

Gear Series **GB5P**

Spur Reduction Gearhead - 0.5.....1Nm



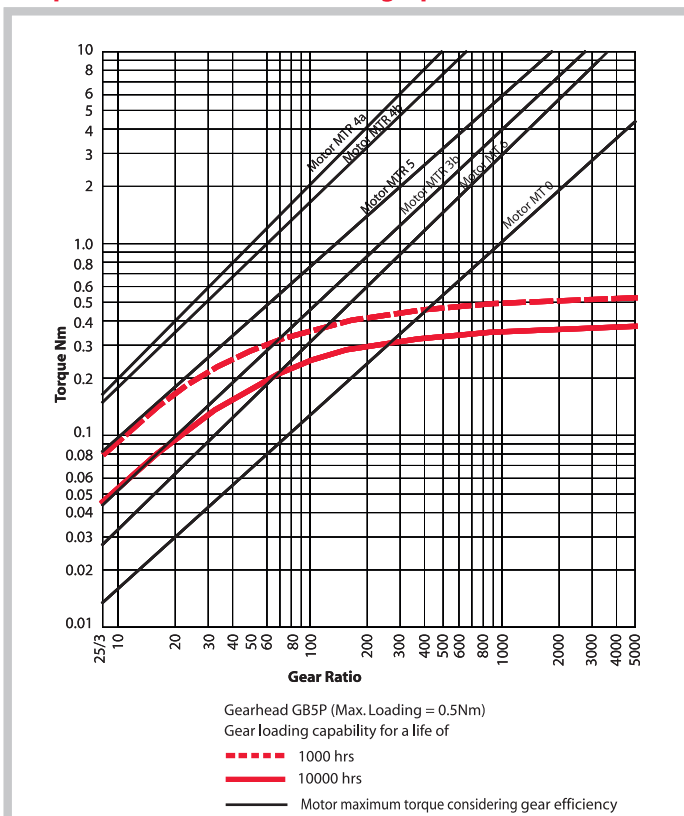
Design

Gearhead GB5P, the most popular gearhead, is a multi step gear box with all polyacetal gears which rotate on steel spindles which are polished to a mirror-finish and introduced between metal plates with a plastic frame. All bearings are permanently lubricated and therefore require no maintenance. Motor is attached to the gear box by means of snap clip. Thicker shafts (Ø6-7mm) mounted in robust bushings (Ø12mm) are available (GB5PS). Similarly the gears at the output end can be metal with thick shafts & robust bushings. Sintered gears variant also possible GB5P can also be combined with small DC Motors. To achieve higher gear torque, GB5P can be mounted on GB4, GBW & GBX. In same mounting we can also offer casted gearhead with & without ball bearing.

Technical Data

Gear Type		Spur (1st pair helical for certain ratios only)
Gear Torque	Nm	0.5.....1
Combination with Mechtex motors		Motor MT0, MT6, MTR/S3a/3b, MTR/S4a/4b and small DC motors
Mounting		any position
Weight	g	60
Axial thrust	N	20
Lateral force	N	60
Radial torque	Nm	0.6
Slipping clutches/free wheel		available for certain ratios
Output bearing		Sintered bronze sleeve bushings, (Ball bearing on request)
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

