

# Robustness and accuracy in the application.



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**The robust 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 14,000 Nm and a ratio of up to  $i = 3,700$ .

## Highlights

- Energy efficiency classes for an economic and future-proof use in many applications and countries
- Finely scaled sizes and torques for optimum machine adaptations
- Standardized shaft and flange dimensions for easy machine integration
- Efficient thanks to a high degree of efficiency of 94% or better

# Lenze Motors with helical gearboxes g500-H

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-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	1,500	3,000	5,000	8,000	13,000
Ratio range		3 - 60	3 - 600	3 - 750	3 - 2,900	3 - 3,200	3 - 3,700	3 - 2,500	3 - 2,300	4 - 3,100	4 - 2,800	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