

INVOLUTE TOOLING CORPORATION

Manufacturers of Drives and Transmissions

Shaft Mounted Bevel Speed Reducer

The shaft mounted bevel speed reducer is a compact gearbox, which offers right-angled input-output combination with direct motor mounting thereby eliminating the need of a pulley.

It is a two stage helical – bevel gearbox with hardened and ground helical gears and spiral bevel gears of suitable alloy steels.

The gearbox is available in **4 sizes D, F, G and J** with nominal ratios of **20:1** with torque ratings from 750 to 6500 Nm.

Input: Gearbox input can be keyed or splined hollow shafts for electric or hydraulic motor mounting. The reducers are provided with motor mount flanges.

Output: Keyed or Splined Hollow Shafts

Hollow Taper Clamps

Hollow Shaft with Imperial Bores & Keyways

Keyed or Splined Solid Shafts

Shaft Mounted Bevel Taper Clamps have a keyless output. Taper clamps and supporting bushes are manufactured in stainless steel to prevent fretting corrosion and provide easy removal. Various sizes of bores are available in taper clamps providing a very easy method of mounting on different shaft sizes.

The torques arm anchors the gearbox and provides an easy and quick method of adjustment

The gearbox is suitable for both forward and reverse motion. The gearbox can be supplied with the motors.

Customization: Modifications to customer specifications, ratios, configurations and power ratings.

Applications: These gearboxes are suitable for conveyors, mixing and milling equipment and heavy-duty bulk material handling.



Benefits:

- Low noise gearing
- Compact and low cost
- High efficiency of 95%
- Reduced energy consumption
- Alternative to conventional shaft mounts
- Eliminates pulley and saves space!

Accessories:

Input Flanges: IEC or Hydraulic Motor Flanges.

Roll Back Adapters / Backstops: A simple accessory that prevents reversal of the speed reducer and is ideal for conveyors.

Reducing Bushes: Available for various bore sizes in steel and stainless steel.

Safety Covers: Available for non-conveyor end.

Labyrinth Seals: For protection against abrasive environments.

Other Products

Worm Reduction Gear Units

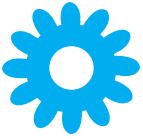
Planetary Gearboxes

Slewing Rings

Timing Pulleys

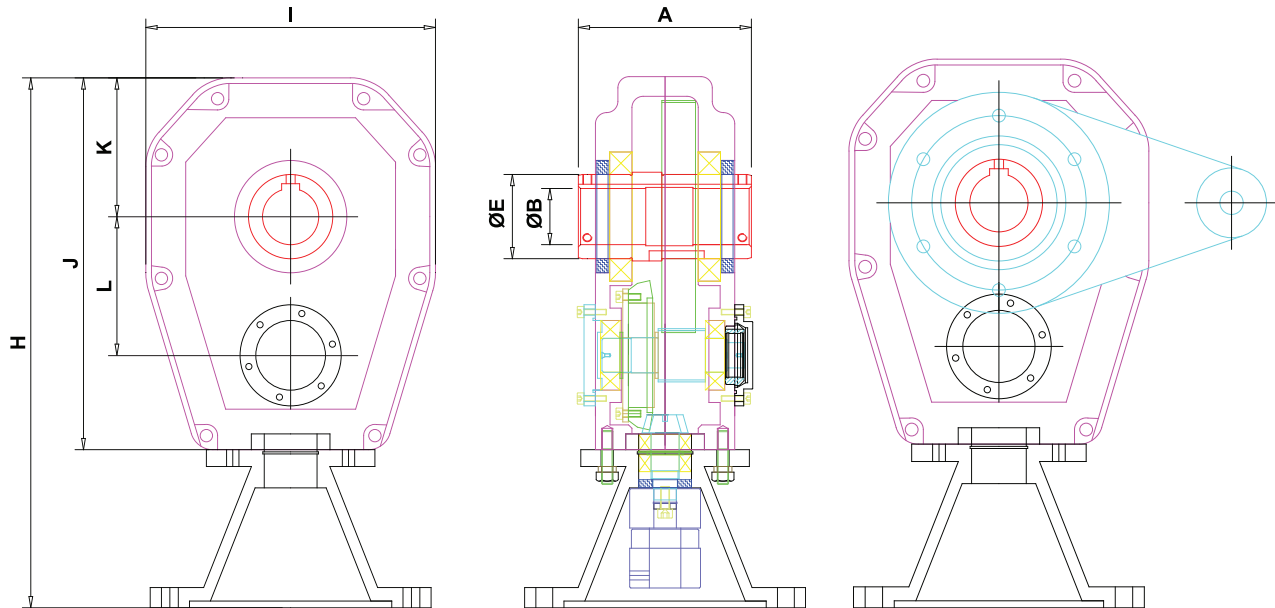
Hardened Ground Gears

Geared Exciters



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Dimensions, Size – D, F, G, J

Size	Mass Kg	A	Keyed Hub ΦB		ΦE	H	I	J	K	L	Input Flanges for IEC Motor Frames
			STD	ALT							
D	45	154	50	55	75	472	258	331	124	124	100L, 112M, 132S
F	75	215	65	75	100	529	340	414	152	150	132M, 160M
G	100	234	75	85	110	573	360	439	166	166	160M, 160L, 180M, 180L
J	340	289	100	120	150	956	540	686	268	263	225M

*All Dimensions in mm

*Dimensions are subject to change without notice

*Dimension 'H' will vary for different IEC Motor Frame Sizes

Power and Torque Rating

Size	D	F	G	J
Power Rating (kW) at 70 RPM	5.50	13.2	22.0	47.0
Torque (Nm)	742	1780	2960	6500

Shaft Mounted Bevel Taper Clamp Speed Reducer

Size	D2	M2	N2	STD	BUSHES ΦB
					Other Available
D	79	91	170	50	38, 42, 45, 48, 1¼", 1½", 1¾"
F	104	121	225	65	50, 55, 60, 2", 2¼", 2½"
G	113	133	246	75	60, 65, 70 2¼", 2½", 2¾"
J	152	142	294	100	75, 80, 90, 95, 3", 3½", 4"

