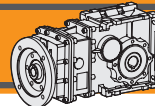


RIDUTTORI AD ASSI ORTOGONALI
BEVEL HELICAL GEARBOXES

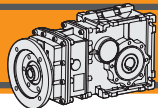




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Caratteristiche tecniche

I riduttori ad ingranaggi ad assi ortogonali della serie CMB sono caratterizzati da un elevato grado di modularità: essi infatti sono stati realizzati con una carcassa completamente intercambiabile con quella dei riduttori a vite senza fine della serie CM.

Sono pertanto configurabili secondo le esigenze dell'applicazione con flangia di uscita, albero di uscita, braccio di reazione.

Caratteristiche comuni a tutta la serie:

- Carcassa in alluminio nelle grandezze 633 e 903.
La grandezza 1103 è costruita con carcassa in ghisa.
- Ingranaggi sempre rettificati.
- Lubrificazione permanente con olio sintetico.

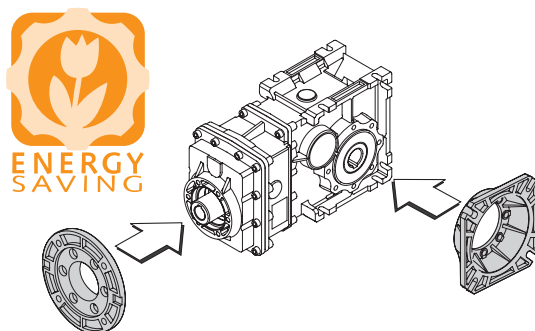
Technical features

The high degree of modularity of CMB bevel helical gearbox allows it to be completely interchangeable with CM wormgearboxes.

It is possible to set up the version required using output flanges, output shafts and optional torque arms.

Common features of all CMB range are:

- Die-cast aluminum housing on sizes 633 and 903.
Cast-iron housing on size 1103.
- Ground helical gears.
- Permanent synthetic oil long-life lubrication.



Designazione

Designation

RIDUTTORE / GEARBOX										
CMB	63	3	U	9.81	90	B5	SZDX	BRSX	90	B3
Tipo <i>Type</i>	Grandezza <i>Size</i>	Stadi <i>Stages</i>	Versione <i>Version</i>	Rapporto <i>Ratio</i>	IEC 	Forma costruttiva <i>Version</i>	Albero di uscita <i>Output shaft</i>	Braccio di reazione <i>Torque arm</i>	Angolo <i>Angle</i>	Pos. di montaggio <i>Mounting position</i>
CMB	63 90 110	3	U... FD... FS... FBD... FBS... FLD... FLS...	vedi tabelle <i>see tables</i>	63.. — 90..	B5 B14	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	B3 B8 B6 B7 V5 V6

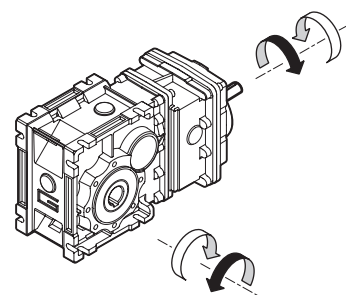
RIDUTTORE / GEARBOX								
CMBIS	63 3	U	9.81	SZDX	BRSX	90	B3	
Tipo Type	Grandezza Size	Stadi Stages	Versione Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio Mounting position
CMBIS 	63 90 110	3	U... FD... FS... FBD... FBS... FLD... FLS	vedi tabelle see tables	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	B3 B8 B6 B7 V5 V6

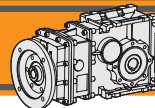
MOTORE / MOTOR				
1.5kW	4p	3ph	50Hz	T1
Potenza Power	Poli Poles	Fasi Phases	Frequenza Frequency	Pos. morsetti Terminal box pos.
Vedi tabelle See tables	2p 4p 6p 8p	1ph 3ph	50Hz 60Hz	

