

Caratteristiche tecniche

Technical features

I riduttori combinati a vite senza fine della serie CMM hanno le seguenti caratteristiche principali :

CMM range combination gearboxes have the following main features:

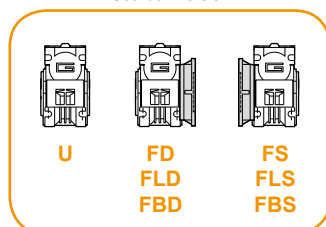
- Carcassa in alluminio nelle grandezze 026, 030, 040, 050, 063, 075, 090 e 110. La grandezza 130 è costruita con carcassa in ghisa;
- Die-cast aluminum housing on sizes 026, 030, 040, 050, 063, 075, 090 and 110. Cast iron housing on size 130;
- Le grandezze 090, 110 e 130 sono fornite con cuscinetti a rulli conici sulla vite;
- Double taper roller bearing on sizes 090, 110 and 130;
- Lubrificazione permanente con olio sintetico.
- Permanent synthetic oil long-life lubrication.

Designazione

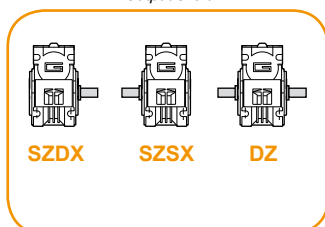
Classification

RIDUTTORE / GEARBOX											
CMM	030/063	FD	20	71	B5	SZDX	BRSX	90	B3	US1	VS
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	IEC 	Forma costruttiva Version	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio Mounting position	Esecuzione di montaggio Mounting execution	Opzioni Options
 CMM	026/026 026/030 026/040 026/050 030/040	U FD FS FBD	vedi tabelle- see tables	56.. — 90..	B5 B14	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	B3 B8 B6 B7 V5 V6	UB1 UB2 US1 US2 UV1 UV2 UC1 UC2	VS1 VS2
 CMMIS	030/050 030/063 040/075 040/090 050/110 063/130	FBS FLD FLS									

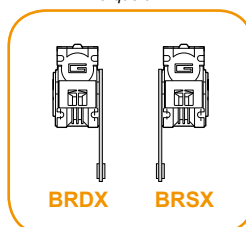
Versione Riduttore
Gearbox Version



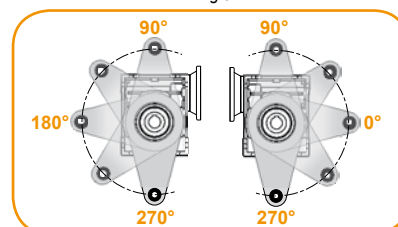
Albero di uscita
Output shaft



Braccio di reazione
Torque arm



Angolo
Angle



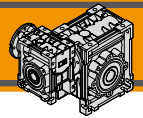
MOTORE CM / CM MOTOR

0.25kW	4p	3ph	50Hz	T1
Potenza Power Vedi tabelle See tables	Poli Poles 2p 4p 6p 8p	Fasi Phases 1ph 3ph	Frequenza Frequency 50Hz 60Hz	Pos. morsettiera Terminal box pos. T1 (Std) T4 T3

Simbologia

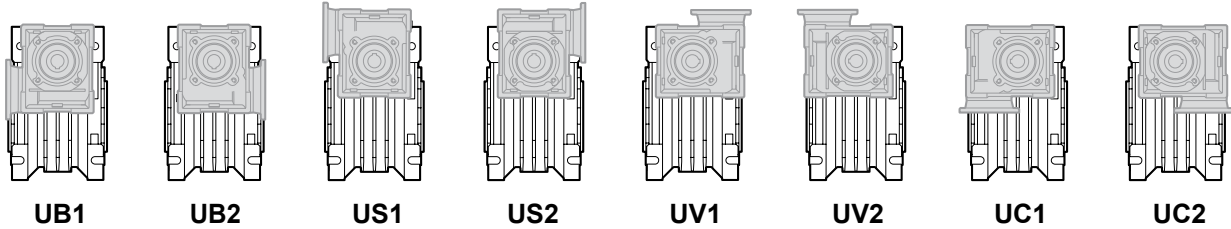
Symbols

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



Esecuzioni di montaggio

Mounting executions



Combinazioni rapporti

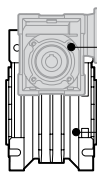
Combination ratio

CMM 026/026 - CMM 026/030 - CMM 026/040 - CMM 026/050												
$i (i_1 \times i_2)$												
	150	225	300	450	600	900	1200	1500	1800	2400	3000	3600
i_1	10	15	10	15	20	30	40	50	60	60	60	60
i_2	15	15	30	30	30	30	30	30	30	40	50	60

