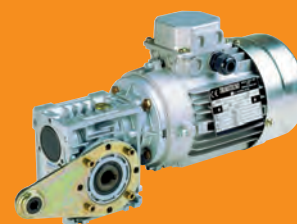


2009-2


TRANSTECNOTM
THE MODULAR GEARMOTOR

***Riduttori a vite
senza fine CM***

Wormgearboxes CM



RIDUTTORI A VITE SENZA FINE CM

WORMGEARBOXES CM



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Caratteristiche tecniche




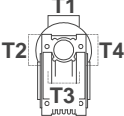
Technical characteristics

I riduttori a vite senza fine della serie CM hanno le seguenti caratteristiche principali: *CM 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 cst 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 body diecast in Aluminum, 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.*

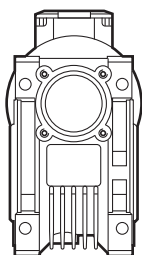
Designazione

Designation

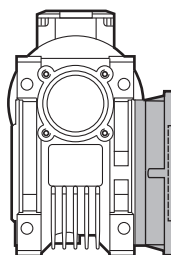
RIDUTTORE / GEARBOX								MOTORE / MOTOR					
CM	050	FD	20	P71	B5	B3	O25	—	71B4	B5	230/400	50Hz	T1
Tipo Type	Grandezza Size	Versione Version	Rapporto Ratio	IEC		Pos. di montaggio Mounting position	Diam. albero cavo uscita Output hollow shaft diameter	Opzioni Options	Grandezza Size	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Pos. morsetteria Terminal box pos.
	030 040 050 063 075	U FD FS FBD	vedi tabelle see tables	56.. — 132..	B5 B14	B3 B6 B7 B8	Vedi tabelle see tables	VS PC	 56.. — 132..	B5 B14	—	50Hz 60Hz	T1 T2 T3 T4
	090 110 130	FBS FLD FLS				V5 V6							

Versioni

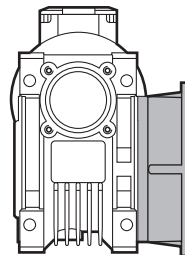
Versions



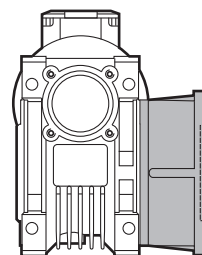
U



F



FB



FL

Simbologia

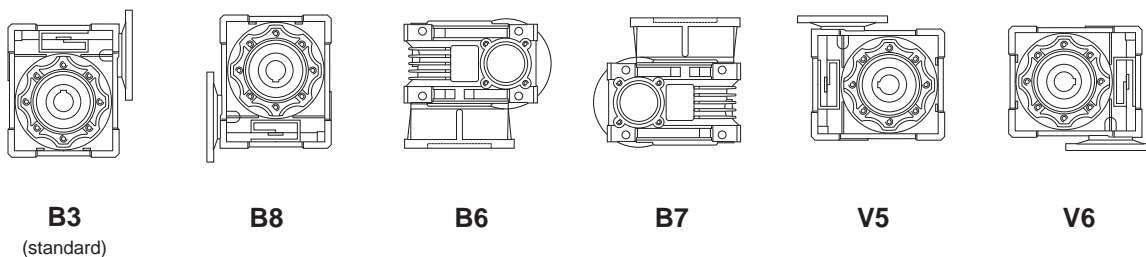
Symbols

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>	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

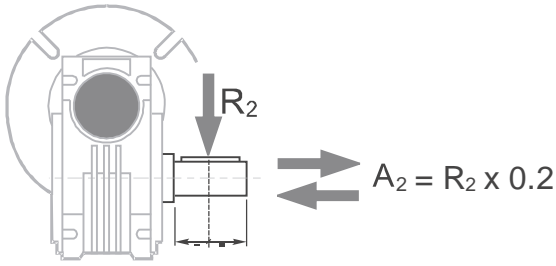
Mounting positions

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

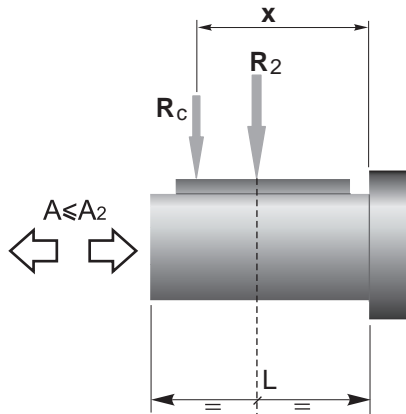
Lubrificati a vita
Life lubricated



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 è applicato sulla mezzeria dell'albero occorre calcolare quello effettivo con la seguente formula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:



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

$$R \leq R_c$$

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

	CM							
	030	040	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





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							0.12									
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					
	93	5	3.8	15				187	5	2.4	15					
	70	6	3.0	20				140	6	1.9	20					
	56	7	2.9	25				112	8	2.0	25					
	47	8	2.5	30				93	9	1.7	30					
	35	9	1.9	40				70	11	1.3	40					
	28	11	1.6	50				56	13	0.9	50					
	23	12	1.2	60				47	14	0.8	60					
	18	14	0.9	80				93	9	3.6	30				CM040	B5
	28	13	3.0	50				70	11	2.8	40					
	23	14	2.5	60				56	14	2.0	50					
	18	17	1.9	80				47	15	1.8	60					
14	19	1.5	100	35	19	1.3	80									
				28	22	1.0	100									
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					
	93	6	2.3	30				93	9	1.9	15					
	70	8	1.8	40				70	12	1.5	20					
	56	10	1.3	50				56	14	1.5	25					
	47	10	1.1	60				47	16	1.3	30					
	35	12	0.9	80				35	19	0.9	40					
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					
	140	5	3.4	10				140	7	5.5	10					
	93	7	2.5	15				93	10	3.8	15					
	70	9	2.0	20				70	13	3.1	20					
	56	10	1.9	25				56	15	2.5	25					
	47	12	1.7	30			47	17	2.6	30						
	35	14	1.3	40			35	21	1.9	40						
	28	17	1.1	50			28	25	1.5	50						
	23	18	0.8	60			23	28	1.3	60						
	18	21	0.6	80			18	34	1.0	80						
	28	19	2.0	50			14	38	0.8	100						
	23	21	1.7	60			35	22	3.5	40	CM050	B5				
	18	26	1.3	80			28	26	2.8	50						
14	29	1.0	100	23	28	2.3	60									
				18	34	1.8	80									
				14	38	1.4	100									
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					
	60	11	1.8	15				60	14	1.3	15					
	45	13	1.4	20				45	18	1.1	20					
	36	15	1.4	25				36	20	1.1	25					
	30	17	1.3	30				60	15	3.0	15				CM040	B5/B14
	23	21	1.0	40				45	19	2.3	20					
	45	14	3.1	20				36	22	2.0	25					
	36	17	2.6	25				30	25	1.9	30					
	30	19	2.5	30				23	32	1.4	40					
	23	24	1.9	40				18	37	1.1	50					
	18	28	1.5	50				30	26	3.4	30					
	15	31	1.3	60				23	32	2.5	40					
11	36	1.0	80	18	38	2.0	50									
15	32	2.2	60	15	42	1.7	60									
11	36	1.8	80	11	48	1.4	80									
9	40	1.4	100	9	53	1.0	100									





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	10	2.9	20	CM040	B5/B14		140	14	2.1	20	CM040	B5/B14	
	112	12	2.4	25		B5/B14		112	16	1.7	25		B5/B14	
	93	13	2.4	30		B5/B14		93	19	1.7	30		B5/B14	
	70	17	1.9	40		B5/B14		70	24	1.3	40		B5/B14	
	56	21	1.3	50		B5/B14		56	29	1.0	50		B5/B14	
	47	23	1.2	60		B5/B14								
	56	21	2.5	50	CM050	B5		47	33	1.5	60	CM050	B5	
	47	24	2.1	60		B5		35	40	1.1	80		B5	
	35	29	1.6	80		B5		28	45	0.9	100		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	
						B5/B14		35	44	0.9	40		B5/B14	
	280	6	6.4	5	CM040	B5/B14		70	27	2.7	20	CM050	B5/B14	
	187	8	4.4	7.5		B5/B14		56	32	2.2	25		B5/B14	
	140	10	3.7	10		B5/B14		47	36	2.3	30		B5/B14	
	93	15	2.5	15		B5/B14		35	46	1.7	40		B5/B14	
	70	19	2.1	20		B5/B14		28	54	1.3	50		B5/B14	
	56	22	1.7	25		B5/B14		23	59	1.1	60		B5/B14	
	47	25	1.7	30		B5/B14		18	71	0.9	80		B5/B14	
	35	32	1.3	40		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
					18	75	1.6	80	B5/B14					
					14	85	1.4	100	B5/B14					
					CM050	B5	23	64	3.0	60	CM075	B5		
35	33	2.3	40	B5		18	79	2.4	80	B5				
28	39	1.9	50	B5		14	90	1.9	100	B5				
23	43	1.5	60	B5										
18	51	1.2	80	B5										
14	58	0.9	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									
	30	38	1.3	30	B5/B14	45		40	1.9	20	CM050	B5/B14		
						36		48	1.6	25		B5/B14		
						30		53	1.6	30		B5/B14		
						23		66	1.2	40		B5/B14		
						18		78	1.0	50		B5/B14		
	36	34	2.2	25	CM050	B5/B14								
	30	38	2.2	30		B5/B14								
	23	47	1.7	40		B5/B14								
	18	56	1.3	50		B5/B14								
15	63	1.1	60	B5/B14										
					CM063	B5/B14								
15	65	2.1	60	B5/B14										
11	78	1.6	80	B5/B14										
9	90	1.4	100	B5/B14										