Sensi di rotazione

Direction of rotation

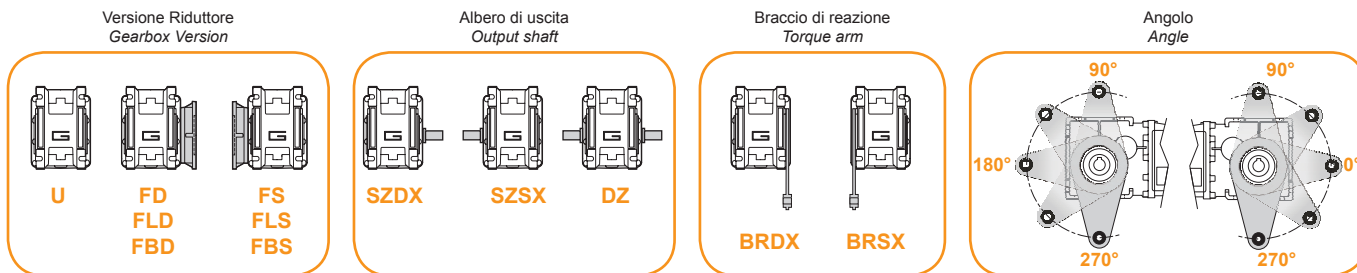
CMB...3
CMBIS...3





Designazione

Designation



Lubrificazione

Lubrication

Tutti i riduttori nelle taglie 633 e 903 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione. Per la taglia 1103 la lubrificazione dipende dalla posizione di montaggio.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use sizes 633 and 903 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. For size 1103 lubrication depends on assembly position.

N.B.

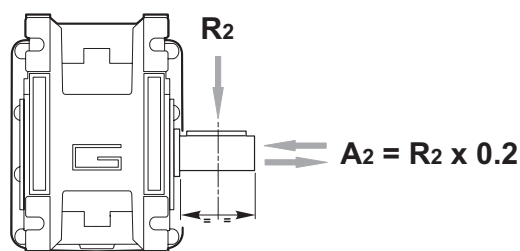
Le quantità di lubrificante sono indipendenti dalla posizione di montaggio per le taglie 633 e 933. The oil quantity does not depend on mounting position for sizes 633 and 933.

Quantità di olio (litri) / Oil quantity (liters)		
CMB - CMBIS		
633	903	1103
1.3	2.8	*

* Contattare il ns. Servizio Tecnico / Contact our Technical Service

Carichi radiali

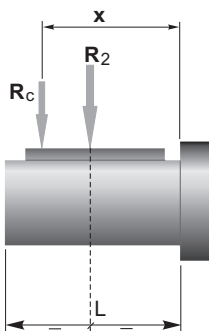
Radial loads



n ₂ [min ⁻¹]	R ₂ [N]		
	CMB 633	CMB 903	CMB1103
400	1835	2682	3409
300	2020	2952	3752
200	2312	3379	4294
170	2441	3567	4534
140	2604	3806	4837
100	2913	4686	5411
90	3321	4853	5832
60	3801	5556	7299
40	4492	6614	8355
30	5159	7540	9524
20	5906	8631	10903
15	6500	9500	12000
10	6500	9500	12000

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:



	CMB 633	CMB 903	CMB 1103
a	118	157	173
b	93	117	133
R _{2MAX}	6500	9500	12000

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

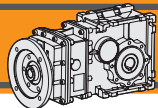
$$R \leq R_c$$

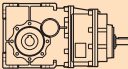
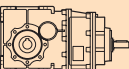
a, b = valori riportati nella tabella
a, b = values given in the table

Simbologia

Symbols

n ₁	[min ⁻¹]	Velocità in ingresso / Input speed
n ₂	[min ⁻¹]	Velocità in uscita / Output speed
i		Rapporto di riduzione / Ratio
P ₁	[kW]	Potenza in entrata / Input power
M ₂	[Nm]	Coppia nominale in uscita in funzione di P ₁ / Output torque referred to P ₁
Pn ₁	[kW]	Potenza nominale in entrata / Nominal input power
Mn ₂	[Nm]	Coppia nominale in uscita in funzione di Pn ₁ / Nominal output torque referred to Pn ₁
sf		Fattore di servizio / Service factor
R ₂	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
A ₂	[N]	Carico assiale ammissibile in uscita / Permitted output axial load

