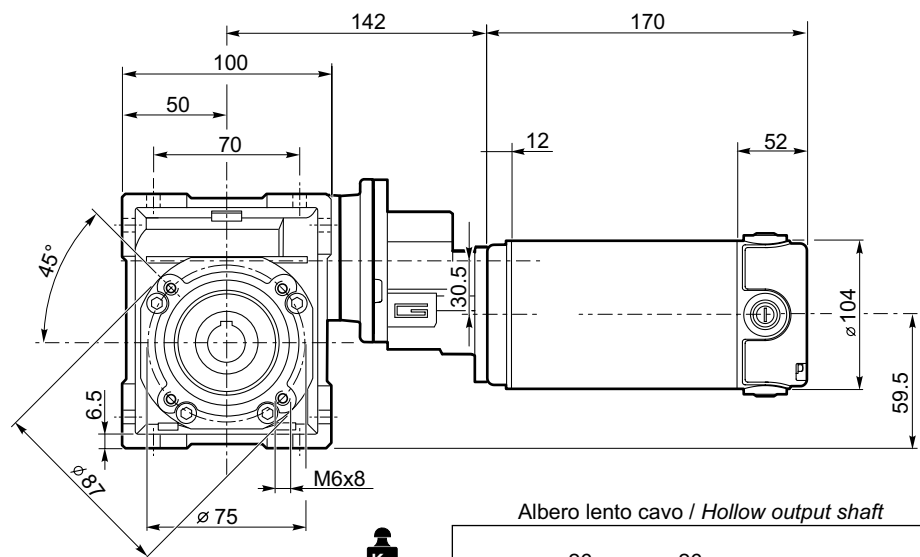
- ECMP180/063/063 F
- ECMP180/063/063 FL
- ECMP180/063/063 FB



Dimensioni

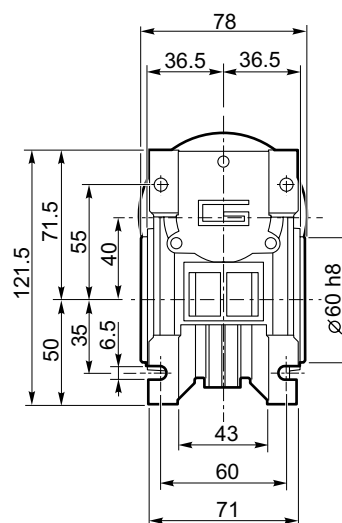
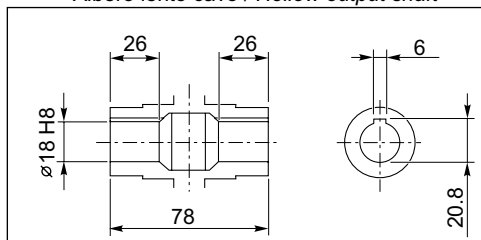
Dimensions

ECMP250/063/040 U

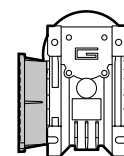


Kg
7.5

Albero lento cavo / Hollow output shaft



P18

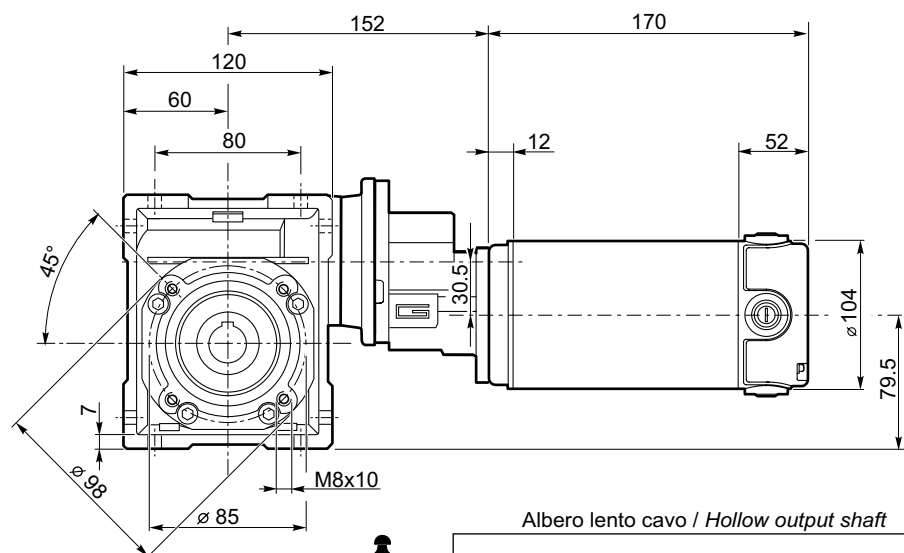


ECMP250/063/040 F
ECMP250/063/040 FL
ECMP250/063/040 FB

Motori / Motors IP66

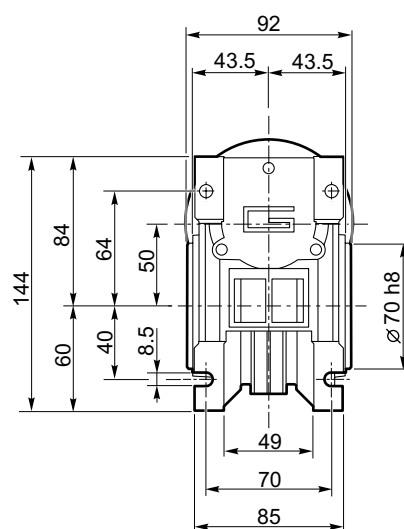
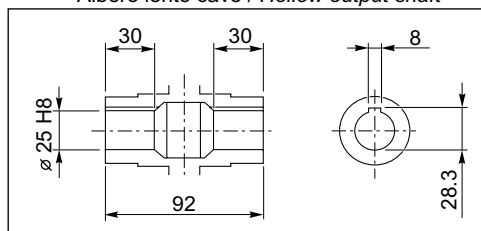


