

# Efficiency and slimline design in the application.



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**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<br>40 x 80 | 40 x 80   | 50 x 100   | 60 x 120   | 70 x 140<br>80 x 160 | 90 x 170   | 110 x 210   | 120 x 210   |
| Hollow shaft dimensions | mm | 25        | 25<br>30  | 30<br>35  | 40<br>45           | 40        | 50<br>55   | 60<br>70   | 70<br>80             | 90         | 100         | 120         |
| Shrink disc dimensions  | mm | 25        | 25<br>30  | 35        | 40                 | 40        | 50         | 65         | 75<br>80             | 95         | 105         | 125         |
| Flange dimensions       | mm | 160       | 160       | 200       | 200<br>250         | 250       | 250<br>300 | 350        | 400<br>450           | 450        | 550         | 660         |