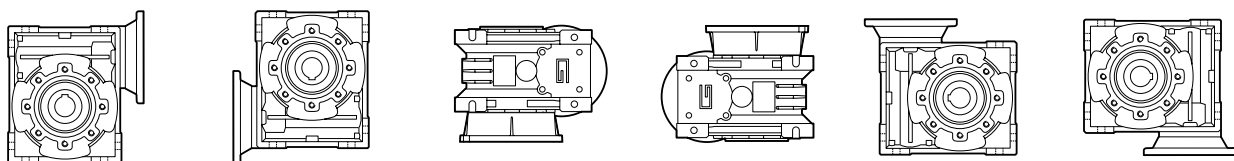
CMM 030/040 - CMM 030/050 - CMM 030/063 - CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130																
$i (i_1 \times i_2)$																
	75	100	150	200	250	300	400	500	600	750	900	1200	1500	1800	2400	3000
i_1	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i_2	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50

Lubrificazione

Lubrication

		CMM										
		026/026	026/030	026/040	026/050	030/040	030/050	030/063	040/075	040/090	050/110	063/130
	①	026				030			040		050	063
	Lubrificazione a vita <i>Life lubricated</i>											
	②	026	030	040	050	040	050	063	075	090	110	130
Lubrificazione a vita <i>Life lubricated</i>												

Posizioni di montaggio / Mounting positions



B3
(standard)

B8

B6

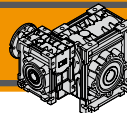
B7

V5

V6

Quantità di olio (litri) / Oil quantity (litres)						
	B3	B8	B6	B7	V5	V6
CM026	0.015					
CM030	0.03					
CM040	0.07					
CM050	0.1					
CM063	0.25					
CM075	0.4					
CM090	0.85					
CM110	1.5					
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita
Life lubrication



Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
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P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
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0.55

71C4 (1400 min ⁻¹)	2.8	973	1.2	500	CMM 050/110	B5/B14	
	2.3	1191	1.2	600		B5/B14	
	1.9	1433	1.0	750		B5/B14	
	1.6	1629	0.9	900		B5/B14	
80A4 (1400 min ⁻¹)	1.2	2127	0.9	1200	CMM 063/130	B5/B14	
	0.9	2451	0.8	1500		B5/B14	
	18.7	198	6.3	75		CMM 050/110	B5/B14
	14.0	258	4.8	100			B5/B14
	9.3	364	3.7	150			B5/B14
	7.0	478	2.7	200			B5/B14
	5.6	574	2.1	250			B5/B14
	4.7	641	2.3	300			B5/B14
	3.5	829	1.6	400			B5/B14
	2.8	973	1.2	500			B5/B14
2.3	1191	1.2	600	B5/B14			
1.9	1433	1.0	750	B5/B14			
1.6	1629	0.9	900	B5/B14			
80B4 (1400 min ⁻¹)	5.6	589	2.8	250	CMM 063/130	B5/B14	
	4.7	639	3.2	300		B5/B14	
	3.5	813	2.2	400		B5/B14	
	2.8	984	1.6	500		B5/B14	
	2.3	1203	1.7	600		B5/B14	
	1.9	1449	1.4	750		B5/B14	
	1.6	1671	1.2	900		B5/B14	
	1.2	2127	0.9	1200		B5/B14	
	0.9	2451	0.8	1500		B5/B14	

1.1

90S4 (1400 min ⁻¹)	18.7	406	4.1	75	CMM 063/130	B5/B14
	14.0	529	3.2	100		B5/B14
	9.3	745	2.6	150		B5/B14
	7.0	968	1.9	200		B5/B14
	5.6	1178	1.4	250		B5/B14
	4.7	1278	1.6	300		B5/B14
	3.5	1626	1.1	400		B5/B14
	2.8	1968	0.8	500		B5/B14
	2.3	2407	0.9	600		B5/B14