ECMP250/063/050 U

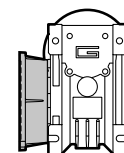


Kg
8.7

Albero lento cavo / Hollow output shaft



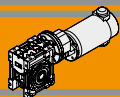
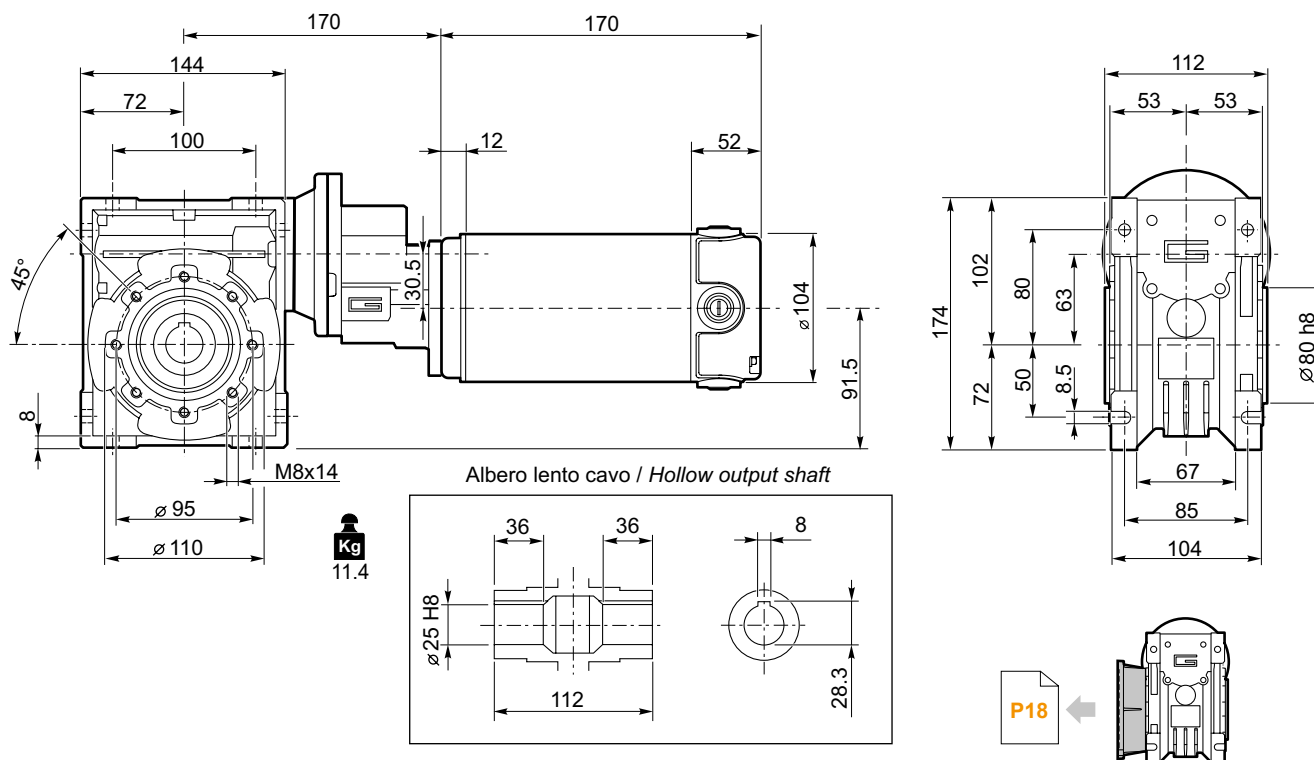
P18

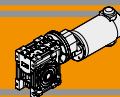


ECMP250/063/050 F
ECMP250/063/050 FL
ECMP250/063/050 FB

Motori / Motors IP66



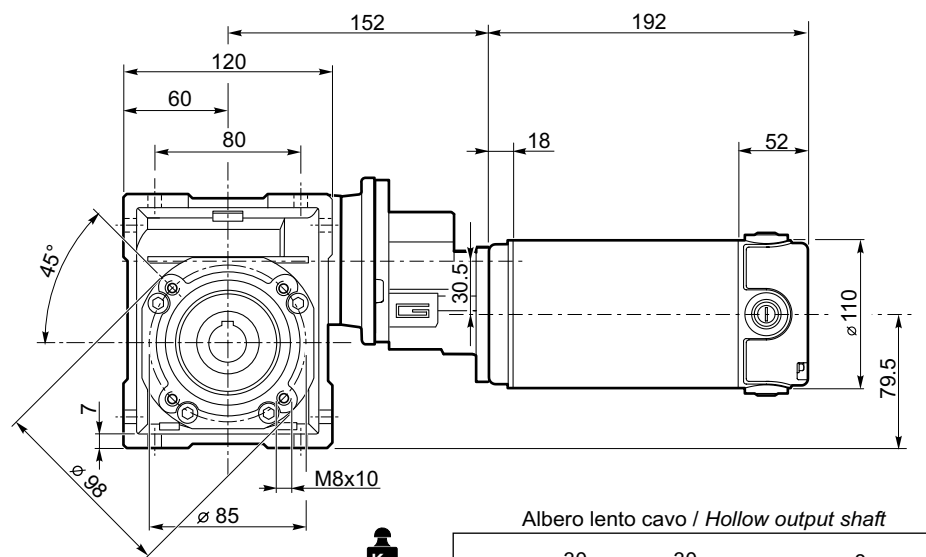
**ECMP****Motoriduttori CC a vite senza fine con precoppia**
DC Pre stage wormgearmotors**Dimensioni****Dimensions****ECMP250/063/063 U****Motori / Motors IP66****ECMP250/063/063 F**
ECMP250/063/063 FL
ECMP250/063/063 FB



