

2009 SECOND
EDITION

● ● ●
TRANSTECNOTM
THE MODULAR GEARMOTOR

CATALOGO GENERALE
STOCK CATALOGUE

NEWS

Sezione serie CMB
CMB series section

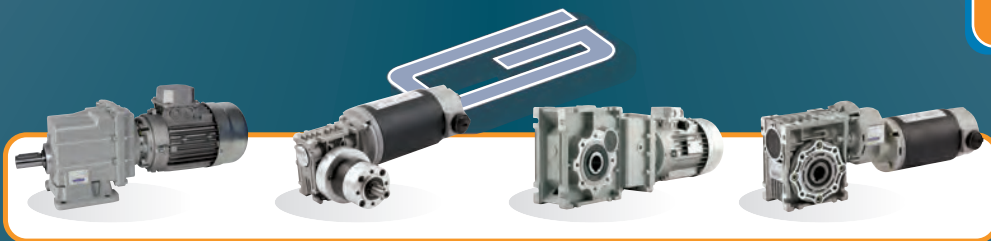
Nuova sezione serie CMP
CMP series new section

Sezione serie CMGV
CMGV series section

Sezione serie PHP
PHP series section

Rapporto 1/5 serie CM
1:5 ratio in CM series

Combinati
WMM26/040 - WMM26/050
WMM26/040 - WMM26/050
Combination gearboxes



THE COMPLETE PRODUCTION RANGE



www.transtecno.com

Simbologia

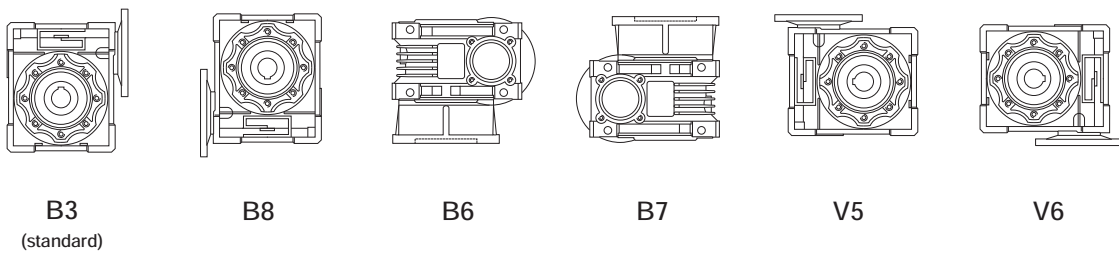
Symbols

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>	Rd %	Rendimento dinamico / <i>Dynamic efficiency</i>
i	Rapporto di riduzione / <i>Ratio</i>	Rs %	Rendimento statico / <i>Static efficiency</i>
P_1 [kW]	Potenza in entrata / <i>Input power</i>	R_2 [N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
M_n [Nm]	Coppia nominale in uscita / <i>Nominal output torque</i>	Z	Numero di principi della vite / <i>Worm starts</i>
M_2 [Nm]	Coppia in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>	β	Angolo d'elica / <i>Helix angle</i>

Posizioni di montaggio

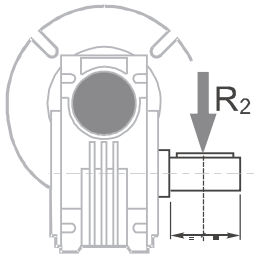
Mounting positions

Posizioni di montaggio / *Mounting positions*



	Quantità di olio (litri) / <i>Oil quantity (liters)</i>					
	B3	B8	B6	B7	V5	V6
CM030	0.04					
CM040	0.08					
CM050	0.15					
CM063	0.30					
CM075	0.55					
CM090	1.0					
CM110	3.0	2.2	2.5	2.5	3.0	2.2
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita
Life lubricated

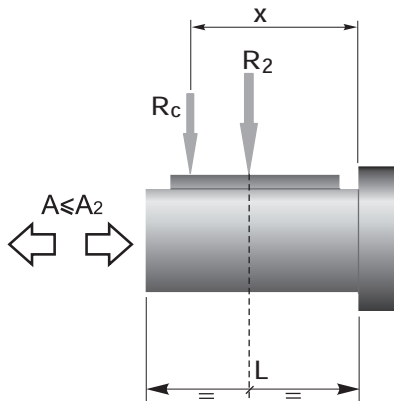


$$A_2 = R_2 \times 0.2$$

n_2 [min ⁻¹]	R_2 [N]							
	CM030	CM040	CM050	CM063	CM075	CM090	CM110	CM130
187	674	1264	1770	2445	2824	3161	5058	5732
140	743	1392	1949	2692	3110	3481	5570	6313
93	851	1596	2234	3085	3564	3990	6384	7235
70	936	1754	2456	3392	3918	4386	7018	7953
56	1008	1890	2646	3654	4221	4725	7560	8567
47	1069	2004	2805	3874	4475	5009	8014	9083
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 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

	CM							
	030	040	050	063	075	090	110	130
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 di dentatura





Toothing data

	Dati della coppia vite-corona Worm wheel data	Rapporto / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM030	Z	6	4	3	2	2	1	1	1	1	1	1	
	β	27° 04'	18°55'	14°25'	9°44'	7°49'	5°33'	4°54'	3°55'	3°17'	2°43'	2°07'	
CM040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	23°54'	18°23'	12°30'	10°03'	8°45'	6°19'	5°04'	4°24'	3°42'	2°52'	2°29'
CM050	Z		4	3	2	2	2	1	1	1	1	1	1
	β		23°49'	18°19'	12°27'	10°03'	8°33'	6°18'	5°04'	4°18'	3°38'	2°52'	2°17'
CM063	Z		4	3	2	2	2	1	1	1	1	1	1
	β		24°31'	18°53'	12°51'	10°29'	8°45'	6°30'	5°17'	4°24'	3°49'	2°59'	2°26'
CM075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26°38'	20°37'	14°05'	11°19'	9°29'	7°09'	5°43'	4°46'	4°01'	3°17'	2°44'
CM090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29°05'	22°39'	15°33'	12°50'	10°53'	7°55'	6°30'	5°29'	4°46'	3°45'	3°06'
CM110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28°15'	21°57'	15°02'	14°42'	12°33'	7°39'	7°29'	6°21'	5°33'	4°27'	3°39'
CM130	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28°43'	22°20'	15°19'	13°47'	11°54'	7°48'	7°00'	6°01'	5°16'	4°08'	3°27'

Rendimento





Efficiency





	n ₁ [min ⁻¹]	Rendimento Efficiency	Rapporto / Ratio												
			5	7.5	10	15	20	25	30	40	50	60	80	100	
CM030	2800	Rd	94	86	85	80	78	74	70	65	62	56	50		
			1400	90	85	82	77	73	67	65	58	54	50	43	
			900	89	82	80	74	70	64	61	54	50	46	40	
			Rs	66	62	56	50	43	40	36	32	28	25		
CM040	2800	Rd	95	87	86	83	80	76	73	70	68	63	58	53	
			1400	92	86	84	81	77	73	70	65	62	58	52	47
			900	90	85	82	78	74	70	66	62	58	54	47	43
			Rs	69	65	59	53	50	47	40	38	32	30	25	
CM050	2800	Rd	89	87	84	82	79	76	73	68	65	59	53		
			1400	86	84	81	78	75	71	67	63	58	52	47	
			900	85	82	78	75	72	67	62	59	55	47	42	
			Rs	69	66	58	53	50	46	40	36	34	28	24	
CM063	2800	Rd	88	87	84	83	80	77	73	71	66	61	56		
			1400	87	86	84	81	77	73	70	66	60	55	50	
			900	86	83	80	77	75	70	67	62	57	51	47	
			Rs	70	67	59	55	50	47	40	37	35	29	25	
CM075	2800	Rd	89	88	86	83	81	78	76	72	70	64	60		
			1400	88	86	83	81	78	75	71	67	63	58	53	
			900	87	85	82	79	76	72	66	61	59	54	50	
			Rs	70	68	60	56	53	47	41	38	35	29	26	
CM090	2800	Rd	90	89	87	86	84	80	79	76	74	69	64		
			1400	88	87	85	83	82	76	74	72	69	63	58	
			900	87	85	83	80	78	73	71	68	64	59	54	
			Rs	72	69	62	58	54	48	44	39	37	31	27	
CM110	2800	Rd	90	89	88	87	86	81	80	78	76	71	68		
			1400	89	87	85	84	83	77	76	74	72	67	62	
			900	88	86	83	82	81	75	73	71	68	61	57	
			Rs	72	69	62	61	58	48	46	42	39	34	30	
CM130	2800	Rd	90	89	88	87	86	82	80	79	77	72	70		
			1400	89	88	86	84	83	79	76	75	73	69	64	
			900	88	87	84	82	81	77	74	73	70	64	59	
			Rs	72	69	62	61	59	49	46	43	39	34	30	

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i																		
0.06							0.12																						
56A4 (1400 min ⁻¹)	280	2	8.7	5	CM030	B5/B14	56B2 (2800 min ⁻¹)	560	2	6.2	5	CM030	B5/B14																
	187	3	6.5	7.5				373	3	4.5	7.5			B5/B14															
	140	3	5.1	10				280	3	3.4	10				B5/B14														
	93	5	3.8	15				187	5	2.4	15					B5/B14													
	70	6	3.0	20				140	6	1.9	20						B5/B14												
	56	7	2.9	25				112	8	2.0	25							B5/B14											
	47	8	2.5	30				93	9	1.7	30								B5/B14										
	35	9	1.9	40				70	11	1.3	40									B5/B14									
	28	11	1.6	50				56	13	0.9	50										B5/B14								
	23	12	1.2	60				47	14	0.8	60											B5/B14							
	18	14	0.9	80				93	9	3.6	30												CM040	B5					
	28	13	3.0	50				70	11	2.8	40														B5				
	23	14	2.5	60				56	14	2.0	50															B5			
	18	17	1.9	80				47	15	1.8	60																B5		
	14	19	1.5	100				35	19	1.3	80																	B5	
								28	22	1.0	100																		B5
0.09							63A4 (1400 min ⁻¹)	280	4	4.3	5	CM030	B5/B14																
56A2 (2800 min ⁻¹)	140	5	2.5	20	CM030	B5/B14		187	5	3.3	7.5			B5/B14															
	112	6	2.6	25				140	7	2.5	10				B5/B14														
	93	6	2.3	30				93	9	1.9	15					B5/B14													
	70	8	1.8	40				70	12	1.5	20						B5/B14												
	56	10	1.3	50				56	14	1.5	25							B5/B14											
	47	10	1.1	60				47	16	1.3	30								B5/B14										
	35	12	0.9	80				35	19	0.9	40									B5/B14									
								28	22	0.8	50										B5/B14								
56B4 (1400 min ⁻¹)	280	3	5.8	5	CM030	B5/B14		280	4	9.6	5			CM040								B5/B14							
	187	4	4.3	7.5				187	5	7.2	7.5				B5/B14														
	140	5	3.4	10				140	7	5.5	10					B5/B14													
	93	7	2.5	15				93	10	3.8	15						B5/B14												
	70	9	2.0	20				70	13	3.1	20							B5/B14											
	56	10	1.9	25				56	15	2.5	25								B5/B14										
	47	12	1.7	30				47	17	2.6	30									B5/B14									
	35	14	1.3	40			35	21	1.9	40	B5/B14																		
	28	17	1.1	50			28	25	1.5	50		B5/B14																	
	23	18	0.8	60			23	28	1.3	60			B5/B14																
18	21	0.6	80	18	34	1.0	80	B5/B14																					
				14	38	0.8	100		B5/B14																				
				35	22	3.5	40			CM050				B5															
				28	26	2.8	50								B5														
				23	28	2.3	60									B5													
				18	34	1.8	80										B5												
				14	38	1.4	100											B5											
63A6 (900 min ⁻¹)	180	4	4.5	5	CM030	B5/B14	63B6 (900 min ⁻¹)				180								6	3.4	5	CM030	B5/B14						
	120	6	3.2	7.5							120	8							2.4	7.5	B5/B14								
	90	8	2.5	10							90	10	1.9						10	B5/B14									
	60	11	1.8	15				60			14	1.3	15						B5/B14										
	45	13	1.4	20				45	18		1.1	20	B5/B14																
	36	15	1.4	25				36	20	1.1	25	B5/B14																	
	30	17	1.3	30				60	15	3.0	15			CM040	B5/B14														
	23	21	1.0	40				45	19	2.3	20					B5/B14													
								36	22	2.0	25						B5/B14												
								30	25	1.9	30							B5/B14											
								23	32	1.4	40													B5/B14					
								18	37	1.1	50														B5/B14				
								30	26	3.4	30															CM050	B5		
								23	32	2.5	40																	B5	
								18	38	2.0	50																		B5
								15	42	1.7	60																		
				11	48	1.4	80	B5																					
				9	53	1.0	100		B5																				
				15	32	2.2	60			CM050	B5																		
				11	36	1.8	80												B5										
				9	40	1.4	100						B5																

