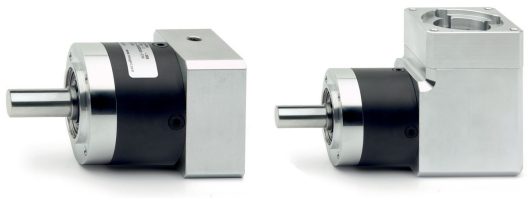
PLANETARY GEARBOXES
SERIES GB

Available sizes: 40, 60, 80, 120



- Reduced play
- Prepared to be connected with Series MTB and Series MTS motors
- High performance
- 4 Reduction ratios available (i = 3, 5, 7, 10)
- Silent operation
- Any mounting position
- Lifetime lubrication
- Available in in-line and orthogonal configurations

The Series GB planetary gearboxes, by means of a planetary gear system, enable the reduction of the angular speed and the increase of transmittable torque. These gearboxes can be used with the Series 5E and 5V electromechanical axes and with the Series 6E electromechanical cylinders.

Available in 4 sizes with 4 different reduction ratios, the Series GB planetary gearboxes can be supplied in two different configurations, in-line or orthogonal.
All gearboxes are equipped with interface flanges for the connection to the Camozzi Series MTB and Series MTS motors.

CODING EXAMPLE

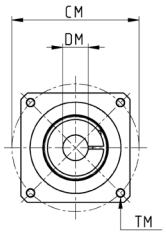
GB	-	040	-	03	-	D	-	0100

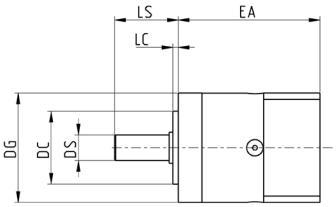
GB	**SERIES**
040	**SIZE** 040 = Ø40 060 = Ø60 080 = Ø80 120 = Ø120
03	**REDUCTION RATIO** 03 i = 3 05 i = 5 07 i = 7 10 i = 10
D	**TYPE** D = straight A = angular
0100	**PREPARATION OF THE MOTOR** 0100 = Brushless 100W (size 040 only) 0400 = Brushless 400W (size 060 only) 0750 = Brushless 750W (size 080 only) 1000 = Brushless 1000W (size 120 only) 0024 = Nema 24

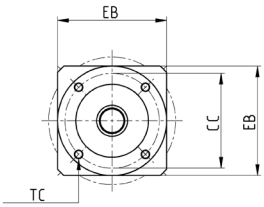
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In-line planetary gearbox









Mod.	BACKLASH	⌀DS^{h7}	LS	⌀DC^{h7}	LC	⌀CC	TC	EA	EB	⌀DG	⌀DM	⌀CM	TM	Weight (kg)
GB-040-...-D-0100	<15′	10	26	26	2	34	M4x6	67,5	40	40	8	45	M3x8	0,35
GB-040-...-D-0024	<15′	10	26	26	2	34	M4x6	67,5	60	40	8	66,7	M4x10	0,35
GB-060-...-D-0400	<10′	14	35	40	3	52	M5x8	78	60	60	14	70	M5x12	0,9
GB-060-...-D-0024	<10′	14	35	40	3	52	M5x8	71	60	60	8	66,7	M4x10	0,9
GB-080-...-D-0750	<7′	20	40	60	3	70	M6x10	103,5	80	80	19	90	M6x15	2,1
GB-080-...-D-0024	<7′	20	40	60	3	70	M6x10	93,5	80	80	8	66,7	M4x10	2,1
GB-120-...-D-1000	<7′	25	55	80	4	100	M10x16	136,5	130	130	22/24*	145	M8x18	6

* The gearbox is supplied with a bush to adapt the ØDM to motors with a shaft of Ø22