1.5

90L4 (1400 min ⁻¹)	18.7	554	3.0	75	CMM 063/130	B5/B14
	14.0	722	2.3	100		B5/B14
	9.3	1016	1.9	150		B5/B14
	7.0	1320	1.4	200		B5/B14
	5.6	1606	1.0	250		B5/B14
	4.7	1742	1.2	300		B5/B14
	3.5	2218	0.8	400		B5/B14

1.85

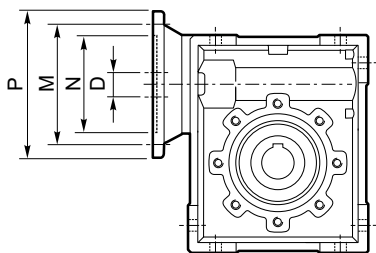
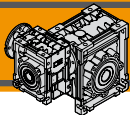
90LB4 (1400 min ⁻¹)	18.7	683	2.5	75	CMM 063/130	B5/B14
	14.0	890	1.9	100		B5/B14
	9.3	1254	1.5	150		B5/B14
	7.0	1628	1.1	200		B5/B14
	5.6	1981	0.8	250		B5/B14
	4.7	2149	1.0	300		B5/B14

0.75

80B4 (1400 min ⁻¹)	18.7	270	4.6	75	CMM 050/110	B5/B14
	14.0	352	3.5	100		B5/B14
	9.3	496	2.7	150		B5/B14
	7.0	652	2.0	200		B5/B14
	5.6	783	1.5	250		B5/B14
	4.7	874	1.7	300		B5/B14
	3.5	1131	1.2	400		B5/B14
	2.8	1326	0.9	500		B5/B14
	2.3	1625	0.9	600		B5/B14
	1.9	1954	0.8	750		B5/B14
80C4 (1400 min ⁻¹)	7.0	660	2.7	200	CMM 063/130	B5/B14
	5.6	803	2.0	250		B5/B14
	4.7	871	2.4	300		B5/B14
	3.5	1109	1.6	400		B5/B14
	2.8	1342	1.2	500		B5/B14
	2.3	1641	1.3	600		B5/B14
	1.9	1975	1.0	750		B5/B14
	1.6	2279	0.9	900		B5/B14

1.1

80C4 (1400 min ⁻¹)	18.7	397	3.1	75	CMM 050/110	B5/B14		
	14.0	517	2.4	100		B5/B14		
	9.3	727	1.9	150		B5/B14		
	7.0	957	1.4	200		B5/B14		
	5.6	1148	1.0	250		B5/B14		
	4.7	1282	1.2	300		B5/B14		
	3.5	1658	0.8	400		B5/B14		
	80C4 (1400 min ⁻¹)	7.0	968	1.9		200	CMM 063/130	B5/B14
		5.6	1178	1.4		250		B5/B14
		4.7	1278	1.6		300		B5/B14
3.5		1626	1.1	400	B5/B14			
2.8		1968	0.8	500	B5/B14			
2.3		2407	0.9	600	B5/B14			

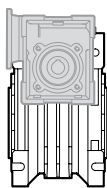


N.B.

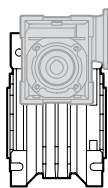
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
Grey areas indicate motor inputs available on each size of unit.

B/BS = Boccola di riduzione in acciaio

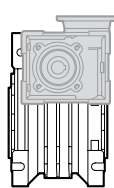
B/BS = Metal shaft sleeve



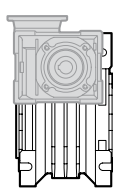
US1



US2

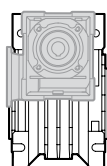


UV1

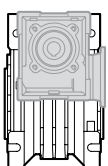


UV2

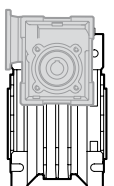
CMM	IEC	N	M	P	D	i ₁						
						10	15	20	30	40	50	60
026/026	56B14	50	65	80	9							