Dati tecnici





Technical data





P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i				
0.18							0.25								
63A2 (2800 min ⁻¹)	560	3	4.2	5	CM030	B5/B14	63B2 (2800 min ⁻¹)	560	4	3.0	5	CM030	B5/B14		
	373	4	3.0	7.5				B5/B14	373	5	2.2			7.5	B5/B14
	280	5	2.3	10				B5/B14	280	7	1.7			10	B5/B14
	187	7	1.6	15				B5/B14	187	10	1.2			15	B5/B14
	140	10	1.3	20				B5/B14	140	13	0.9			20	B5/B14
	112	11	1.3	25				B5/B14	112	16	1.0			25	B5/B14
	93	13	1.2	30	B5/B14	140		14	2.1	20	CM040	B5/B14			
	140	10	2.9	20	CM040	B5/B14		112	16	1.7			25	B5/B14	
	112	12	2.4	25				B5/B14	93	19			1.7	30	B5/B14
	93	13	2.4	30				B5/B14	70	24	1.3	40	B5/B14		
	70	17	1.9	40				B5/B14	56	29	1.0	50	B5/B14		
	56	21	1.3	50				B5/B14	47	33	1.5	60	CM050	B5	
	47	23	1.2	60				B5/B14	35	40	1.1	80			B5
	56	21	2.5	50	CM050	B5		28	45	0.9	100	B5			
	47	24	2.1	60				B5							
	35	29	1.6	80				B5							
28	33	1.2	100	B5											
63B4 (1400 min ⁻¹)	280	6	2.9	5	CM030	B5/B14	71A4 (1400 min ⁻¹)	280	8	4.6	5	CM040	B5/B14		
	187	8	2.2	7.5				B5/B14	187	11	3.5			7.5	B5/B14
	140	10	1.7	10				B5/B14	140	14	2.7			10	B5/B14
	93	14	1.3	15				B5/B14	93	21	1.8			15	B5/B14
	70	18	1.0	20				B5/B14	70	26	1.5			20	B5/B14
	56	21	1.0	25				B5/B14	56	31	1.2			25	B5/B14
	47	24	0.8	30	B5/B14	47		36	1.2	30	B5/B14				
	280	6	6.4	5	CM040	B5/B14		35	44	0.9	40	B5/B14			
	187	8	4.4	7.5				B5/B14	70	27	2.7	20	CM050	B5/B14	
	140	10	3.7	10				B5/B14	56	32	2.2	25			B5/B14
	93	15	2.5	15				B5/B14	47	36	2.3	30			B5/B14
	70	19	2.1	20				B5/B14	35	46	1.7	40	B5/B14		
	56	22	1.7	25				B5/B14	28	54	1.3	50	B5/B14		
	47	25	1.7	30	B5/B14	23		59	1.1	60	B5/B14				
	35	32	1.3	40	B5/B14	18		71	0.9	80	B5/B14				
	28	39	1.0	50	B5/B14	28		56	2.4	50	CM063	B5/B14			
23	43	0.8	60	B5/B14	23	61	2.1	60	B5/B14						
35	33	2.3	40	CM050	B5	18	75	1.6	80	B5/B14					
28	39	1.9	50			B5	14	85	1.4	100	B5/B14				
23	43	1.5	60			B5	23	64	3.0	60	CM075	B5			
18	51	1.2	80			B5	18	79	2.4	80			B5		
14	58	0.9	100	B5	14	90	1.9	100	B5						
71A6 (900 min ⁻¹)	180	9	4.9	5	CM040	B5/B14	71B6 (900 min ⁻¹)	180	12	3.5	5	CM040	B5/B14		
	120	12	3.4	7.5				B5/B14	120	17	2.5			7.5	B5/B14
	90	16	2.7	10				B5/B14	90	22	1.9			10	B5/B14
	60	22	2.0	15				B5/B14	60	31	1.4			15	B5/B14
	45	28	1.6	20				B5/B14	45	39	1.1			20	B5/B14
	36	33	1.3	25				B5/B14	45	40	1.9			20	CM050
	30	38	1.3	30	B5/B14	36		48	1.6	25	B5/B14				
	36	34	2.2	25	CM050	B5/B14		30	53	1.6	30	B5/B14			
	30	38	2.2	30				B5/B14	23	66	1.2	40	B5/B14		
	23	47	1.7	40				B5/B14	18	78	1.0	50	B5/B14		
	18	56	1.3	50				B5/B14	18	82	1.8	50	CM063	B5/B14	
	15	63	1.1	60				B5/B14	15	91	1.5	60			B5/B14
	15	63	1.1	60				B5/B14	11	108	1.2	80			B5/B14
	15	65	2.1	60	CM063	B5/B14		9	125	1.0	100	B5/B14			
	11	78	1.6	80				B5/B14							
	9	90	1.4	100				B5/B14							

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i					
0.37							0.55									
71A2 (2800 min ⁻¹)	560	6	4.3	5	CM040	B5/B14	71B2 (2800 min ⁻¹)	560	9	2.9	5	CM040	B5/B14			
	373	8	3.2	7.5		B5/B14		373	12	2.1	7.5		B5/B14			
	280	11	2.6	10		B5/B14		280	16	1.7	10		B5/B14			
	187	16	1.9	15		B5/B14		187	23	1.3	15		B5/B14			
	140	20	1.4	20		B5/B14		140	31	1.7	20		CM050	B5/B14		
	112	24	1.2	25	B5/B14											
	93	28	1.2	30	B5/B14											
	70	37	1.6	40	CM050	B5/B14										
	56	43	1.2	50		B5/B14										
	47	49	1.0	60		B5/B14										
71B4 (1400 min ⁻¹)	280	12	3.1	5	CM040	B5/B14	47	74	1.2	60	CM063	B5/B14				
	187	16	2.3	7.5		B5/B14										
	140	21	1.8	10		B5/B14										
	93	31	1.2	15		B5/B14										
	70	39	1.0	20		B5/B14										
	56	46	0.8	25	B5/B14											
	47	53	0.8	30	B5/B14											
	70	39	1.8	20	CM050	B5/B14					80A4 (1400 min ⁻¹)	187	24	2.9	CM050	B5/B14
	56	47	1.5	25		B5/B14										
	47	54	1.5	30		B5/B14										
	35	68	1.1	40		B5/B14										
	28	80	0.9	50		B5/B14										
	23	88	0.8	60	B5/B14											
	28	83	1.6	50	CM063	B5/B14	93	47	2.9	15					CM063	B5/B14
	23	91	1.4	60		B5/B14										
	18	111	1.1	80		B5/B14										
	14	126	0.9	100		B5/B14										
	28	85	2.5	50		CM075					B5					
23	95	2.0	60	B5												
18	117	1.6	80	B5												
14	134	1.3	100	B5												
80A6 (900 min ⁻¹)	60	46	1.8	15	CM050						B5/B14	23	155	2.0	60	CM090
	45	59	1.3	20		B5/B14										
	36	71	1.1	25		B5/B14										
	30	79	1.1	30		B5/B14										
	36	74	1.9	25		CM063	B5/B14									
	30	82	2.0	30	B5/B14											
	23	105	1.5	40	B5/B14											
	18	122	1.2	50	B5/B14											
	15	134	1.0	60	B5/B14											
	18	120	1.8	50	CM075	B5/B14	80B6 (900 min ⁻¹)	120	37	2.2	CM050					B5/B14
	15	139	1.5	60		B5/B14										
	11	170	1.1	80		B5/B14										
	9	196	1.0	100		B5/B14										
	90	48	1.7	10		B5/B14										
60	68	1.2	15	B5/B14												
45	90	1.6	20	CM063	B5/B14	36					109	1.3	25	CM063	B5/B14	
30	123	1.3	30		B5/B14											
23	156	1.0	40		B5/B14											
18	178	1.2	50		B5/B14											
15	207	1.0	60		B5/B14											
11	275	1.1	80	CM090	B5/B14		11	315	0.9	100				CM090	B5/B14	
9	315	0.9	100		B5/B14											
11	285	1.9	80		CM110										B5	
9	333	1.5	100												B5	

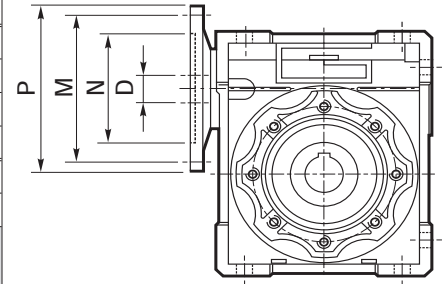
Dati tecnici

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i				
0.75							1.1								
80A2 (2800 min ⁻¹)	373	17	2.9	7.5	CM050	B5/B14	80B2 (2800 min ⁻¹)	373	25	2.0	7.5	CM050	B5/B14		
	280	22	2.3	10		B5/B14		280	33	1.6	10		B5/B14		
	187	32	1.7	15		B5/B14		187	47	1.2	15		B5/B14		
	140	42	1.2	20		B5/B14		140	62	1.6	20		CM063	B5/B14	
	112	51	1.0	25		B5/B14			112	75	1.2			25	B5/B14
	93	58	1.0	30		B5/B14			93	87	1.2			30	B5/B14
	93	59	1.7	30	CM063	B5/B14			93	88	1.7	30		CM075	B5/B14
	70	75	1.3	40		B5/B14		70	114	1.3	40	B5/B14			
	56	91	1.0	50		B5/B14		56	135	1.0	50	B5/B14			
	35	131	1.0	80	CM075	B5/B14		47	167	1.4	60	CM090	B5/B14		
	28	153	0.8	100		B5/B14		35	207	1.0	80		B5/B14		
	35	141	1.5	80	CM090	B5/B14		28	240	0.8	100	B5/B14			
	28	164	1.2	100		B5/B14									
	80B4 (1400 min ⁻¹)	187	33	2.1	7.5	CM050		B5/B14	90S4 (1400 min ⁻¹)	187	49	2.6	7.5	CM063	B5/B14
140		43	1.7	10	B5/B14		140	65		2.0	10	B5/B14			
93		62	1.2	15	B5/B14		93	95		1.4	15	B5/B14			
70		80	0.9	20	B5/B14		70	122		1.1	20	B5/B14			
56		96	0.7	25	B5/B14		56	144		0.9	25	B5/B14			
47		109	0.8	30	B5/B14		47	164		1.0	30	B5/B14			
187		33	3.7	7.5	CM063	B5/B14	187	50		3.6	7.5	CM075	B5/B14		
140		44	3.0	10		B5/B14	140	65		2.9	10		B5/B14		
93		64	2.1	15		B5/B14	93	93		2.1	15		B5/B14		
70		83	1.6	20		B5/B14	70	122		1.6	20		B5/B14		
56		98	1.4	25		B5/B14	56	146		1.3	25		B5/B14		
47		112	1.4	30		B5/B14	47	169		1.3	30		B5/B14		
35		143	1.0	40		B5/B14	35	213		1.0	40		B5/B14		
28		169	0.8	50		B5/B14									
70		83	2.4	20	CM075	B5/B14	56	154		2.2	25	CM090	B5/B14		
56		100	2.0	25		B5/B14	47	171		2.3	30		B5/B14		
47		114	2.0	30		B5/B14	35	222		1.6	40		B5/B14		
35		143	1.5	40		B5/B14	28	270		1.3	50		B5/B14		
28		171	1.2	50		B5/B14	23	311		1.0	60		B5/B14		
23		193	1.0	60		B5/B14									
18		237	0.8	80	CM090	B5/B14	35	228		2.7	40	CM110	B5		
35		151	2.3	40		B5/B14	28	278		2.2	50		B5		
28		184	1.8	50		B5/B14	23	324		1.7	60		B5		
23		212	1.5	60		B5/B14	18	402		1.2	80		B5		
18	258	1.1	80	B5/B14		14	465	1.0	100	B5					
14	297	0.9	100	B5/B14											
18	274	1.8	80	CM110	B5	23	329	2.7	60	CM130	B5				
14	317	1.4	100		B5	18	414	2.0	80		B5				
						14	480	1.5	100	B5					
90S6 (900 min ⁻¹)	45	126	1.8	20	CM075	B5/B14	90L6 (900 min ⁻¹)	120	75	1.9	7.5	CM063	B5/B14		
	36	151	1.4	25		B5/B14		90	97	1.5	10		B5/B14		
	30	172	1.5	30		B5/B14		60	140	1.1	15		B5/B14		
	23	210	1.1	40		B5/B14		45	184	1.2	20		CM075	B5/B14	
	18	271	1.4	50	B5/B14	36		222	0.9	25	B5/B14				
	15	306	1.1	60	B5/B14	30		252	1.0	30	B5/B14				
						CM090		B5/B14	23	331	1.2	40	CM090	B5/B14	
								18	397	1.0	50	B5/B14			
						CM110		B5	15	476	1.3	60	CM110	B5	
								11	570	0.9	80	B5			
									11	598	1.5	80	CM130	B5	
							9	689	1.1	100	B5				

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i					
1.5							1.85									
90S2 (2800 min ⁻¹)	373	34	2.7	7.5	CM063	B5/B14 B5/B14 B5/B14 B5/B14	90LB4 (1400 min ⁻¹)	187	82	1.5	7.5	CM063	B5/B14 B5/B14 B5/B14			
	280	45	2.0	10				140	109	1.2	10					
	187	64	1.6	15				93	159	0.8	15					
	140	85	1.2	20				187	83	2.2	7.5					
	112	104	1.4	25	CM075	B5/B14 B5/B14 B5/B14 B5/B14		140	109	1.8	10	CM075	B5/B14 B5/B14 B5/B14 B5/B14			
	93	120	1.3	30				93	157	1.2	15					
	70	156	1.0	40				70	204	1.0	20					
	56	194	1.3	50				56	246	0.8	25					
	47	227	1.0	60	CM090	B5/B14 B5/B14		47	284	0.8	30	CM090	B5/B14 B5/B14			
	90L4 (1400 min ⁻¹)	187	67	1.9				7.5	CM063	B5/B14 B5/B14 B5/B14 B5/B14	93			161	2.2	15
140		88	1.5	10			70	209			1.7			20		
93		129	1.0	15			56	259			1.3			25		
70		166	0.8	20	47	288	1.4	30								
187		68	2.7	7.5	CM075	B5/B14 B5/B14 B5/B14 B5/B14	35	374	0.9	40	CM110	B5 B5 B5 B5				
140		88	2.2	10			47	292	2.2	30						
93		127	1.5	15			35	384	1.6	40						
70		166	1.2	20			28	467	1.3	50						
56		200	1.0	25	CM090	B5/B14 B5/B14 B5/B14 B5/B14	23	545	1.0	60	CM130	B5 B5 B5 B5				
47		230	1.0	30			23	553	1.6	60						
56	210	1.6	25	18			697	1.2	80							
47	233	1.7	30	14			808	0.9	100							
35	303	1.2	40	CM110	B5 B5 B5 B5	2.2										
28	379	1.6	50			90L2 (2800 min ⁻¹)	B5/B14 B5/B14 B5/B14 B5/B14	373	50	1.8	7.5	CM063	B5/B14 B5/B14 B5/B14			
23	442	1.3	60					280	65	1.4	10					
18	548	0.9	80					187	95	1.1	15					
23	448	2.0	60	187	97			1.5	15							
18	565	1.5	80	CM130	B5 B5 B5	140	125	1.2	20	CM075	B5/B14 B5/B14					
14	655	1.1	100			112	158	1.5	25							
100LA6 (900 min ⁻¹)	120	104	2.0			7.5	CM075	B5/B14 B5/B14 B5/B14	93			180	1.7	30	CM090	B5/B14 B5/B14 B5/B14
	90	135	1.7			10			70			237	1.1	40		
	60	196	1.2	15	100LA4 (1400 min ⁻¹)	187			99	1.8	7.5	CM075	B5/B14 B5/B14 B5/B14			
	45	255	1.5	20	140	129			1.5	10						
	36	310	1.2	25	93	187	1.0	15								
	30	349	1.3	30	187	99	2.8	7.5								
	23	465	1.5	40	CM090	B5/B14 B5/B14 B5/B14 B5/B14	140	131	2.3	10	CM090	B5/B14 B5/B14 B5/B14 B5/B14				
	18	565	1.2	50			93	191	1.8	15						
	15	649	1.0	60			70	249	1.4	20						
	11	815	1.1	80			56	308	1.1	25						
9	939	0.8	100	CM130	B5 B5	47	342	1.2	30	CM110	B5 B5 B5 B5					
100LA4 (1400 min ⁻¹)	70	252	2.2			20	CM090	B5/B14 B5/B14 B5/B14 B5/B14	70			252	2.2	20	CM110	B5 B5 B5 B5
	56	311	1.9			25			56			308	1.1	25		
	47	347	1.8			30			47			342	1.2	30		
	35	456	1.3	40	70	252			2.2	20						
	28	555	1.1	50	CM130	B5 B5 B5 B5	23	648	0.9	60	CM130	B5 B5 B5 B5				
	23	648	0.9	60			35	456	2.3	40						
	18	828	1.0	80			28	563	1.7	50						
	14	960	0.8	100			23	657	1.4	60						

