

Efficient and precise application.



Our efficient bevel gearboxes boast high permissible radial forces, closely stepped ratios and low backlash. They are available in 2-stage and 3-stage designs with a maximum torque of 20,000 Nm and ratios of up to $i=360$ depending on your individual requirements.

Features

- Highly efficient right-angle gearbox with a compact design for space-optimised assembly
- Standardised shaft and flange dimensions for easy machine integration
- Low backlash and high torsional stiffness ensure precise results in positioning tasks

Technical data

Gearbox size		g500-B45	g500-B110	g500-B240	g500-B450	g500-B600	g500-B820	g500-B1500	g500-B2700	g500-B4300	g500-B8000	g500-B13000	g500-B20000
Rated torque	[Nm]	45	110	240	450	600	820	1500	2700	4300	8000	13000	20000
Ratio range		5 - 60	5 - 100	4 - 360	5 - 250	5 - 250	5 - 250	7 - 250	7 - 260	5 - 260	7 - 240	7 - 220	10 - 200
Solid shaft dimensions	[mm]	20 x 40	20 x 40	30 x 60	30 x 60	35 x 70 40 x 80	40 x 80	50 x 100	60 x 120	70 x 140 80 x 160	90 x 170	110 x 210	120 x 210
Hollow shaft dimensions	[mm]	18 20	20 25	30 35	35 40	40 45	40 45	50 55	60 70	70 80	90	100	120
Shrink disk dimensions	[mm]	20	20	35	35	40	40	50	65	75 80	95	105	125
Flange dimensions	[mm]	110 120	120 160	160 200	200	200 250	200 250	250 300	350	400 450	450	550	660

g500-B bevel geared motors

Gearboxes

When used in conjunction with three-phase AC motors and servo motors, our bevel gearboxes form a compact, powerful drive unit. Numerous options at the input and output ends ensure that the drive can be easily and precisely adjusted to suit your application.



Models

- With Lenze Smart Motor m300 rated torque of 1.75 Nm and 5 Nm
- With IE1, IE2 and IE3 three-phase AC motors according to the ErP Directive: Power range 0.06 to 55 kW
- With inverter-optimised MF three-phase AC motors: Power range 0.55 to 22 kW
- With synchronous servo motors and asynchronous servo motors: Power range: 0.25 to 38.4 kW

Matched to your environmental conditions

Gearboxes with	Lenze Smart motor	Three-phase AC motors	servo motors
Degree of protection EN 60529	IP55		IP54 / IP65
Energy efficiency class		IE1, IE2, IE3 or inverter-optimised	
Approvals	cURus, GOST-R, CCC and UkrSepro		
Climatic conditions			
Storage temperature	-30°C to +60°C		
Operating temperature	-20°C to +40°C		
Surface and corrosion protection			
OKS-G (primed)	1K primer coat		
OKS-S (small)	2K-PUR top coat		
OKS-M (medium)	1K primer coat, 2K-PUR top coat		
OKS-L (large)	2K-EP primer coat, 2K-PUR top coat		