

# Robust and precise application.



Our efficient helical gearboxes boast high permissible radial forces, closely stepped ratios and low backlash. They are available in 2-stage and 3-stage designs with a maximum torque of 14,000 Nm and ratios of up to  $i=370$  depending on your individual requirements.

## Features

- Precision scaling for size/torque ensures optimal machine adjustments
- Standardised shaft and flange dimensions for easy machine integration
- Exceptional efficiency of 94% or more

## Technical data

Gearbox size		g500-H45	g500-H100	g500-H140	g500-H210	g500-H320	g500-H450	g500-H600	g500-H850	g500-H1500	g500-H3000	g500-H5000	g500-H8000	g500-H14000
Rated torque	[Nm]	45	100	140	210	320	450	600	850	1500	3000	5000	8000	14000
Ratio range		3 - 60	3 - 60	3 - 75	3 - 290	3 - 320	3 - 370	3 - 250	3 - 230	4 - 310	4 - 280	5 - 370	4 - 330	5 - 330
Solid shaft dimensions	[mm]	14 x 28 20 x 40	20 x 40	25 x 50	25 x 50	30 x 60	30 x 60 35 x 70	35 x 70 40 x 80	40 x 80	50 x 100	60 x 120	70 x 140	90 x 170	110 x 210
Flange dimensions	[mm]	120 140 160	120 140 160	120 140 160	120 140 160 200	160 200	160 200 250	200 250	250 300	250 300 350	300 350 450	350 450	450 550	450 550

# g500-H helical geared motors

Gearboxes

When used in conjunction with three-phase AC motors and servo motors, our 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 depending on your individual 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		