

# Gear Series **GB5P**

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



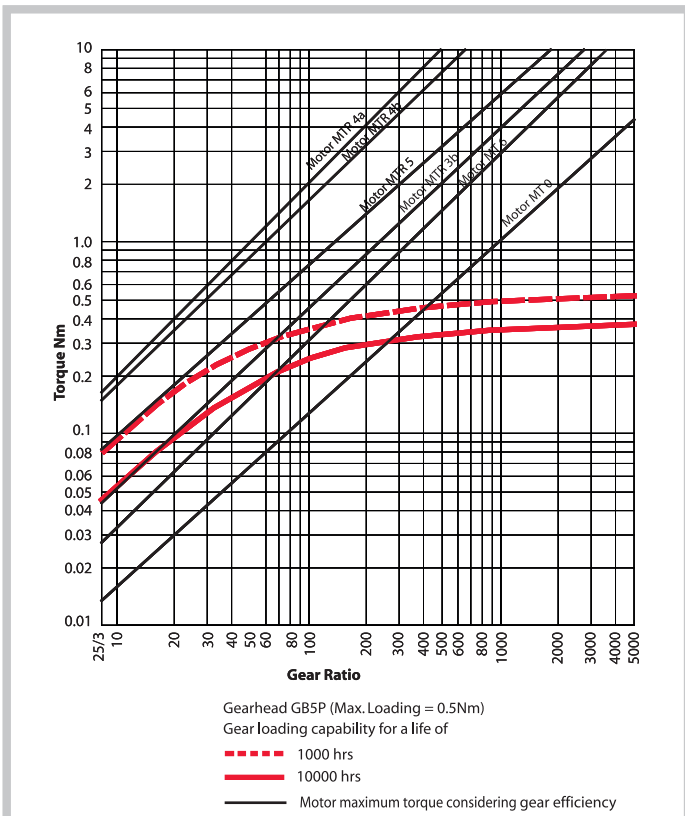
## Design

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

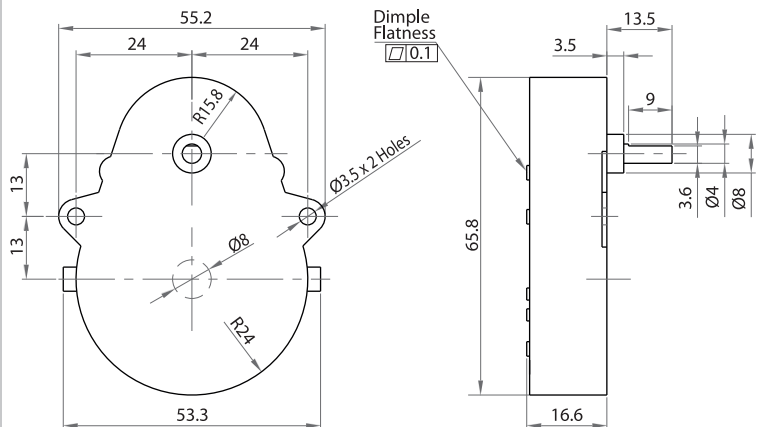
## Torque/Transmission Ratio/Life graph



## Transmission Ratios

For Transmission Ratios refer to page no. 6

## Dimensional Drawing



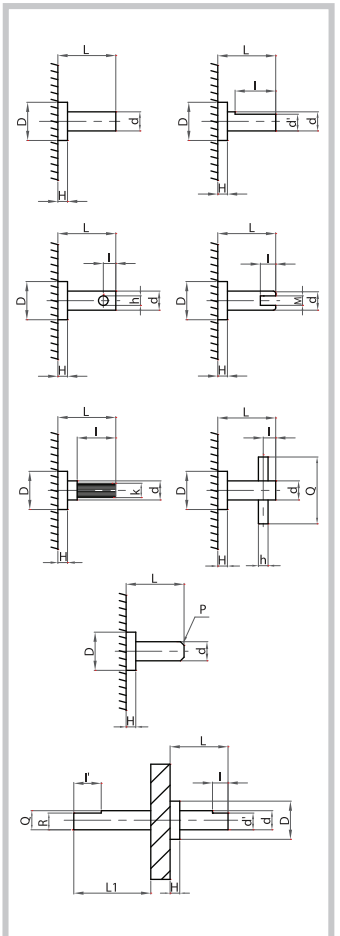
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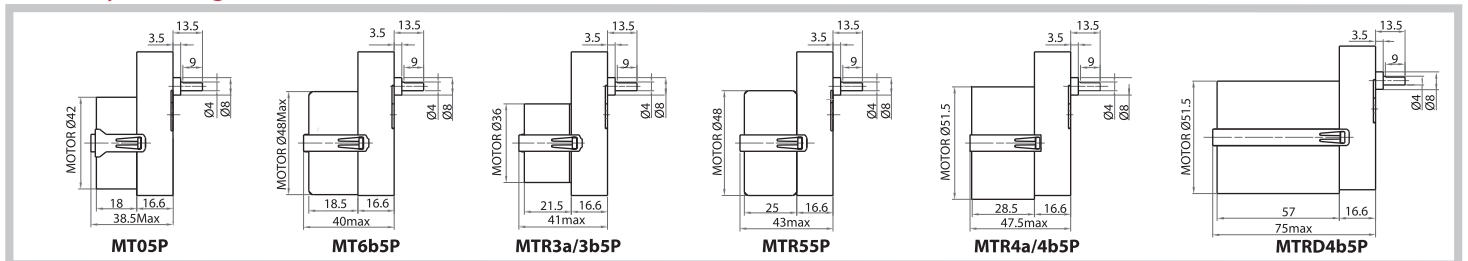
## Shaft type Catalogue

Shaft type (+0.00/-0.10)	Shaft Diam.														
	D	H	d	L	l	d'	l'	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

