

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
- High center distance provides more free space in your application



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





Lenze Smart Motor







Matched to your ambient conditions

Gearboxes with	Three-phase AC motors	Lenze Smart Motor	Servo motors				
Degree of protection (EN 60529)	IP:	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

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Gearboxes



Space-saving and with powerful torque.



Our axial shaft-mounted helical gearboxes are short, and capable of transmitting high torque levels. The low level of backlash offered by the toothing ensures the highest precision. Optimised tooth profiles and ground gears ensure both low-noise operation and low backlash.

The gearboxes are available in 2-stage and 3-stage versions with torque of to 11,615 Nm and a ratio of up to i=856.

Models

- 2-stage and 3-stage gearboxes
- · Hollow shaft with keyway or shrink disc
- · Solid shaft with feather key
- · Foot or flange mounting
- Torque plate, including rubber buffer

Technical data

Gearbox size		GFL04	GFL05	GFL06	GFL07	GFL09	GFL11	GFL14
Max. torque	[Nm]	172	345	657	1378	3170	5952	11615
Ratio range		3.7 - 95	3.3 - 538	3.7 - 856	3.4 - 810	6.9 - 790	6.9 - 801	7.2 - 801
Dimensions								
Hollow shaft	[mm]	25/30	30/35	40/45	50/55	60/70	70/80	100
Solid shaft	[mm]	25 x 50	30 x 60	40 x 80	50 x 100	60 x 120	80 x 160	100 x 200
Flange	[mm]	160	200	200/250	250/300	350	400/450	450

GFL shaft-mounted helical geared motors

Gearboxes



When combined with our integrated three-phase AC motors and servo motors, our shaft-mounted helical gearboxes form a compact, effective drive unit. Numerous drive-end and output-end options allow precise matching of the drive to your specific application.

Models

- With three-phase AC motors in line with the ErP Directive in the power range from 0.12 to 45 kW
- With servo motors in the power range from 0.25 to 20.3 kW
- The power range up to 7.5 kW is covered by a Drive Package, created together with the decentralised Inverter Drives 8400 motec.

Matched to your environmental conditions

Gearboxes with	Three-phase AC motors	Servo motors					
Degree of protection							
EN 60529	IP55 IP54 / IP65						
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						