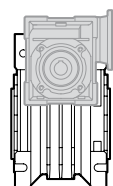
UB1



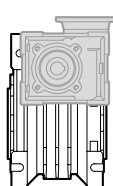
UB2



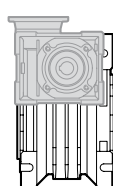
US1



US2

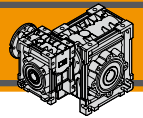


UV1



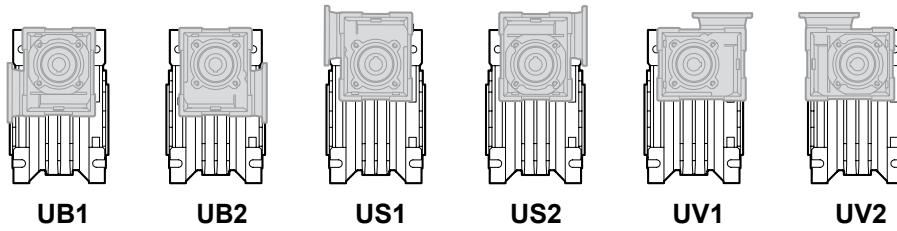
UV2

CMM	IEC	N	M	P	D	i ₁						
						10	15	20	30	40	50	60
026/030 026/040 026/050	56B14	50	65	80	9							

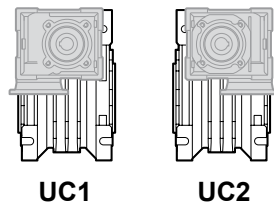


Motori applicabili

IEC Motor adapters



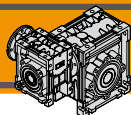
CMM	IEC	N	M	P	D	i ₁								
						7.5	10	15	20	25	30	40	50	60
030/040 030/050 030/063	63B5	95	115	140	11									
	63B14	60	75	90	11									
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80	9									
040/075 040/090	71B5	110	130	160	14									
	71B14	70	85	105	14									
	63B5	95	115	140	11	B	B	B	B	B	B	B		
	63B14	60	75	90	11									
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B
050/110	80B5	130	165	200	19									
	80B14	80	100	120	19									
	71B5	110	130	160	14	B	B	B	B	B	B			
	71B14	70	85	105	14									
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B
063/130	90B5	130	165	200	24									
	90B14	95	115	140	24									
	80B5	130	165	200	19	B	B	B	B	B	B			
	80B14	80	100	120	19									
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B
	71B14	70	85	105	14									
	63B5	95	115	140	11							BS	BS	BS



CMM	IEC	N	M	P	D	i ₁								
						7.5	10	15	20	25	30	40	50	60
030/040 030/050	63B14	60	75	90	11									
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80	9									
030/063	63B5	95	115	140	11									
	63B14	60	75	90	11									
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80	9									
040/075 040/090	71B14	70	85	105	14									
	63B5	95	115	140	11	B	B	B	B	B	B			
	63B14	60	75	90	11									
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B
050/110	56B14	50	65	80	9									
	80B14	80	100	120	19									
	71B5	110	130	160	14	B	B	B	B	B	B			
	71B14	70	85	105	14									
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B
063/130	63B14	60	75	90	11									
	90B14	95	115	140	24									
	80B14	80	100	120	19	B	B	B	B	B	B			
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B
	71B14	70	85	105	14									
63B5	95	115	140	11							BS	BS	BS	

CMM





Dimensioni

Dimensions

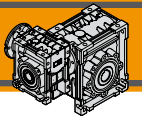
CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{h8}	N1	N2
026/026	45	70	12	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21

CMM..U - CMM..F - CMM..FB - CMM..FL															
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg	
026/026	6	—	37	49	49	5	15	21	76	7	—	4	13.8	1.6	
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x11(n.4)	90°	5	16.3	2.4	
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	3.5	
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	5.0	

	CMM..F								CMM..FB								CMM..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	
026/026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
026/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70								—									
026/040	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	9(n.4)	110	95	
026/050	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	