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Technical data

P₁ [kW]	n₂ [min ⁻¹]	M₂ [Nm]	sf	i			P₁ [kW]	n₂ [min ⁻¹]	M₂ [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		112	37	1.3	25			B5/B14
	93	28	1.2	30	B5/B14	93		43	1.4	30	B5/B14			
	70	37	1.6	40	CM050	B5/B14		70	55	1.1	40	B5/B14	CM063	B5/B14
	56	43	1.2	50		B5/B14		56	55	1.8	40	B5/B14		B5/B14
	47	49	1.0	60		B5/B14		47	67	1.4	50	B5/B14		B5/B14
						47	74	1.2	60					
71B4 (1400 min ⁻¹)	280	12	3.1	5	CM040	B5/B14	80A4 (1400 min ⁻¹)	187	24	2.9	7.5	CM050	B5/B14	
	187	16	2.3	7.5		B5/B14		140	32	2.3	10		B5/B14	
	140	21	1.8	10		B5/B14		93	46	1.6	15		B5/B14	
	93	31	1.2	15		B5/B14		70	59	1.2	20		B5/B14	
	70	39	1.0	20		B5/B14		56	70	1.0	25		B5/B14	
	56	46	0.8	25		B5/B14		47	80	1.0	30		B5/B14	
	47	53	0.8	30	B5/B14	93		47	2.9	15	CM063	B5/B14		
	70	39	1.8	20	CM050	B5/B14		70	61	2.2		20	B5/B14	
	56	47	1.5	25		B5/B14		56	72	1.9		25	B5/B14	
	47	54	1.5	30		B5/B14		47	82	1.9		30	B5/B14	
	35	68	1.1	40		B5/B14		35	105	1.4		40	B5/B14	
	28	80	0.9	50		B5/B14		28	124	1.1		50	B5/B14	
	23	88	0.8	60		B5/B14		23	135	0.9	60	B5/B14		
	28	83	1.6	50	CM063	B5/B14		93	47	2.9	15	B5/B14		
	23	91	1.4	60		B5/B14		70	61	2.2	20	B5/B14		
	18	111	1.1	80		B5/B14		56	72	1.9	25	B5/B14		
	14	126	0.9	100		B5/B14		47	82	1.9	30	B5/B14		
	28	85	2.5	50		CM075		B5	35	105	1.4	40	B5/B14	
23	95	2.0	60	B5			28	124	1.1	50	B5/B14			
18	117	1.6	80	B5	23		142	1.4	60	B5/B14				
14	134	1.3	100	B5	18		174	1.1	80	B5/B14				
					14		199	0.9	100	B5/B14				
							35	107	2.0	40	CM075	B5/B14		
80A6 (900 min ⁻¹)	60	46	1.8	15	CM050	B5/B14	28	126	1.7	50		B5/B14		
	45	59	1.3	20		B5/B14	23	142	1.4	60		B5/B14		
	36	71	1.1	25		B5/B14	18	174	1.1	80		B5/B14		
	30	79	1.1	30		B5/B14	14	199	0.9	100		B5/B14		
	36	74	1.9	25		CM063	B5/B14	23	155	2.0		60	CM090	B5/B14
	30	82	2.0	30			B5/B14	18	189	1.5	80	B5/B14		
	23	105	1.5	40	B5/B14		14	218	1.2	100	B5/B14			
	18	122	1.2	50	B5/B14		18	201	2.4	80	CM110	B5		
	15	134	1.0	60	B5/B14	14	233	2.0	100	B5				
	18	120	1.8	50	CM075	B5/B14	80B6 (900 min ⁻¹)	120	37	2.2	7.5	CM050		B5/B14
15	139	1.5	60	B5/B14		90		48	1.7	10	B5/B14			
11	170	1.1	80	B5/B14		60		68	1.2	15	B5/B14			
9	196	1.0	100	B5/B14		45		90	1.6	20	CM063		B5/B14	
						36		109	1.3	25			B5/B14	
						30		123	1.3	30			B5/B14	
					23	156		1.0	40	B5/B14				
						18		178	1.2	50	CM075	B5/B14		
						15		207	1.0	60		B5/B14		
						11		275	1.1	80	CM090	B5/B14		
						9	315	0.9	100	B5/B14				
						11	285	1.9	80	CM110	B5			
						9	333	1.5	100		B5			





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Technical data

P₁ [kW]	n₂ [min ⁻¹]	M₂ [Nm]	sf	i			P₁ [kW]	n₂ [min ⁻¹]	M₂ [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		CM063	140	62	1.6		20	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			CM075	93	88	1.7	30	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		CM090		47	167	1.4	60	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
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	CM075	B5/B14	35	213	1.0	40	B5/B14			
28		169	0.8	50		B5/B14	CM090	56	154	2.2	25	B5/B14		
70		83	2.4	20		B5/B14		47	171	2.3	30	B5/B14		
56		100	2.0	25		B5/B14		35	222	1.6	40	B5/B14		
47		114	2.0	30		B5/B14		28	270	1.3	50	B5/B14		
35		143	1.5	40		B5/B14		23	311	1.0	60	B5/B14		
28		171	1.2	50	B5/B14	CM110		35	228	2.7	40	B5		
23		193	1.0	60	B5/B14		28	278	2.2	50	B5			
18		237	0.8	80	B5/B14		23	324	1.7	60	B5			
35		151	2.3	40	CM090		B5/B14	18	402	1.2	80	B5		
28		184	1.8	50			B5/B14	14	465	1.0	100	B5		
23		212	1.5	60			B5/B14	CM130	23	329	2.7	60	B5	
18	258	1.1	80	B5/B14		18	414		2.0	80	B5			
14	297	0.9	100	B5/B14		14	480		1.5	100	B5			
18	274	1.8	80	CM110		B5	90L6 (900 min ⁻¹)		120	75	1.9	7.5	CM063	B5/B14
14	317	1.4	100		B5	90			97	1.5	10	B5/B14		
90S6 (900 min ⁻¹)	45	126	1.8	20	CM075	B5/B14			60	140	1.1	15		B5/B14
	36	151	1.4	25		B5/B14		45	184	1.2	20	B5/B14		
	30	172	1.5	30		B5/B14		36	222	0.9	25	B5/B14		
	23	210	1.1	40		B5/B14		30	252	1.0	30	B5/B14		
	18	271	1.4	50		CM090		B5/B14	23	331	1.2	40	B5/B14	
	15	306	1.1	60				B5/B14	18	397	1.0	50	B5/B14	
11	388	1.4	80	CM110	B5	15		476	1.3	60	B5			
9	454	1.1	100		B5	11		570	0.9	80	B5			
								11	598	1.5	80	CM130	B5	
								9	689	1.1	100		B5	





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Technical data

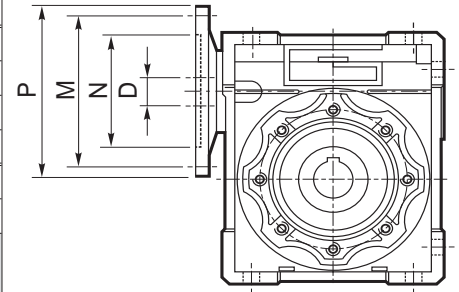
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		
1.5							1.85						
90S2 (2800 min ⁻¹)	373	34	2.7	7.5	CM063	B5/B14	90LB4 (1400 min ⁻¹)	187	82	1.5	7.5	CM063	B5/B14
	280	45	2.0	10		B5/B14		140	109	1.2	10		B5/B14
	187	64	1.6	15		B5/B14		93	159	0.8	15		B5/B14
	140	85	1.2	20		B5/B14		187	83	2.2	7.5		CM075
	112	104	1.4	25	CM075	B5/B14		140	109	1.8	10	B5/B14	
	93	120	1.3	30		B5/B14		93	157	1.2	15	B5/B14	
	70	156	1.0	40		B5/B14		70	204	1.0	20	B5/B14	
	56	194	1.3	50	CM090	B5/B14		56	246	0.8	25	B5/B14	
	47	227	1.0	60		B5/B14		47	284	0.8	30	B5/B14	
	90L4 (1400 min ⁻¹)	187	67	1.9	7.5	CM063		B5/B14	93	161	2.2	15	CM090
140		88	1.5	10	B5/B14		70	209	1.7	20	B5/B14		
93		129	1.0	15	B5/B14		56	259	1.3	25	B5/B14		
70		166	0.8	20	B5/B14		47	288	1.4	30	B5/B14		
187		68	2.7	7.5	CM075	B5/B14	47	292	2.2	30	CM110	B5	
140		88	2.2	10		B5/B14	35	384	1.6	40		B5	
93		127	1.5	15		B5/B14	28	467	1.3	50		B5	
70		166	1.2	20		B5/B14	23	545	1.0	60		B5	
56		200	1.0	25		B5/B14	23	553	1.6	60		CM130	B5
47		230	1.0	30		B5/B14	18	697	1.2	80			B5
56		210	1.6	25	CM090	B5/B14	14	808	0.9	100	B5		
47		233	1.7	30		B5/B14							
35		303	1.2	40		B5/B14							
28		368	0.9	50		B5/B14							
35		311	2.0	40	CM110	B5							
28		379	1.6	50		B5							
23		442	1.3	60		B5							
18		548	0.9	80		B5							
23	448	2.0	60	CM130	B5								
18	565	1.5	80		B5								
14	655	1.1	100		B5								
100LA6 (900 min ⁻¹)	120	104	2.0	7.5	CM075	B5/B14	2.2						
	90	135	1.7	10		B5/B14	90L2 (2800 min ⁻¹)	373	50	1.8	7.5	CM063	B5/B14
	60	196	1.2	15		B5/B14	280	65	1.4	10	B5/B14		
	45	255	1.5	20	CM090	B5/B14	187	95	1.1	15	B5/B14		
	36	310	1.2	25		B5/B14	187	97	1.5	15	CM075	B5/B14	
	30	349	1.3	30		B5/B14	140	125	1.2	20		B5/B14	
	23	465	1.5	40		CM110	B5	112	158	1.5	25	CM090	B5/B14
	18	565	1.2	50	B5		93	180	1.7	30	B5/B14		
	15	649	1.0	60	B5		70	237	1.1	40	B5/B14		
	11	815	1.1	80	CM130	B5	100LA4 (1400 min ⁻¹)	187	99	1.8	7.5	CM075	B5/B14
	9	939	0.8	100		B5	140	129	1.5	10	B5/B14		
							93	187	1.0	15	B5/B14		
							187	99	2.8	7.5	CM090	B5/B14	
							140	131	2.3	10		B5/B14	
						93	191	1.8	15	B5/B14			
						70	249	1.4	20	B5/B14			
						56	308	1.1	25	B5/B14			
						47	342	1.2	30	B5/B14			
						70	252	2.2	20	CM110	B5		
						56	311	1.9	25		B5		
						47	347	1.8	30		B5		
						35	456	1.3	40		B5		
						28	555	1.1	50	B5			
						23	648	0.9	60	B5			
						35	456	2.3	40	CM130	B5		
						28	563	1.7	50		B5		
						23	657	1.4	60		B5		
						18	828	1.0	80		B5		
						14	960	0.8	100	B5			