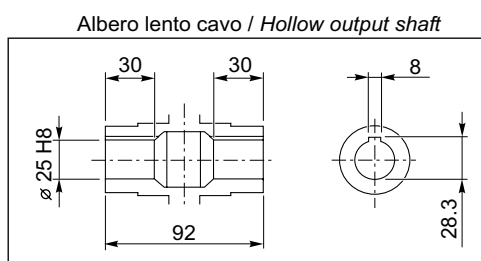
Dimensioni

Dimensions

ECMP350/063/050 U



Kg
9.8

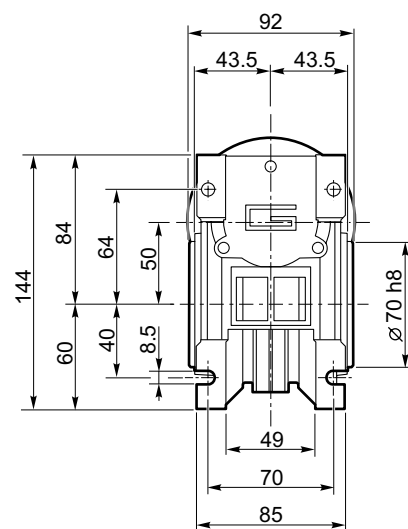


Motori / Motors IP66

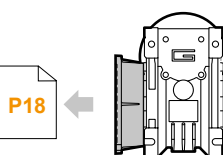
I10

Freno / Brake

H23

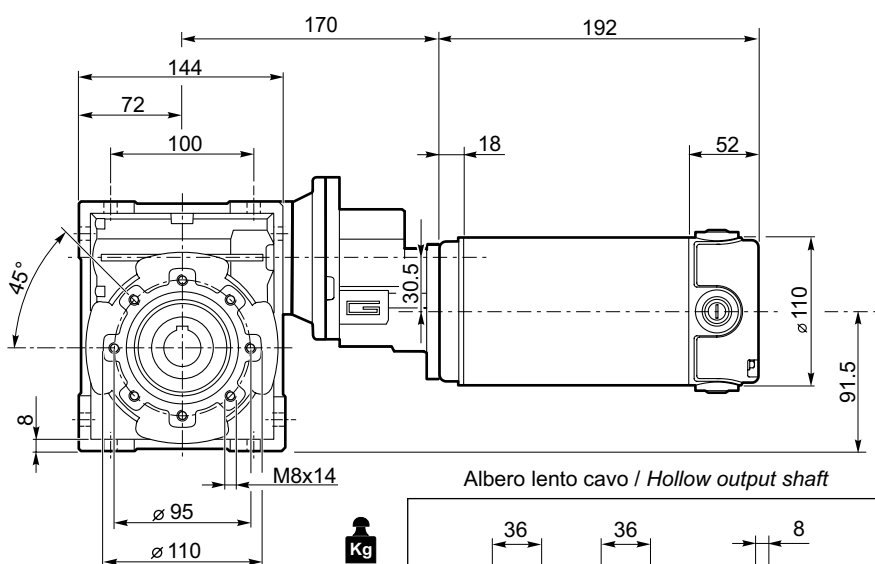


P18

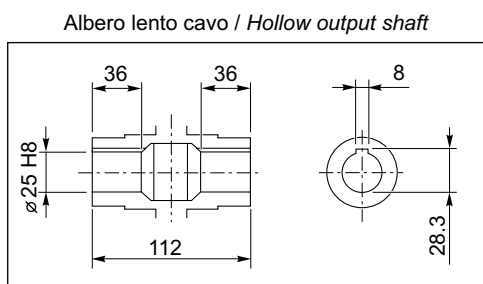


ECMP350/063/050 F
ECMP350/063/050 FL
ECMP350/063/050 FB

ECMP350/063/063 U



Kg
12.5

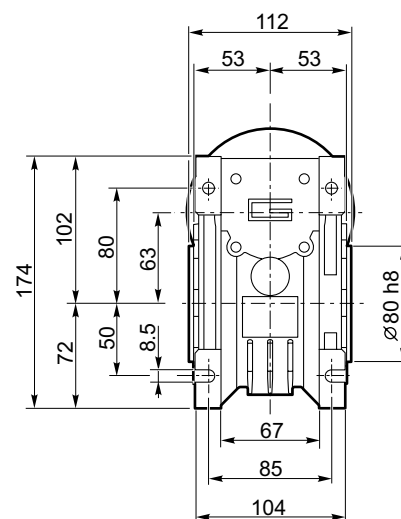


Motori / Motors IP66

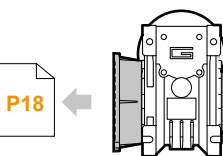
I10

Freno / Brake