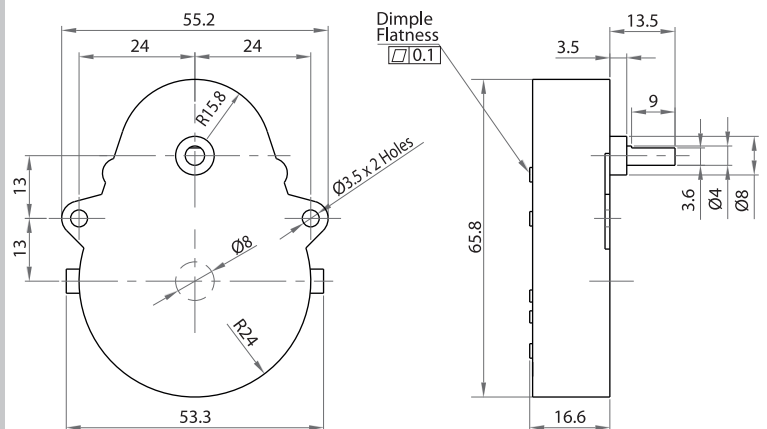
Torque/Transmission Ratio/Life graph



Transmission Ratios

For Transmission Ratios refer to page no. 6

Dimensional Drawing



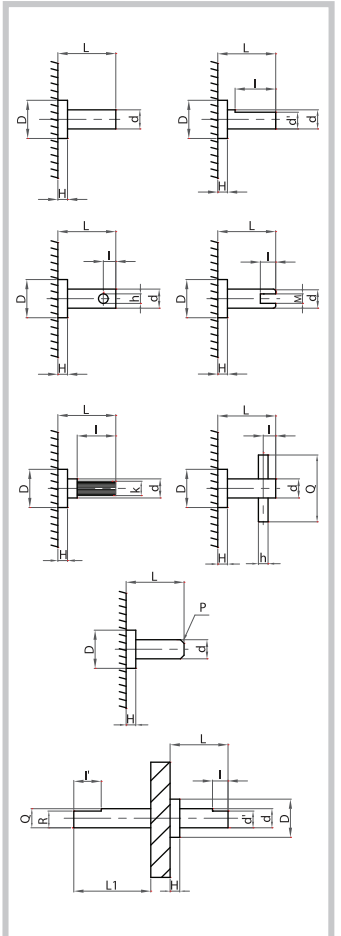
Gear Series **GB5P**

Spur Reduction Gearhead - 0.5.....1Nm

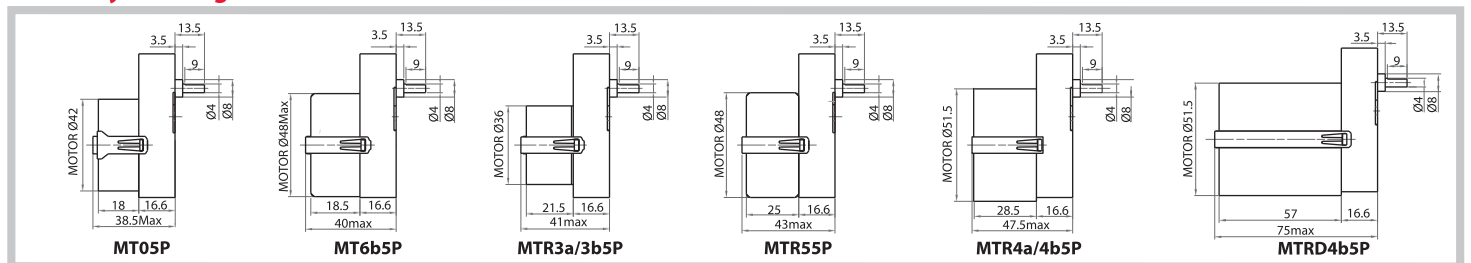
Shaft type Catalogue

Shaft type (+0.00/-0.10)	D	H	Shaft Diam.	d	L	I	d'	I'	L'	R	C	M	h	k	P	Q
OS	8	3.5	4	13.5	9	3.6										
OB	8	3.5	4	28.5	24.5	3.6										
OC	8	3.5	4	13.5	9	3										
OD	8	3.5	4	9	4.5	3.6										
OE	8	3.5	4	40	36	3.6										
OF	8	3.5	4	18.5	14	3										
OG	8	3.5	1/8"	13.5	9	2.8										
OH	8	3.5	1/8"	18.5	14	2.8										
OI	8	3.5	1/8"	23.5	17	2.8										
OJ	8	3.5	4	13.5	4								2			
OK	8	3.5	4	13.5	6.8								1.4			
OL	8	3.5	4	23.5	17	3.6										
OM	8	3.5	3/16"	12.5	8	4.2										
ON	8	3.5	3/16"	23.5	17	4.2										
OO	8	3.5	3/16"	28.5	22	4.2										
OU	8	3.5	3/16"	18.5	12	4.2										
OV	8	3.5	4	12.5	9	3.6	20	36	3.6	M4						
OW	12	3.5	6	13.5	9.9	4.5										
OX	12	3.5	6	23	18	5.4										
OY	12	3.5	6	54												
OZ	12	3.5	7	16	10	6										
PA	12	3.5	8	16	10	6										
PB	12	3.5	6	23.5	10	5										
PB	12	3.5	6	15.5	10.5	5.4										
PD	12	3.5	6	39	30	5.4										
PE	12	3.5	8	23	16	7.2										
PF	12	3.5	6	13.5	5								2			
PG	12	3.5	6	83	20								2			
PH	12	3.5	7	21.7	4.5								3			
PI	12	3.5	6	14.5	3.5								3			
PM	12	3.5	7	19	10						3					
Q8	8	3.5	4	13	8									3.95		
L1	8	3.5	4	10.2											A/F4	
L2	8	3.5	4	13.5	6.8								1.5			7.8

Shaft Drawing



Assembly Drawings



Photographs

