

Efficiency and slimline design in the application.



Our slimline shaft-mounted helical gearboxes are characterised by high permissible radial forces, closely stepped ratios and a low backlash. They are available in 2-stage and 3-stage designs with a maximum torque of 19,000 Nm and ratios of up to $i=500$ depending on your individual requirements.

Features

- Compact design saves on installation space required for the machine
- Solid shaft, hollow shaft and shrink disc for direct integration into the machine
- Low backlash at axial output optimises efficiency
- High centre distance provides more free space in your application

Technical data

Gearbox size		g500-S130	g500-S220	g500-S400	g500-S660	g500-S950	g500-S2100	g500-S3100	g500-S4500	g500-S8000	g500-S14000	g500-S19000
Rated torque	[Nm]	130	220	400	660	950	2100	3100	4500	8000	14000	19000
Ratio range		4 - 100	4 - 350	3 - 390	4 - 420	4 - 400	5 - 430	5 - 410	5 - 410	5 - 380	5 - 370	8 - 350
Solid shaft dimensions	[mm]	25 x 50	25 x 50	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]	25	25 30	30 35	40 45	40	50 55	60 70	70 80	90	100	120
Shrink disk dimensions	[mm]	25	25 30	35	40	40	50	65	75 80	95	105	125
Flange dimensions	[mm]	160	160	200	200 250	250	250 300	350	400 450	450	550	660

g500-S shaft-mounted helical geared motors

Gearboxes

When used in conjunction with three-phase AC motors and servo motors, our shaft-mounted helical 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 ... 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, EAC, 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		