H23

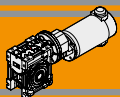
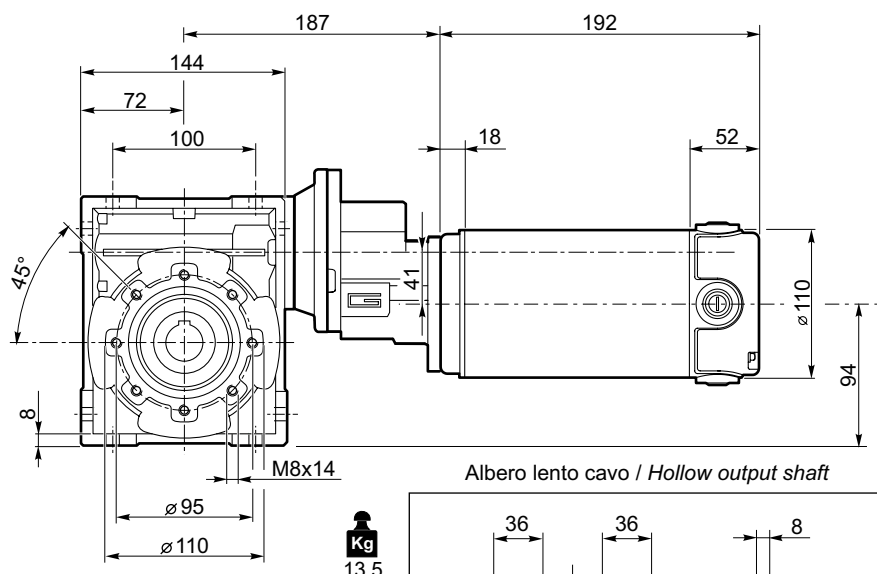


P18

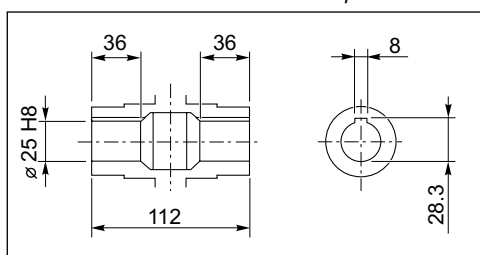


ECMP350/063/063 F
ECMP350/063/063 FL
ECMP350/063/063 FB

ECMP

**ECMP****Motoriduttori CC a vite senza fine con precoppia**
DC Pre stage wormgearmotors**Dimensioni****Dimensions****ECMP350/071/063 U**

Albero lento cavo / Hollow output shaft

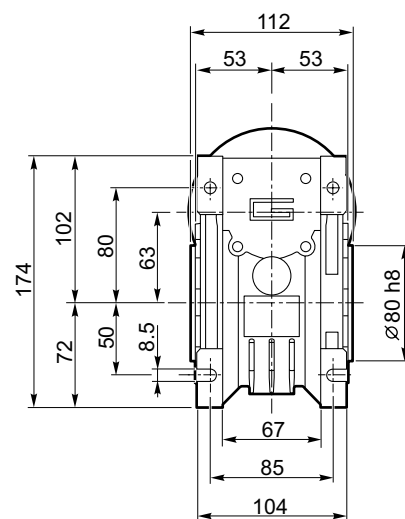


Motori / Motors IP66

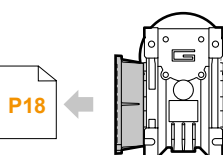
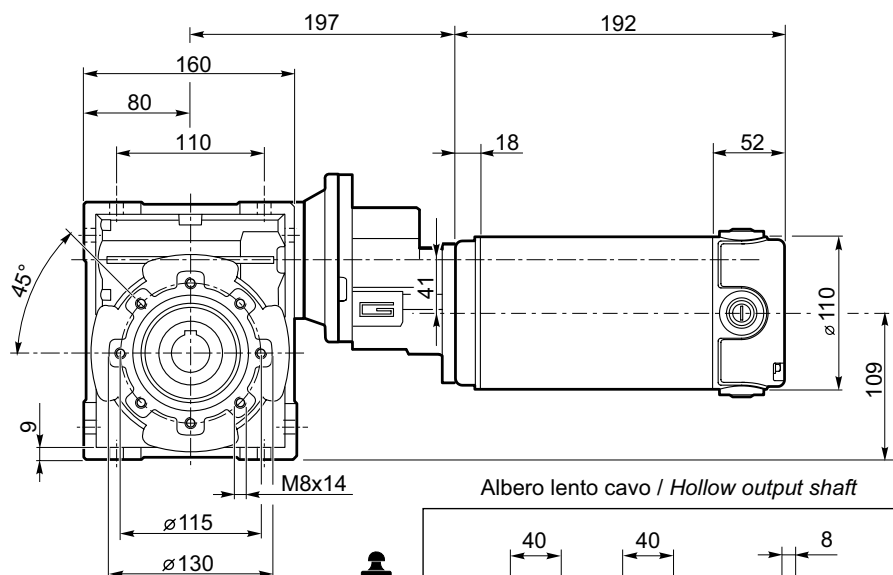
110

