

Efficiency and slimline design in the application.



The slimline shaft-mounted helical gearboxes are characterized by high permissible radial forces, closely stepped transmission ratios and a low backlash.

They are available in a 2-stage, 3-stage and 4-stage design with a torque of up to 19,000 Nm and a ratio of up to $i = 4,300$.

Highlights

- Energy efficiency classes for an economic and future-proof use in many applications and countries
- Slimline design saves installation space of the machine
- Solid shaft, hollow shaft and shrink disc for direct integration into the machine
- Little backlash during axial output ensures maximum efficiency
- High center distance provides more free space in your application

Lenze Motors with shaft-mounted helical gearboxes g500-S

Shaft-mounted helical geared motors are 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.

Types m550 and MF

- With IE2 and IE3 three-phase AC motors according to the ErP Directive: Power range 0.12 ... 55 kW
- With inverter-optimized MF three-phase AC motors: Power range 0.55 ... 22 kW

Types Lenze Smart Motor

- With m300 Lenze Smart Motors: Rated torque of 1.75 Nm and 5 Nm

Types MCS, m850 and MCA

- With synchronous servo motors and asynchronous servo motors: Power range: 0.25 ... 38.4 kW



m550



Lenze Smart Motor



MCS



m850



MCA

Matched to your ambient conditions

Gearboxes with	Three-phase AC motors	Lenze Smart Motor	Servo motors
Degree of protection (EN 60529)	IP55		IP54/IP65
Energy efficiency class	IE2, IE3 or inverter-optimized		
Approvals	cURus, CCC and UkrSepro		
Storage temperature	-30 ... 60 °C		
Operating temperature	-20 ... 40 °C		

Surface and corrosion protection

Gearboxes with	Three-phase AC motors, Lenze Smart Motors, servo motors
OKS-G (primed)	1K priming coat
OKS-S (small)	2K-PUR top coat
OKS-M (medium)	1K priming coat, 2K-PUR top coat
OKS-L (large)	2K-EP priming coat, 2K-PUR top coat

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	2,100	3,100	4,500	8,000	14,000	19,000
Ratio range		4 - 100	4 - 3,500	3 - 3,900	4 - 4,200	4 - 4,000	5 - 4,300	5 - 4,100	5 - 4,100	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 disc 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