



Gear Series **GB2**

Spur Reduction Gearhead - 3 Kg-cm



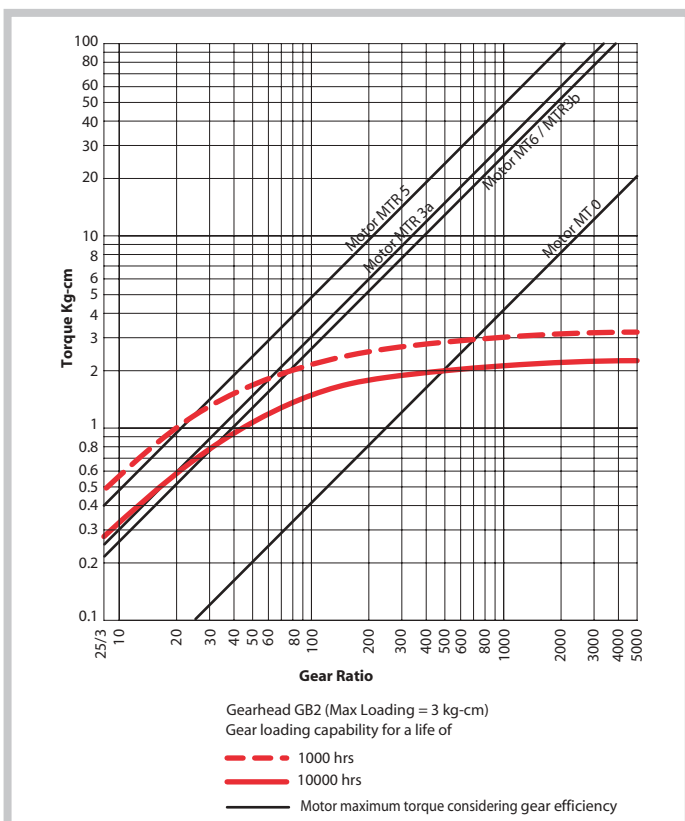
Design

In GB2 gearhead, spur gears rotate on hardened 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 (Ø 6-7mm) mounted in robust bushings (Ø 12) are available in a 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. Linear drives also possible with small sized motors (Ø<36mm).

Standard Data

Gear Torque	kg-cm	3
Combination with Mectex motors		Motor MT0, MT6, MTR/S3a/3b, MTR/S-5 and small DC motors
Mounting		any position
Weight	gm	60
Axial thrust	kg	2
Radial torque	kg	5
Lateral torque	kg-cm	5
Slipping clutches/free wheel		single left/right
Slipping clutches/friction	kg-cm	0.5...4.0
Output shafts	Ø	3.175, 4.00, 4.76, 5.00, 6.00, 6.35 & 7.00 (others on request)
Ambient temperature operation	°C	-15...+55

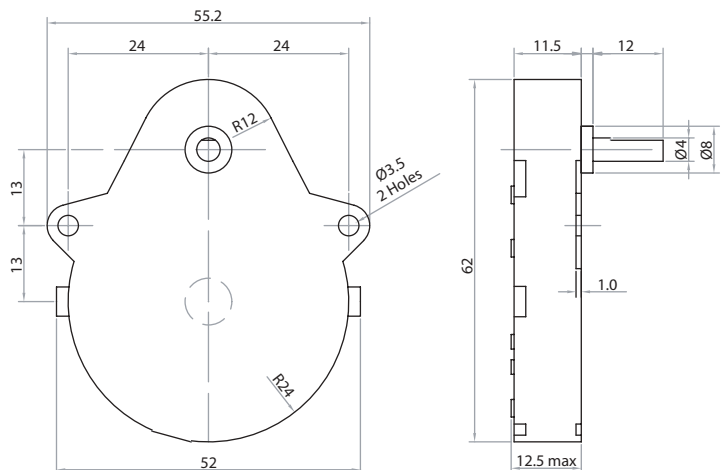
Torque/Transmission ratio/life Graph



Transmission ratios

For Transmission Ratios refer to page nos. 12 & 13.