**CMB****RIDUTTORI AD ASSI ORTOGONALI**
BEVEL HELICAL GEARBOXES**Dati tecnici** **n_1 1400 min⁻¹****Technical data**

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i		n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
CMBIS 633					CMBIS 903				
	213	150	3.6	6.58		211	280	6.6	6.65
	175	150	2.9	7.99		175	280	5.5	8.00
	143	150	2.4	9.81		144	280	4.5	9.74
	134	150	2.2	10.44		125	280	3.9	11.21
	112	150	1.9	12.53		99.3	300	3.3	14.09
	105	150	1.8	13.31		78.0	450	3.9	17.95
	88.6	170	1.7	15.81		64.8	450	3.2	21.60
	78.8	220	1.9	17.77		53.2	450	2.7	26.30
	64.9	220	1.6	21.56		46.3	450	2.3	30.25
	52.9	220	1.3	26.48		35.7	500	2.0	39.26
	49.7	220	1.2	28.17		29.6	500	1.7	47.25
	41.4	220	1.0	33.81		24.3	500	1.4	57.52
	39.0	220	0.96	35.92		21.2	500	1.2	66.17
	36.0	250	1.00	38.88		16.8	500	0.94	83.20
	29.7	250	0.83	47.16		10.6	500	0.59	132.23
	24.2	250	0.67	57.93		7.3	500	0.41	191.06
	22.7	250	0.63	61.63		6.3	500	0.35	221.88
	18.9	250	0.53	73.96	CMBIS 1103				
	17.8	250	0.50	78.58		198	550	12.12	7.08
	15.0	250	0.42	93.33		156	550	9.54	8.99
	10.0	250	0.28	140.52		128	550	7.87	10.90
	7.7	250	0.21	181.81		112	550	6.85	12.52
	6.6	250	0.18	211.31		89.2	620	6.16	15.69
						76.7	810	6.92	18.25
						60.4	810	5.45	23.18
						49.8	810	4.49	28.11
						43.4	810	3.91	32.27
						37.7	900	3.78	37.09
						29.7	900	2.98	47.12
						24.5	900	2.46	57.14
						21.3	900	2.14	65.59
						17.0	900	1.71	82.21
						14.4	900	1.44	97.25
						10.8	900	1.08	130.07
						7.5	900	0.75	187.50

Nota:

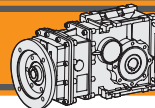
 Pn_1 è la potenza meccanica.

La potenza applicabile è ridotta del fattore termico.

Per maggiori dettagli consultare il nostro Servizio Tecnico.

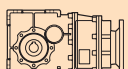
Note:

 Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.



Dati tecnici

Technical data

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

0.12

63A4 (1400 min ⁻¹)	213	5	29.6	6.58	CMB633	B5
	175	6	24.4	7.99		B5
	143	8	19.9	9.81		B5
	134	8	18.7	10.44		B5
	112	10	15.6	12.53		B5
	105	10	14.6	13.31		B5
	88.6	12	14.0	15.81		B5
	78.8	14	16.1	17.77		B5
	64.9	17	13.3	21.56		B5
	52.9	20	10.8	26.48		B5
	49.7	22	10.1	28.17		B5
	41.4	26	8.5	33.81		B5
	39.0	28	8.0	35.92		B5
	36.0	30	8.4	38.88		B5
	29.7	36	6.9	47.16		B5
	24.2	45	5.6	57.93		B5
	22.7	47	5.3	61.63		B5
	18.9	57	4.4	73.96		B5
	17.8	60	4.1	78.58		B5
	15.0	72	3.5	93.33		B5
	10.0	108	2.3	140.52		B5
	7.7	140	1.8	181.81		B5
	6.6	163	1.5	211.31		B5

0.18

63B4 (1400 min ⁻¹)	213	8	19.7	6.58	CMB633	B5
	175	9	16.3	7.99		B5
	143	11	13.2	9.81		B5
	134	12	12.4	10.44		B5
	112	14	10.4	12.53		B5
	105	15	9.8	13.31		B5
	88.6	18	9.3	15.81		B5
	78.8	21	10.7	17.77		B5
	64.9	25	8.8	21.56		B5
	52.9	31	7.2	26.48		B5
	49.7	33	6.8	28.17		B5
	41.4	39	5.6	33.81		B5
	39.0	41	5.3	35.92		B5
	36.0	45	5.6	38.88		B5
	29.7	54	4.6	47.16		B5
	24.2	67	3.7	57.93		B5
	22.7	71	3.5	61.63		B5
	18.9	85	2.9	73.96		B5
	17.8	91	2.8	78.58		B5
	15.0	108	2.3	93.33		B5
	10.0	162	1.5	140.52		B5
	7.7	210	1.2	181.81		B5
	6.6	244	1.0	211.31		B5

