


TRANSTECNOTM
THE MODULAR GEARMOTOR

**Riduttori con
precoppia CMP**

*Pre-stage
gearboxes CMP*





RIDUTTORI CON PRECOPPIA **CMP**

PRE-STAGE GEARBOXES **CMP**

F

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Caratteristiche tecniche

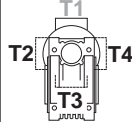
Technical characteristics

I riduttori a vite senza fine con precoppia della serie CMP hanno le seguenti caratteristiche principali: *Wormgearboxes with the pre-stage unit from the CMP range have the following characteristics :*

- Le precoppie sono costruite con carcassa in alluminio. *• The pre-stage units are made of aluminium.*
- I riduttori dal CM030 al CM090 sono costruiti con carcassa in alluminio, le altre grandezze in ghisa. *• The gearboxes, sizes CM030 to CM090 are made of aluminium, other sizes are made of cast iron.*
- Sia le precoppie che i riduttori sono forniti completi di lubrificante sintetico viscosità 320 cst a lunga durata. *• Both the pre-stage unit and the gearboxes are provided with long life synthetic lubricant, viscosity 320cst.*

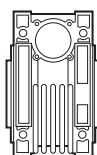
Designazione

Designation

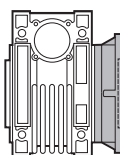
RIDUTTORE / GEARBOX								MOTORE / MOTOR					
CMP	063/050	U	58.3	P63	B14	B3	O25	—	63A4	B14	230/400 V	50Hz	T1
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	IEC		Pos. di montaggio Mounting position	Diam. albero cavo uscita Output hollow shaft diameter	Opzioni Options	Grandezza Size	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Pos. morsettiere Terminal box pos.
CMP	056/030 056/040 063/040 063/050 063/063 071/050 071/063 071/075 071/090 080/063 080/090 080/110 080/130	U FD FS FBD FBS FLD FLS	vedi tabelle see tables	56.. — 80..	B14	B3 B8 B6 B7 V5 V6	vedi tabelle see tables	VS PC	IEC 56.. — 80..	B14	—	50Hz 60Hz	T1 T2 T3 T4 

Versioni

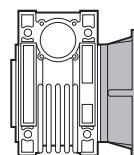
Versions



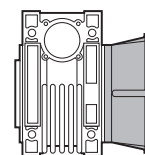
U



F



FB

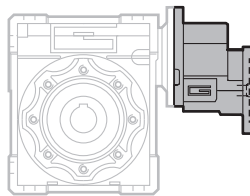


FL

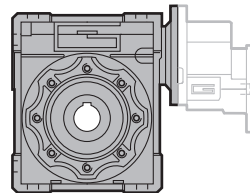
Simbologia

Symbols

n_1	[min^{-1}]	Velocità in ingresso / <i>Input speed</i>	sf	Fattore di servizio / <i>Service factor</i>
n_2	[min^{-1}]	Velocità in uscita / <i>Output speed</i>	R_2	[N] Carico radiale ammissibile in uscita / <i>Permitted output radial load</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>		



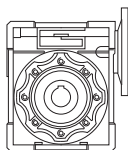
CMP			
056/030 056/040	063/040 063/050 063/063	071/050 071/063 071/075 071/090	080/063 080/075 080/090 080/110 080/130
Lubrificazione a vita Life lubricated			



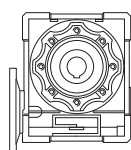
CMP	Quantità di olio (litri) / Oil quantity (liters)					
	B3	B8	B6	B7	V5	V6
056/030	0.04					
056/040 - 063/040	0.08					
063/050 - 071/050	0.15					
063/063 - 071/063 - 080/063	0.30					
071/075 - 080/075	0.55					
071/090 - 080/090	1.0					
080/110	3.0	2.2	2.5	2.5	3.0	2.2
080/130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita
Life lubricated

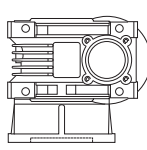
Posizioni di montaggio / Mounting positions



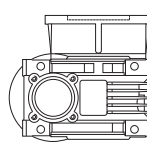
B3
(standard)



