

# Gear Series GB5P

Spur Reduction Gearhead - 0.5 Nm



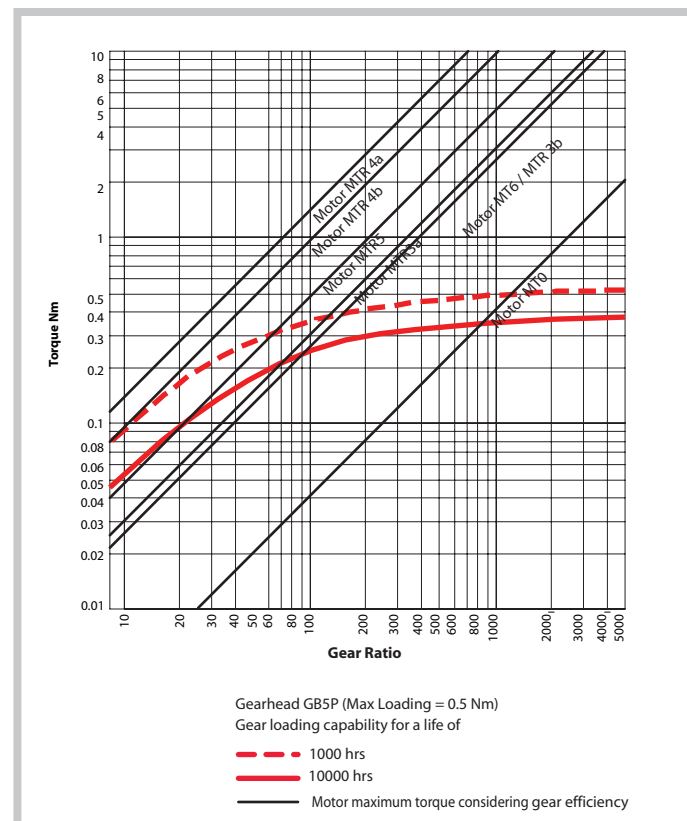
### Design

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 spring clip. Thicker shafts (Ø6-7mm) mounted in robust bushings (Ø12mm) are available (GB5PS). Similarly the gears at the output end can be metal (GB5PH) with thick shafts & robust bushings (GB5PHS). Sintered gears variant also possible (GB5Si) GB5P can also be combined with small DC Motors. To achieve higher gear torque, GB5P can be mounted on GB4, GBW & GBX

### Technical Data

Gear Type		Spur Reduction
Gear Torque	Nm	0.5
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	50
Radial torque	Nm	0.6
Slipping clutches/free wheel		available for certain ratios
Output bearing		Brass sleeve bushings, Sintered bronze (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

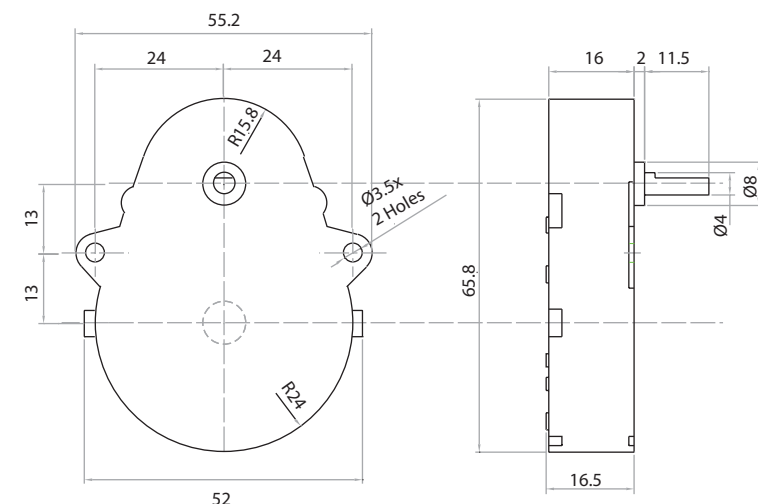
### Torque/Transmission Ratio/Life graph



### Transmission Ratios

For Transmission Ratios refer to page nos. 6 & 7.