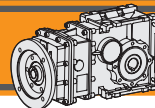
0.25

71A4 (1400 min ⁻¹)	213	11	14.2	6.58	CMB633	B5/B14
	175	13	11.7	7.99		B5/B14
	143	16	9.5	9.81		B5/B14
	134	17	9.0	10.44		B5/B14
	112	20	7.5	12.53		B5/B14
	105	21	7.0	13.31		B5/B14
	88.6	25	6.7	15.81		B5/B14
	78.8	28	7.7	17.77		B5/B14
	64.9	35	6.4	21.56		B5/B14
	52.9	42	5.2	26.48		B5/B14
	49.7	45	4.9	28.17		B5/B14
	41.4	54	4.1	33.81		B5/B14
	39.0	58	3.8	35.92		B5/B14
	36.0	62	4.0	38.88		B5/B14
	29.7	76	3.3	47.16		B5/B14
	24.2	93	2.7	57.93		B5/B14
	22.7	99	2.5	61.63		B5/B14
	18.9	119	2.1	73.96		B5/B14
	17.8	126	2.0	78.58		B5/B14
	15.0	150	1.7	93.33		B5/B14
	10.0	225	1.1	140.52		B5/B14
	7.7	291	0.9	181.81		B5/B14
	24.3	92	5.4	57.52	CMB903	B5
	21.2	106	4.7	66.17		B5
	16.8	133	3.7	83.20		B5
	10.6	212	2.4	132.23		B5
	7.3	306	1.6	191.06		B5
	6.3	356	1.4	221.88		B5

0.37

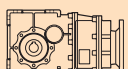
71B4 (1400 min ⁻¹)	213	16	9.6	6.58	CMB633	B5/B14
	175	19	7.9	7.99		B5/B14
	143	23	6.4	9.81		B5/B14
	134	25	6.1	10.44		B5/B14
	112	30	5.0	12.53		B5/B14
	105	32	4.8	13.31		B5/B14
	88.6	38	4.5	15.81		B5/B14
	78.8	42	5.2	17.77		B5/B14
	64.9	51	4.3	21.56		B5/B14
	52.9	63	3.5	26.48		B5/B14
	49.7	67	3.3	28.17		B5/B14
	41.4	80	2.7	33.81		B5/B14
	39.0	85	2.6	35.92		B5/B14
	36.0	92	2.7	38.88		B5/B14
	29.7	112	2.2	47.16		B5/B14
	24.2	137	1.8	57.93		B5/B14
	22.7	146	1.7	61.63		B5/B14
	18.9	175	1.4	73.96		B5/B14
	17.8	186	1.3	78.58		B5/B14
	15.0	221	1.1	93.33		B5/B14
	29.6	112	4.5	47.25	CMB903	B5
	24.3	136	3.7	57.52		B5
	21.2	157	3.2	66.17		B5
	16.8	197	2.5	83.20		B5
	10.6	314	1.6	132.23		B5
	7.3	453	1.1	191.06		B5
	6.3	526	0.9	221.88		B5





Dati tecnici

Technical data

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

1.5

90L4 (1400 min ⁻¹)	213	63	2.4	6.58	CMB633	B5/B14
	175	77	2.0	7.99		B5/B14
	143	94	1.6	9.81		B5/B14
	105	128	1.2	13.31		B5/B14
	88.6	152	1.1	15.81		B5/B14
	78.8	171	1.3	17.77		B5/B14
	64.9	207	1.1	21.56		B5/B14
	52.9	255	0.9	26.48		B5/B14
	211	64	4.4	6.65	CMB903	B5/B14
	175	77	3.6	8.00		B5/B14
	144	94	3.0	9.74		B5/B14
	125	108	2.6	11.21		B5/B14
	99.3	136	2.2	14.09		B5/B14
	78.0	173	2.6	17.95		B5/B14
	64.8	208	2.2	21.60		B5/B14
	53.2	253	1.8	26.30		B5/B14
	46.3	291	1.5	30.25		B5/B14
	35.7	378	1.3	39.26		B5/B14
	29.6	454	1.1	47.25	CMB1103	B5/B14
	24.3	553	0.9	57.52		B5/B14
	198	68	8.1	7.08	CMB1103	B5/B14
	156	86	6.4	8.99		B5/B14
	128	105	5.2	10.90		B5/B14
	112	120	4.6	12.52		B5/B14
	89.2	151	4.1	15.69		B5/B14
	76.7	176	4.6	18.25		B5/B14
	60.4	223	3.6	23.18		B5/B14
	49.8	270	3.0	28.11		B5/B14
	43.4	310	2.6	32.27		B5/B14
	37.7	357	2.5	37.09		B5/B14
	29.7	453	2.0	47.12	CMB1103	B5/B14
	24.5	550	1.6	57.14		B5/B14
	21.3	631	1.4	65.59		B5/B14
	17.0	791	1.1	82.21		B5/B14
	14.4	935	1.0	97.25		B5/B14

