

Robust and precise.



Our efficient helical gearboxes boast high permissible radial forces, closely stepped ratios and low backlash. They are available in two-stage and three-stage designs with a maximum torque of 123,910.44 lb-in (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
- Standardized 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	lb-in	400	890	1200	1900	2800	4000	5300	7500	13000	27000	44000	71000	124000
	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	in	0.75 x 1.50	0.75 x 1.50	1.00 x 2.00	1.00 x 2.00	1.25 x 2.50	1.375 x 2.75	1.375 x 2.75	1.625 x 3.25	2.125 x 4.25	2.375 x 4.75	2.875 x 5.51	3.625 x 6.69	4.375 x 8.27
	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	120	120	120	160	160	200	250	250	300	350	450	450
		140	140	140	140	200	200	250	300	350	450	550	550	
		160	160	160	160	200	250	300	350	450				

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 to suit your application.



Designs

- With Lenze Smart Motor m300 rated torque of 15.5 and 44.3 lb-in (1.75 and 5 Nm)
- With IE1 and IE3 three-phase AC motors according to the ErP Directive: Power range 0.08 to 74 Hp (0.06 to 55 kW)
- With inverter-optimized MF three-phase AC motors: Power range 0.74 to 29.5 Hp (0.55 to 22 kW)
- With synchronous and asynchronous servo motors: Power range 0.34 to 51.5 Hp (0.25 to 38.4 kW)

Tailored to your individual ambient conditions

Gearboxes with	Lenze Smart motor	Three-phase AC motors	Servo motors
Enclosure			
EN 60529	IP55		IP54 / IP65
Energy efficiency class	IE1 and IE3 or inverter-optimized		
Approvals	cURus, EAC, CCC and UkrSepro		
Climatic conditions			
Storage temperature	-30° to +60 °C (-22° to +140 °F)		
Operating temperature	-20° to +40 °C (-4° to +104 °F)		
Surface and corrosion protection			
OKS-G (primed)	1K primer		
OKS-S (small)	2K PUR top coat		
OKS-M (medium)	1K primer, 2K PUR top coat		
OKS-L (large)	2K-EP primer, 2K PUR top coat		