Dimensional Drawing

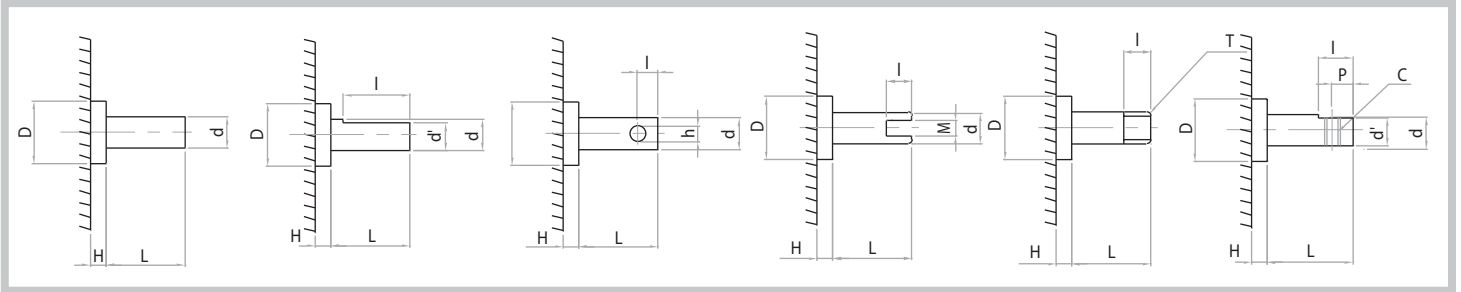




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Shaft Drawings



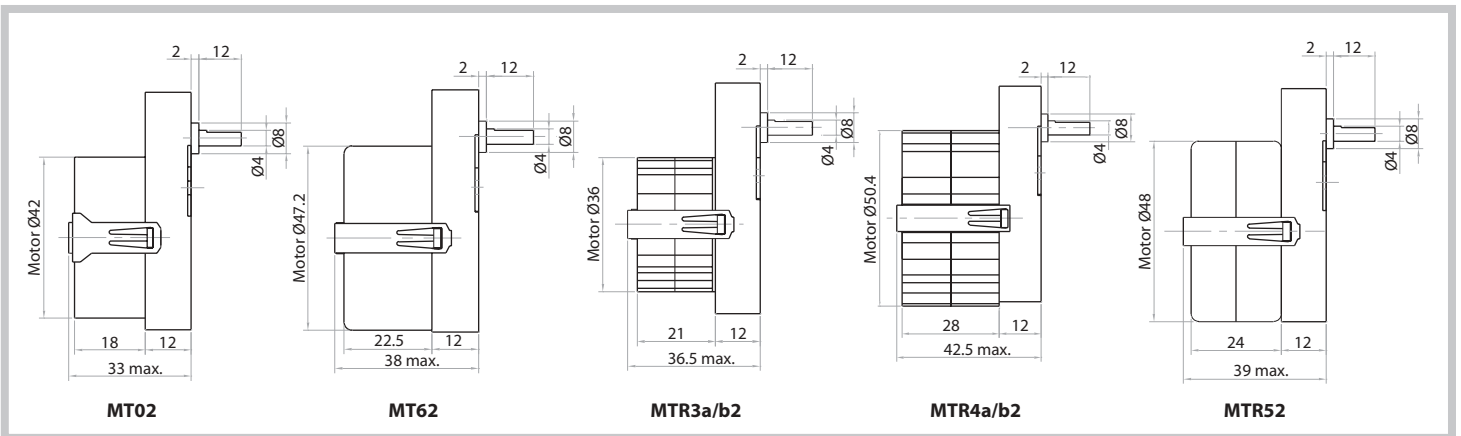
Shaft Type Catalogue

Shaft type Catalogue	D	+	H	L	Shaft Diam. d	l	d'	T
S	6.35 *	2	12		3.175	9	2.8	
A	8	2	9		3.175	6	2.8	
B	8	2	16		3.175	13	2.8	
C	8	2	21		3.175	18	2.8	
D	8	2	12		4	9	3.6	
E	8	2	16		4	13	3.6	
F	8	2	21		4			
G	6.35 *	2	12		4.764	9	4.2	
H	6.35 *	2	16		4.764	13	4.2	
I	6.35 *	2	20		4.764	11	4.2	
J	6.35 *	2	22		4.764	19	4.2	
K	6.35 *	2	25.5		4.764	20	4.2	
L	6.35 *	2	8		4.764	6	4.2	
M	6.35 *	2	12		3.175	11.5		1/8"

Shaft type Catalogue	D	+	H	L	Shaft Diam. d	l	d'	P	M	h	C
N	8	2	12		6.35	7			3		
O	8	2	21		4	10				2	
P	8	2	13		4						
Q	8	3.5	19		5	5.5				2	
R	12	3	15		6	10	5.4				
T	12	3	21		6	16	5.4				
U	12	3	26		6	18	5.4				
V	12	3	52		6						
W	12	3	22		7	17	6	9			M4
X	12	3	15		7	10	6.3				
Y	12	3	21		7	15	5				
Z	12	3	21		7						
a	12	3	26		7	18	6.3				
b	12	3	52		7						

Note: '+' 3.5 mm also possible '* 8 mm also possible

Drawings



Photographs