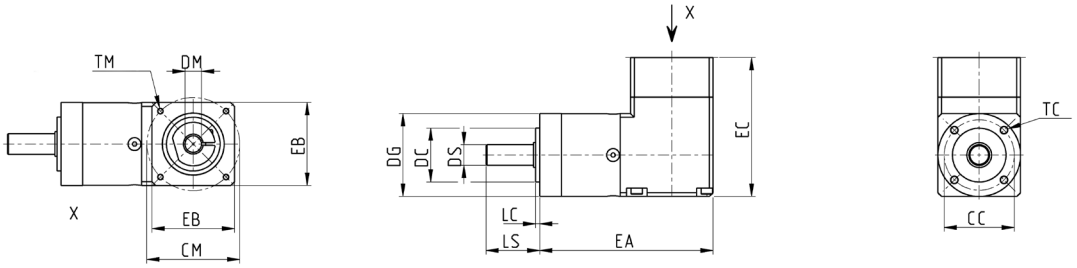
Mod.	Nominal output torque (Nm) [A]	Max. output torque (Nm)[A][B]	Emergency output torque (Nm)[C]	Max. input speed (RPM)	J (Kgcm^2)
GB-040-03-D-0100	11	17,5	22,5	18000	0,027
GB-040-05-D-0100	14	22	36	18000	0,019
GB-040-07-D-0100	8,5	13,5	26	18000	0,015
GB-040-10-D-0100	5	8	27	18000	0,014
GB-040-03-D-0024	11	17,5	22,5	18000	0,027
GB-040-05-D-0024	14	22	36	18000	0,019
GB-040-07-D-0024	8,5	13,5	26	18000	0,015
GB-040-10-D-0024	5	8	27	18000	0,014
GB-060-03-D-0400	28	45	66	13000	0,128
GB-060-05-D-0400	40	64	80	13000	0,08
GB-060-07-D-0400	25	40	80	13000	0,069
GB-060-10-D-0400	15	24	80	13000	0,065
GB-060-03-D-0024	28	45	66	13000	0,128
GB-060-05-D-0024	40	64	80	13000	0,08
GB-060-07-D-0024	25	40	80	13000	0,069
GB-060-10-D-0024	15	24	80	13000	0,065
GB-080-03-D-0750	85	136	180	7000	0,654
GB-080-05-D-0750	110	176	220	7000	1,633
GB-080-07-D-0750	65	104	175	7000	0,423
GB-080-10-D-0750	38	61	200	7000	0,359
GB-080-03-D-0024	85	136	180	7000	0,654
GB-080-05-D-0024	110	176	220	7000	0,423
GB-080-07-D-0024	65	104	178	7000	0,379
GB-080-10-D-0024	38	61	200	7000	0,359
GB-120-03-D-1000	115	184	390	6500	2,361
GB-120-05-D-1000	195	312	500	6500	1,633
GB-120-07-D-1000	135	216	340	6500	1,463
GB-120-10-D-1000	95	152	480	6500	1,378

[A] Values refer to intermittent load, without rotation inversion, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com
[B] Referred to 30,000 revolutions of the output shaft, under ideal mounting and operating conditions; see paragraph "How to calculate the life of the gearbox according to applied torque". For further details, please contact service@camozzi.com
[C] Allowed for maximum 1000 times, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

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Orthogonal planetary gearbox





Mod.	BACKLASH	øDS^{h7}	LS	øDC^{h7}	LC	øCC	TC	EA	EB	EC	øDG	øDM	øCM	TM	Weight (kg)
GB-040-...-A-0100	<21′	10	26	26	2	34	M4x6	84	40	67	40	8	45	M3x7	0,51
GB-040-...-A-0024	<21′	10	26	26	2	34	M4x6	84	60	63	40	8	66,7	M4x7	0,51
GB-060-...-A-0400	<16′	14	35	40	3	52	M5x8	112	60	92,5	60	14	70	M5x12	1,7
GB-060-...-A-0024	<16′	14	35	40	3	52	M5x8	71	60	85,5	60	8	66,7	M4x10	1,7
GB-080-...-A-0750	<13′	20	40	60	3	70	M6x10	144	80	119,5	80	19	90	M6x15	4,4
GB-080-...-A-0024	<13′	20	40	60	3	70	M6x10	144	80	109,5	80	8	66,7	M4x10	4,4
GB-120-...-A-1000	<11′	25	55	80	4	100	M10x16	194,5	130	160,5	130	22/24*	145	M8x18	12