CMMIS						
	A	B	D1 _{j6}	E	F	M
026/026 026/030 026/040 026/050	45	20	9	M4	3	10.2

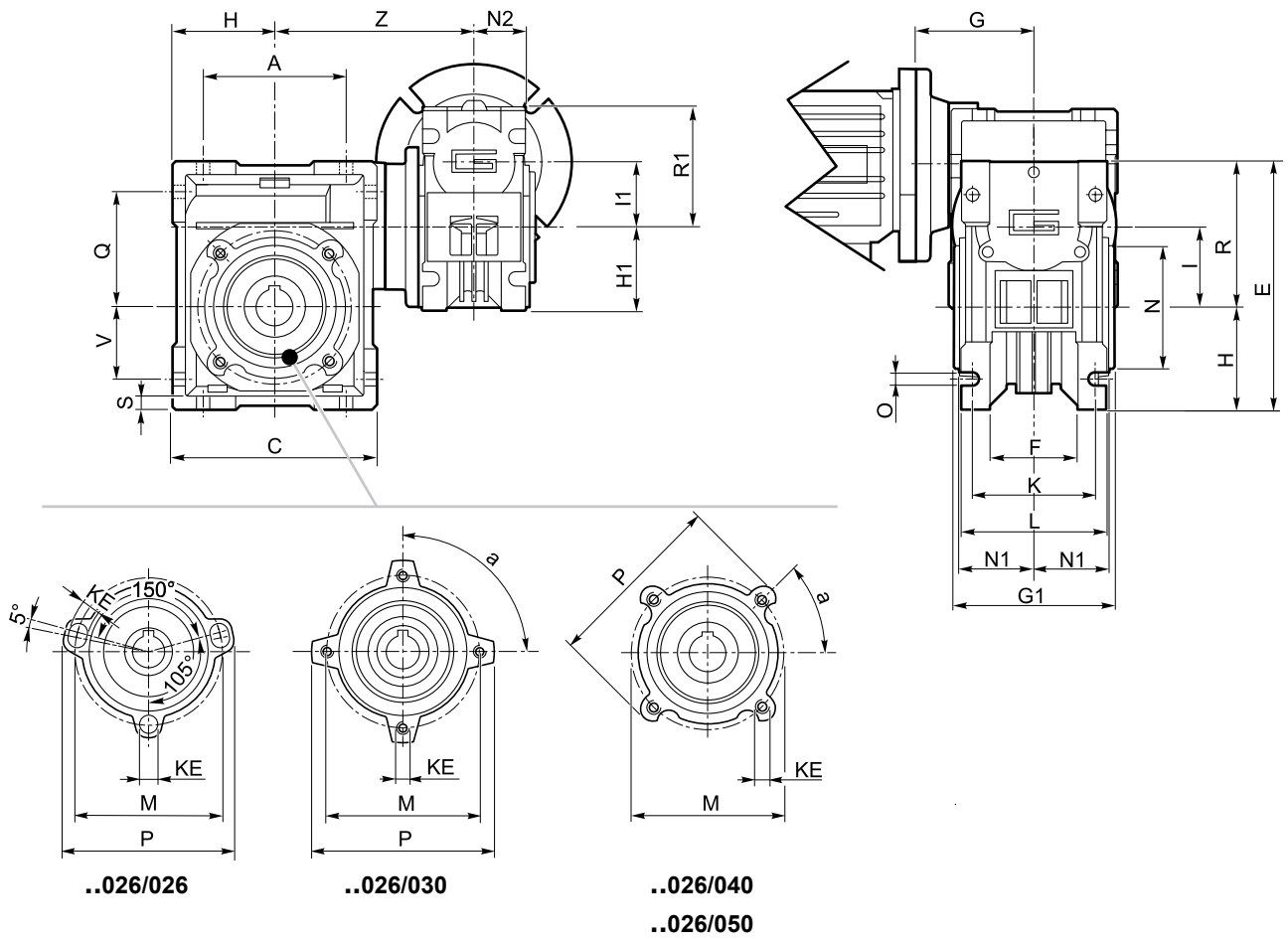
The technical drawing shows a cross-section of a gear assembly. Dimension A is the total width of the housing. Dimension B is the width of the gear housing. Dimension E is the distance from the front face to the gear center. Dimension F is the gear face width. Dimension G is the gear thickness. Dimension D1 j6 is the gear pitch diameter.



