

Efficient and precise.



Our efficient bevel gearboxes boast high permissible radial forces, closely stepped ratios and low backlash. They are available in two-stage and three-stage designs with a maximum torque of 177,015 lb-in (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-optimized assembly
- Standardized 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	lb-in	400	1000	2100	4000	5300	7300	13000	24000	38000	71000	115000	177000
	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	12 - 200
Solid shaft dimensions	in	0.75 x 1.50	0.75 x 1.50	1.25 x 2.50	1.25 x 2.50	1.375 x 2.75	1.625 x 3.25	2.00 x 4.00	2.375 x 4.75	2.875 x 5.75	3.625 x 6.69	4.375 x 8.27	4.50 x 8.27
	mm	20 x 40	20 x 40	30 x 60	30 x 60	40 x 80	40 x 80	50 x 100	60 x 120	70 x 140	90 x 170	110 x 210	120 x 210
Hollow shaft dimensions	in	0.75	0.75	1.25	1.375	1.50	1.50	2.00	2.375	2.75	3.625	4.00	4.50
	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	30 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.



Designs

- With Lenze Smart Motor m300 rated torque of 15.5 and 44.3 lb-in (1.75 and 5 Nm)
- With IE1 and IE3 three-phase AC motors according to the ErP Directive: Power range 0.08 to 74 Hp (0.06 to 55 kW)
- With inverter-optimized MF three-phase AC motors: Power range 0.74 to 29.5 Hp (0.55 to 22 kW)
- With synchronous and asynchronous servo motors: Power range 0.34 to 5.15 Hp (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 and IE3 or inverter-optimized		
Approvals			
	cURus, EAC, CCC and UkrSepro		
Climatic conditions			
Storage temperature	-30 °C to +60 °C (-22° to +140 °F)		
Operating temperature	-20 °C to +40 °C (-4° to +104 °F)		
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		