Freno / Brake

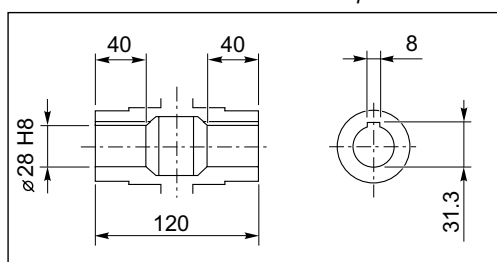
H23



P18

**ECMP350/071/063 F**
ECMP350/071/063 FL
ECMP350/071/063 FB**ECMP350/071/070 U**

Albero lento cavo / Hollow output shaft

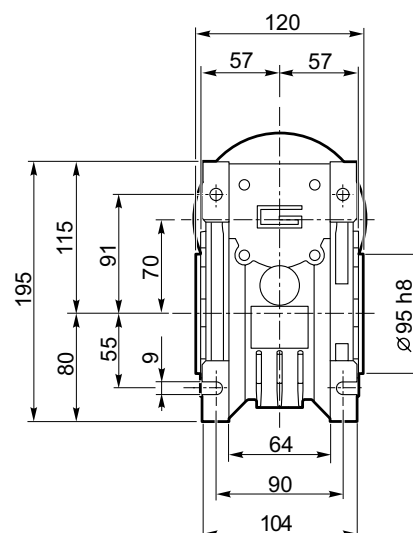


Motori / Motors IP66

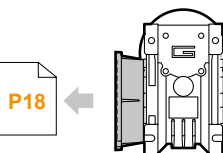
110

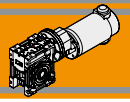
Freno / Brake

H23



P18

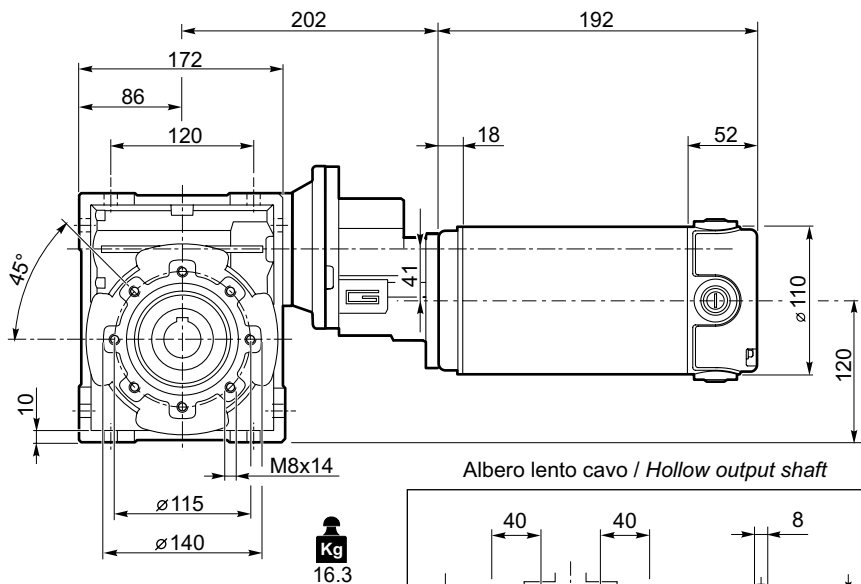
**ECMP350/071/070 F**



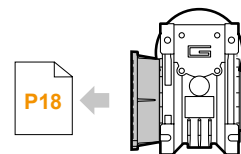
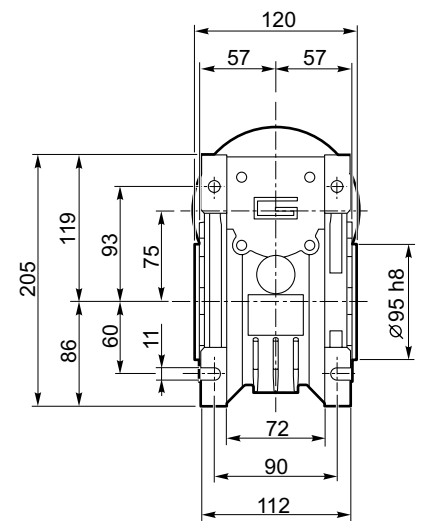
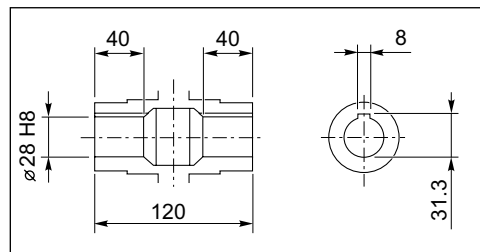
Dimensioni