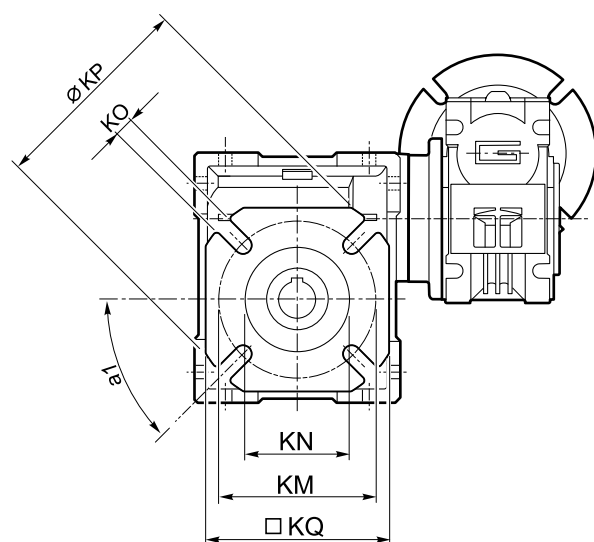
Dimensioni

Dimensions

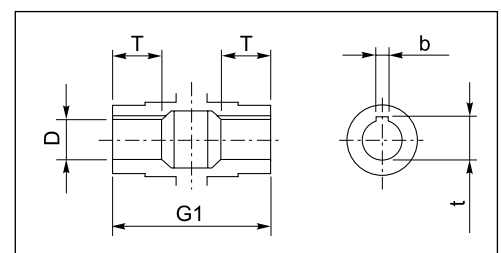
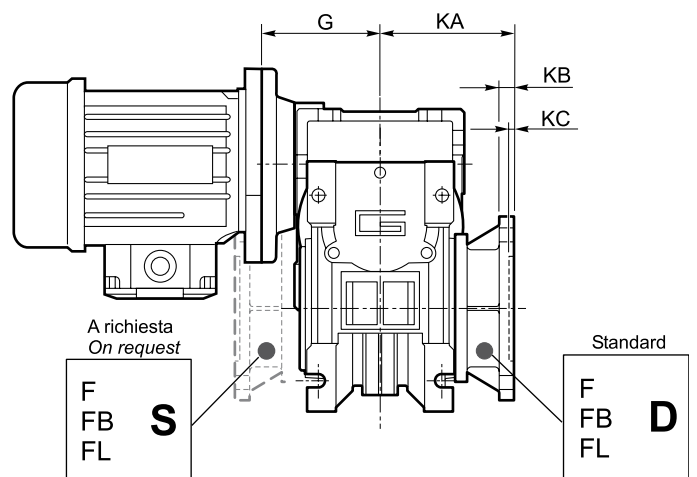
CMM026/..U



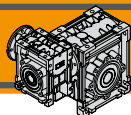
CMM



CMM026/..F
CMM026/..FB
CMM026/..FL



Albero lento cavo / Hollow output shaft



Dimensioni

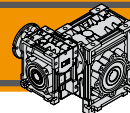
Dimensions

CMM.. - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5
063/130	200	292.5	45	335	—	95	170	147.5	72	130	63	120	155	215	180	81	53

CMM.. - CMM..F - CMM..FB - CMM..FL														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8 (21.8)	3.9
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3 (27.3)	5.0
030/063	8.5	110	80	102	57	8	36	50	145	M8x10(n.8)	45°	8	28.3	7.0
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	12.0
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	15.6
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	30.2
063/130	16	250	140	187.5	102	15	60	100	245	M12x21(n.8)	45°	14	48.8	55.0

	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
030/040	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	97	7.5	4.5	80-95	60	9(n.4)	110	95
030/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110
030/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142
040/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
050/110	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
063/130	22.5°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