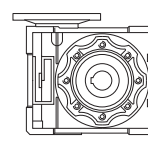
B8



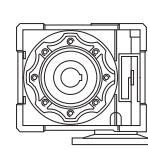
B6



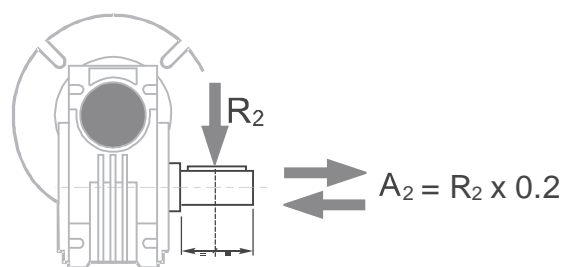
B7



V5



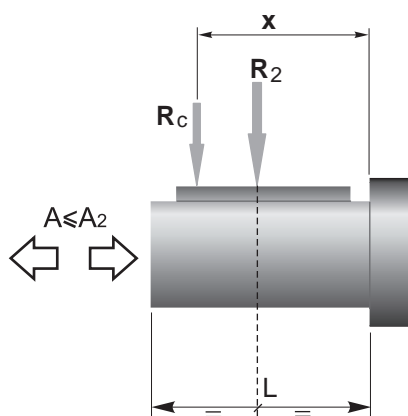
V6



n_2 [min ⁻¹]	R_2 [N]							
	CM030	CM040	CM050	CM063	CM075	CM090	CM110	CM130
35	1179	2210	3095	4273	4937	5526	8842	10021
28	1270	2381	3334	4603	5318	5953	9524	10794
23	1356	2542	3559	4915	5678	6356	10170	11526
18	1471	2759	3862	5334	6162	6897	11036	12507
14	1600	3000	4200	5800	6700	7500	12000	13600

Quando il carico radiale risultante non è applicato sulla mezziera 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

	CM030	CM040	CM050	CM063	CM075	CM090	CM110	CM130
a	65	84	101	120	131	182	176	188
b	50	64	76	95	101	122	136	148
R_{2MAX}	1600	3000	4200	5800	6700	7500	12000	13600

