

KT MANUAL GEARBOX

KT BEVER GEARBOX

Description:

Cost effectively designed option for enhancement of manual operated of Penstock, gate valves, and others screw lifting equipment's for water works application.

Material Specification:

Component	Material	Standard
Housing	Aluminium	BS EN 1706
alloy Shaft Sleeve	Aluminium	BS EN 1706
alloy Input gear	Carbon steel	BS 970 EN9
Output gear	Cast Steel	BS 3100
Base plate	Aluminium	BS EN 1706
alloy Thrust Nut	Gunmetal	BS EN 1982
Thrust Bearing	Needle Roller Bearings	
Fixing Screw	HT steel Metric	
Grease	Renolit CL-X2	



Performance Specification:

Model	Ratio	Output Torque (Nm)	Mechanical Advantage	Thrust (KN)	Stem Acc(mm) Keyed/Screw	Temp. Range(°C)	Weight (Kg)
BGB-45	4.5:1	400	3.8	90	38 41	-40 to +100	24
BGB-7	7:1	700	6.0	105	56 65	-40 to +100	45

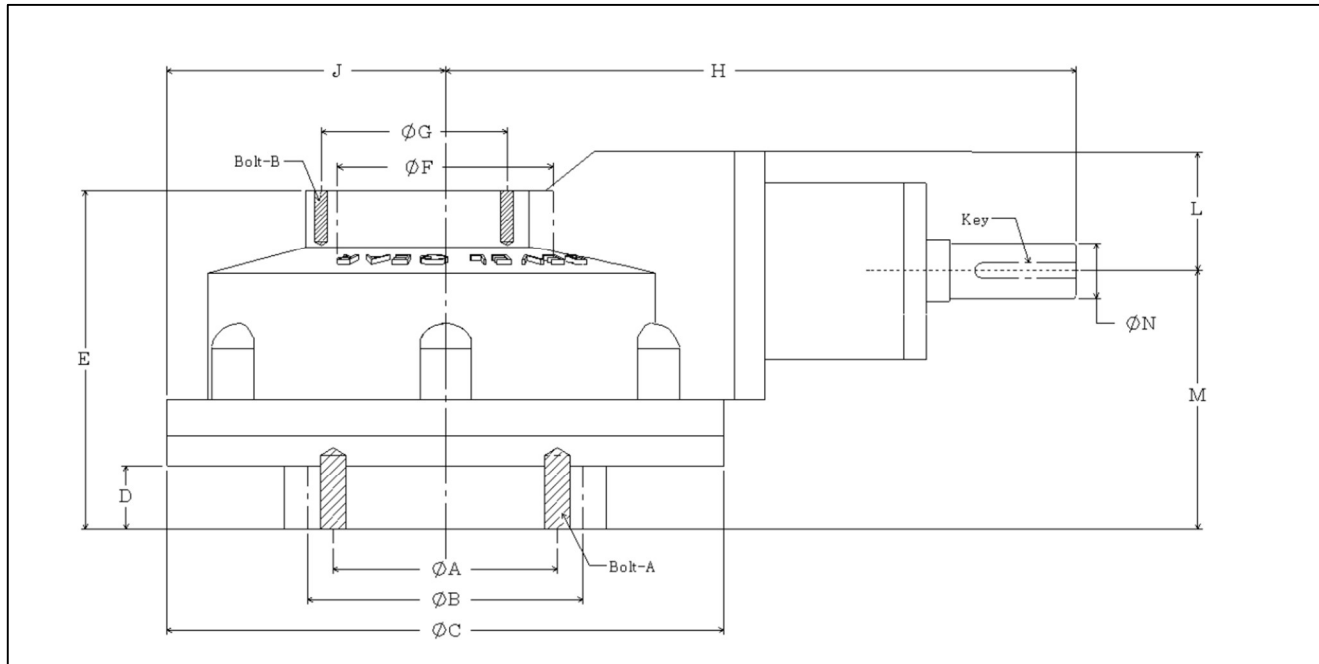
Feature:

- Design for manual rim effort requirement
- Total enclosed gearing system
- Heavy-duty aluminium alloy housing
- Primed finish
- Rising and Non-Rising spindle
- External position indicator design
- Minimum maintenance required
- Option for dual drive shaft design
- Option coating for aggressive environments