1.85

90LB4 (1400 min ⁻¹)	213	78	1.9	6.58	CMB633	B5/B14
	175	95	1.6	7.99		B5/B14
	143	116	1.3	9.81		B5/B14
	105	158	1.0	13.31		B5/B14
	88.6	188	0.9	15.81		B5/B14
	78.8	211	1.0	17.77		B5/B14
	211	79	3.5	6.65	CMB903	B5/B14
	175	95	2.9	8.00		B5/B14
	144	116	2.4	9.74		B5/B14
	125	133	2.1	11.21		B5/B14
	99.3	167	1.8	14.09		B5/B14
	78.0	213	2.1	17.95		B5/B14
	64.8	256	1.8	21.60		B5/B14
	53.2	312	1.4	26.30		B5/B14
	46.3	359	1.3	30.25		B5/B14
	35.7	466	1.1	39.26		B5/B14
	29.6	561	0.9	47.25		B5/B14

1.85

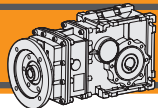
90LB4 (1400 min ⁻¹)	198	84	6.6	7.08	CMB1103	B5/B14
	156	107	5.2	8.99		B5/B14
	128	129	4.3	10.90		B5/B14
	112	148	3.7	12.52		B5/B14
	89.2	186	3.3	15.69		B5/B14
	76.7	216	3.7	18.25		B5/B14
	60.4	275	2.9	23.18		B5/B14
	49.8	334	2.4	28.11		B5/B14
	43.4	383	2.1	32.27		B5/B14
	37.7	440	2.0	37.09		B5/B14
	29.7	559	1.6	47.12	CMB1103	B5/B14
	24.5	678	1.3	57.14		B5/B14
	21.3	778	1.2	65.59		B5/B14
	17.0	975	0.9	82.21		B5/B14

2.2

100LA4 (1400 min ⁻¹)	211	94	3.0	6.65	CMB903	B5/B14
	175	113	2.5	8.00		B5/B14
	144	137	2.0	9.74		B5/B14
	125	158	1.8	11.21		B5/B14
	99.3	199	1.5	14.09		B5/B14
	78.0	253	1.8	17.95		B5/B14
	64.8	305	1.5	21.60		B5/B14
	53.2	371	1.2	26.30		B5/B14
	46.3	427	1.1	30.25		B5/B14
	35.7	554	0.9	39.26		B5/B14
	198	100	5.5	7.08	CMB1103	B5/B14
	156	127	4.3	8.99		B5/B14
	128	154	3.6	10.90		B5/B14
	112	177	3.1	12.52		B5/B14
	89.2	221	2.8	15.69		B5/B14
	76.7	257	3.1	18.25		B5/B14
	60.4	327	2.5	23.18		B5/B14
	49.8	397	2.0	28.11		B5/B14
	43.4	455	1.8	32.27		B5/B14
	37.7	523	1.7	37.09		B5/B14
	29.7	665	1.4	47.12		B5/B14
	24.5	806	1.1	57.14		B5/B14
	21.3	925	1.0	65.59		B5/B14

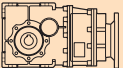
3.0

100LB4 (1400 min ⁻¹)	211	128	2.2	6.65	CMB903	B5/B14
	175	154	1.8	8.00		B5/B14
	144	187	1.5	9.74		B5/B14
	125	216	1.3	11.21		B5/B14
	99.3	271	1.1	14.09		B5/B14
	78.0	345	1.3	17.95		B5/B14
	64.8	416	1.1	21.60		B5/B14
	53.2	506	0.9	26.30	CMB1103	B5/B14



Dati tecnici

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
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3.0

100LB4 (1400 min ⁻¹)	198	136	4.0	7.08	CMB1103	B5/B14
	156	173	3.2	8.99		B5/B14
	128	210	2.6	10.90		B5/B14
	112	241	2.3	12.52		B5/B14
	89.2	302	2.1	15.69		B5/B14
	76.7	351	2.3	18.25		B5/B14
	60.4	446	1.8	23.18		B5/B14
	49.8	541	1.5	28.11		B5/B14
	43.4	621	1.3	32.27		B5/B14
	37.7	713	1.3	37.09		B5/B14
	29.7	906	1.0	47.12		B5/B14

4.0

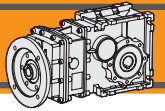
112M4 (1400 min ⁻¹)	211	171	1.6	6.65	CMB903	B5/B14
	175	205	1.4	8.00		B5/B14
	144	250	1.1	9.74		B5/B14
	125	287	1.0	11.21		B5/B14
	99.3	361	0.8	14.09		B5/B14
	78.0	460	1.0	17.95		B5/B14
	198	182	3.0	7.08	CMB1103	B5/B14
	156	231	2.4	8.99		B5/B14
	128	280	2.0	10.90		B5/B14
	112	321	1.7	12.52		B5/B14
	89.2	402	1.5	15.69		B5/B14
	76.7	468	1.7	18.25		B5/B14
	60.4	595	1.4	23.18		B5/B14
	49.8	721	1.1	28.11		B5/B14
	43.4	828	1.0	32.27		B5/B14
	37.7	951	0.9	37.09		B5/B14