Dimensions

ECMP350/071/075 U



Albero lento cavo / Hollow output shaft



P18

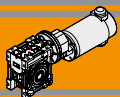
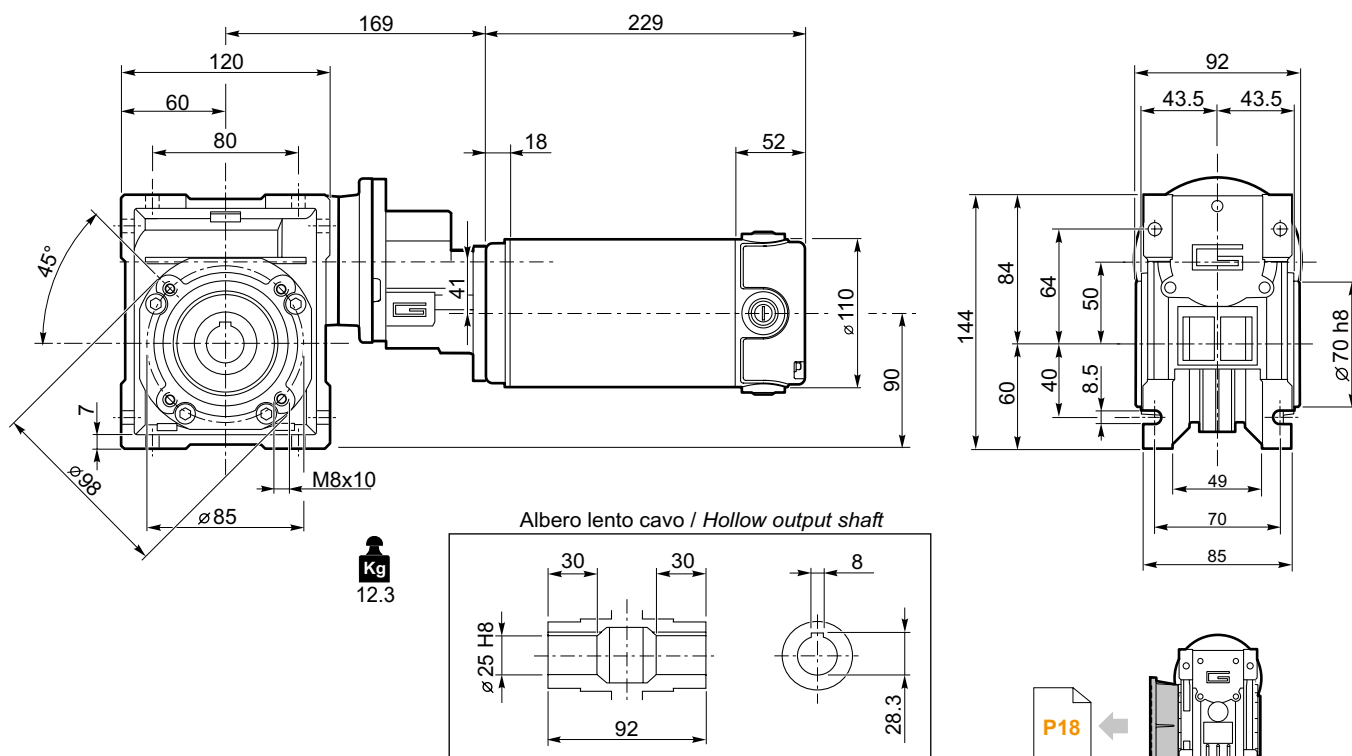
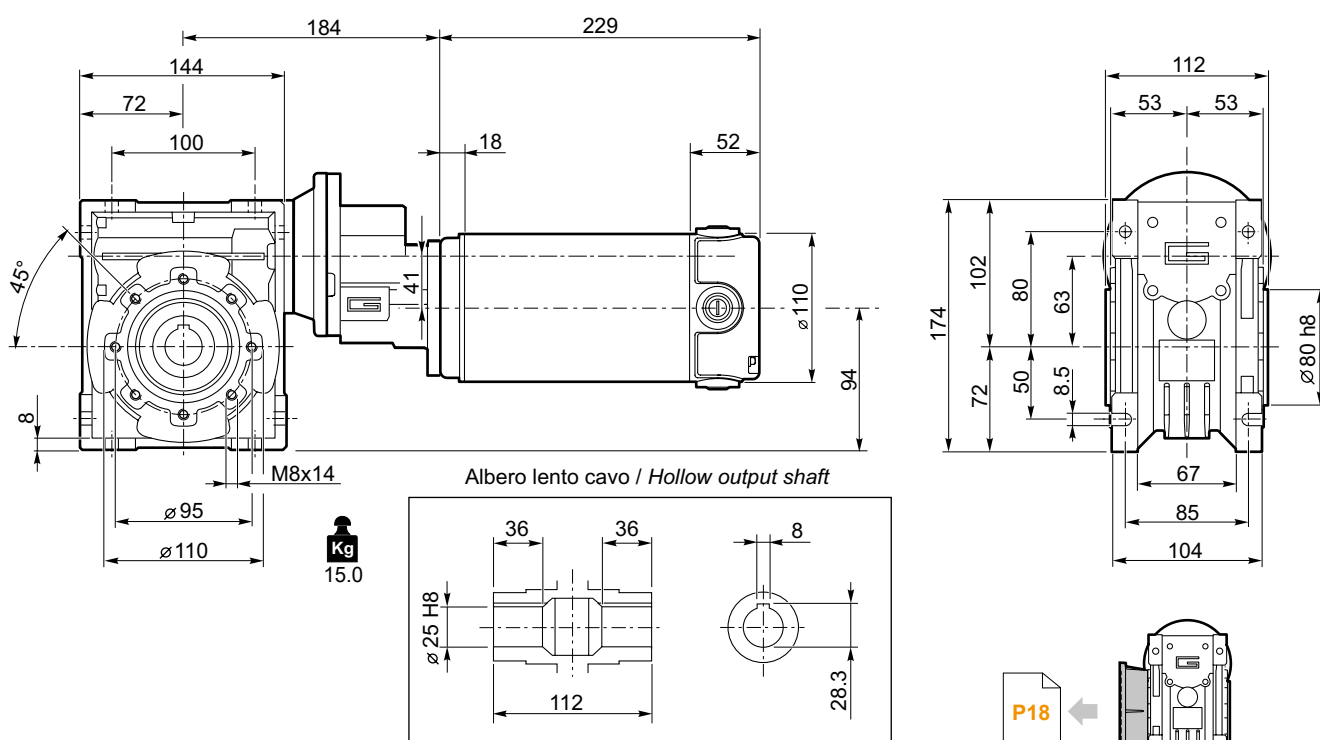
ECMP350/071/075 F

Motori / Motors IP66

I10

Freno / Brake

H23

**ECMP****Motoriduttori CC a vite senza fine con precoppia**
DC Pre stage wormgearmotors**Dimensioni****Dimensions****ECMP600/071/050 U****Motori / Motors IP66****I12****Freno / Brake****H23****ECMP600/071/050 F**
ECMP600/071/050 FL
ECMP600/071/050 FB**ECMP600/071/063 U****Motori / Motors IP66****I12****Freno / Brake****H23****ECMP600/071/063 F**
ECMP600/071/063 FL
ECMP600/071/063 FB

Dimensions

Technical drawing of the front view of a 1000 Series 1/2" component. The drawing shows a symmetrical, rectangular component with a central circular feature and two side ports. Dimensions are provided in inches:

