

Gear Series **GB2**

Spur Reduction Gearhead - 0.3 Nm



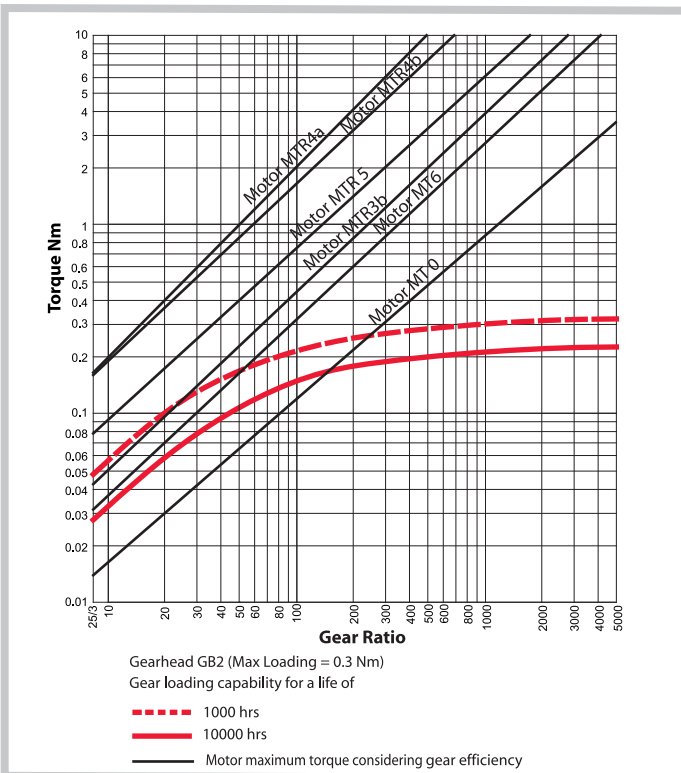
Design

In GB2 gearhead, spur gears rotate on hardness steel spindles which are polished to a mirror finish. In order to damp running noise at slow running times and low motor loads, the initial spur gears after the rotor shaft are made of injection moulded poly acetal. The spur gears close to the output shaft on the other hand, are made of metal. The output shaft is mounted in two special brass bushes. The entire gear train is put between metal plates with a plastic frame. It is permanently lubricated and therefore requires no maintenance. Thicker shaft (Ø6-7mm) mounted in robust bushing (Ø12) are available in new variant (GB2S). Single- way or two way slipping clutches can also be installed to enable the output shaft to be rotated while the motor is stationary. GB2 can also be combined with small DC Motors. To achieve higher gear torque, GB2 can be mounted on GB4.

Technical Data

Gear Type		Spur
Gear Torque	Nm	0.3
Combination with Mechtex motors		Motor MT0, MT6, MTR/S3a/3b, MTR/S-5 and small DC motors
Mounting		any position
Weight	g	60
Axial thrust	N	20
Lateral force	N	50
Radial torque	Nm	0.5
Slipping clutches/free wheel		single left/right
Slipping clutches/friction 2 way	Nm	0.05
Output bearing		Sintered bronze sleeve bushings
Output shafts	Ø	3.175, 4.00, 4.76, 5.00, 6.00 & 7.00 (others on request)
Ambient temperature operation	°C	-15...+ 55
Enclosure	IP	40