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Gearbox Dimension Detail:



Gearbox Type	ØA	ØB	ØC	D	E	ØF	ØG	H	J	L	M	ØN	Bolt-A	Bolt-B	Key
BGB-45	125	100	220	25	134	84	98	249	110	47	102	22	M12	M6	6x6x40
BGB-7	165	120	320	37	141	120	135	313	160	54.5	108.6	25	M14	M6	6x6x50

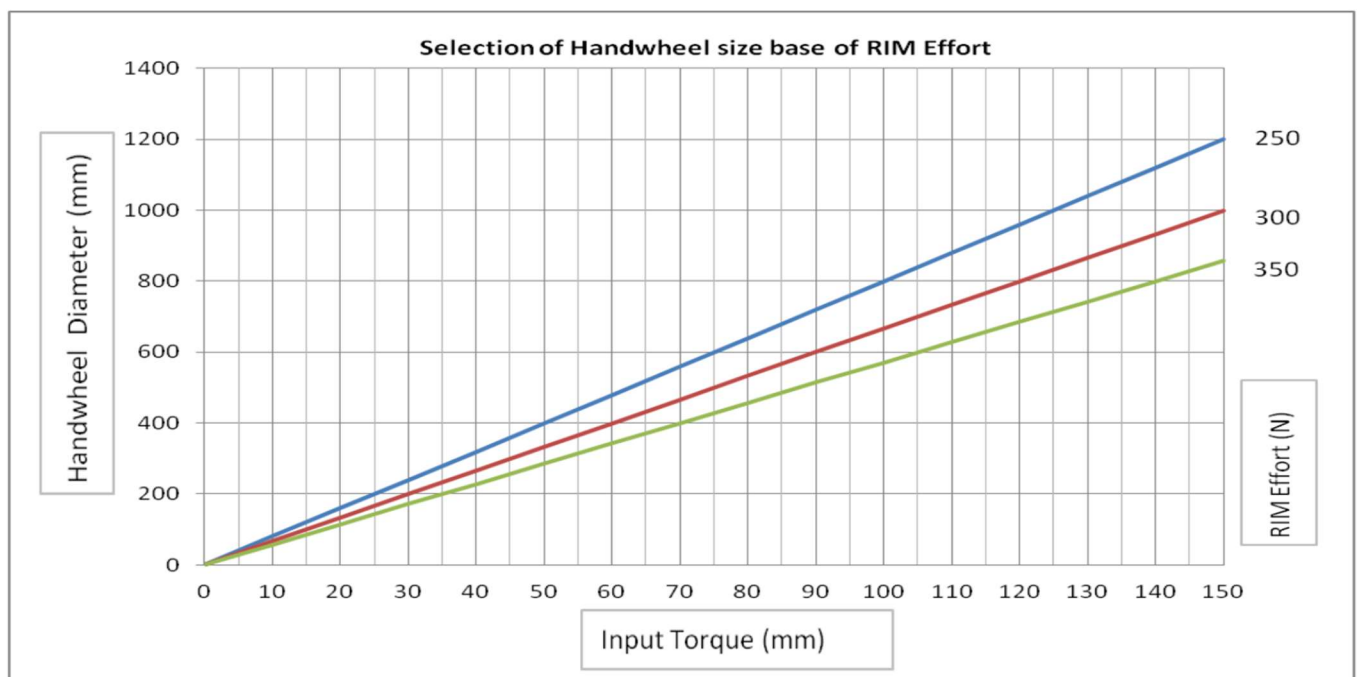
Mounting Base Detail:	
Model	Hole Detail
BGB-45	4 x M12 x 15 DEEP on Ø 125 PC
BGB-7	4 x M14 x 20 DEEP on Ø 165 PC

Remarks: all dimension is in millimetres (mm)



Handwheel Dimension:

Size	ØP	ØQ	R
HW-400	400	50	80
HW-500	500	50	80
HW-600	600	50	80



How to select the handwheel size:

1. Determine the input torque by using the formula, Input torque = $\frac{\text{Output torque}}{\text{Mechanical advantage}}$
2. Define allowable RIM effort
3. Select handwheel size



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