- Overall width: 120
- Distance from centerline to each side port: 57
- Overall height: 195
- Distance from top to centerline: 115
- Distance from centerline to top of side port: 91
- Distance from centerline to bottom of side port: 70
- Distance from bottom to centerline: 80
- Distance from centerline to bottom of side port: 55
- Distance from centerline to bottom of side port: 9
- Distance from centerline to bottom of side port: 64
- Distance from centerline to bottom of side port: 90
- Distance from centerline to bottom of side port: 104
- Side port diameter: $\varnothing 95$ h8

Albero lento cavo / *Hollow output shaft*

Kg
16.1

P18

ECMP600/071/070 F

Motori / Motors IP66

112

Freno / *Brake*

H23

[illegible]

Albero lento cavo / *Hollow output shaft*

Kg
18.1

P18

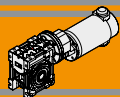
ECMP600/071/075 F

Motori / Motors IP66

112

Freno / *Brake*

H23



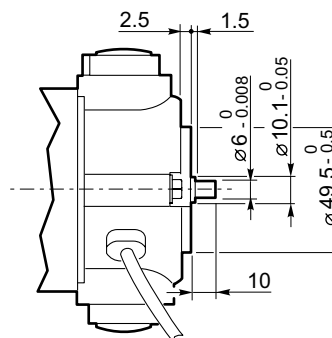
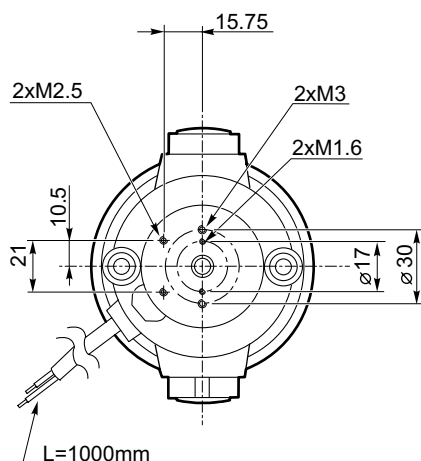
ECMP

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

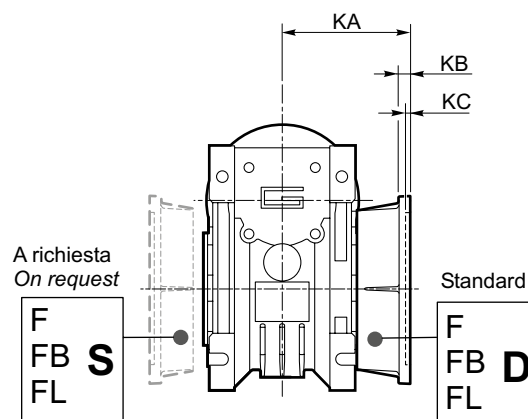
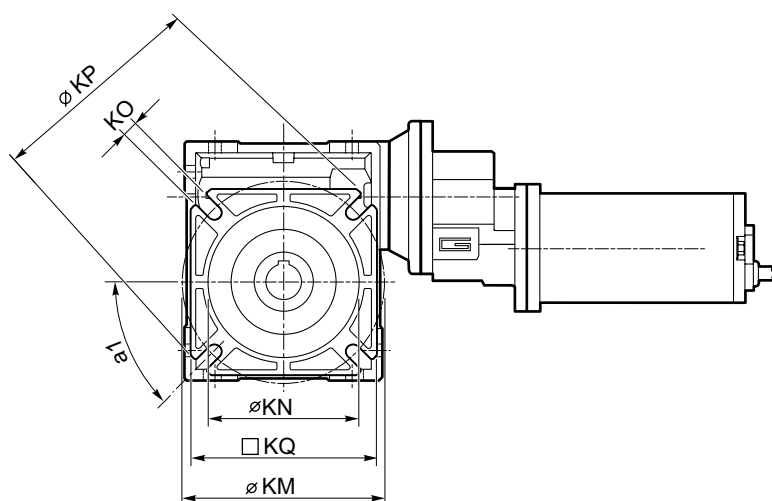
Dimensioni

Dimensions

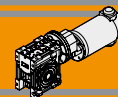
EC100.24E EC180.24E



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



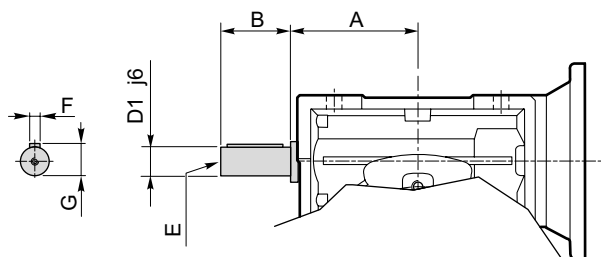
CMP	CMP..F									CMP..FB								CMP..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
056/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040 063/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
063/050 071/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
063/063 071/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
071/070	45°	107	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
071/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



Opzioni

Options

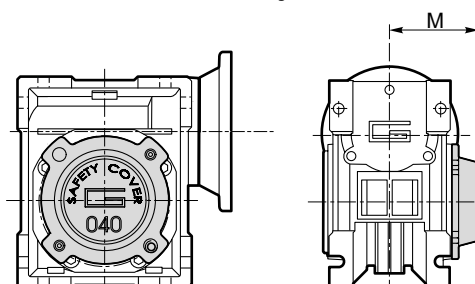
VS - Vite sporgente / Extended input shaft



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
063/040						
063/050	64	30	14	M6	5	16
063/063						
071/063	75	40	19	M6	6	21.5
080/063						
071/070	84	40	19	M6	6	21.5
071/075	90	50	24	M8	8	27