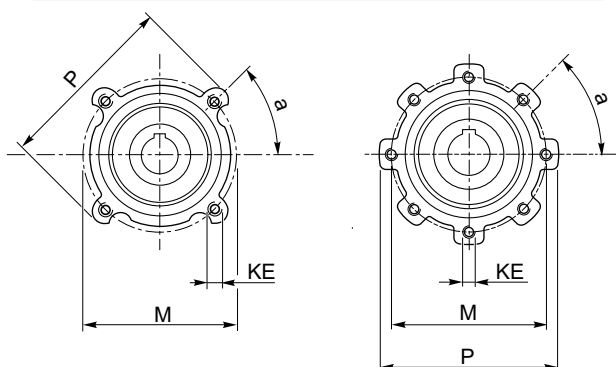
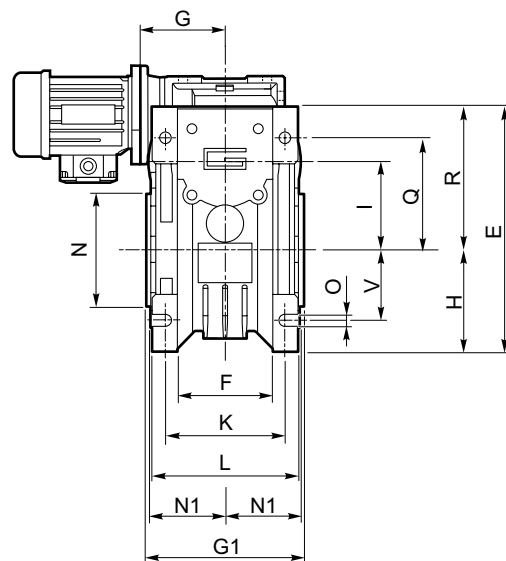
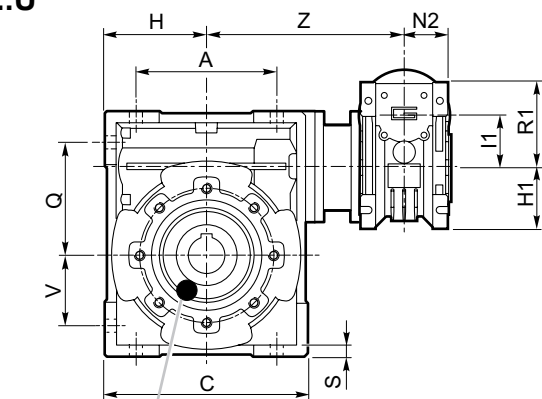
CMMIS						
	A	B	D1 _{j6}	E	F	M
030/040 030/050 030/063	51	20	9	M4	3	10.2
040/075 040/090	66	23	11	M5	4	12.5
050/110	76	30	14	M6	5	16
063/130	94.5	40	19	M6	6	21.5



Dimensioni

Dimensions

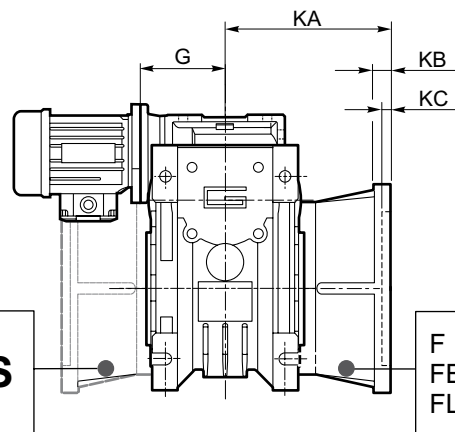
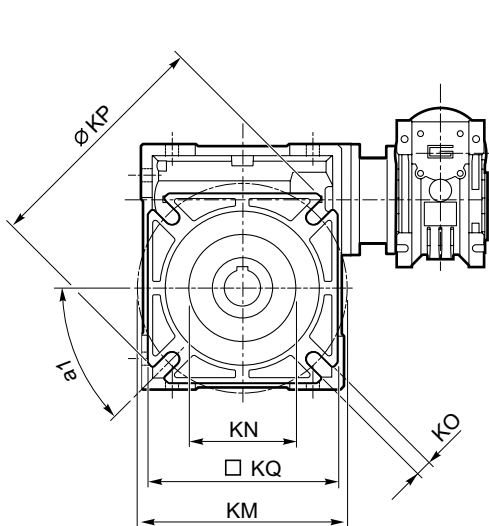
CMM..U



..030/040
..030/050

..030/063 ..040/075
..040/090 ..050/110
..063/130

CMM



CMM..F (../030 - ../090)

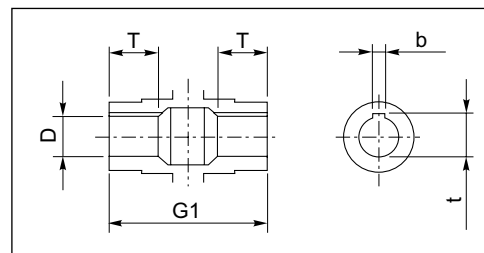
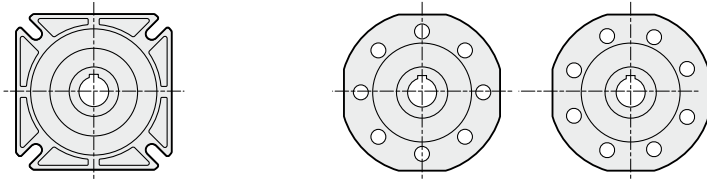
CMM..FB (../040 - ../063)

CMM..FL (../040 - ../063)

CMM..F

(../110

../130)



Albero lento cavo / Hollow output shaft