

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, EAC, 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 |