	IEC	N	M	P	D	i																	
						5	7.5	10	15	20	25	30	40	50	60	80	100						
CM030	63B5	95	115	140	11																		
	63B14	60	75	90																			
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	B									
	56B14	50	65	80																			
CM040	71B5	110	130	160	14																		
	71B14	70	85	105																			
	63B5	95	115	140	11	B	B	B	B	B	B	B	B										
	63B14	60	75	90																			
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	BS	B	B	B	B						
CM050	80B5	130	165	200	19																		
	80B14	80	100	120																			
	71B5	110	130	160	14	B	B	B	B	B	B												
	71B14	70	85	105																			
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B	B								
CM063	90B5	130	165	200	24																		
	90B14	95	115	140																			
	80B5	130	165	200	19	B	B	B	B	B	B												
	80B14	80	100	120																			
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B									
	71B14	70	85	105																			
CM075	100/112B5	180	215	250	28																		
	100/112B14	110	130	160																			
	90B5	130	165	200	24	B	B	B															
	90B14	95	115	140																			
	80B5	130	165	200	19	BS	BS	BS	B	B	B	B											
	80B14	80	100	120																			
	71B5	110	130	160	14				BS	BS	BS	BS	B	B	B	B							
CM090	100/112B5	180	215	250	28																		
	100/112B14	110	130	160																			
	90B5	130	165	200	24	B	B	B	B	B	B												
	90B14	95	115	140																			
	80B5	130	165	200	19	BS	BS	BS	BS	BS	BS	B	B	B									
	80B14	80	100	120																			
CM110	132B5	230	265	300	38																		
	132B14	130	165	200	38																		
	100/112B5	180	215	250	28	B	B	B	B	B													
	90B5	130	165	200	24	BS	BS	BS	BS	B	B	B	B	B									
	80B5	130	165	200	19							BS	BS	BS	BS	B	B						
CM130	132B5	230	265	300	38																		
	132B14	130	165	200	38																		
	100/112B5	180	215	250	28	B	B	B	B	B	B												
	90B5	130	165	200	24	BS	BS	BS	BS	BS	BS	B	B	B	B								



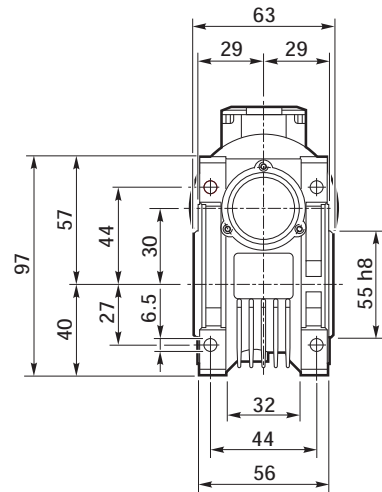
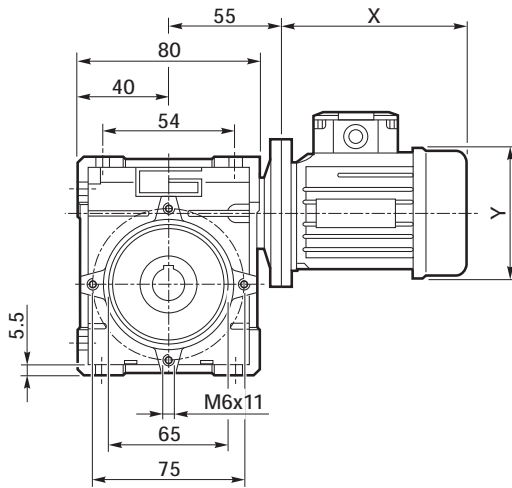
N.B.
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
N.B. Grey areas indicate motor inputs available on each size of unit.

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

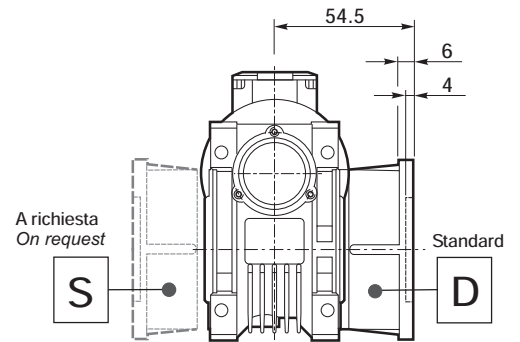
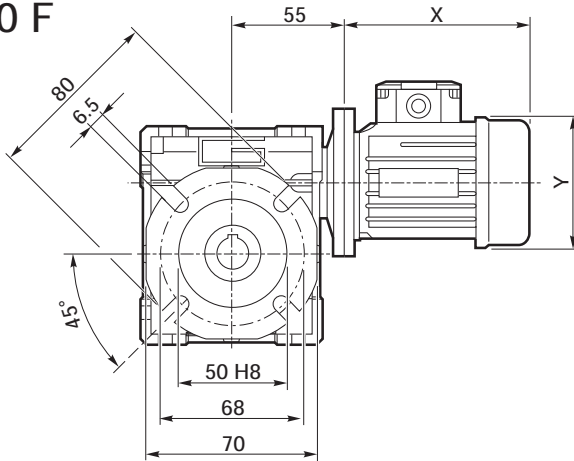
Dimensioni

Dimensions

CM 030 U

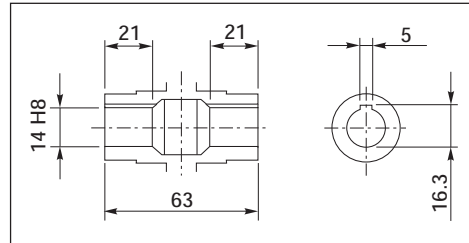
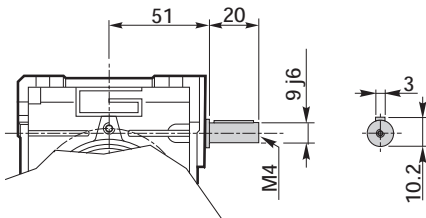


CM 030 F



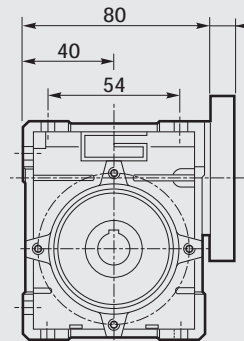
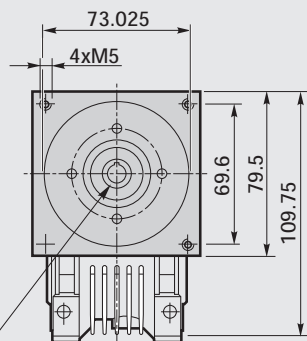
Kg
1.2

CMIS 030 ..



Albero lento cavo / Hollow output shaft

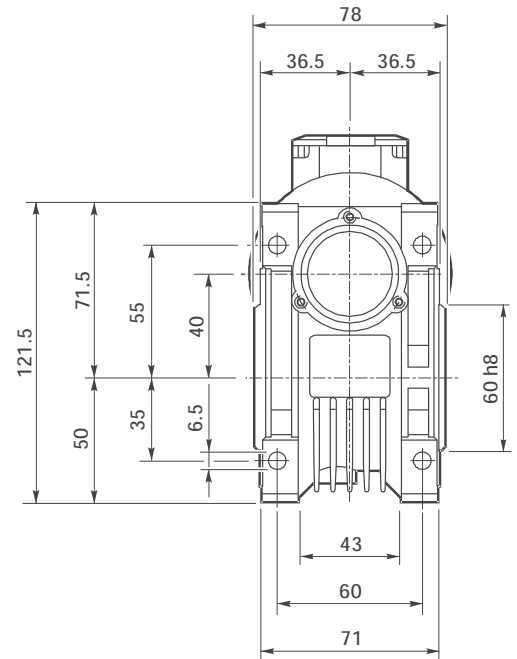
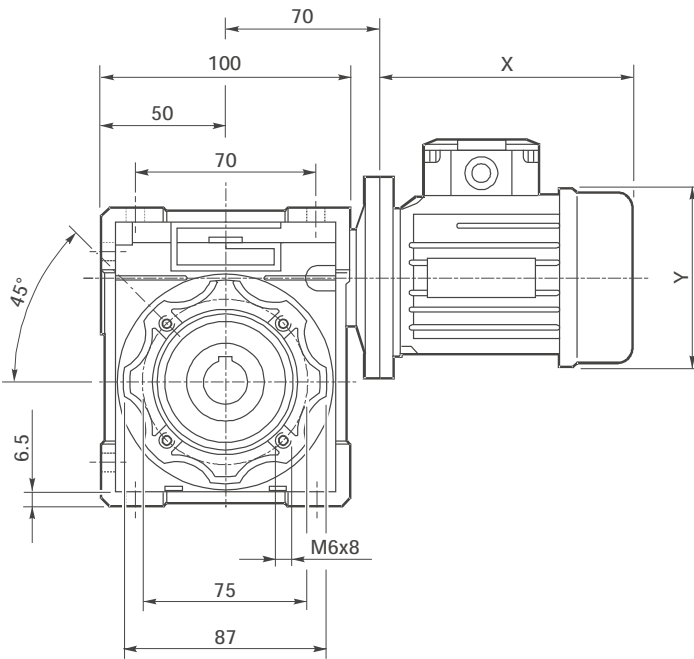
CM 030.. con flangia NEMA34 / with NEMA34 flange



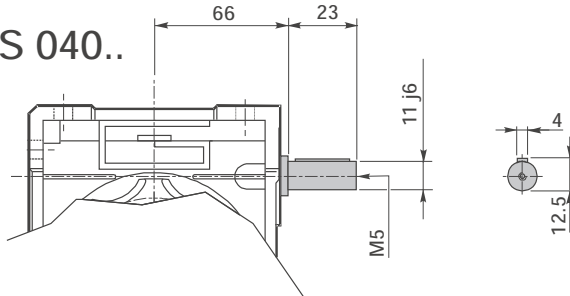
Lo spessore della flangia variabile in funzione delle diverse lunghezze dell'albero motore.
 Flange's thickness may vary depending on motorshaft's length

Connessione con boccia o giunto in funzione del diametro dell'albero motore.
 Connection with sleeve or coupling depending on motorshaft's diameter.

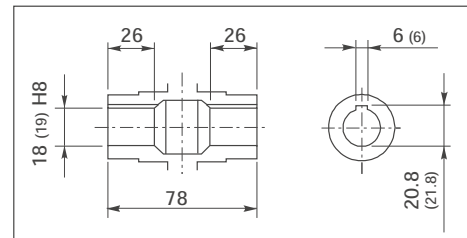
CM 040 U



CMIS 040..

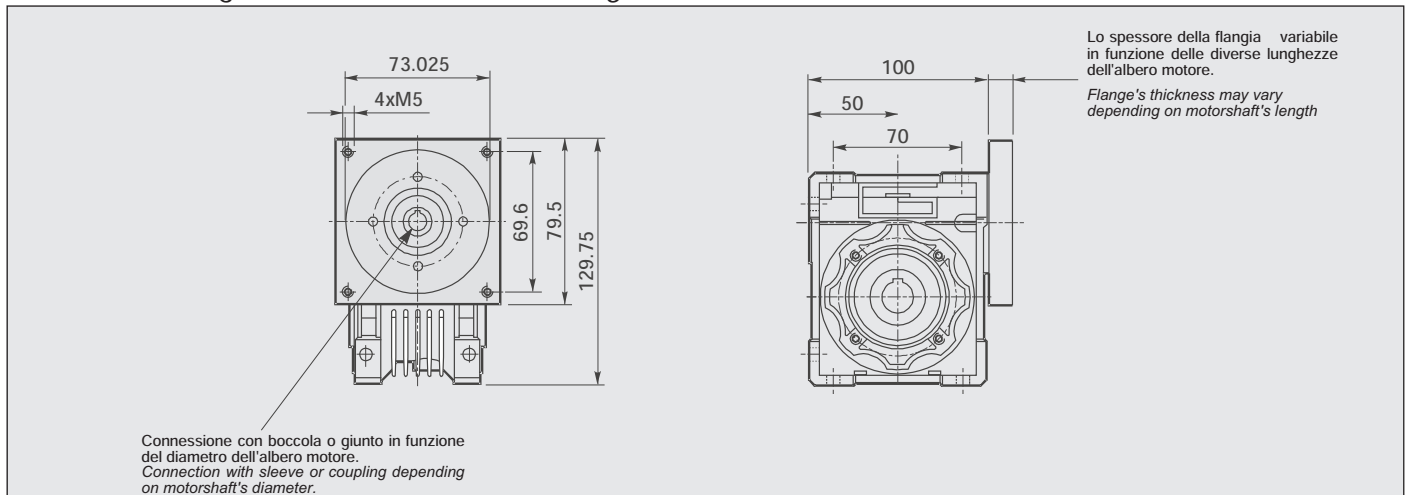


Kg
2.3

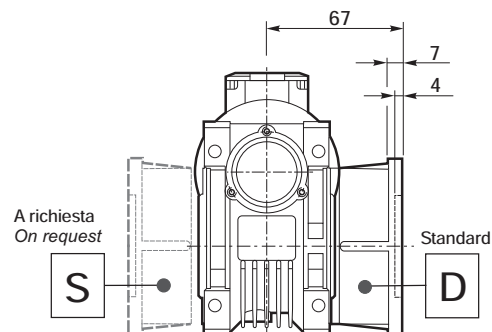
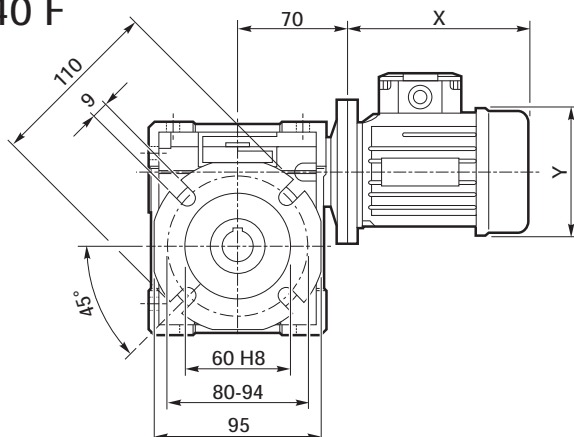