5.5

132S4 (1400 min ⁻¹)	198	250	2.2	7.08	CMB1103	B5
	156	317	1.7	8.99		B5
	128	385	1.4	10.90		B5
	112	441	1.2	12.52		B5
	89.2	553	1.1	15.69		B5
	76.7	644	1.3	18.25		B5
	60.4	818	1.0	23.18		B5

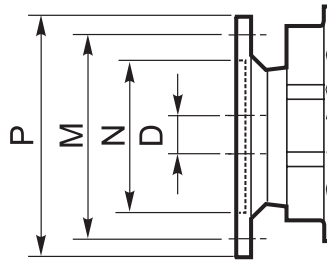
7.5

132MA4 (1400 min ⁻¹)	198	340	1.6	7.08	CMB1103	B5
	156	432	1.3	8.99		B5
	128	524	1.0	10.90		B5
	112	602	0.9	12.52		B5
	89.2	754	0.8	15.69		B5
	76.7	878	0.9	18.25		B5



Motori applicabili

IEC Motor adapters

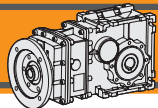


CMB

	IEC	N	M	P	D	i (rapporto / ratio)																					
						6.58	7.99	9.81	10.44	12.53	13.31	15.81	17.77	21.56	26.48	28.17	33.81	35.92	38.88	47.16	57.93	61.63	73.96	78.58	93.33	140.52	181.81
CMB633	90 B5	130	165	200	24																						
	90 B14	95	115	140																							
	80 B5	130	165	200	19																						
	80 B14	80	100	120																							
	71 B5	110	130	160	14	B																					
	71 B14	70	85	105																							
	63 B5	95	115	140	11	BS																					
						6.65	8.00	9.74	11.21	14.09	17.95	21.60	26.30	30.25	39.26	47.25	57.52	66.17	83.20	132.23	191.06	221.88					
CMB903	100/112B5	180	215	250	28																						
	100/112B14	110	130	160																							
	90 B5	130	165	200	24																						
	90 B14	95	115	140																							
	80 B5	130	165	200	19	B																					
	80 B14	80	100	120																							
	71 B5	110	130	160	14	BS																					
						7.08	8.99	10.90	12.52	15.69	18.25	23.18	28.11	32.27	37.09	47.12	57.14	65.59	82.21	97.25	130.07	187.50					
CMB1103	132/B5	230	265	300	38																						
	100/112B5	180	215	250	28																						
	100/112B14	110	130	160																							
	90 B5	130	165	200	24	B																					
	90 B14	95	115	140																							
	80 B5	130	165	200	19	BS																					

N.B.
Le aree evidenziate in indicano l'applicabilità della corrispondente grandezza motore.
B/BS = Boccia di riduzione in acciaio

N.B.
Highlighted areas indicate motor inputs available on each size of unit.
B/BS = Metal shaft sleeve



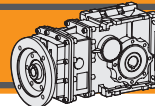
Dimensioni

Dimensions

CMB CMBIS	A	C	E	G	H	K	KE	a ₂	L	M	N f7	N1	O	P	Q	R	S	U	V	Peso Weight [kg]
633	100	144	174	241	72	85	M8x15	45°	106	95	80	104	8.5	110	80	102	8	233	50	9.5
903	140	206	238	287	103	100	M10x20	45°	134	130	110	130	13	160	102	135	11	279.5	70	18.4
1103	170	255	295	277.5	127.5	115	M10x19	45°	148	165	130	145	14	200	125	167.5	14	256.5	85	

CMB CMBIS	Albero entrata Input shaft					Albero uscita cavo Hollow output shaft				
	D ₁ j6	E ₁	F ₁	G ₁	T ₁	D ₂ H8	F ₂	G ₂	b	t
633	16	40	5	M6	18	25	35	112	8	28.3
903	19	40	6	M6	21.5	35	45	140	10	38.3
1103	28	60	8	M10	31	42	50	155	12	45.3