* The gearbox is supplied with a bush to adapt the ØDM to motors with a shaft of Ø22

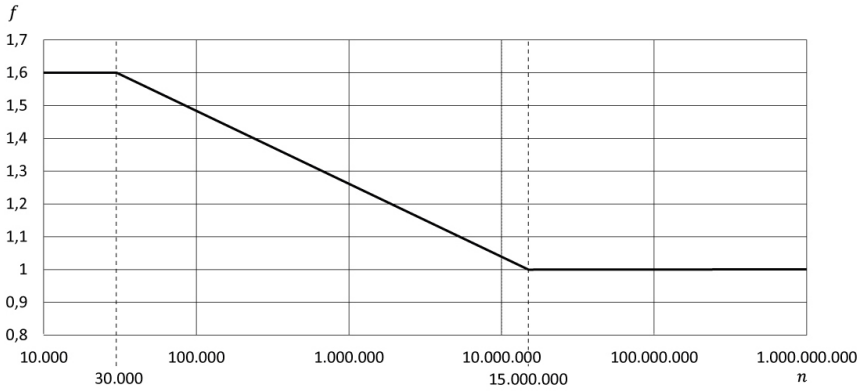
Mod.	Nominal output torque (Nm) [A]	Max. output torque (Nm)[A][B]	Emergency output torque (Nm)[C]	Max. input speed (RPM)	J (Kgcm²)
GB-040-03-A-0100	4,5	7	22,5	18000	0,049
GB-040-05-A-0100	7,5	12	35	18000	0,035
GB-040-07-A-0100	8,5	13,5	26	18000	0,033
GB-040-10-A-0100	5	8	25	18000	0,032
GB-040-03-A-0024	4,5	7	22,5	18000	0,049
GB-040-05-A-0024	7,5	12	35	18000	0,035
GB-040-07-A-0024	8,5	13,5	26	18000	0,033
GB-040-10-A-0024	5	8	25	18000	0,032
GB-060-03-A-0400	14	22	66	13000	0,357
GB-060-05-A-0400	24	38	80	13000	0,236
GB-060-07-A-0400	25	40	80	13000	0,225
GB-060-10-A-0400	15	24	70	13000	0,221
GB-060-03-A-0024	14	22	66	13000	0,357
GB-060-05-A-0024	24	38	80	13000	0,236
GB-060-07-A-0024	25	40	80	13000	0,225
GB-060-10-A-0024	15	24	70	13000	0,221
GB-080-03-A-0750	40	64	180	7000	1,273
GB-080-05-A-0750	67	107	220	7000	0,973
GB-080-07-A-0750	65	104	178	7000	0,929
GB-080-10-A-0750	38	61	170	7000	0,91
GB-080-03-A-0024	40	64	180	7000	1,273
GB-080-05-A-0024	67	107	220	7000	0,973
GB-080-07-A-0024	65	104	178	7000	0,929
GB-080-10-A-0024	38	61	170	7000	0,91
GB-120-03-A-1000	80	128	360	6500	2,846
GB-120-05-A-1000	130	208	500	6500	2,074
GB-120-07-A-1000	120	216	340	6500	1,905
GB-120-10-A-1000	95	152	430	6500	1,82

[A] Values refer to intermittent load, without rotation inversion, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com
[B] Referred to 30,000 revolutions of the output shaft, under ideal mounting and operating conditions; see paragraph "How to calculate the life of the gearbox according to applied torque". For further details, please contact service@camozzi.com
[C] Allowed for maximum 1000 times, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

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How to calculate the life of the gearbox according to applied torque

Ca = Effective torque application [Nm]
Cn = Nominal output torque [Nm]
f = increasing factor
n = number of revolutions output shaft



$$f = \frac{Ca}{Cn}$$

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