Albero lento cavo / Hollow output shaft

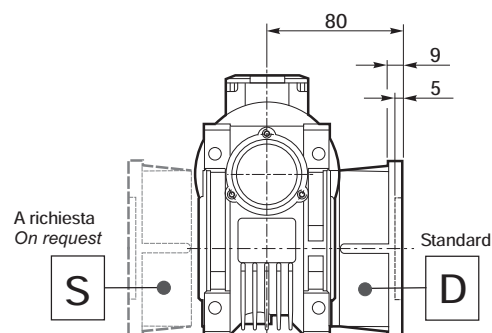
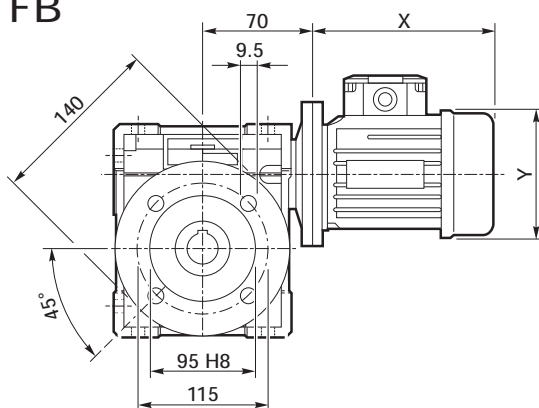
CM 040.. con flangia NEMA34 / with NEMA34 flange



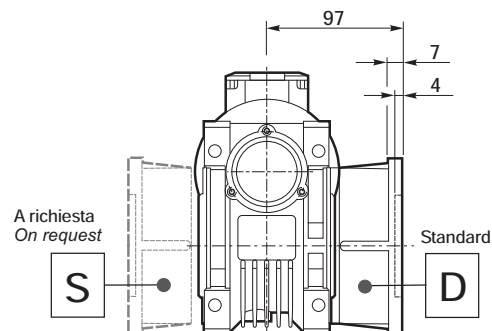
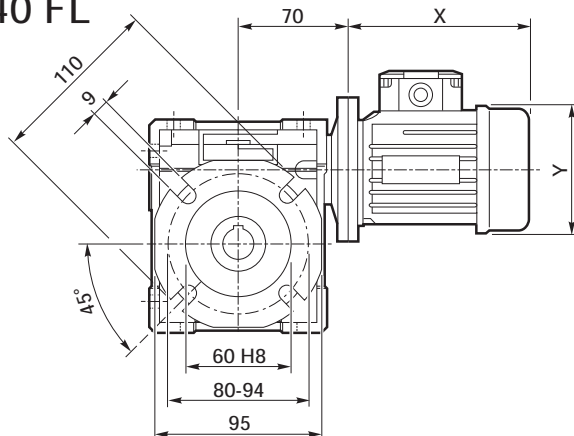
CM 040 F



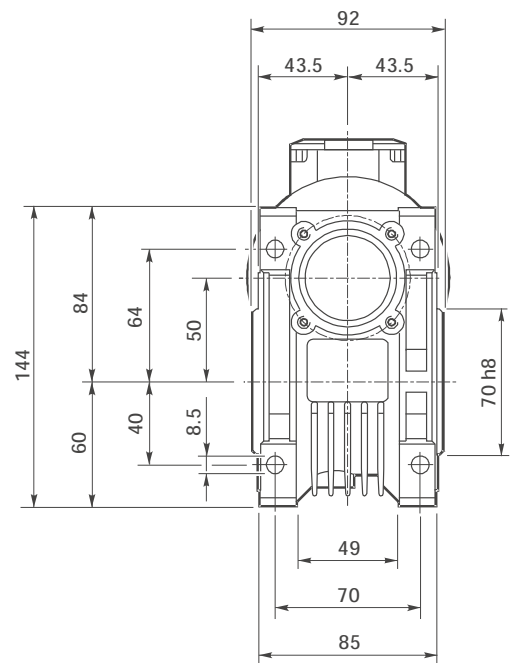
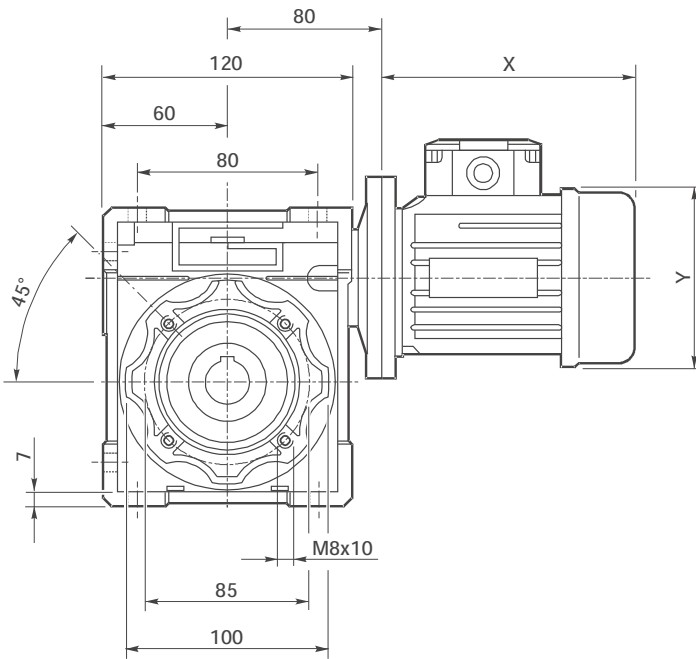
CM 040 FB



CM 040 FL

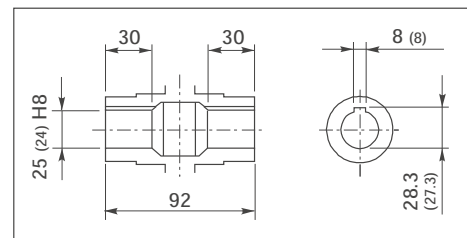
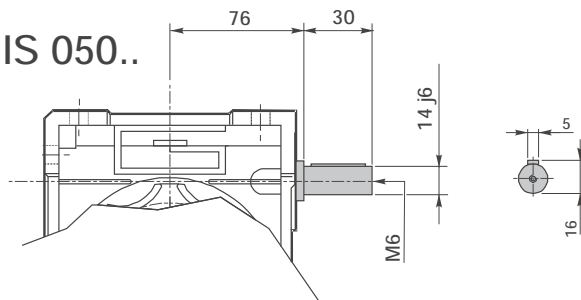


CM 050 U



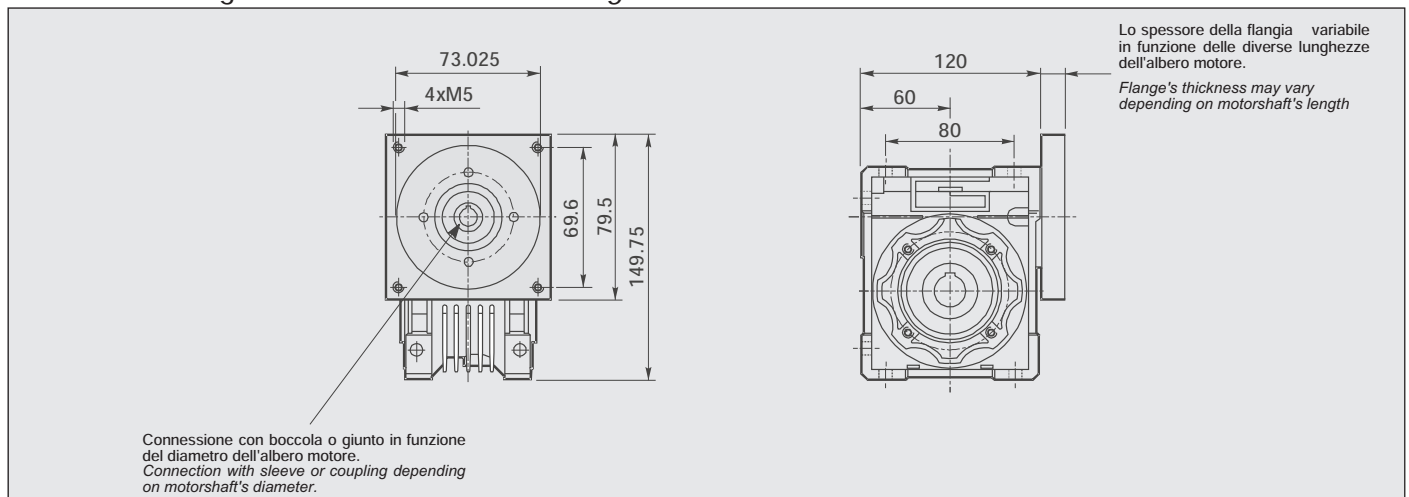
Kg
3.5

CMIS 050..



Albero lento cavo / Hollow output shaft

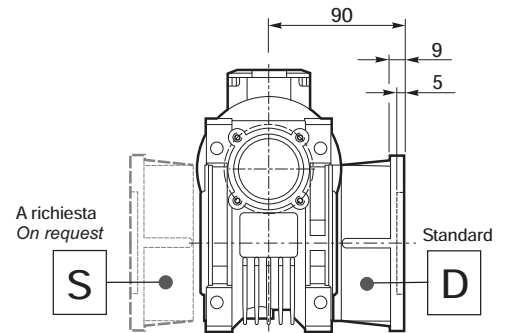
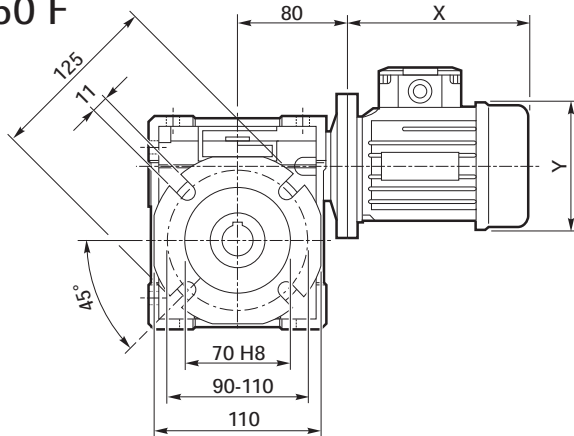
CM 050.. con flangia NEMA34 / with NEMA34 flange



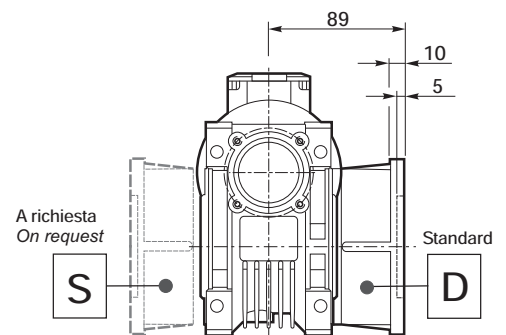
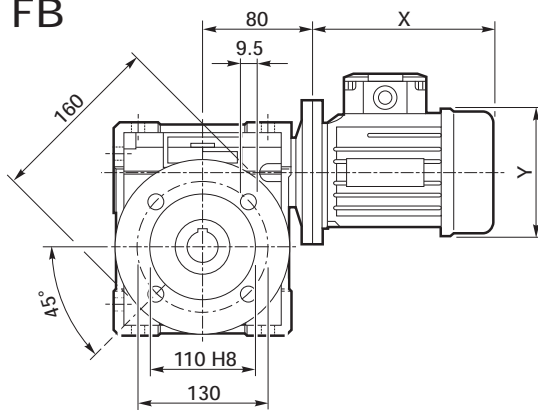
Dimensioni

Dimensions

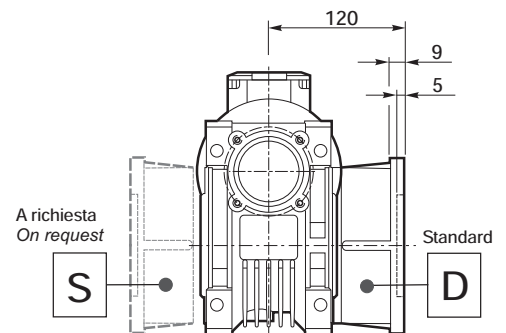
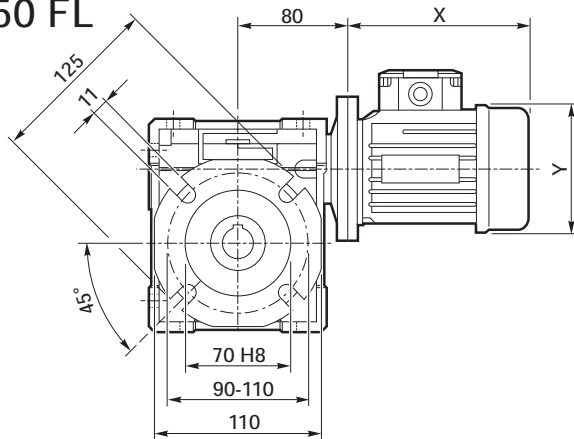
CM 050 F