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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								
2.2							4.0												
112M6 (900 min ⁻¹)	120	152	2.1	7.5	CM090	B5/B14	112M2 (2800 min ⁻¹)	373	91	1.3	7.5	CM075	B5						
	90	198	1.8	10		B5/B14		280	120	1.1	10		B5						
	60	291	1.4	15		B5/B14		187	178	1.5	15	CM090	B5						
	45	374	1.0	20		B5/B14													
	36	473	1.4	25	CM110	B5	112M4 (1400 min ⁻¹)	187	180	1.0	7.5	CM075	B5/B14						
	30	525	1.4	30		B5		140	235	0.8	10		B5/B14						
	23	682	1.0	40		B5		187	180	1.6	7.5	CM090	B5/B14						
	18	852	1.2	50	CM130	B5								140	237	1.3	10	B5/B14	
	15	980	1.0	60		B5		93	348	1.0	15	B5/B14							
								70	453	0.8	20	B5/B14							
100LA2 (2800 min ⁻¹)	373	68	1.8	7.5	CM075	B5/B14		132L6 (900 min ⁻¹)	120	280	2.0	7.5	CM110	B5/B14					
	280	90	1.5	10		B5/B14			90	365	1.7	10		B5/B14					
	187	132	1.1	15		B5/B14			60	528	1.2	15	B5/B14						
	140	176	1.4	20	CM090	B5/B14			45	696	1.5	20	CM130	B5/B14					
	112	215	1.1	25		B5/B14	36								860	1.2	25	B5/B14	
	93	246	1.2	30		B5/B14	30		980	1.2	30	B5/B14							
	100LB4 (1400 min ⁻¹)	187	135	1.3	7.5	CM075	B5/B14		132S4 (1400 min ⁻¹)	187	250	1.9	7.5	CM110	B5/B14				
		140	176	1.1	10		B5/B14			140	326	1.6	10		B5/B14				
		93	255	0.8	15		B5/B14			93	478	1.2	15	B5/B14					
		187	135	2.1	7.5	CM090	B5/B14			70	630	0.9	20	CM130	B5/B14				
140		178	1.7	10	B5/B14		187	250								3.0	7.5	B5/B14	
93		261	1.3	15	B5/B14		140	330		2.5	10	B5/B14							
70		340	1.0	20	B5/B14	93	484	1.9		15	B5/B14								
56		420	0.8	25	B5/B14	70	630	1.4		20	B5/B14								
47		467	0.9	30	B5/B14	56	778	1.2		25	B5/B14								
93		261	2.2	15	CM110	B5	47	889		1.2	30	B5/B14							
70	344	1.6	20	B5		35	1141	0.9	40	B5/B14									
56	425	1.4	25	B5		132MA4 (1400 min ⁻¹)	187	341	1.4	7.5	CM110	B5/B14							
47	473	1.3	30	B5	140		445	1.2	10	B5/B14									
35	622	1.0	40	B5	93		652	0.9	15	B5/B14									
28	757	0.8	50	B5	187		341	2.2	7.5	CM130	B5/B14								
35	622	1.7	40	CM130								B5	140	450	1.8	10	B5/B14		
28	767	1.3	50		B5		93	660	1.4	15	B5/B14								
23	896	1.0	60		B5		70	860	1.1	20	B5/B14								
132S6 (900 min ⁻¹)	120	210	2.7	7.5	CM110		B5	56	1062	0.9	25	B5/B14							
	90	274	2.3	10			B5	47	1213	0.9	30	B5/B14							
	60	396	1.6	15			B5	7.5	187	341	2.2	7.5	CM130	B5/B14					
	45	522	1.2	20		B5	140								450	1.8	10	B5/B14	
	36	645	1.6	25	CM130	B5	93								660	1.4	15	B5/B14	
	30	735	1.6	30		B5	70								860	1.1	20	B5/B14	
	23	942	1.2	40		B5	56								1062	0.9	25	B5/B14	
	132S4 (1400 min ⁻¹)	187	250	1.9	7.5	CM110	B5/B14								7.5	187	341	2.2	7.5
		140	326	1.6	10		B5/B14	140	445	1.2	10	B5/B14							
		93	478	1.2	15		B5/B14	93	652	0.9	15	B5/B14							
70		630	0.9	20	B5/B14	187	341	2.2	7.5	CM130	B5/B14								
187		250	3.0	7.5	B5/B14							140	450	1.8					
140		330	2.5	10	B5/B14	93	660	1.4	15	B5/B14									
93		484	1.9	15	B5/B14	70	860	1.1	20	B5/B14									
70		630	1.4	20	B5/B14	56	1062	0.9	25	B5/B14									
56		778	1.2	25	B5/B14	47	1213	0.9	30	B5/B14									
47		889	1.2	30	B5/B14	7.5	187	341	2.2	7.5	CM130	B5/B14							
35	1141	0.9	40	B5/B14	140								450	1.8	10	B5/B14			
187	250	3.0	7.5	B5/B14	93								660	1.4	15	B5/B14			
140	330	2.5	10	B5/B14	70								860	1.1	20	B5/B14			
93	484	1.9	15	B5/B14	56								1062	0.9	25	B5/B14			
70	630	1.4	20	B5/B14	47								1213	0.9	30	B5/B14			

	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	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	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	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	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											
	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	B												
	90B5	130	165	200	24	BS	BS	BS	BS	BS	BS	BS	BS	B	B	B	B							



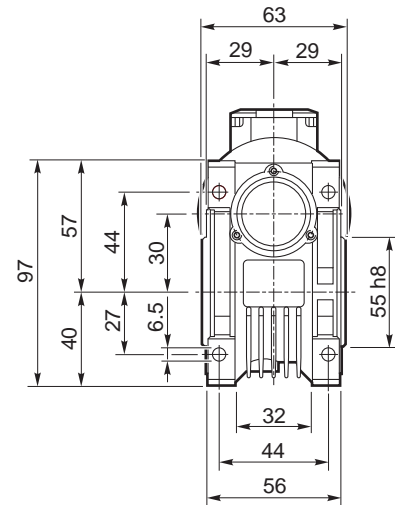
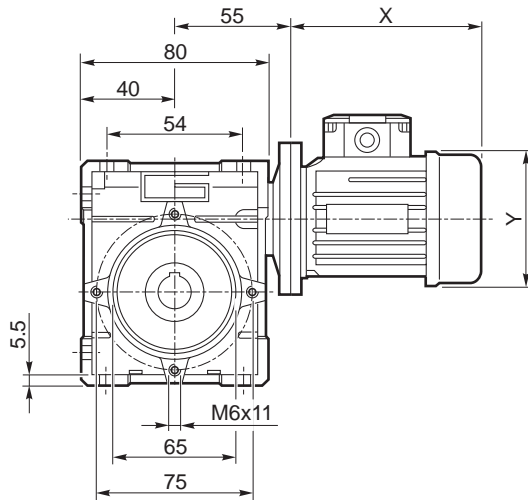
N.B.
Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.
N.B. Grey areas indicate motor inputs available on each size of unit.