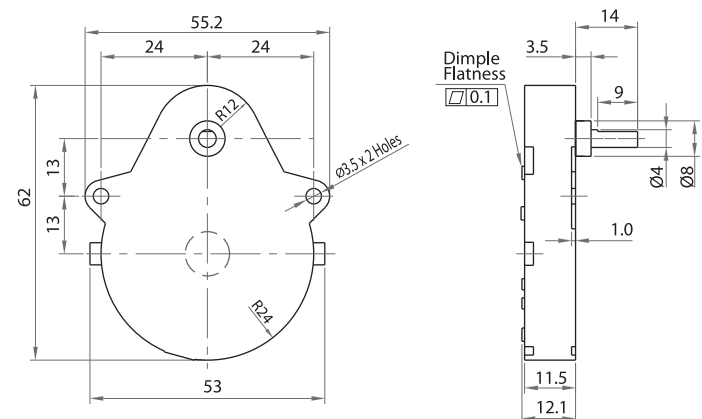
Torque/Transmission Ratio/Life graph



Transmission Ratio

For Transmission Ratios refer to page no.6

Dimensional Drawing



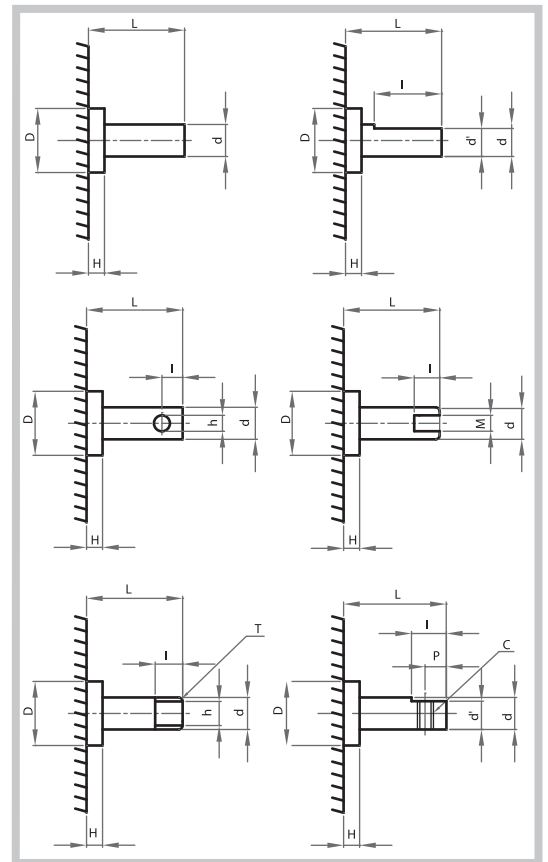
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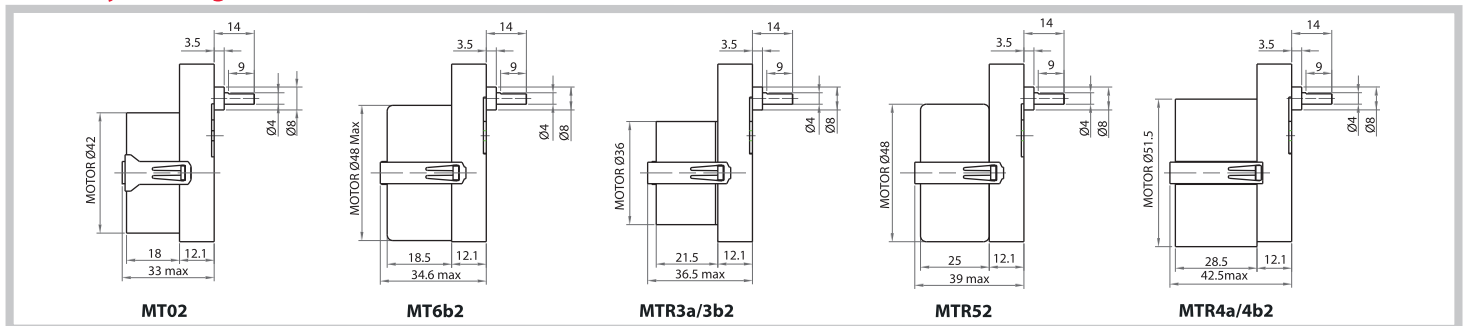
Shaft type catalogue

Shaft type	(+0.00/-0.10)			Shaft Diam.			P	M	T	h	C
	D	H	L	d	l	d'					
OS	8	3.5	14	3.175	9	2.8					
OA	8	3.5	11	3.175	6	2.8					
OB	8	3.5	18	3.175	13	2.8					
OC	8	3.5	23	3.175	18	2.8					
OD	8	3.5	14	4	9	3.6					
OE	8	3.5	18	4	13	3.6					
OF	8	3.5	23	4							
OG	8	3.5	14	4.764	9	4.2					
OH	8	3.5	18	4.764	13	4.2					
OI	8	3.5	22	4.764	11	4.2					
OJ	8	3.5	24	4.764	19	4.2					
OK	8	3.5	27.5	4.764	20	4.2					
OL	8	3.5	10	4.764	6	4.2					
OM	8	3.5	14	4.764	11.5				1/8"		
ON	8	3.5	14	6.35	7		3				
OO	8	3.5	23	4	10					2	
OP	8	3.5	12	4							
OQ	8	3.5	22.5	5	5.5					2	
OR	12	3.5	17	6	10	5.4					
OT	12	3.5	23	6	16	5.4					
OU	12	3.5	28	6	18	5.4					
OV	12	3.5	54	6							
OW	12	3.5	24	7	17	6	9				M4
OX	12	3.5	17	7	10	6.3					
OY	12	3.5	23	7	15	5					
OZ	12	3.5	23	7							
PA	12	3.5	28	7	18	6.3					
PB	12	3.5	54	7							
PC	12	3.5	41.5	6	34	5.4					

Shaft Drawing



Assembly Drawings



Photographs