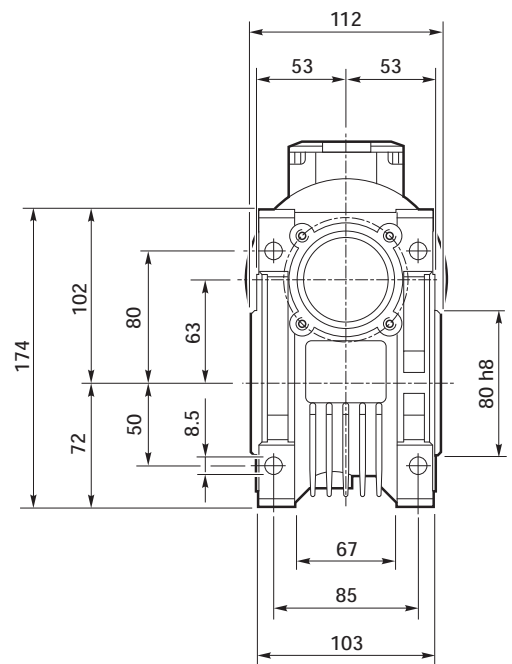
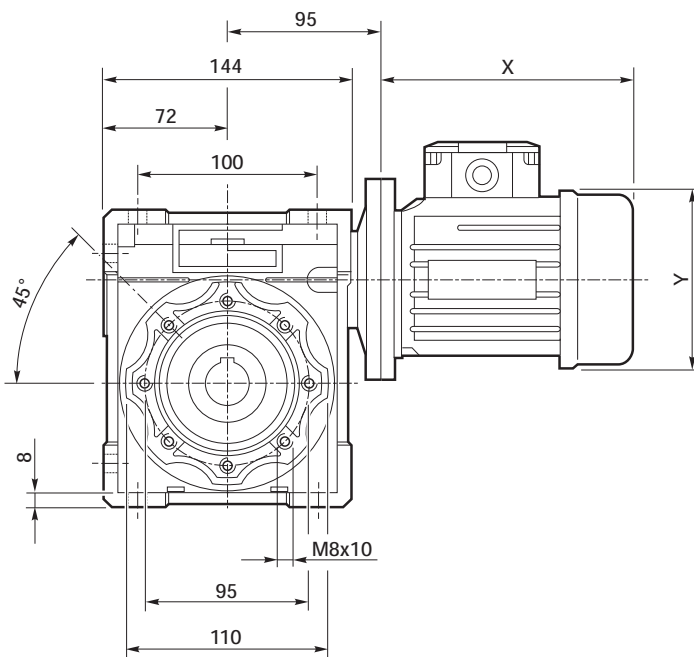
CM 050 FB



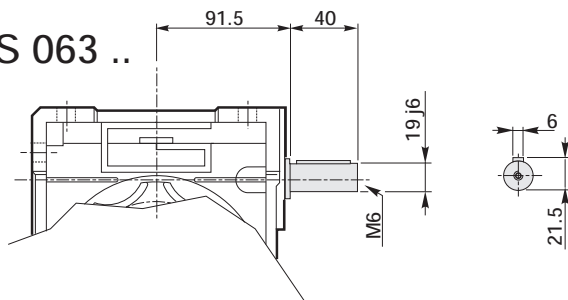
CM 050 FL



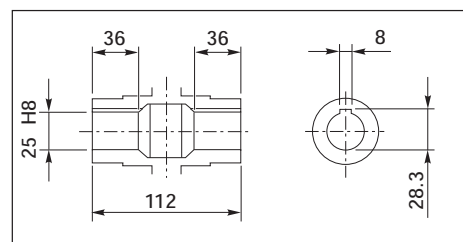
CM 063 U



CMIS 063 ..

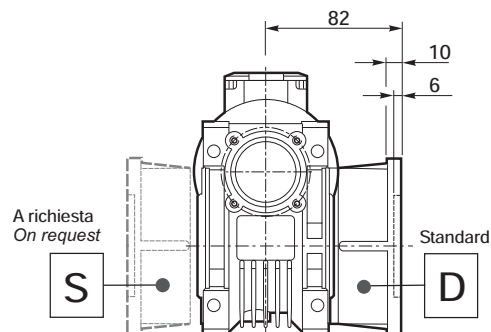
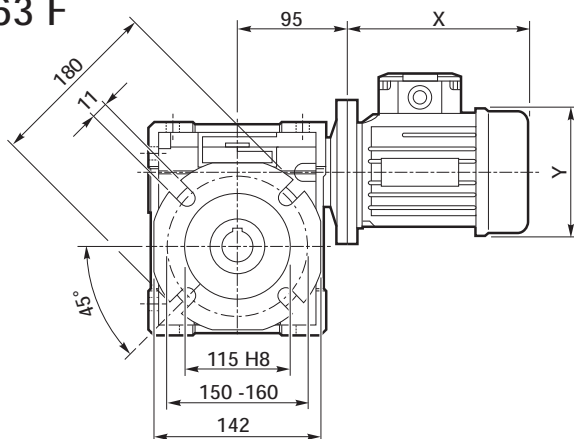


Kg
6.2

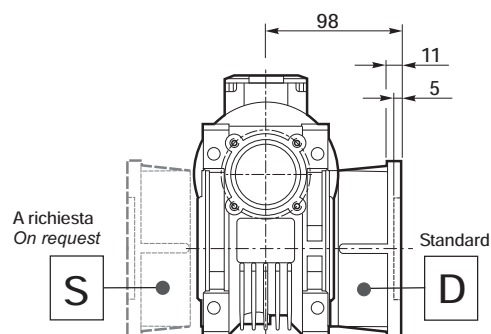
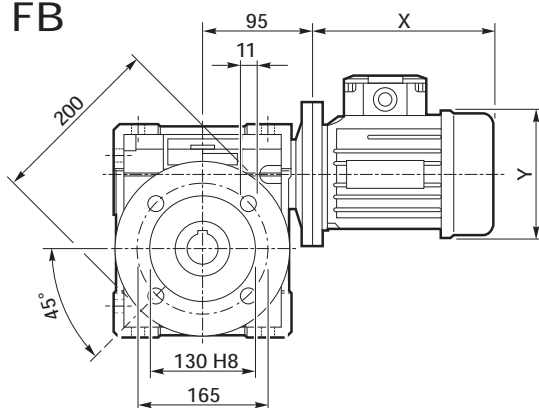


Albero lento cavo / Hollow output shaft

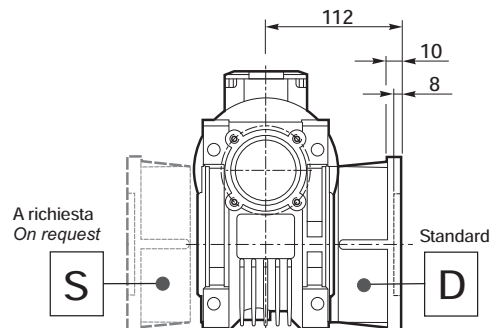
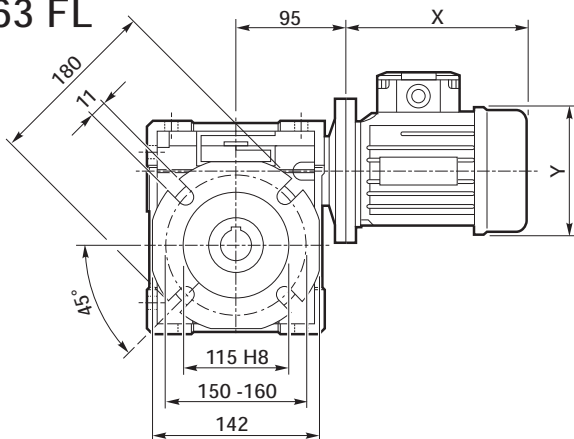
CM 063 F



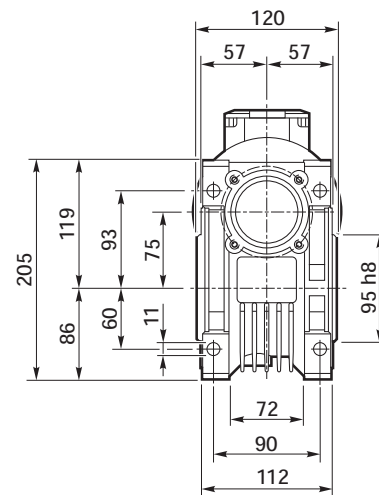
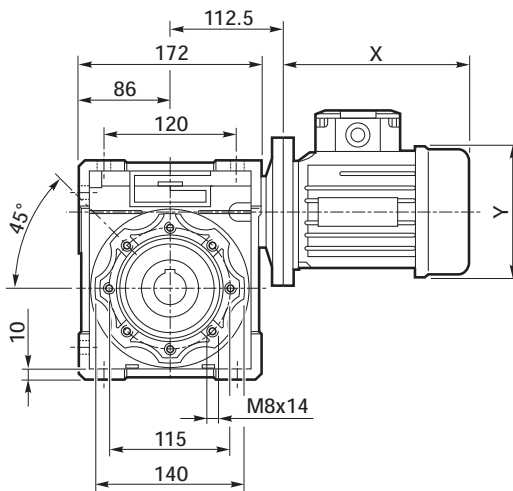
CM 063 FB



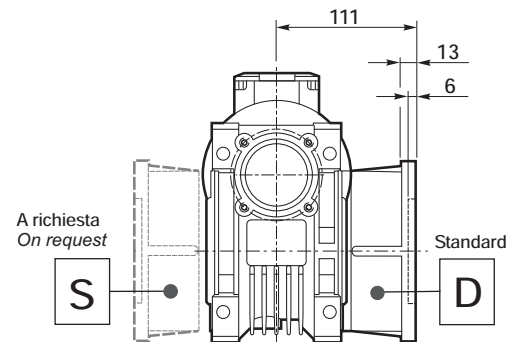
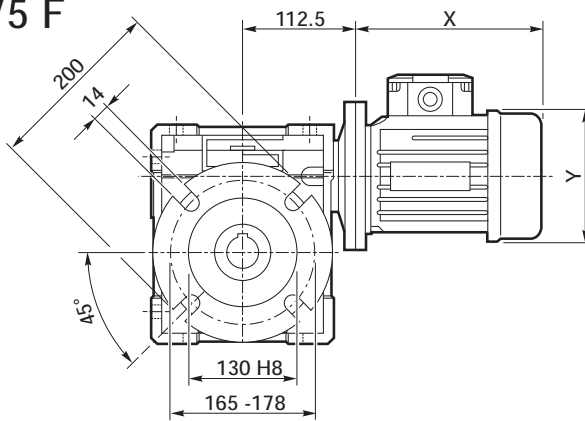
CM 063 FL



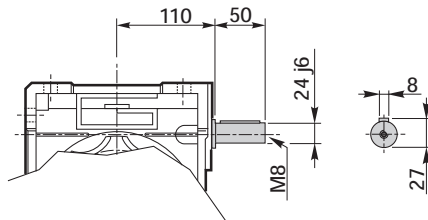
CM 075 U



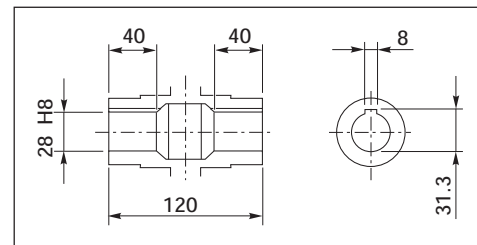
CM 075 F



CMIS 075 ..

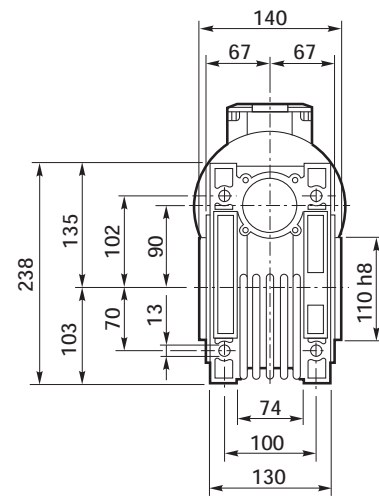
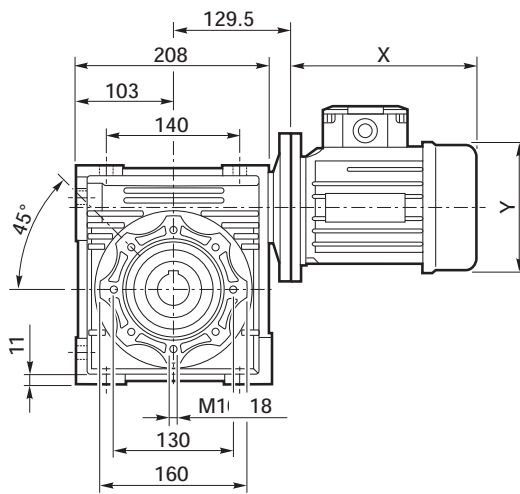


Kg
9.0

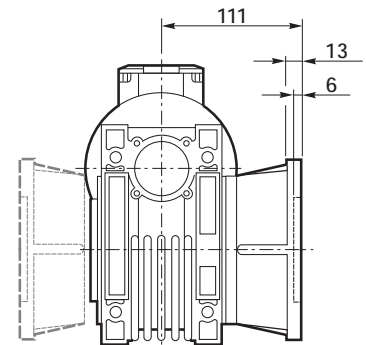
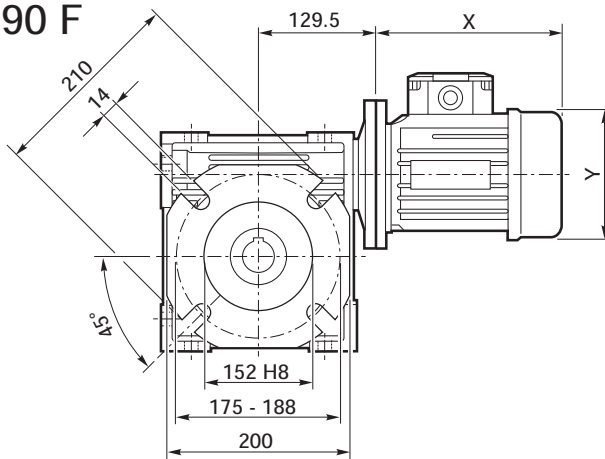