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

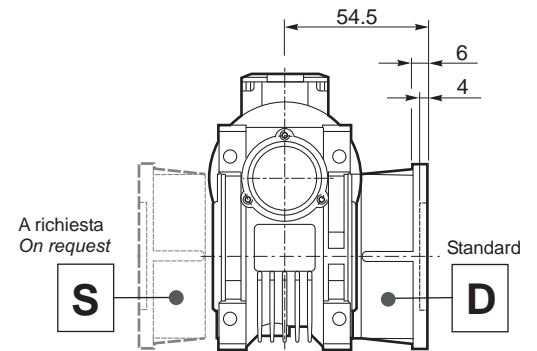
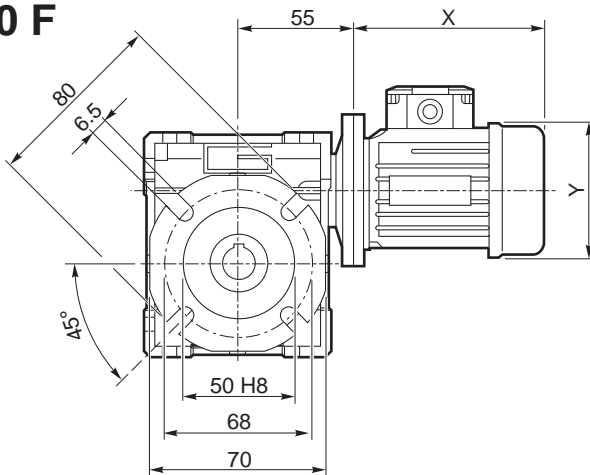
Dimensioni

Dimensions

CM 030 U

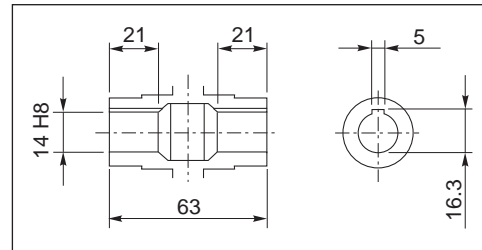
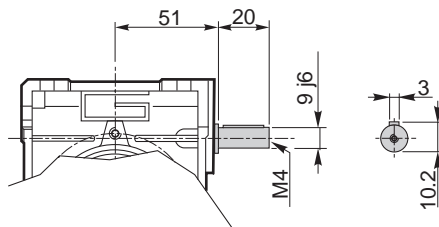


CM 030 F



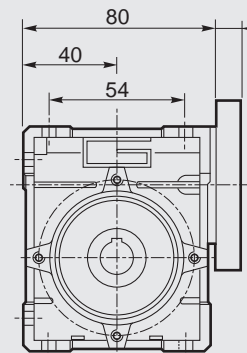
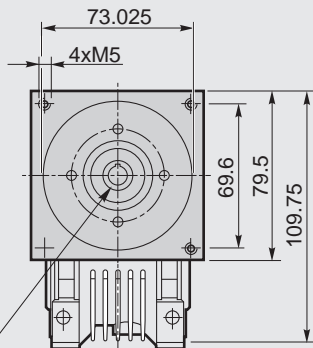
Kg
1.2

CMIS 030 ..



Albero lento cavo / Hollow output shaft

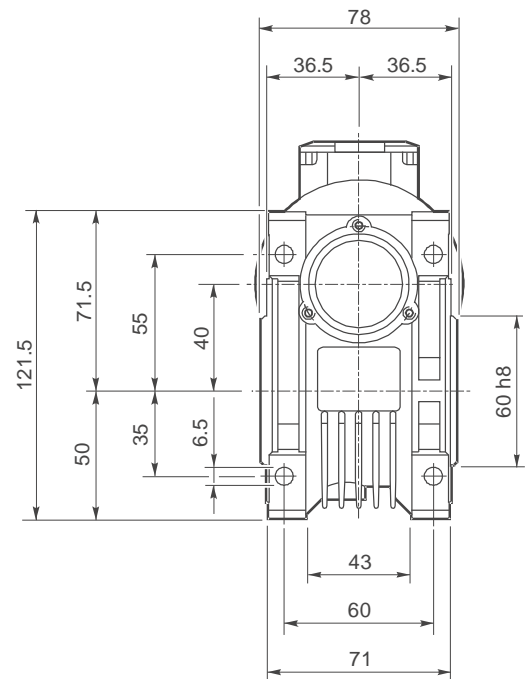
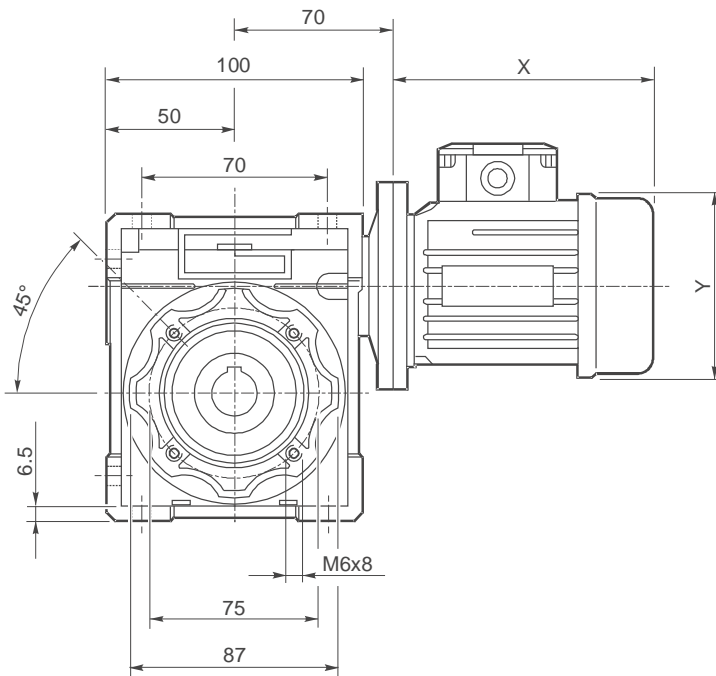
CM 030.. con flangia NEMA34 / with NEMA34 flange



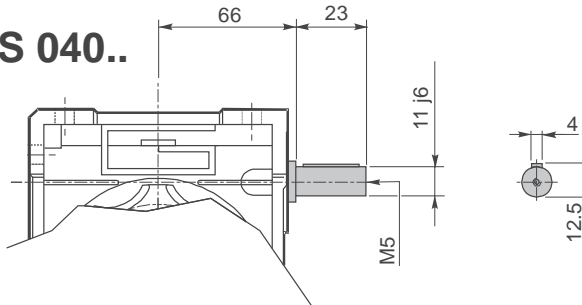
Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.
 Flange's thickness may vary depending on motorshaft's length

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

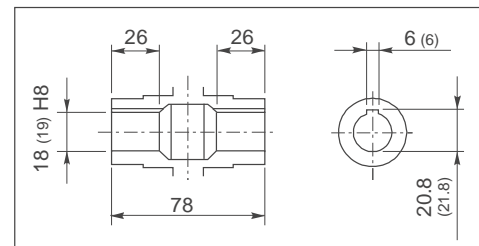
CM 040 U



CMIS 040..

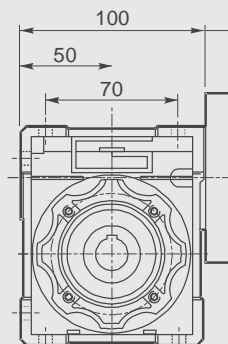
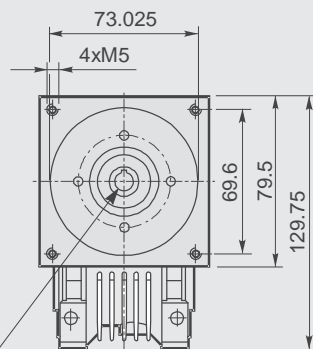


Kg
2.3



Albero lento cavo / Hollow output shaft

CM 040.. con flangia NEMA34 / with NEMA34 flange



Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

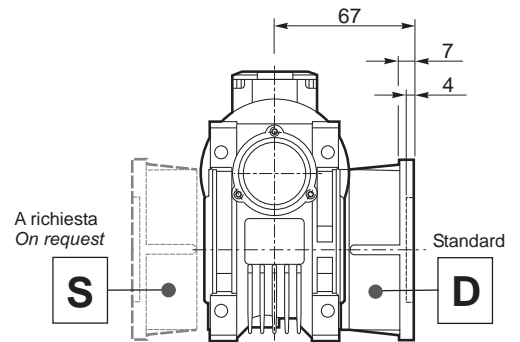
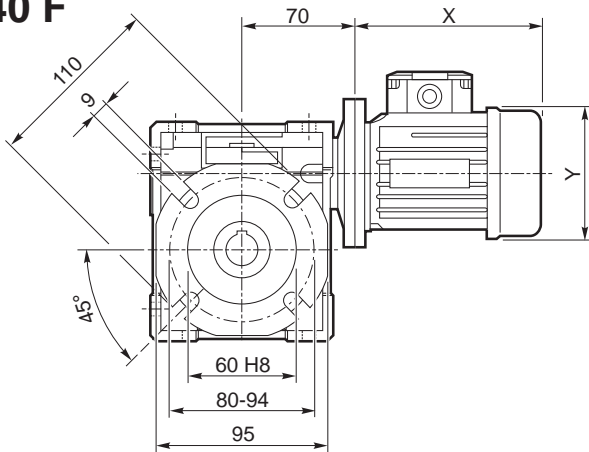
Flange's thickness may vary depending on motorshaft's length

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

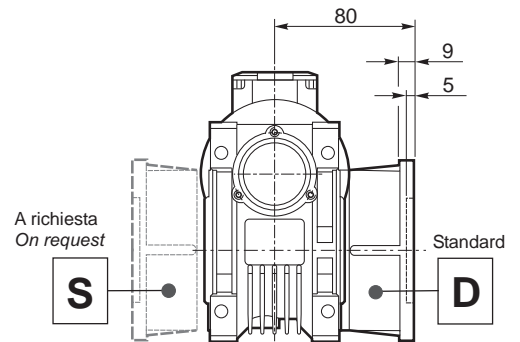
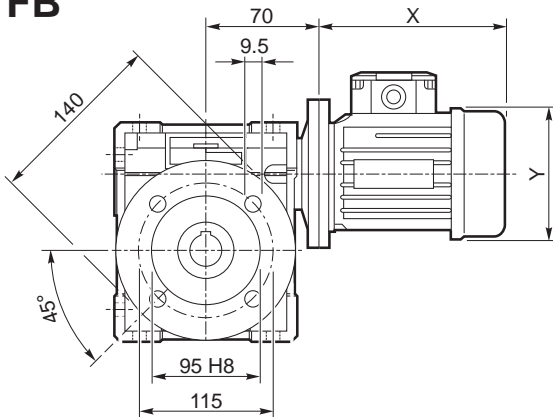
Dimensioni