Dati tecnici

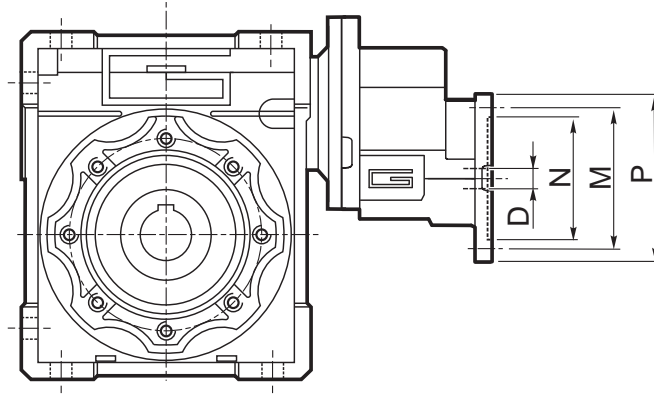
Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i	CMP	IEC	P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i	CMP	IEC	
0.06							0.18							
56A4 (1400 min ⁻¹)	23	16	1.4	60	056/030	B14	63A2 (2800 min ⁻¹)	47	27	1.6	60	063/040	B14	
	19	18	1.5	75				37	32	1.4	75			
	16	21	1.3	90				31	36	1.3	90			
	12	25	0.9	120				23	46	1.0	120			
	12	28	1.9	120	056/040	B14		23	46	1.8	120	063/050	B14	
	9.3	33	1.4	150				19	54	1.4	150			
	7.8	37	1.2	180				16	61	1.2	180			
	5.8	42	0.9	240				12	69	1.0	240			
0.09							0.25							
56A2 (2800 min ⁻¹)	47	13	1.5	60	056/030	B14	63B4 (1400 min ⁻¹)	23	52	1.0	60	063/040	B14	
	37	15	1.5	75				19	63	0.8	75			
	31	17	1.3	90				16	70	0.8	90			
	23	20	1.0	120				19	63	1.4	75			
	19	23	0.8	150	056/040	B14		16	71	1.4	90	063/050	B14	
	23	23	2.0	120				12	87	1.1	120			
	19	27	1.6	150				9	101	0.9	150			
	16	30	1.3	180				9.3	107	1.5	150			
	12	35	1.0	240	056/030	B14		7.8	113	1.4	180	063/063	B14	
	9.3	40	0.8	300				5.8	136	1.0	240			
	23	24	0.9	60				4.7	151	0.8	300			
	19	28	1.0	75				0.25						
56B4 (1400 min ⁻¹)	16	31	0.8	90	056/040	B14	63B2 (2800 min ⁻¹)	47	38	1.2	60	063/040	B14	
	19	31	1.5	75				37	45	1.0	75			
	16	35	1.6	90				31	51	0.9	90			
	12	43	1.3	120				31	51	1.7	90			
	9.3	50	1.0	150	056/040	B14		23	63	1.3	120	063/050	B14	
	7.8	55	0.8	180				19	75	1.0	150			
	19	31	1.5	75				16	84	0.8	180			
	16	35	1.6	90				16	87	1.6	180			
12	43	1.3	120	056/040	B14	12	104	1.2	240	063/063	B14			
9.3	50	1.0	150			9.3	120	1.0	300					
7.8	55	0.8	180			0.25								
56B2 (2800 min ⁻¹)	47	17	1.1			60	056/030	B14	71A4 (1400 min ⁻¹)			23	74	1.2
37	20	1.1	75	19	87	1.0				75				
31	22	1.0	90	16	98	1.0				90				
23	27	0.8	120	16	98	1.9				90				
23	30	1.5	120	056/040	B14	12	125	1.4		120	071/063	B14		
19	36	1.2	150			9.3	148	1.1		150				
16	40	1.0	180			7.8	157	1.0		180				
12	46	0.8	240			7.8	169	1.4		180				
63A4 (1400 min ⁻¹)	23	35	1.5	60	063/040	B14	5.8	201		1.0	240	071/075	B14	
19	42	1.1	75	4.7			225	0.9		300				
16	46	1.2	90	5.8			217	1.7		240				
12	57	0.9	120	4.7			251	1.3		300				
12	58	1.6	120	063/050	B14	5.8	217	1.7	240	071/090	B14			
9	68	1.3	150			4.7	251	1.3	300					
8	74	1.1	180			0.25								
6	84	0.9	240			0.25								
7.8	75	2.1	180	063/063	B14	0.25								
5.8	90	1.5	240			0.25								
4.7	101	1.3	300			0.25								
0.25							0.25							

Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i	CMP	IEC	P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i	CMP	IEC	
0.37							0.75							
71A2 (2800 min ⁻¹)	47	57	1.3	60	071/050	B14	80A2 (2800 min ⁻¹)	47	118	1.2	60	080/063	B14	
	37	68	1.1	75		B14		37	144	1.0	75		B14	
	31	76	1.1	90		B14		31	161	1.0	90		B14	
	31	80	2.1	90	071/063	B14		31	166	1.5	90	080/075	B14	
	23	101	1.5	120		B14		23	203	1.2	120		B14	
	19	117	1.2	150		B14		23	218	1.8	120	080/090	B14	
	16	129	1.1	180		B14			19	261	1.5		150	B14
	16	134	1.6	180	071/075	B14		16	295	1.2	180		B14	
	12	164	1.2	240		B14		16	313	2.0	180		080/110	B14
	9.3	189	1.0	300		B14			12	374	1.4	240		B14
71B4 (1400 min ⁻¹)	12	179	1.7	240	071/090	B14	80B4 (1400 min ⁻¹)	12	393	2.2	240	080/130	B14	
	9.3	204	1.3	300		B14		9.3	437	1.1	300		B14	
	23	109	0.8	60	071/050	B14		23	224	0.8	60	080/063	B14	
	19	129	0.7	75		B14		23	236	1.1	60		080/075	B14
	23	111	1.5	60	071/063	B14			19	280	0.9	75		B14
	19	133	1.2	75		B14			16	318	0.9	90	B14	
	16	145	1.3	90		B14			23	236	1.9	60	080/090	B14
	12	185	0.9	120		B14				19	288	1.5		75
	9.3	220	0.8	150	B14	16			318	1.7	90	B14		
	12	191	1.5	120	071/075	B14		12	399	1.2	120	B14		
9.3	220	1.1	150	B14		9.3	483	0.9	150	B14				
7.8	250	0.9	180	B14		9.3	506	1.6	150	080/110	B14			
7.8	263	1.5	180	071/090	B14		7.8	571	1.2		180	B14		
5.8	321	1.1	240		B14		5.8	688	0.9	240	B14			
4.7	371	0.9	300	B14	4.7		813	1.1	300	080/130	B14			
0.55							1.1							
71B2 (2800 min ⁻¹)	47	84	0.9	60	071/050	B14	80B2 (2800 min ⁻¹)	47	173	0.8	60	080/063	B14	
	37	101	0.7	75		B14		47	178	1.3	60		080/075	B14
	31	113	0.8	90		B14		37	214	1.0	75			B14
	47	87	1.7	60	071/063	B14		31	243	1.0	90	B14		
	37	106	1.3	75		B14		23	297	0.8	120	B14		
	31	118	1.4	90		B14		23	320	1.3	120	080/090	B14	
	23	151	1.0	120		B14			19	383	1.0		150	B14
	19	174	0.8	150	B14	16		432	0.8	180	B14			
	19	172	1.3	150	071/075	B14		16	459	1.4	180	080/110	B14	
	16	199	1.1	180		B14			12	549	1.0		240	B14
12	243	0.8	240	B14		9.3	642		0.8	300	B14			
16	216	1.6	180	071/090	B14	12	576		1.5	240	080/130	B14		
12	266	1.2	240		B14		9.3		664	1.2		300	B14	
9.3	304	0.9	300		B14		23		347	0.8	60	080/075	B14	
80A4 (1400 min ⁻¹)								80D4 (1400 min ⁻¹)	23	347	1.3		60	080/090
23	164	1.0	60	080/063	B14	19			422	1.0	75	B14		
19	197	0.8	75		B14	16			466	1.2	90	B14		
16	216	0.9	90		B14	12			585	0.8	120	B14		
23	173	1.6	60	080/075	B14	12			621	1.3	120	080/110	B14	
19	205	1.2	75		B14		9.3		743	1.1	150		B14	
16	233	1.2	90		B14	7.8	837		0.8	180	B14			
12	284	1.0	120	B14	7.8	864	1.2		180	080/130	B14			
12	293	1.6	120	080/090		B14	5.8		1044		0.9	240	B14	
9.3	355	1.3	150			B14	4.7		1193	0.7	300	B14		
7.8	392	1.0	180		B14	7.8	864	1.2	180	080/130	B14			
7.8	419	1.7	180	080/110	B14		5.8	1044	0.9		240	B14		
5.8	504	1.2	240		B14		4.7	1193	0.7	300	B14			
4.7	585	1.0	300		B14	5.8	864	1.2	180	080/130	B14			
5.8	522	1.9	240	080/130	B14		4.7	1193	0.7		300	B14		
4.7	597	1.4	300		B14									



CMP	IEC	N	M	P	D	i (i ₁ x i ₂)							
						60 (3x20)	75 (3x25)	90 (3x30)	120 (3x40)	150 (3x50)	180 (3x60)	240 (3x80)	300 (3x100)
056/030	56 B14	50	65	80	9								
056/040						B	B	B	B				
063/040	63 B14	60	75	90	11								
063/050						B	B	B					
063/063						BS	BS	BS	B	B	B		
071/050	71 B14	70	85	105	14								
071/063						B	B	B					
071/075						B	B	B	B				
071/090						BS	BS	BS	B	B	B		
080/063	80 B14	80	100	120	19								
080/075													
080/090						B	B	B					
080/110						BS	B	B	B	B	B		
080/130						BS	BS	BS	BS	B	B	B	B