Albero lento cavo / Hollow output shaft

CM 090 U

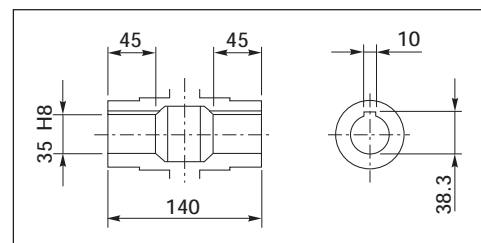
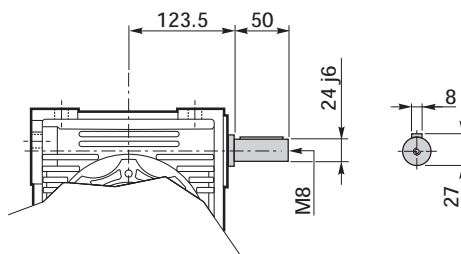


CM 090 F



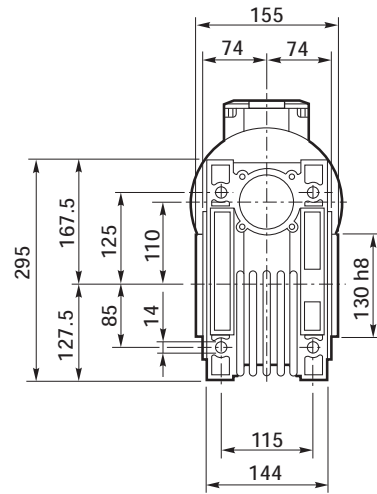
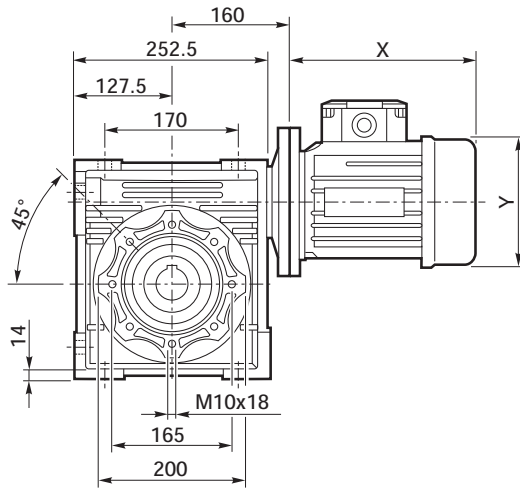
kg
13

CMIS 090..

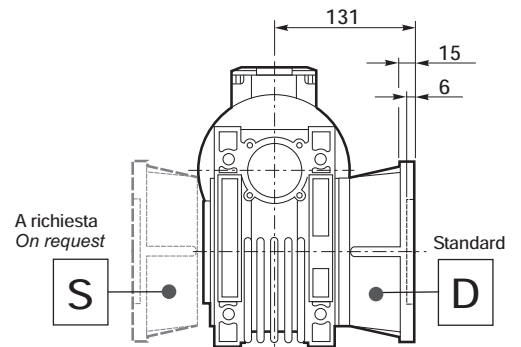
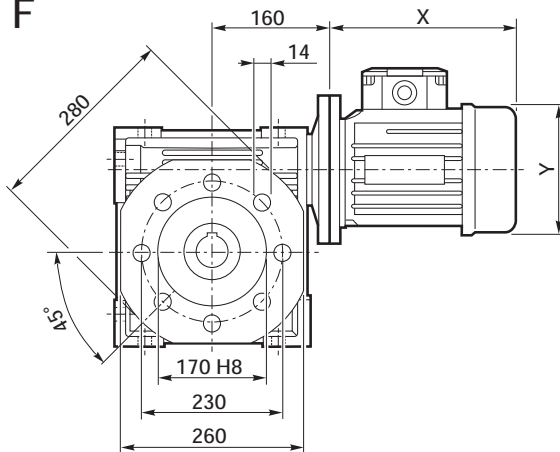


Albero lento cavo / Hollow output shaft

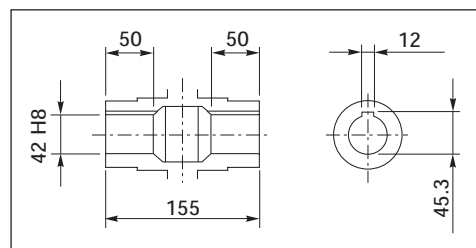
CM 110 U



CM 110 F

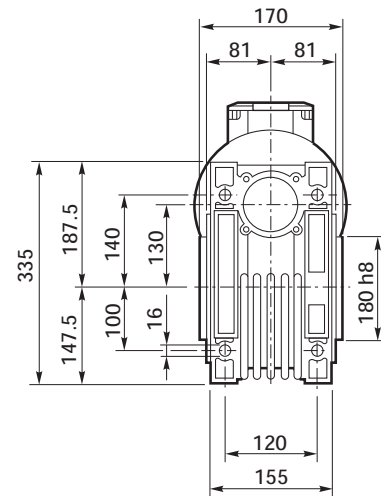
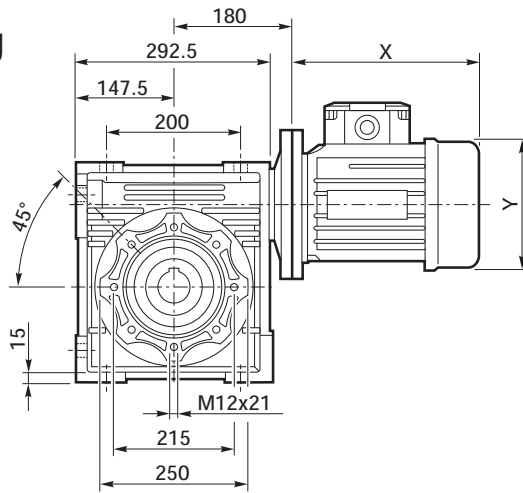


Kg
35

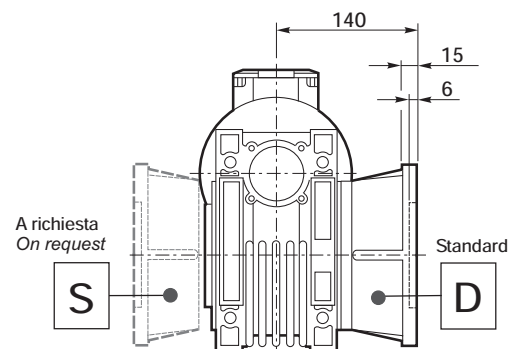
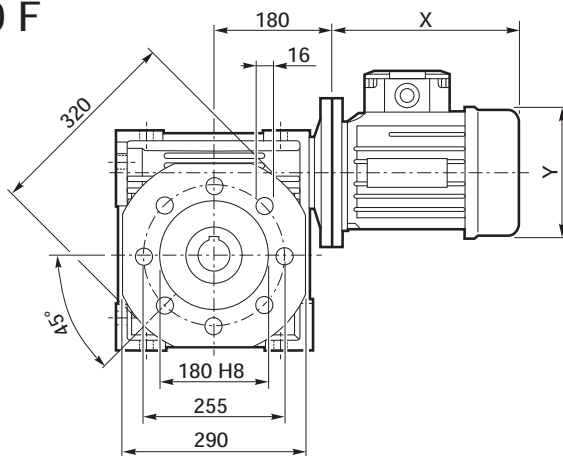


Albero lento cavo / Hollow output shaft

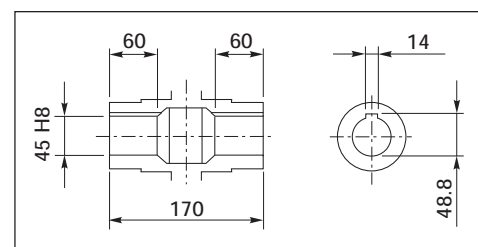
CM 130 U



CM 130 F

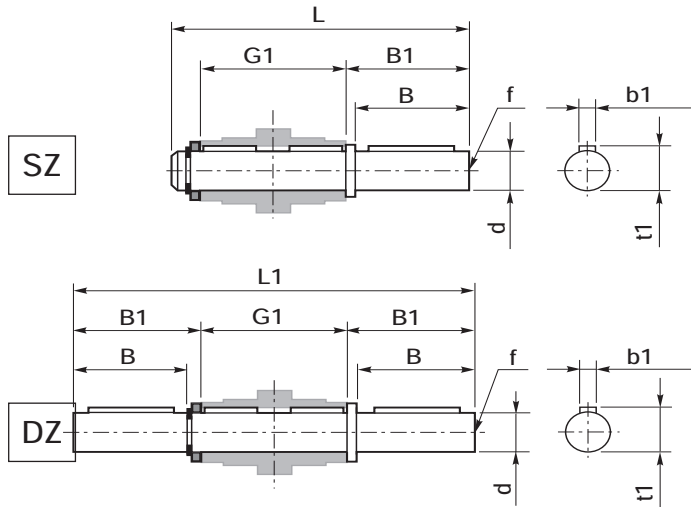


Kg
58



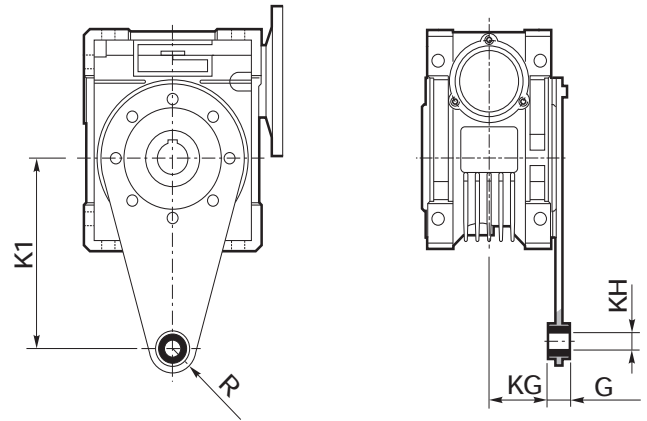
Albero lento cavo / Hollow output shaft

Albero lento / Output shaft



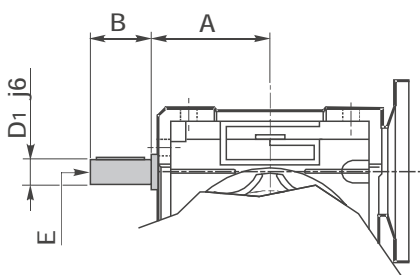
	d _{h6}	B	B1	G1	L	L1	f	b1	t1
CM 030	14	30	32.5	63	102	128	M6	5	16
CM 040	18	40	43	78	128	164	M6	6	20.5
CM 050	25	50	53.5	92	153	199	M10	8	28
CM 063	25	50	53.5	112	173	219	M10	8	28
CM 075	28	60	63.5	120	192	247	M10	8	31
CM 090	35	80	84.5	140	234	309	M12	10	38
CM 110	42	80	84.5	155	249	324	M16	12	45
CM 130	45	80	85	170	265	340	M16	14	48.5

Braccio di reazione / Torque arm



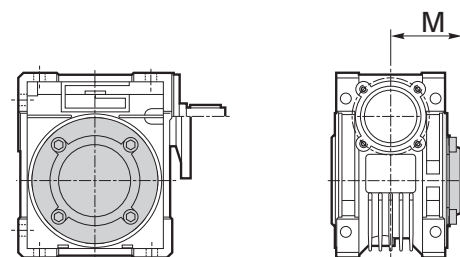
	K1	G	KG	KH	R
CM 030	85	14	23	8	15
CM 040	100	14	31	10	18
CM 050	100	14	38	10	18
CM 063	150	14	47.5	10	18
CM 075	200	25	46.5	20	30
CM 090	200	25	56.5	20	30
CM 110	250	30	62	25	35
CM 130	250	30	69	25	35

VS - Vite sporgente / Extended input shaft



	A	B	D ₁ _{j6}	E
CM 030	45	20	9	M4
CM 040	53	23	11	M5
CM 050	64	30	14	M6
CM 063	75	40	19	M6
CM 075	90	50	24	M8
CM 090	108	50	24	M8

PC - Coperchio di protezione / Plastic cover



	M
CM 030	47
CM 040	54.5
CM 050	62.5
CM 063	73
CM 075	79
CM 090	94
CM 110	95
CM 130	100

2009 SECOND
EDITION

● ● ●
TRANSTECNOTM
THE MODULAR GEARMOTOR

CATALOGO GENERALE
STOCK CATALOGUE

NEWS

Sezione serie CMB
CMB series section

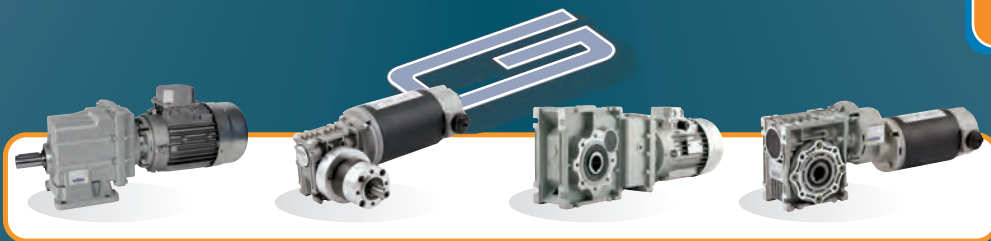
Nuova sezione serie CMP
CMP series new section

Sezione serie CMGV
CMGV series section

Sezione serie PHP
PHP series section

Rapporto 1/5 serie CM
1:5 ratio in CM series

Combinati
WMM26/040 - WMM26/050
WMM26/040 - WMM26/050
Combination gearboxes



THE COMPLETE PRODUCTION RANGE





www.transtecno.com

I riduttori a vite senza fine della serie CMM hanno le seguenti caratteristiche principali: *CMM wormgearboxes have the following characteristics:*

- Le grandezze 030, 040, 050, 063, 075 e 090 sono costruite con carcassa pressofusa in alluminio, le altre grandezze in ghisa.
- Tutte le grandezze sono fornite complete di lubrificante sintetico viscosità 320 a lunga durata.
- Le grandezze 075, 090, 110 e 130 sono fornite con cuscinetti a rulli conici sulla vite.
- *The frames 030, 040, 050, 063, 075 and 090 are constructed with the Aluminum body, larger sizes are made of cast iron.*
- *All sizes are complete with a long life synthetic lubricant, viscosity 320 cst*
- *The frames 075, 090, 110 and 130 are supplied with tapered roller bearings on the worm.*