Dimensions

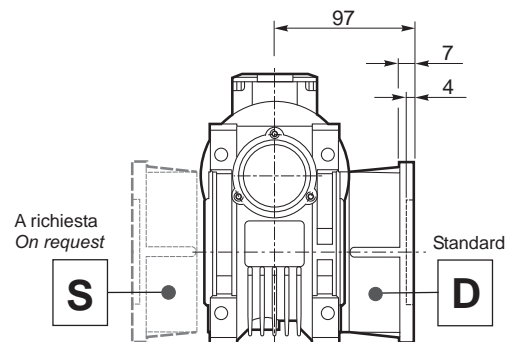
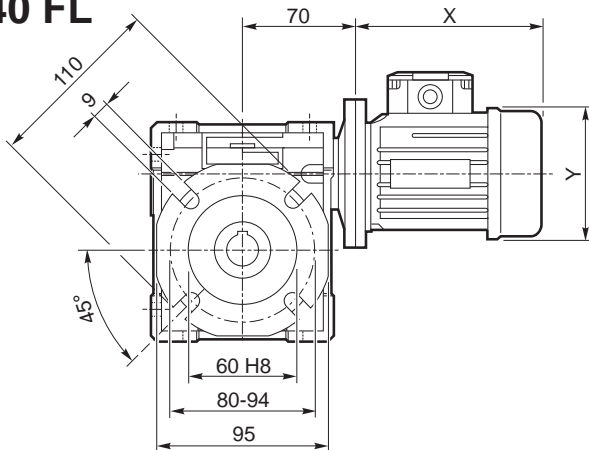
CM 040 F



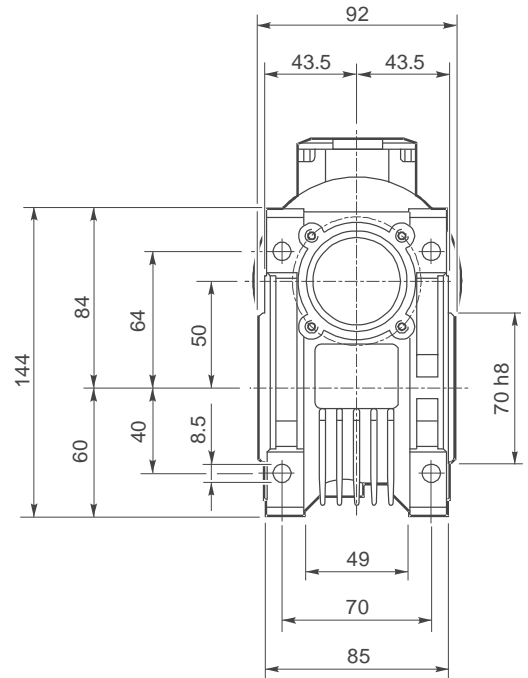
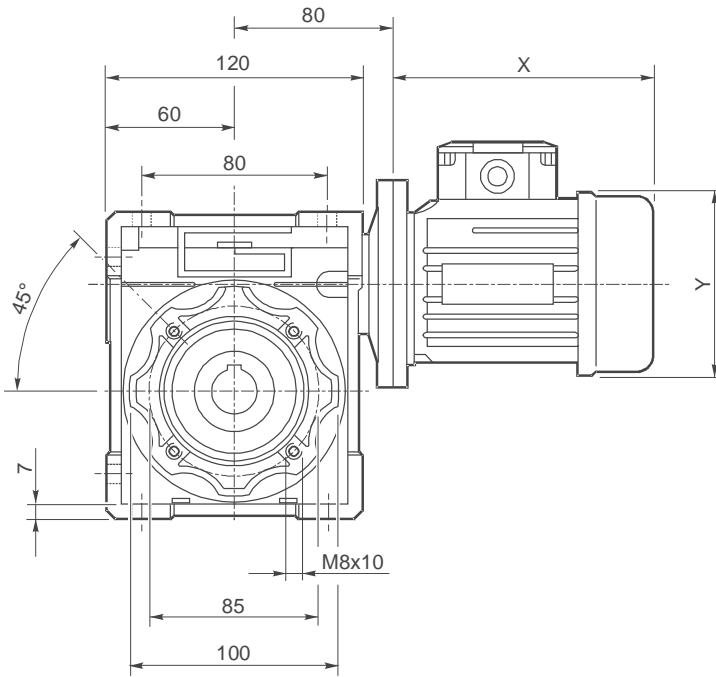
CM 040 FB



CM 040 FL

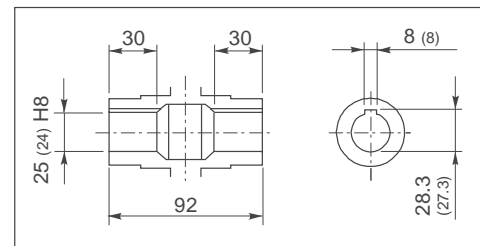
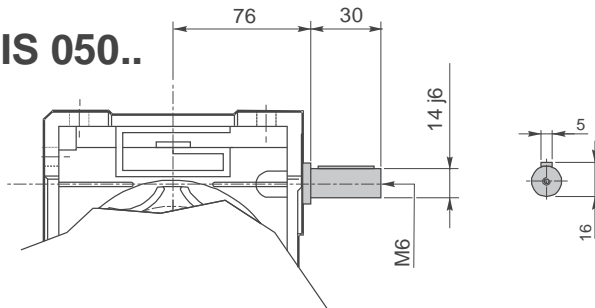


CM 050 U



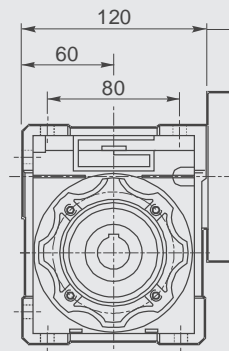
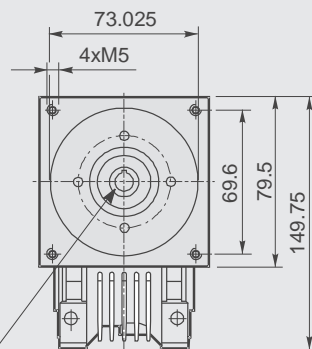
Kg
3.5

CMIS 050..



Albero lento cavo / Hollow output shaft

CM 050.. con flangia NEMA34 / with NEMA34 flange



Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

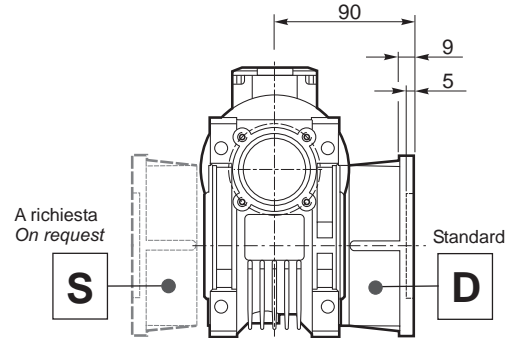
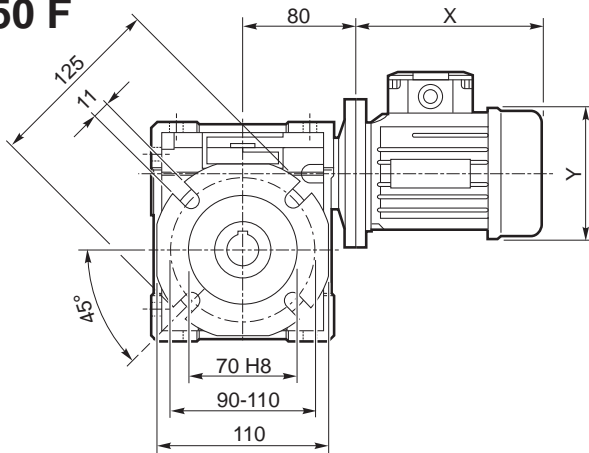
Flange's thickness may vary depending on motorshaft's length

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

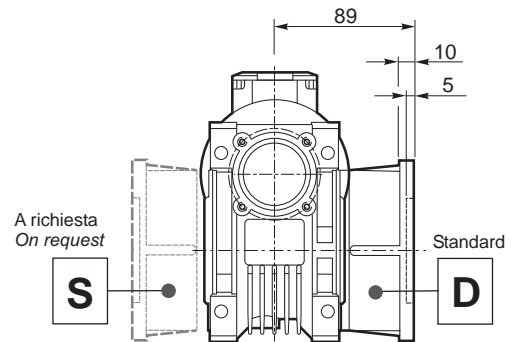
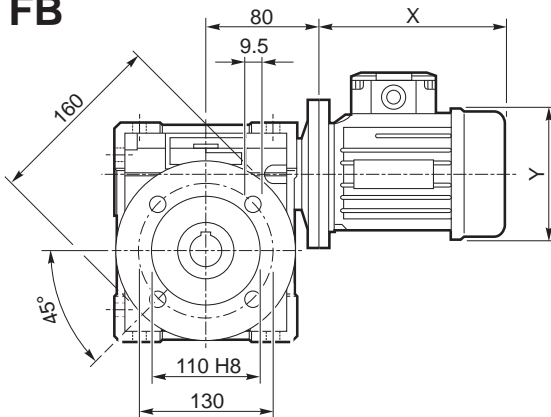
Dimensioni