Flange uscita / Output flanges																				
CMB CMBIS	F								FL								FB			
	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	a ₁	KA
633	45°	82	10	6	150 - 160	115	11	180	142	45°	112	10	8	150 - 160	115	11	180	142	45°	98
903	45°	111	13	6	175 - 188	152	14	210	200	—	—	—	—	—	—	—	—	—	—	—
1103	45°	131	15	6	230	170	14	280	260	—	—	—	—	—	—	—	—	—	—	—

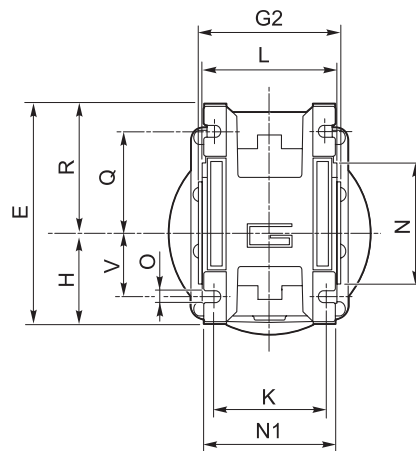
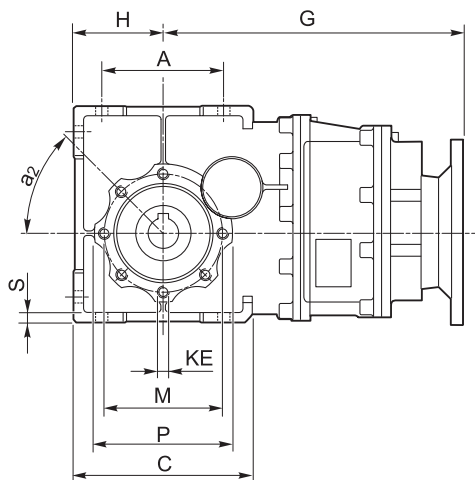


Dimensioni

Dimensions

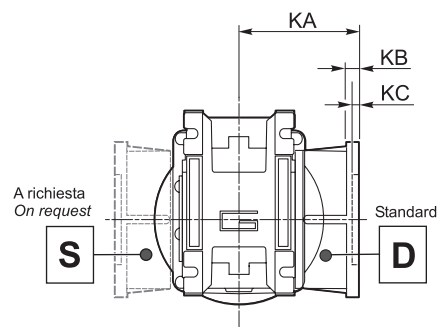
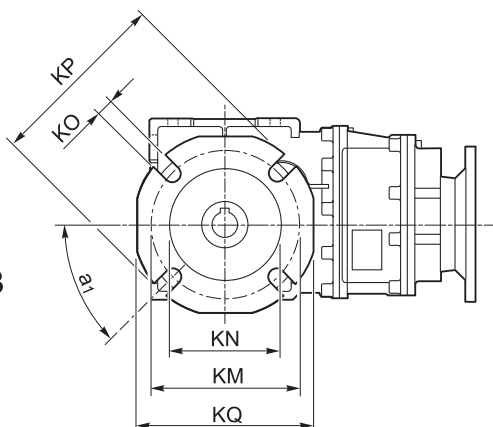
CMB.. - CMBIS..

CMB..U

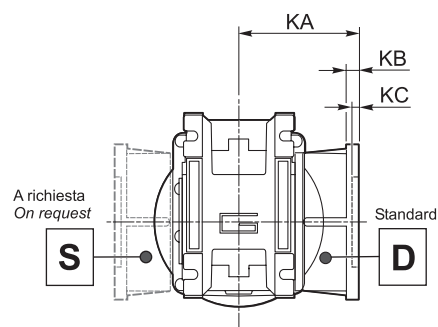
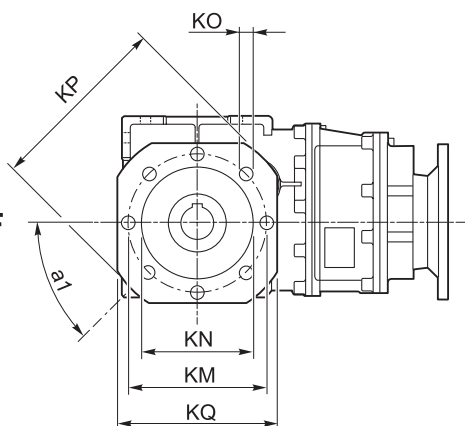