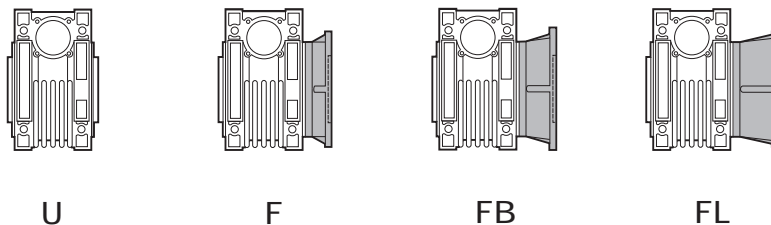
Designazione

Designation

RIDUTTORE / GEARBOX								MOTORE / MOTOR					
CMM	050	FD	20	P71	B5	B3	O25	US1	71B4	B5	230/400	50Hz	T1
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	IEC		Pos. di montaggio Mounting position	Diam. albero cavo uscita Output hollow shaft diameter	Esecuzione di montaggio Mounting execution	Grandezza Size	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Pos. morsetti Terminal box pos.
	030/040 030/050 030/063 040/075	U FD FS FBD	vedi tabelle see tables	56.. — 90..	B5 B14	B3 B8 B6 B7	vedi tabelle see tables	UB1 UB2 US1 US2	56.. — 90..	B5 B14	—	50Hz 60Hz	T1 T2 T3 T4
	040/090 050/110 063/130	FBS FLD FLS				V5 V6		UV1 UV2 UC1 UC2					

Versioni

Versions



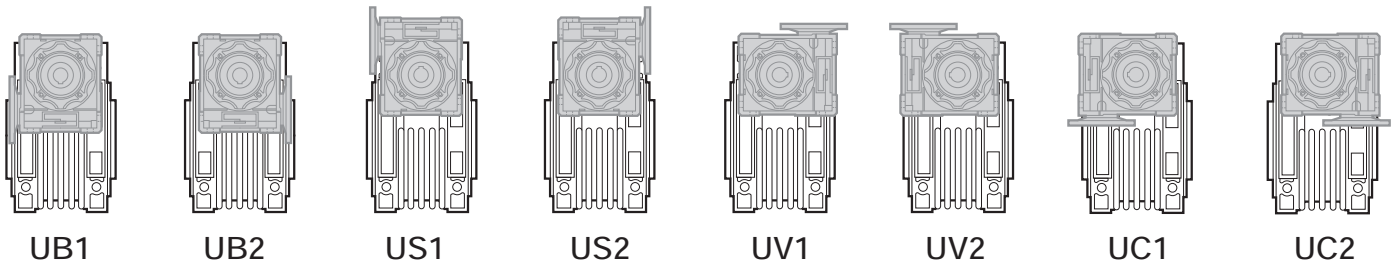
Simbologia

Symbols

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

Esecuzioni di montaggio

Mounting executions



Combinazioni rapporti

Combination ratio

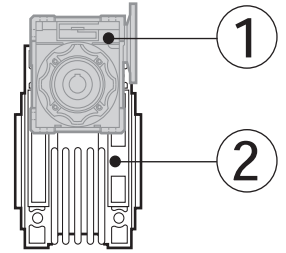
i		CMM						
		030/040	030/050	030/063	040/075	040/090	050/110	063/130
75	i_1	7.5						
	i_2	10						
100	i_1	10						
	i_2	10						
150	i_1	10						
	i_2	15						
200	i_1	10						
	i_2	20						
250	i_1	10						
	i_2	25						
300	i_1	10	10	7.5	10	7.5	10	10
	i_2	30	30	40	30	40	30	30
400	i_1	10						
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

CMM **RIDUTTORI COMBINATI** COMBINATION GEARBOXES

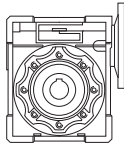
Lubrificazione

Lubrication

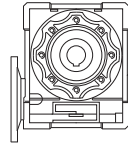
		CMM						
		030/040	030/050	030/063	040/075	040/090	050/110	063/130
①		030			040		050	
		Lubrificazione a vita <i>Life lubricated</i>						
②		040	050	063	075	090	110	130
		Lubrificazione a vita <i>Life lubricated</i>				Lubrificazione a olio <i>Oil lubrication</i>		



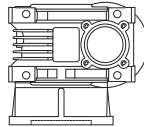
Posizioni di montaggio / Mounting positions



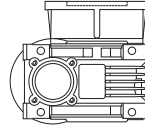
B3
(standard)



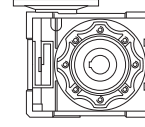
B8



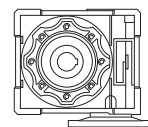
B6



B7



V5











V6





	Quantit di olio (litri) / Oil quantity (liters)					
	B3	B8	B6	B7	V5	V6
CM030	0.04					
CM040	0.08					
CM050	0.15					
CM063	0.30					
CM075	0.55					
CM090	1.0					
CM110	3.0	2.2	2.5	2.5	3.0	2.2
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita
Life lubricated

Dati tecnici
Technical data

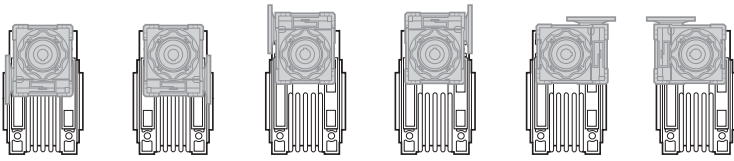
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i						
0.06							0.09										
56A4 (1400 min ⁻¹)	18.7	19	3.7	75	CMM 030/040	B5/B14	56B4 (1400 min ⁻¹)	18.7	28	2.5	75	CMM 030/040	B5/B14				
	14.0	24	2.9	100				B5/B14	14.0	36	1.9			100	B5/B14		
	9.3	33	2.1	150				B5/B14	9.3	50	1.4			150	B5/B14		
	7.0	42	1.6	200				B5/B14	7.0	62	1.0			200	B5/B14		
	5.6	49	1.2	250				B5/B14	5.6	73	0.8			250	B5/B14		
	4.7	52	1.3	300				B5/B14	4.7	79	0.9			300	B5/B14		
	3.5	62	1.1	400				B5/B14	CMM 030/050	18.7	28			4.3	75	B5/B14	
	2.8	87	0.7	500				B5/B14		14.0	36			3.4	100	B5/B14	
	2.3	93	0.8	600				B5/B14		9.3	49			2.8	150	B5/B14	
	1.9	107	0.7	750				B5/B14		7.0	61			2.0	200	B5/B14	
	1.6	125	0.6	900				B5/B14		5.6	74			1.5	250	B5/B14	
	1.2	147	0.4	1200				B5/B14		4.7	80			1.7	300	B5/B14	
	0.93	172	0.4	1500	B5/B14	3.5		99		1.2	400	B5/B14					
	0.78	192	0.4	1800	B5/B14	2.8		113		1.1	500	B5/B14					
	0.58	226	0.3	2400	B5/B14	2.3		143		0.9	600	B5/B14					
	0.44	313	0.2	3000	B5/B14	1.9		164		0.8	750	B5/B14					
	9.3	33	4.1	150	CMM 030/050	B5/B14		1.6		190	0.7	900	B5/B14				
	7.0	41	2.9	200		B5/B14		CMM 030/063		7.0	63	3.4	200	B5/B14			
	5.6	50	2.2	250		B5/B14			5.6	76	2.8	250	B5/B14				
	4.7	53	2.5	300		B5/B14			4.7	77	3.0	300	B5/B14				
	3.5	66	1.8	400		B5/B14			3.5	99	2.3	400	B5/B14				
	2.8	76	1.6	500		B5/B14			2.8	118	1.8	500	B5/B14				
	2.3	95	1.4	600		B5/B14			2.3	139	1.7	600	B5/B14				
	1.9	109	1.2	750		B5/B14			1.9	167	1.3	750	B5/B14				
	1.6	127	1.1	900		B5/B14			1.6	179	1.1	900	B5/B14				
	1.2	156	0.8	1200		B5/B14			1.2	235	1.0	1200	B5/B14				
	0.93	176	0.8	1500		B5/B14			0.93	281	0.7	1500	B5/B14				
	0.78	195	0.7	1800		B5/B14			CMM 040/075	0.93	331	1.1	1500	B5			
	0.58	241	0.5	2400	B5/B14	0.78				372	1.0	1800	B5				
	0.47	276	0.4	3000	B5/B14	0.58		444		0.8	2400	B5					
	56A4 (1400 min ⁻¹)	2.8	79	2.7	500	CMM 030/063		B5/B14	CMM 040/090	0.58	479	1.3	2400	B5			
		2.3	93	2.5	600			B5/B14		0.47	555	1.0	3000	B5			
1.9		111	1.9	750	B5/B14		0.12	63A4 (1400 min ⁻¹)		18.7	38	1.9	75	CMM 030/040	B5/B14		
1.6		119	1.6	900	B5/B14					14.0	48	1.4	100			B5/B14	
1.2		156	1.5	1200	B5/B14					9.3	66	1.1	150			B5/B14	
0.93		188	1.1	1500	B5/B14					7.0	83	0.8	200			B5/B14	
0.78		201	1.0	1800	B5/B14	5.6				97	0.6	250	B5/B14				
0.58		241	1.0	2400	B5/B14	4.7				105	0.7	300	B5/B14				
0.47		313	0.7	3000	B5/B14	CMM 040/075				CMM 030/050	18.7	38	3.3			75	B5/B14
0.93		221	1.7	1500	B5						14.0	48	2.5			100	B5/B14
0.78		248	1.5	1800	B5						9.3	65	2.1			150	B5/B14
0.58		296	1.2	2400	B5						7.0	82	1.5			200	B5/B14
0.47	349	0.9	3000	B5	5.6				99		1.1	250	B5/B14				
0.58	319	1.9	2400	CMM 040/090	B5				CMM 040/090		0.58	479	1.3			2400	B5
0.47	370	1.5	3000		B5	0.47	555	1.0		3000	B5						

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	Sf	i				
0.12							0.18								
63A4 (1400 min ⁻¹)	4.7	107	1.3	300	CMM 030/050	B5/B14	63B4 (1400 min ⁻¹)	18.7	56	1.2	75	CMM 030/040	B5/B14		
	3.5	132	0.9	400				14.0	72	1.0	100			CMM 030/050	B5/B14
	2.8	151	0.8	500				18.7	56	2.2	75				
	18.7	38	3.3	75	CMM 030/063	B5/B14	14.0	72	1.7	100	CMM 030/063	B5/B14			
	14.0	48	2.5	100			9.3	98	1.4	150			CMM 040/075	B5/B14	
	9.3	66	2.5	150			7.0	123	1.0	200					
	7.0	85	2.5	200	CMM 040/075	B5/B14	5.6	149	0.7	250	CMM 040/075	B5/B14			
	5.6	101	2.1	250			4.7	160	0.8	300			CMM 030/063	B5/B14	
	4.7	102	2.2	300			18.7	56	2.2	75					
	3.5	132	1.7	400	CMM 040/075	B5/B14	14.0	72	1.7	100	CMM 040/075	B5/B14			
	2.8	158	1.3	500			9.3	100	1.7	150			CMM 040/090	B5/B14	
	2.3	185	1.2	600			7.0	127	1.7	200					
	1.9	222	0.9	750	CMM 040/090	B5/B14	5.6	151	1.4	250	CMM 040/090	B5/B14			
	1.6	238	0.8	900			4.7	153	1.5	300			CMM 040/075	B5/B14	
	1.2	313	0.7	1200			3.5	197	1.2	400					
	4.7	120	3.1	300	CMM 040/075	B5/B14	2.8	237	0.9	500	CMM 040/075	B5/B14			
	3.5	143	2.4	400			2.3	278	0.8	600			CMM 040/090	B5/B14	
	2.8	168	1.8	500			18.7	58	4.8	75					
	2.3	219	1.7	600	CMM 040/090	B5/B14	14.0	75	3.7	100	CMM 040/090	B5/B14			
	1.9	260	1.4	750			9.3	105	3.4	150			CMM 050/110	B5/B14	
	1.6	299	1.3	900			7.0	132	2.7	200					
	1.2	358	1.0	1200	CMM 050/110	B5/B14	5.6	162	2.0	250	CMM 050/110	B5/B14			
	0.9	442	0.8	1500			4.7	179	2.1	300			CMM 050/110	B5/B14	
	0.8	496	0.8	1800			3.5	215	1.6	400					
	4.7	118	5.1	300	CMM 040/090	B5/B14	2.8	253	1.2	500	CMM 040/090	B5/B14			
	3.5	154	3.9	400			2.3	329	1.1	600			CMM 040/090	B5/B14	
	2.8	179	3.1	500			1.9	390	1.0	750					
	2.3	223	2.7	600	CMM 040/090	B5/B14	1.6	449	0.8	900	CMM 040/090	B5/B14			
	1.9	259	2.1	750			9.3	108	3.7	150			CMM 050/110	B5/B14	
	1.6	292	1.7	900			7.0	138	3.7	200					
	1.2	385	1.6	1200	CMM 050/110	B5/B14	5.6	168	3.3	250	CMM 050/110	B5/B14			
	0.9	447	1.2	1500			4.7	177	3.4	300			CMM 050/110	B5/B14	
	0.8	505	1.0	1800			3.5	231	2.6	400					
	0.6	638	0.9	2400	CMM 050/110	B5/B14	2.8	268	2.1	500	CMM 050/110	B5/B14			
	0.5	741	0.7	3000			2.3	334	1.8	600			CMM 050/110	B5/B14	
	0.9	464	2.3	1500			1.9	388	1.4	750					
	0.8	513	2.1	1800	CMM 050/110	B5	1.6	439	1.1	900	CMM 050/110	B5			
	0.6	672	1.5	2400			1.2	578	1.0	1200			CMM 050/110	B5	
	0.5	798	1.2	3000			0.9	670	0.8	1500					
					CMM 050/110	B5	0.8	758	0.7	1800	CMM 050/110	B5			
							0.6	957	0.6	2400			CMM 050/110	B5	
							0.9	696	1.5	1500					
					CMM 050/110	B5	0.8	769	1.4	1800	CMM 050/110	B5			
							0.6	1008	1.0	2400			CMM 050/110	B5	
							0.5	1196	0.8	3000					