Dimensions

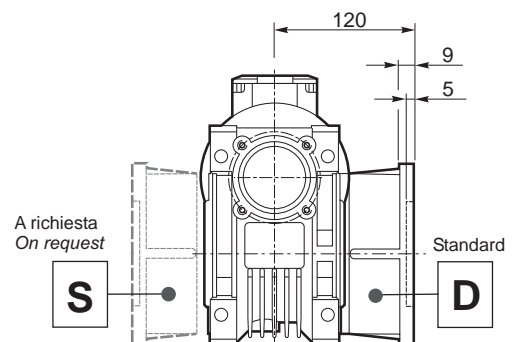
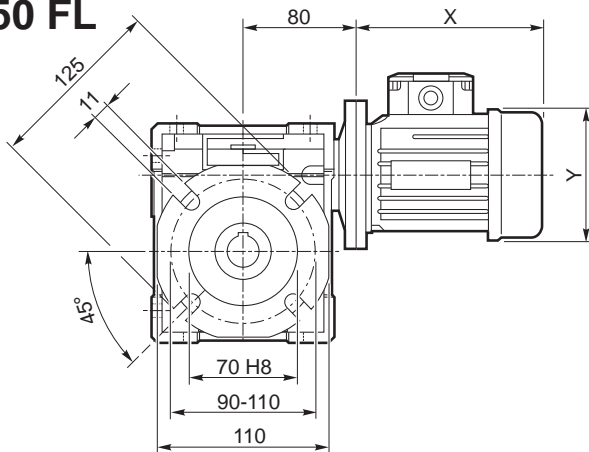
CM 050 F



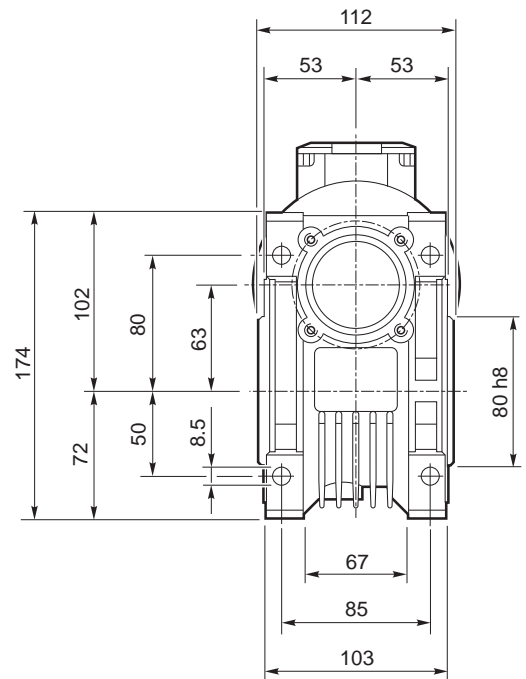
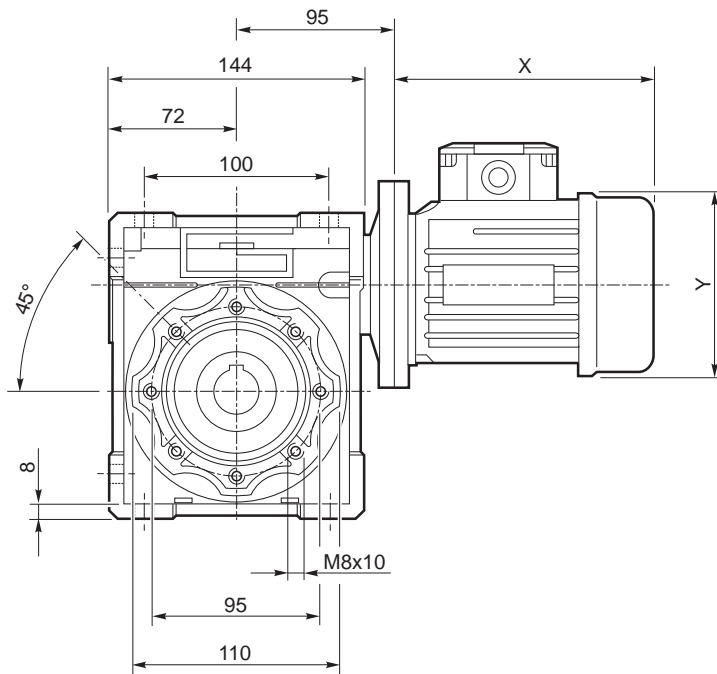
CM 050 FB



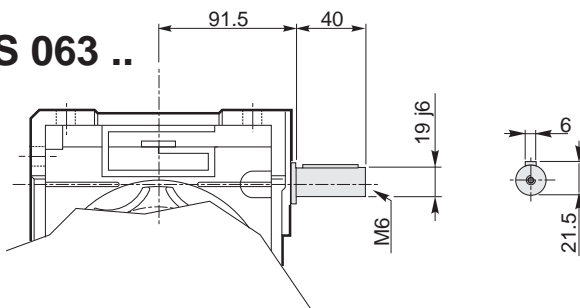
CM 050 FL



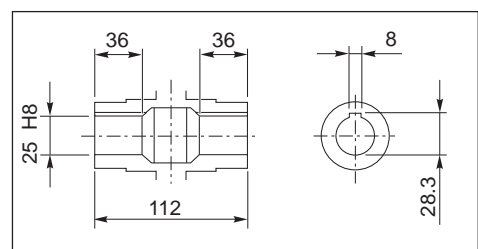
CM 063 U



CMIS 063 ..



Kg
6.2

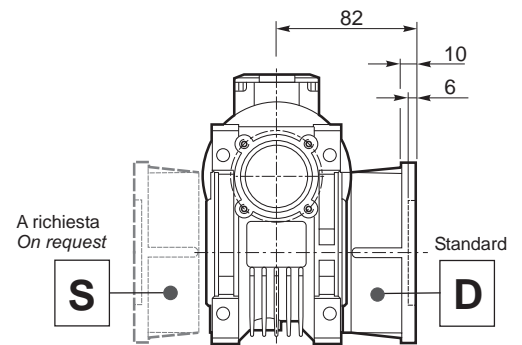
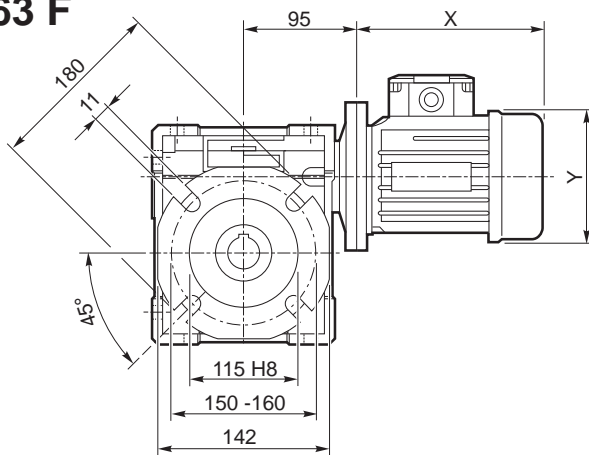


Albero lento cavo / Hollow output shaft

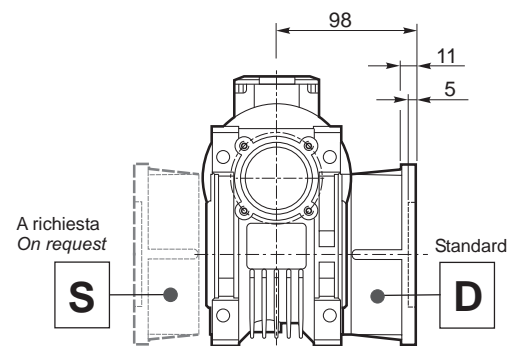
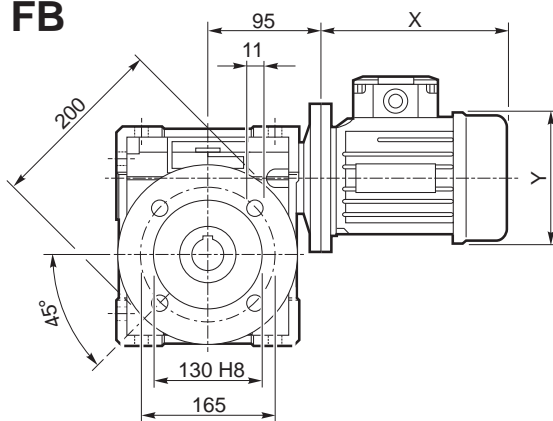
Dimensioni

Dimensions

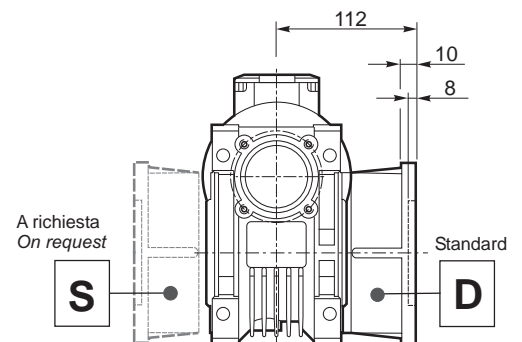
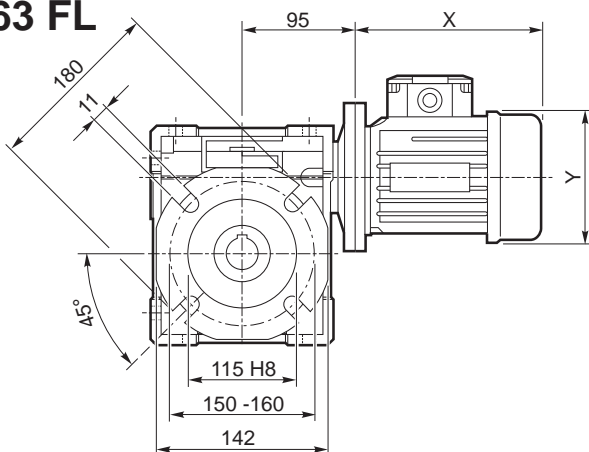
CM 063 F