CMB

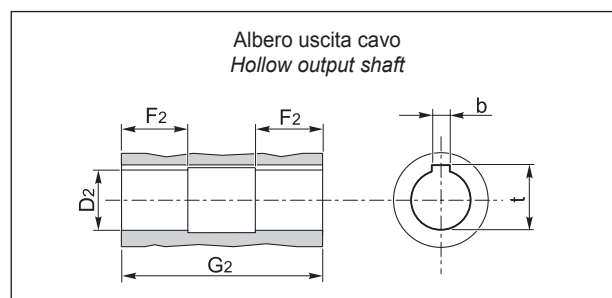
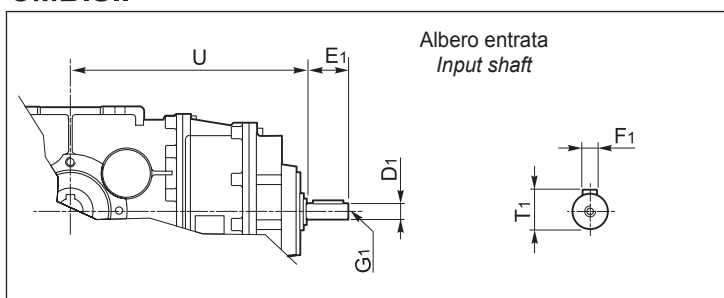
**CMB..F
CMB..FL
CMB..FB**

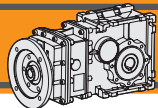


CMB1103F



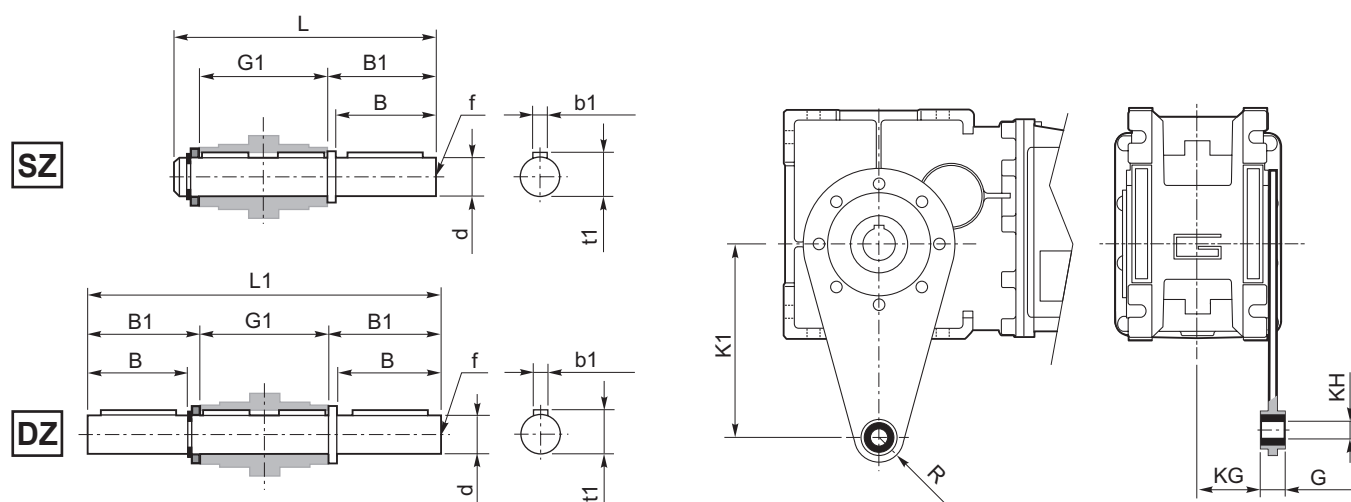
CMBIS..





Accessori

Accessories



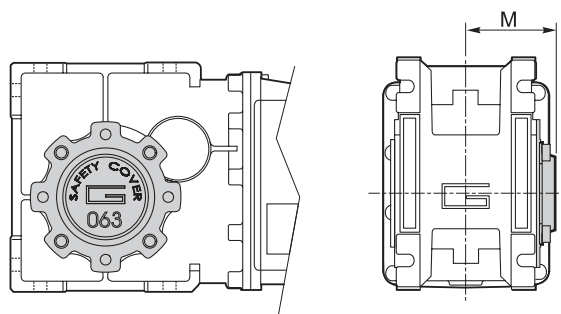
Albero lento / Output shaft

CMB CMBIS	d h7	B	B1	G1	L	L1	f	b1	t1
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38
1103	42	80	84.5	155	249	324	M16	12	45

Braccio di reazione / Torque arm

CMB CMBIS	K1	G	KG	KH	R
633	150	14	47.5	10	18
903	200	25	56.5	20	30
1103	250	30	62	25	35

SC - Safety cover



CMB CMBIS	M
633	73
903	94
1103	102