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			
0.55							1.85							
80A4 (1400 min ⁻¹)	1.6	1504	1.1	900	CMM 063/130	B5/B14	90LB4 (1400 min ⁻¹)	18.7	618	1.5	75	CMM 063/130	B5/B14	
	1.2	1906	0.8	1200				14.0	814	1.2	100			
	0.9	2266	0.8	1500				9.3	1156	1.2	150			
0.75														
80B4 (1400 min ⁻¹)	18.7	247	2.1	75	CMM 050/110	B5/B14								
	14.0	322	1.7	100			CMM 063/130	B5/B14						
	9.3	458	1.7	150										
	7.0	602	1.6	200										
	5.6	731	1.4	250										
	4.7	774	1.4	300										
	3.5	1014	1.0	400										
	2.8	1117	0.9	500										
	2.3	1467	0.7	600										
	18.7	250	3.7	75										
	14.0	330	3.0	100										
	9.3	469	3.0	150										
	7.0	607	2.6	200										
	5.6	737	2.0	250										
	4.7	805	2.1	300										
	3.5	1021	1.6	400										
	2.8	1232	1.2	500										
	2.3	1496	1.1	600										
	1.9	1802	0.9	750										
1.6	2050	0.8	900											
1.1														
90S4 (1400 min ⁻¹)	18.7	367	2.6	75	CMM 063/130	B5/B14								
	14.0	484	2.0	100										
	9.3	687	2.0	150										
	7.0	891	1.8	200										
	5.6	1081	1.4	250										
	4.7	1181	1.4	300										
	3.5	1497	1.1	400										
	2.8	1807	0.8	500										
	2.3	2193	0.7	600										
1.5														
90L4 (1400 min ⁻¹)	18.7	501	1.9	75	CMM 063/130	B5/B14								
	14.0	660	1.5	100										
	9.3	937	1.5	150										
	7.0	1214	1.3	200										
	5.6	1474	1.0	250										
	4.7	1610	1.1	300										
	3.5	2042	0.8	400										

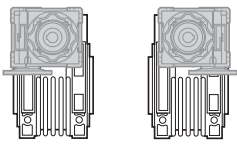
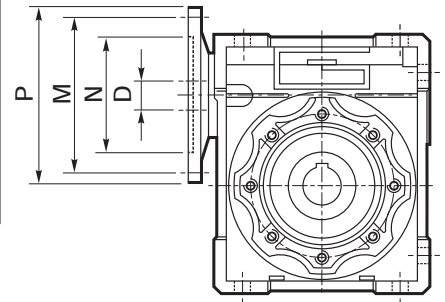
Motori applicabili

IEC Motor adapters



UB1 UB2 US1 US2 UV1 UV2

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											
	56B5	80	100	120	9	B	B	B	B	B	B	B	B		
	56B14	50	65	80											
040/075 040/090	71B5	110	130	160	14										
	71B14	70	85	105											
	63B5	95	115	140	11	B	B	B	B	B	B	B			
	63B14	60	75	90											
	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											
	71B5	110	130	160	14	B	B	B	B	B	B				
	71B14	70	85	105											
	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											
	80B5	130	165	200	19	B	B	B	B	B	B				
	80B14	80	100	120											
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B	
	71B14	70	85	105											



UC1 UC2

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											
030/063	63B5	95	115	140	11										
	63B14	60	75	90											
	56B5	80	100	120	9	B	B	B	B	B	B	B	B		
	56B14	50	65	80											
040/075 040/090	71B14	70	85	105	14										
	63B5	95	115	140	11	B	B	B	B	B	B	B			
	63B14	60	75	90											
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B	
050/110	80B14	80	100	120	19										
	71B5	110	130	160	14	B	B	B	B	B	B				
	71B14	70	85	105											
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B	
063/130	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											

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/BS = Boccola di riduzione in acciaio (vedi pag. S6)

B/BS = Metal shaft sleeve (see page S6)

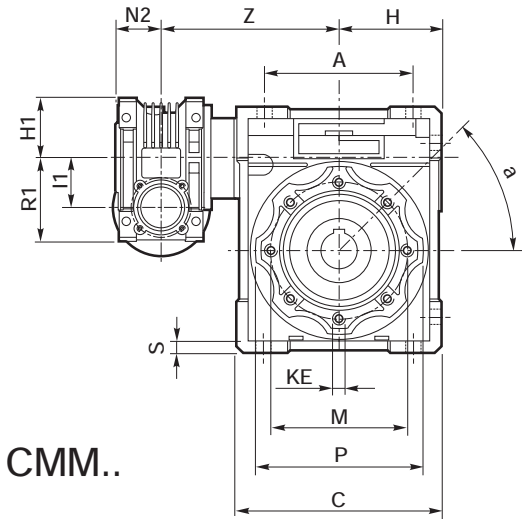
CMM.. - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
030/040	70	100	18 (19)	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25 (24)	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25 (28)	174	67	55	112	72	40	63	30	85	103	95	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	205	35	238	74	70	140	102.5	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	120	M6x8(n.4)	45°	6	20.8 (21.8)	3.9	
030/050	8.5	100	64	84	57	7	30	40	130	M8x10(n.4)	45°	8	28.3 (27.3)	5.0	
030/063	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3 (31.3)	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	

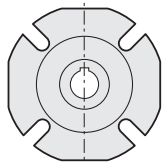
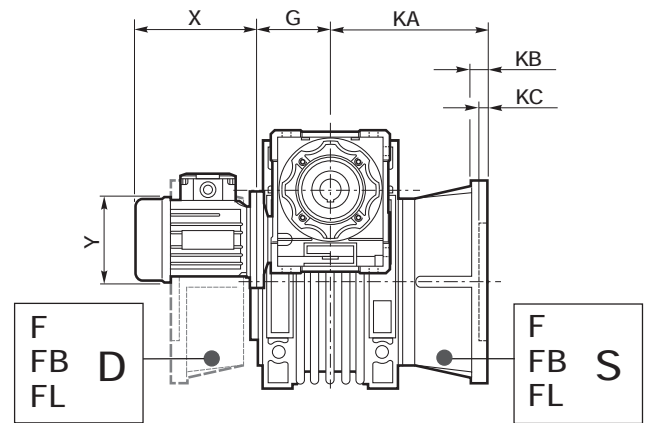
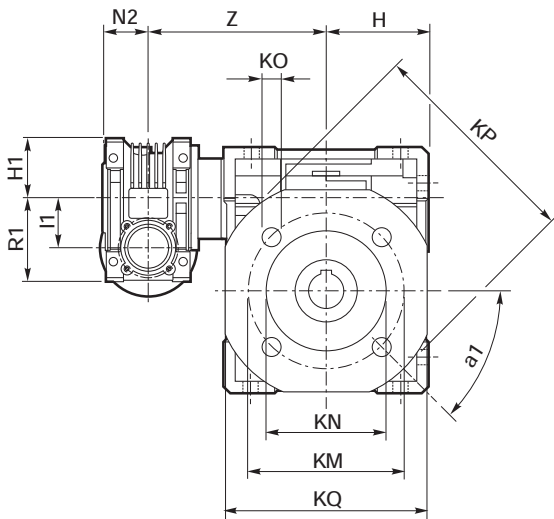
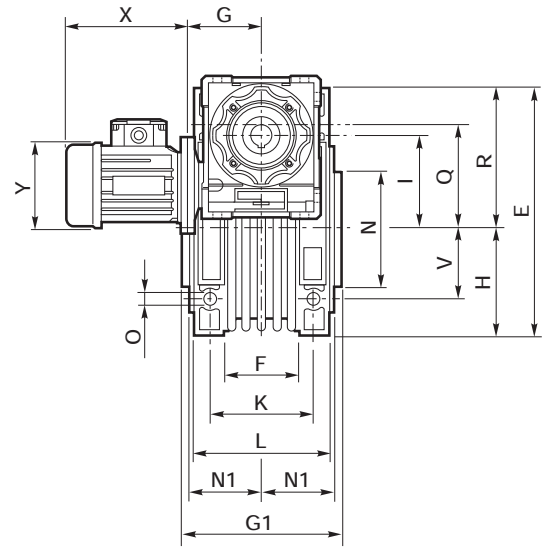
	CMM..F									CMM..FB						CMM..FL								
	a1	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ	KA	KB	KC	KM	KN _{H8}	KO	KP	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ
030/040	45°	67	7	4	80-94	60	9(n.4)	110	95	80	9	5	115	95	9.5(n.4)	140	97	7	4	80-94	60	9(n.4)	110	95
030/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	10	5	130	110	9.5(n.4)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

CMMIS						
	A	B	D _{j6}	E	F	G
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	91.5	40	19	M6	6	21.5

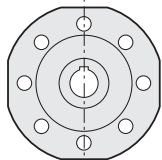
The drawing shows a cross-section of a gear assembly. Dimension A is the total width of the gear housing. Dimension B is the width of the gear teeth. Dimension E is the distance from the center of the gear to the center of the shaft. Dimension F is the thickness of the gear teeth. Dimension G is the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



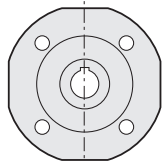
CMM..



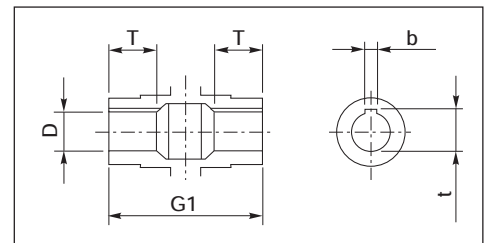
CMM..F (../040 - ../090)
CMM..FL (../040 - ../063)



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



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

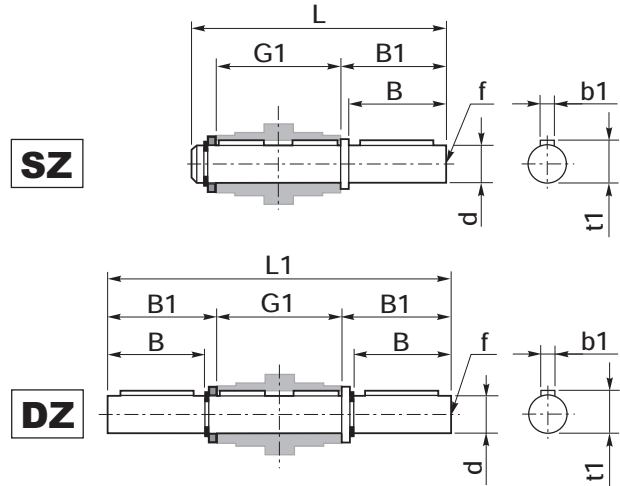


Albero lento cavo / Hollow output shaft

Albero lento semplice e doppio

Single and double output shaft

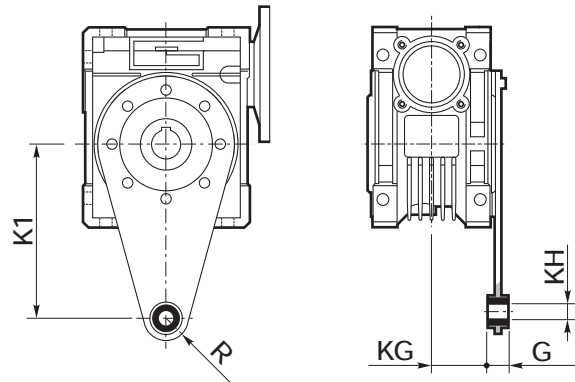
CMM	d _{h6}	B	B1	G1	L	L1	f	b1	t1
030/040	18	40	43	78	128	164	M6	6	20.5
030/050	25	50	53.5	92	153	199	M10	8	28
030/063	25	50	53.5	112	173	219	M10	8	28
040/075	28	60	63.5	120	192	247	M10	8	31
040/090	35	80	84.5	140	234	309	M12	10	38
050/110	42	80	84.5	155	249	324	M16	12	45
063/130	45	80	85	170	265	340	M16	14	48.5



Braccio di reazione

Torque arm

CMM	K1	G	KG	KH	R
030/040	100	14	31	10	18
030/050	100	14	38	10	18
030/063	150	14	47.5	10	18
040/075	200	25	46.5	20	30
040/090	200	25	56.5	20	30
050/110	250	30	62	25	35
063/130	250	30	69	25	35

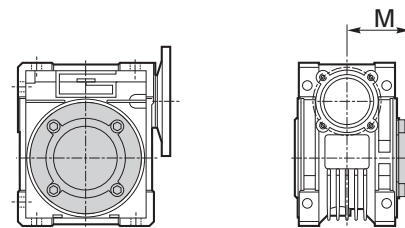
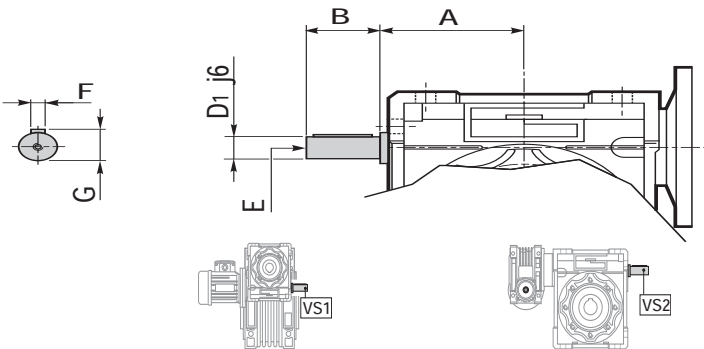


Opzioni

Options

VS1 - VS2 - Vite sporgente / Extended input shaft

PC - Coperchio di protezione / Plastic cover



CMM	VS1						VS2					
	A	B	D _{1 j6}	E	F	G	A	B	D _{1 j6}	E	F	G
030/040	45	20	9	—	3	10.2	53	23	11	—	4	12.5
030/050	45	20	9	—	3	10.2	64	30	14	M6	5	16
030/063	45	20	9	—	3	10.2	75	40	19	M6	6	21.5
040/075	53	23	11	—	4	12.5	90	50	24	M8	8	27
040/090	53	23	11	—	4	12.5	108	50	24	M8	8	27
050/110	64	30	14	M6	5	16	—	—	—	—	—	—
063/130	75	40	19	M6	6	21.5	—	—	—	—	—	—

CM	M
040	54.5
050	62.5
063	73
075	79
090	94
110	95
130	100