CM 063 FB



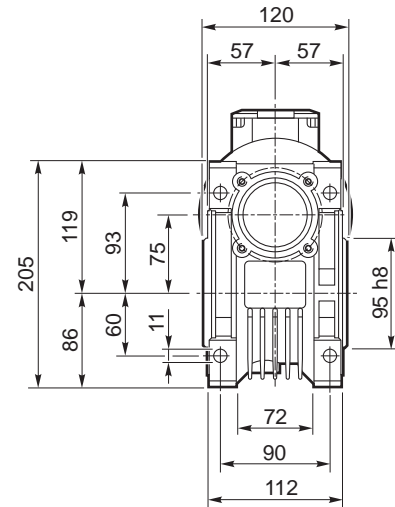
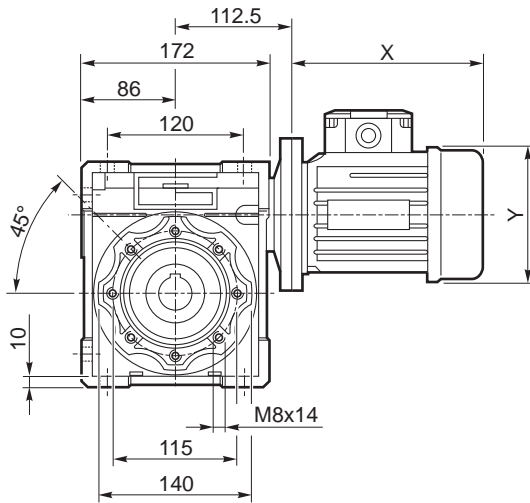
CM 063 FL



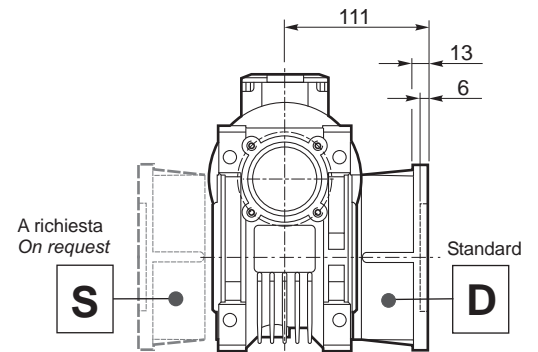
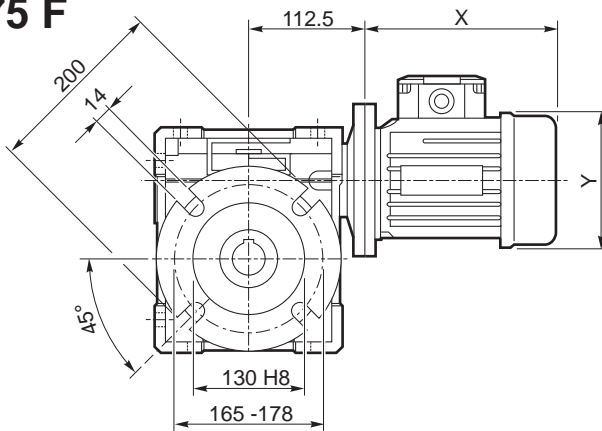
Dimensioni

Dimensions

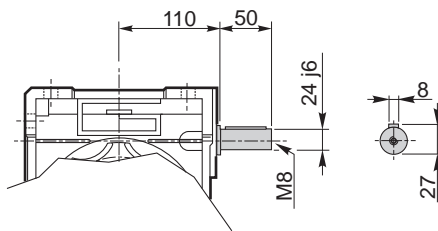
CM 075 U



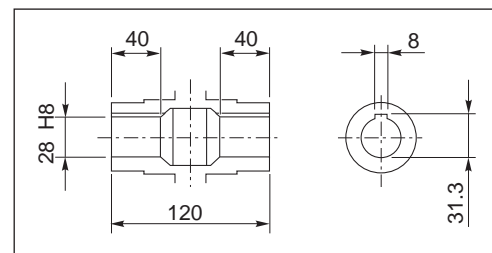
CM 075 F



CMIS 075 ..

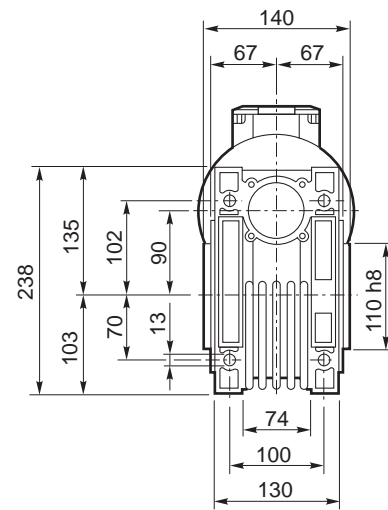
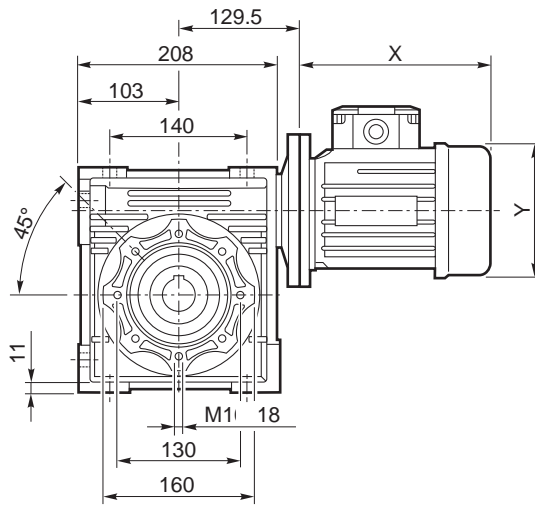


Kg
9.0

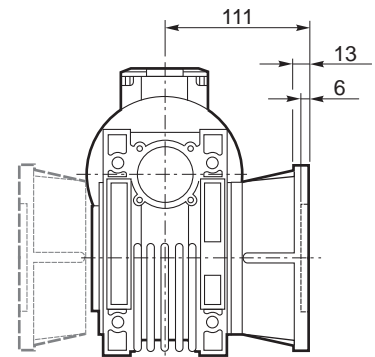
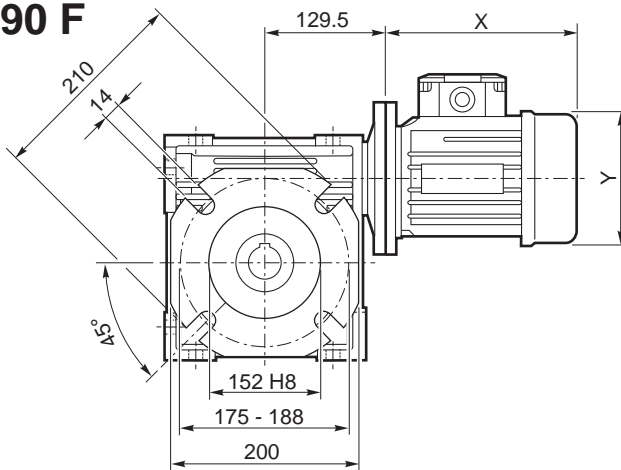


Albero lento cavo / Hollow output shaft

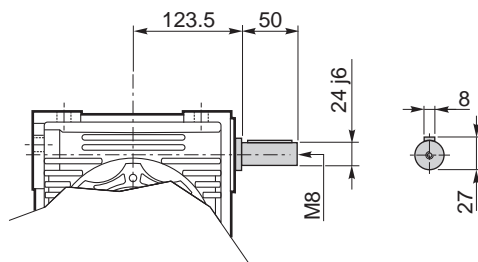
CM 090 U



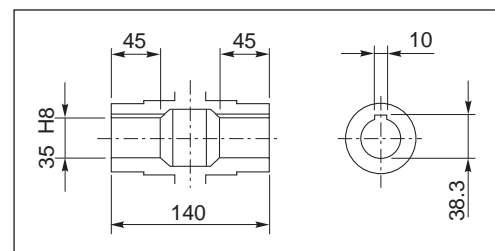
CM 090 F



CMIS 090..