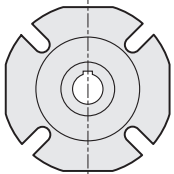
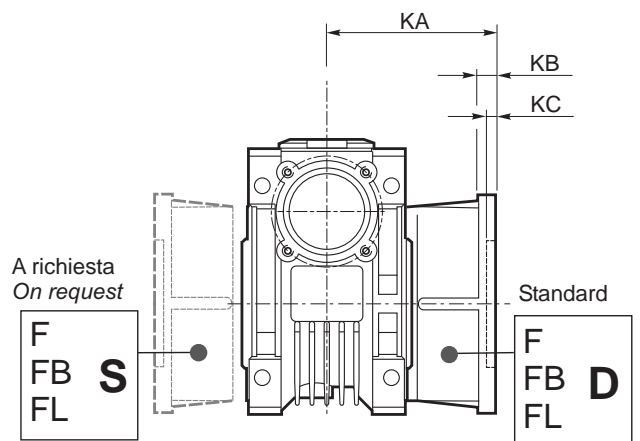
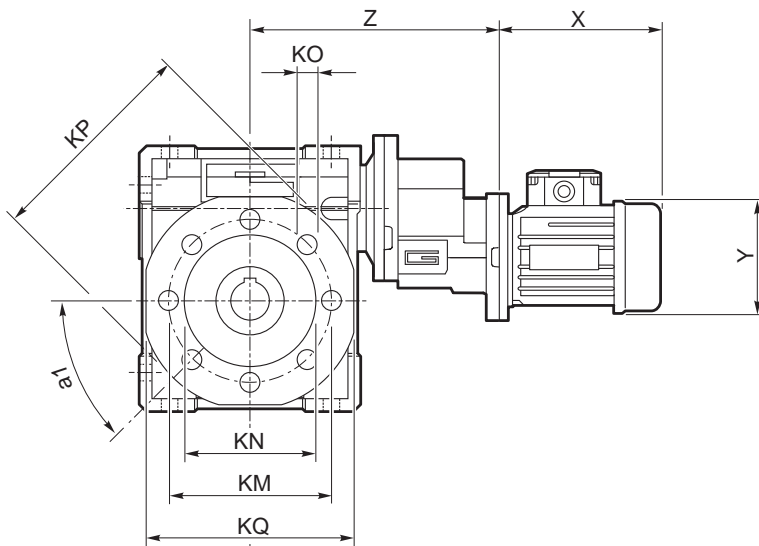
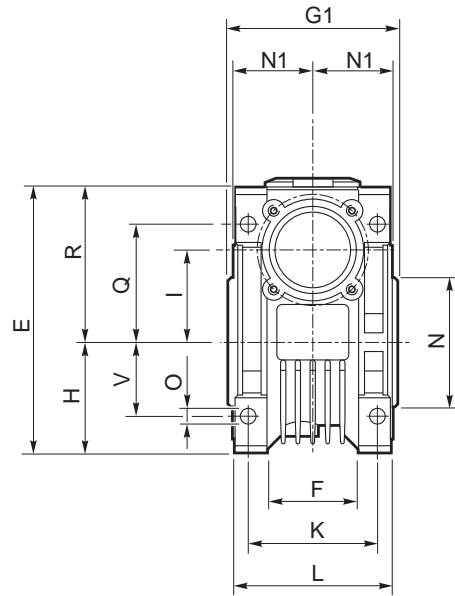
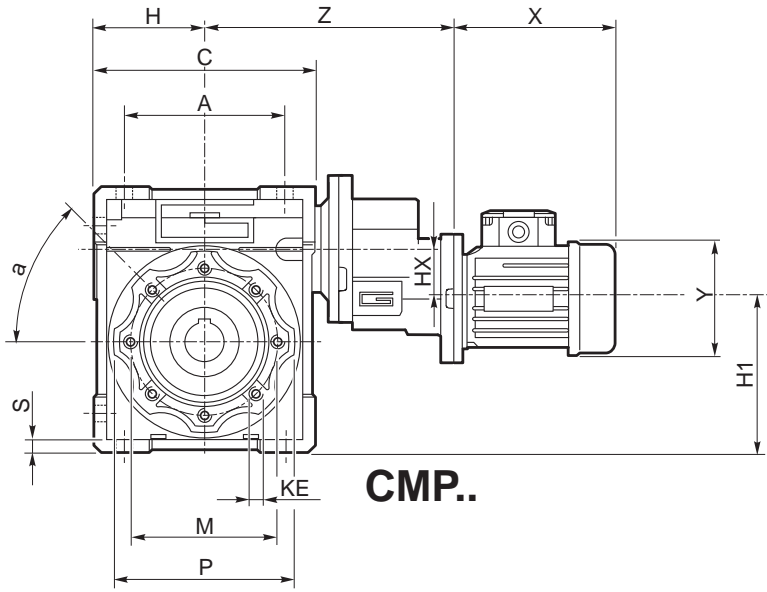
N.B.
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
N.B. Grey areas indicate motor inputs available on each size of unit.