### Dimensional Drawing



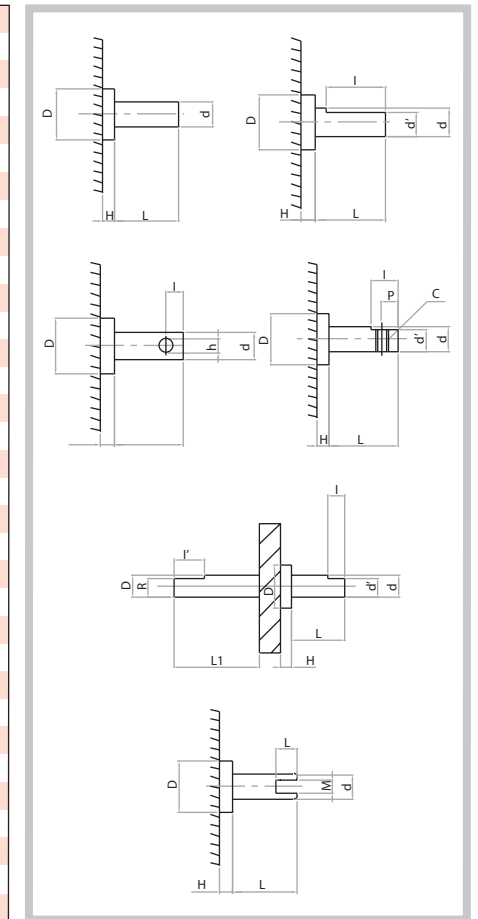
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### Shaft type catalogue

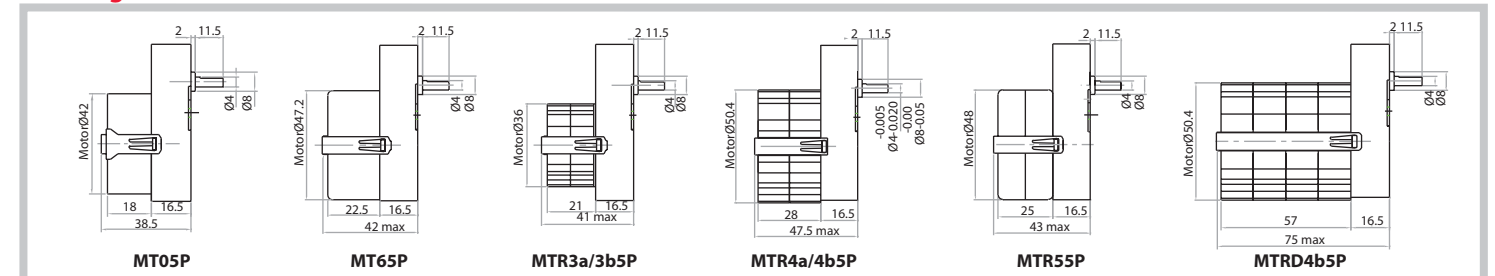
Shaft type	Shaft Diam.											
	D	H(+)	d	L	l	d'	l'	L'	R	Q	M	h
S	8	2	4	11.5	9	3.6						
B	8	2	4	26.5	24.5	3.6						
C	8	2	4	11.5	9	3						
D	8	2	4	7	4.5	3.6						
E	8	2	4	38	36	3.6						
F	8	2	4	16.5	14	3						
G	8	2	1/8"	11.5	9	2.8						
H	8	2	1/8"	16.5	14	2.8						
I	8	2	1/8"	21.5	17	2.8						
J	8	2	4	11.5	4							2
K	8	2	4	11.5	6.8							1.4
L	8	2	4	21.5	17	3.6						
M	8	2	3/16"	11.5	9	4.2						
N	8	2	3/16"	21.5	17	4.2						
O	8	2	3/16"	26.5	22	4.2						
U	8	2	3/16"	16.5	12	4.2						
V	8	2	4	10.5	9	3.6	20	35.5	3.6	4		
W	12	3	6	11.5	10	4.5						
X	12	3	6	21	18	5.4						
Y	12	3	6	52								
Z	12	3	7	13	10	6						
a	12	3	8	13	10	6						
b	12	3	6	20.5	10	5						
c	12	3	6	13.5	10.5	5.4						
d	12	3	6	36	30	5.4						
e	12	3	8	21	16	7.2						
f	12	3	6	11.5	5							2
g	12	3	6	80	20							2
h	12	3	7	18.7	4.5							3
i	12	3	6	11.5	3.5							3
m	12	3	7	16	10							3

### Shaft Drawing



Note: '+' 3.5 mm also possible

### Drawing



### Photographs