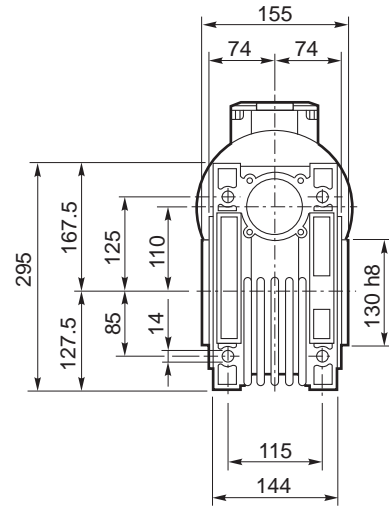
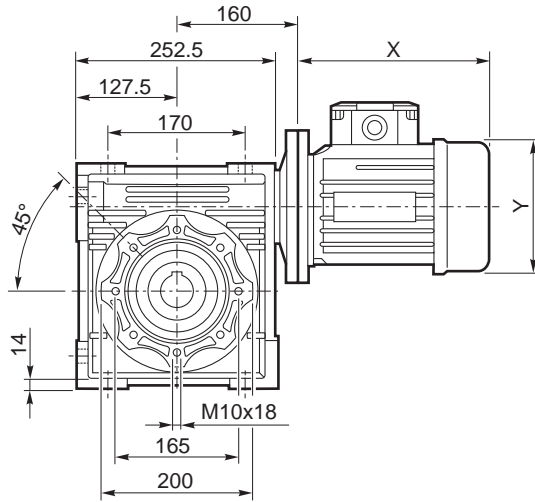


Kg
13

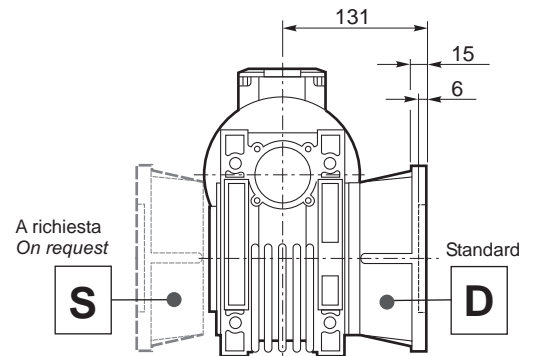
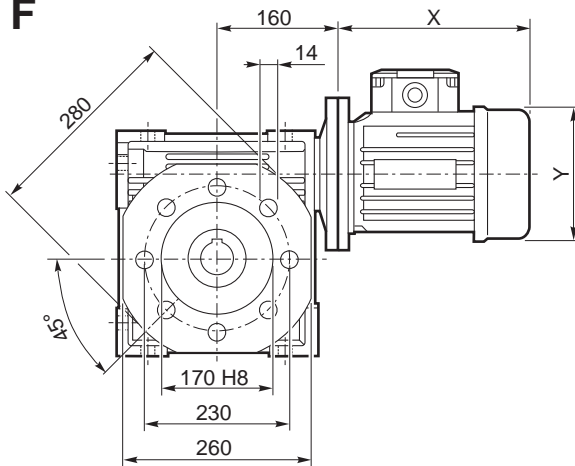


Albero lento cavo / Hollow output shaft

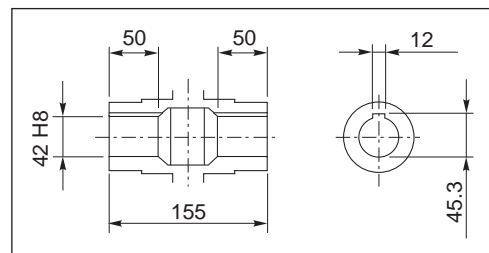
CM 110 U



CM 110 F

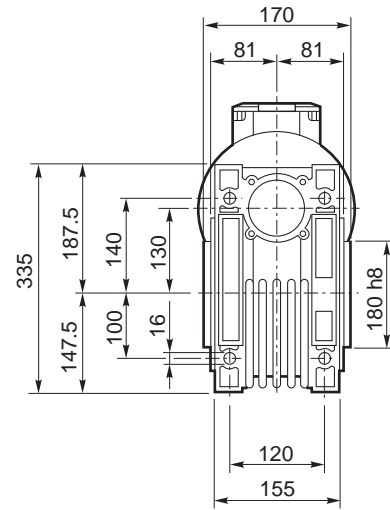
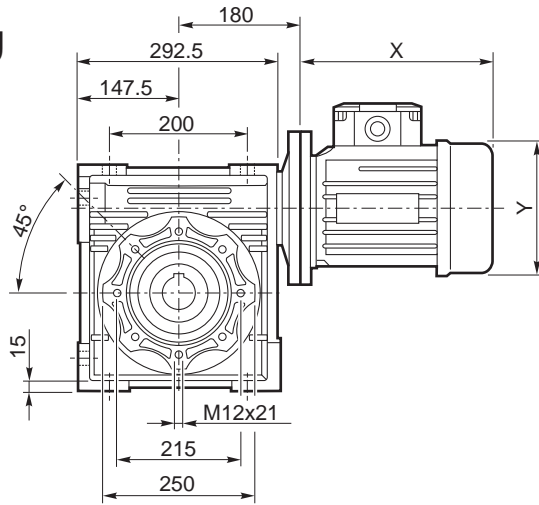


Kg
35

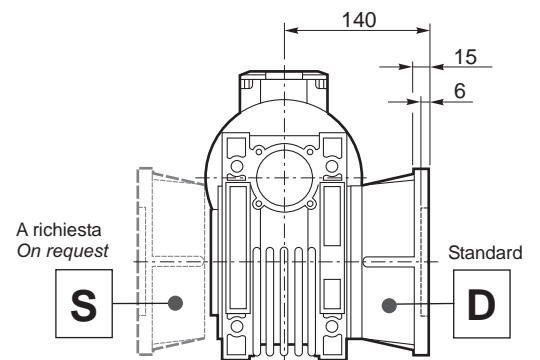
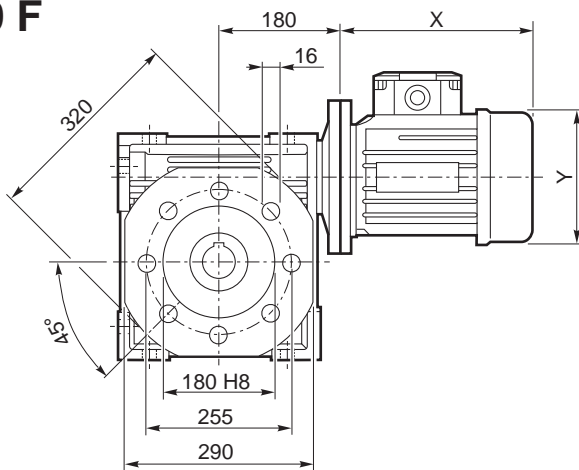


Albero lento cavo / Hollow output shaft

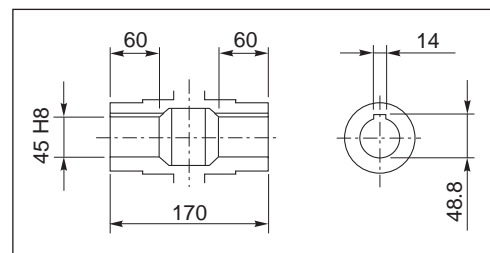
CM 130 U



CM 130 F



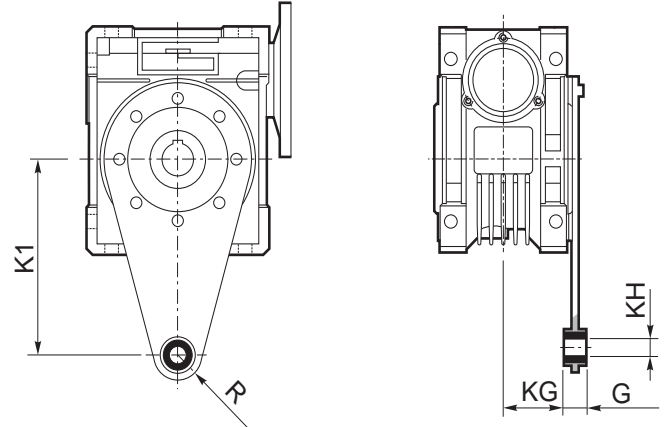
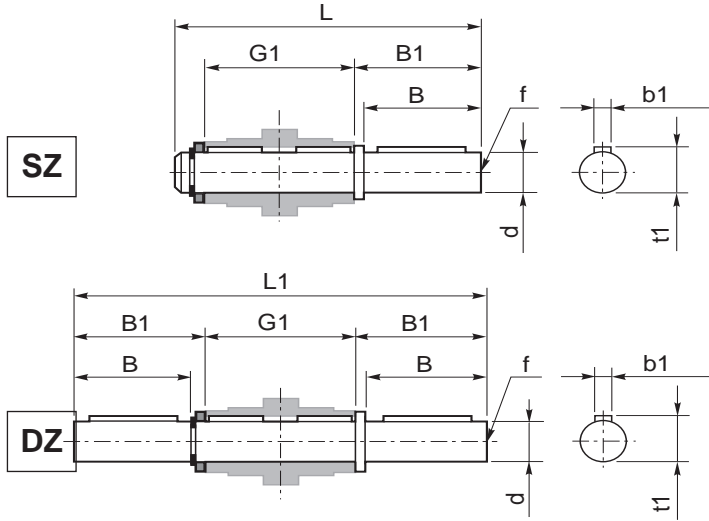
Kg
58



Albero lento cavo / Hollow output shaft

Albero lento / Output shaft

Braccio di reazione / Torque arm



	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

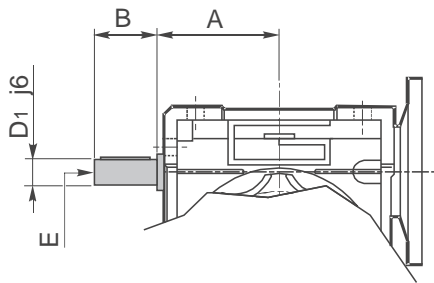
	K1	G	KG	KH	R
CM 030	85	14	23	8	15
CM 040	100	14	31	10	18
CM 050	100	14	38	10	18
CM 063	150	14	47.5	10	18
CM 075	200	25	46.5	20	30
CM 090	200	25	56.5	20	30
CM 110	250	30	62	25	35
CM 130	250	30	69	25	35

Opzioni

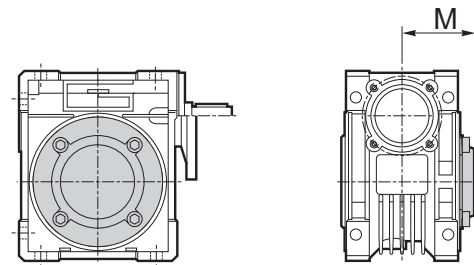
Options

VS - Vite sporgente / Extended input shaft

PC - Coperchio di protezione / Plastic cover



	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



	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



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