B = Boccola di riduzione in acciaio (vedi pag. S6)
B = Metal shaft sleeve (see page S6)

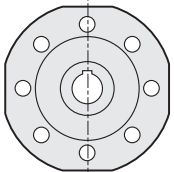
CMP.. - CMP..F - CMP..FB - CMP..FL															
	A	C	D _{H8}	E	F	G1	H	H1	HX	I	K	L	M	N _{H8}	N1
056/030	54	80	14	97	32	63	40	39.5	30.5	30	44	56	65	55	29
056/040 063/040	70	100	18 (19)	121.5	43	78	50	59.5	30.5 30.5	40	60	71	75	60	36.5
063/050 071/050	80	120	25 (24)	144	49	92	60	79.5 90	30.5 41	50	70	85	85	70	43.5
063/063 071/063 080/063	100	144	25	174	67	112	72	91.5 94 94	30.5 41 41	63	85	103	95	80	53
071/075 080/075	120	172	28	205	72	120	86	120	41 41	75	90	112	115	95	57
071/090 080/090	140	205	35	238	74	140	103	152	41 41	90	100	130	130	110	67
080/110	170	252.5	42	295	—	155	127.5	196.5	41	110	115	144	165	130	74
080/130	200	292.5	45	335	—	170	147.5	216.5	41	130	120	155	215	180	81

CMP.. - CMP..F - CMP..FB - CMP..FL														
	O	P	Q	R	S	T	V	Z	KE	a	b	t	Kg	
056/030	6.5	75	44	57	5.5	21	27	124	M6x11(n.4)	—	5	16.3	2.1	
056/040 063/040	6.5	87	55	71.5	6.5	26	35	139 142	M6x8(n.4)	45°	6	20.8	3.2 3.3	
063/050 071/050	8.5	100	64	84	7	30	40	152 169	M8x10(n.4)	45°	8	28.3	4.5 5.5	
063/063 071/063 080/063	8.5	110	80	102	8	36	50	167 184 195	M8x14(n.8)	45°	8	28.3	7.2 8.2 9.0	
071/075 080/075	11	140	93	119	10	40	60	201.5 212.5	M8x14(n.8)	45°	8	31.3	11.0 11.8	
071/090 080/090	13	160	102	135	11	45	70	218.5 229.5	M10x18(n.8)	45°	10	38.3	15.0 15.8	
080/110	14	200	125	167.5	14	50	85	260	M10x18(n.8)	45°	12	45.3	37.8	
080/130	16	250	140	187.5	15	60	100	280	M12x21(n.8)	45°	14	48.8	60.8	

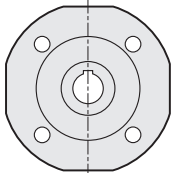
	CMP..F								CMP..FB								CMP..FL								
	a1	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ	KA	KB	KC	KM	KN _{H8}	KO	KP	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ	
056/030	90°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040 063/040	45°	67	7	4	80-94	60	9(n.4)	110	95	80	9	5	115	95	9.5(n.4)	140	97	7	4	80-94	60	9(n.4)	110	95	
063/050 071/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	10	5	130	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110	
063/063 071/063 080/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	11	5	165	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142	
071/075 080/075	45°	111	13	6	165-178	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
071/090 080/090	45°	111	13	6	175-188	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
080/110	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
080/130	45°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



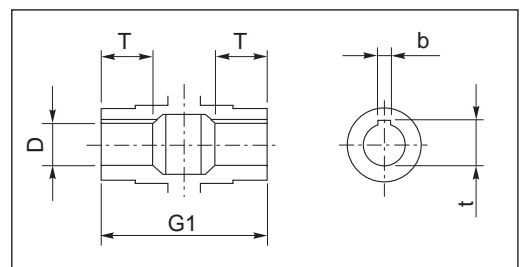
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CMP..FL (../030 - ../063)



CMP..F (../110 - ../130)



CMP..FB (../040 - ../063)