Costruito su richiesta
Built on request

SC - Safety cover



	M
CM 030	47
CM 040	54.5
CM 050	62.5
CM 063	73
CM 070	75
CM 075	79

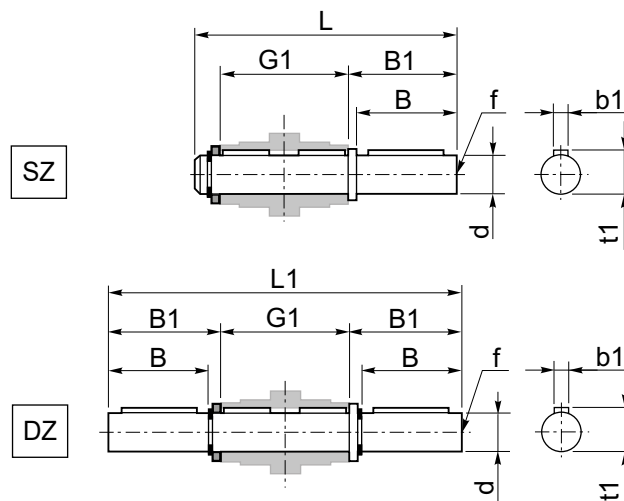
Accessori

Accessories

Albero lento semplice e doppio

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
063/040									
063/050	25	50	53.5	92	153	199	M10	8	28
063/063									
071/063	25	50	53.5	112	173	219	M10	8	28
080/063									
071/070	28	60	63.5	120	192	247	M10	8	31
071/075	28	60	63.5	120	192	247	M10	8	31

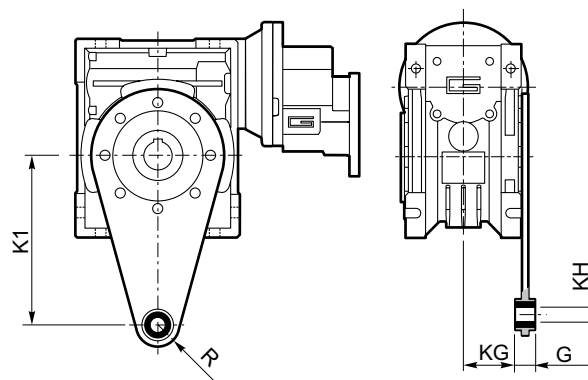
Single and double output shaft

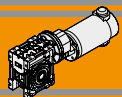


Braccio di reazione

CMP	K1	G	KG	KH	R
056/030	85	14	23	8	15
056/040	100	14	31	10	18
063/040					
063/050	100	14	38	10	18
063/063					
071/063	150	14	47.5	10	18
080/063					
071/070	200	25	46.5	20	30
071/075	200	25	46.5	20	30

Torque arm





Note



MA TRANSTECNO S.A.P.I. DE C.V.
 Av. Mundial # 176, Parque Industrial
 JM Apodaca, Nuevo León,
 C.P. 66600
 MÉXICO
 T +52 8113340920
 info@transtecno.com.mx
 www.transtecno.com.mx



TRANSTECNO SRL
 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



**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.com
 www.transtecno.cn



TRANSTECNO U.S.A. LLC
 5440 S.W. 156th Place Miami,
 FL 33185 - USA
 Tel: +1 (305) 220-4423
 Fax: +1 (305) 220-5945
 usaoffice@transtecno.com



TRANSTECNO B.V.
 Ind. terrein Wieken/Vinkenhoeft
 De Stuwdam, 43
 3815 KM Amersfoort - NETHERLANDS
 Tel: +31(0) 33 45 19 505
 Fax: +31(0) 33 45 19 506
 info@transtecno.nl
 www.transtecno.nl



SALES OFFICE INDIA
 A/10, Anagha, S.N. Road, Mulund (W) Mumbai
 400080 - INDIA
 Tel: +91 9820614698
 Fax-Italy: +39 051 73 49 43
 indiaoffice@transtecno.com



SALES OFFICE BRAZIL
 Rua Dr. Freire Alemão 155 / 402 - CEP. 90450-060
 Auxiliadora Porto Alegre RS - BRAZIL
 Tel: +55 51 3251 5447
 Fax: +55 51 3251 5447
 Mobile: +55 51 811 45 962
 braziloffice@transtecno.com
 www.transtecno.com.br



TRANSTECNO AANDRIJFTECHNIEK B.V.
 De Stuwdam 43
 3815 KM Amersfoort - NETHERLANDS
 Tel: +31 (0) 33 20 4 7 006
 info@transtecnoaandrijftechniek.nl
 www.transtecnoaandrijftechniek.nl



SALES OFFICE SOUTH KOREA
 D-304 Songdo BRC Smart Valley 30, Songdomirae-ro,
 Yeonsu-gu, Incheon, 406-840 - KOREA
 Tel: +82 70 8288 2107
 Fax: +82 32 815 2107
 Mobile: +82 10 5094 2107
 koreaoffice@transtecno.com



**TRANSTECNO IBÉRICA
 THE MODULAR GEARMOTOR, S.A.**
 C/Enginy, 2 Nave 6 - 08850 Gavà (Barcelona) - SPAIN
 Tel: +34 931 598 950
 info@transtecno.es
 www.transtecno.es



SALES OFFICE OCEANIA
 44 Northview drive, Sunshine west 3020
 Victoria - AUSTRALIA
 Ph +61 03 9312 4722
 Fax +61 03 9312 4714
 Mobile: +61 0438060997
 oceaniaoffice@transtecno.com
 www.transtecno.com.au



SALES OFFICE FRANCE
 Tel: +33 (0) 6 85 12 09 87
 Fax-Italy: +39 051 73 49 43
 franceoffice@transtecno.com
 www.transtecno.fr

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