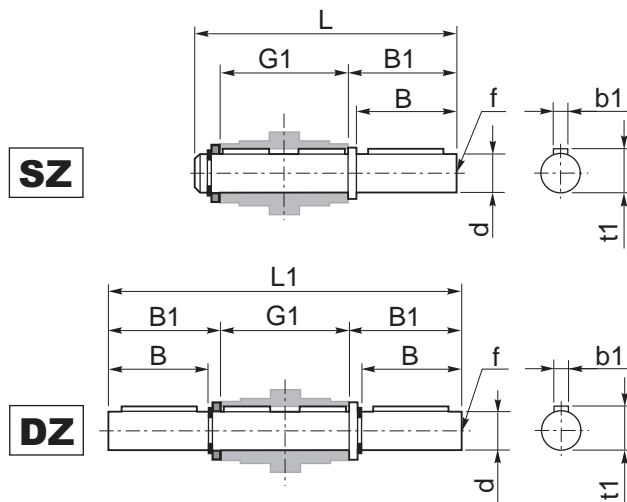


Albero lento cavo / Hollow output shaft

Albero lento semplice e doppio

CMP	d _{h6}	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
063/050	25	50	53.5	92	153	199	M10	8	28
063/063 071/063 080/063	25	50	53.5	112	173	219	M10	8	28
071/075 080/075	28	60	63.5	120	192	247	M10	8	31
071/090 080/090	35	80	84.5	140	234	309	M12	10	38
080/110	42	80	84.5	155	249	324	M16	12	45
080/130	45	80	85	170	265	340	M16	14	48.5

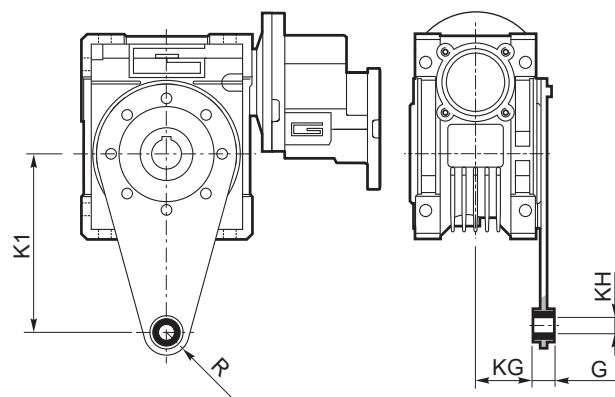
Single and double output shaft



Braccio di reazione

CMP	K1	G	KG	KH	R
056/030	85	14	23	8	15
056/040 063/040	100	14	31	10	18
063/050	100	14	38	10	18
063/063 071/063 080/063	150	14	47.5	10	18
071/075 080/075	200	25	46.5	20	30
071/090 080/090	200	25	56.5	20	30
080/100	250	30	62	25	35
080/130	250	30	69	25	35

Torque arm

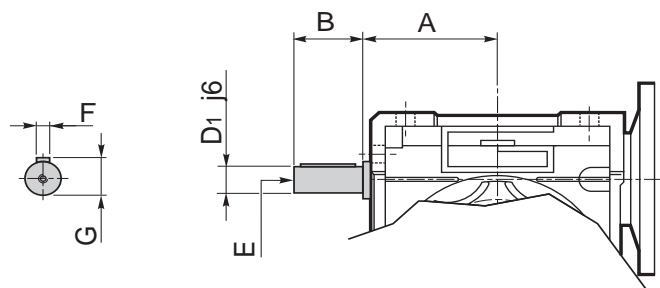


Opzioni

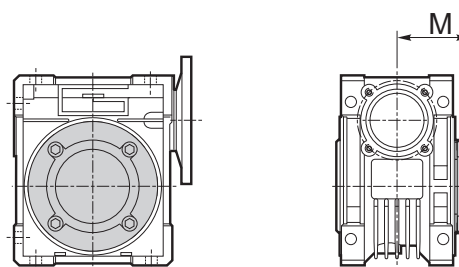
Options

CMP	A	B	D _{1 j6}	E	F	G	M
056/030	45	20	9	M4	3	10.2	47
056/040 063/040	53	23	11	M5	4	12.5	54.5
063/050	64	30	14	M6	5	16	62.5
063/063 071/063 080/063	75	40	19	M6	6	21.5	73
071/075 080/075	90	50	24	M8	8	27	79
071/090 080/090	108	50	24	M8	8	27	94
080/100	—	—	—	—	—	—	95
080/130	—	—	—	—	—	—	100

VS - Vite sporgente / Extended input shaft



PC - Coperchio di protezione / Plastic cover





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