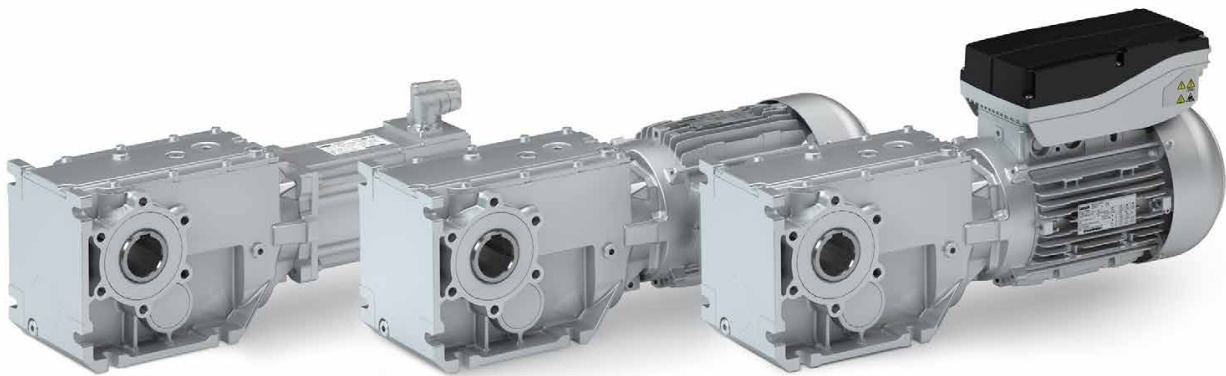


# Efficiency and accuracy in the application.



**The efficient bevel 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 20,000 Nm and a ratio of up to  $i = 3,600$ .

## Highlights

- Energy efficiency classes for an economic and future-proof use in many applications and countries
- High-efficient right-angle gearbox in a compact design makes optimal use of mounting space
- Standardized shaft and flange dimensions for easy machine integration
- Low backlash and high torsional stiffness ensure exact positioning task results

Bevel 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-B45	g500-B110	g500-B240	g500-B450	g500-B600	g500-B820	g500-B1500	g500-B2700	g500-B4300	g500-B8000	g500-B13000	g500-B20000
Rated torque	Nm	45	110	240	450	600	820	1500	2700	4300	8000	13000	20000
Ratio range		5 - 60	5 - 100	4 - 3600	5 - 2500	5 - 2500	5 - 2500	7 - 2500	7 - 2600	5 - 2600	7 - 240	7 - 220	12 - 200
Solid shaft dimensions	mm	20	20	30	30	40	40	50	60	70	90	110	120
		x 40	x 40	x 60	x 60	x 80	x 80	x 100	x 120	x 140	x 170	x 210	x 210
Hollow shaft dimensions	mm	18	20	30	35	40	40	50	60	70	90	100	120
		20	25	35	40	45	45	55	70	80	90	100	120
Shrink disc dimensions	mm	20	20	30 35	35	40	40	50	65	75 80	95	105	125
Flange dimensions	mm	110	120	160	200	200	200	250	350	400	450	550	660
		120	160	200	250	250	250	300	450	450	450	550	660

# Lightweight and highly efficient.



Our bevel gearboxes are a showpiece in lightweight engineering. They are also highly efficient and equipped with wear-free teeth.

They are available in a 2-stage version with torque of to 450 Nm and a ratio of up to  $i=76$ .

## Models

- 2-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		GKR03	GKR04	GKR05	GKR06
Max. torque	[Nm]	45	90	240	450
Ratio range		5.4 - 62	5.2 - 61	3.6 - 76	3.4 - 69
<b>Dimensions</b>					
Hollow shaft	[mm]	18/20	20/25	30/35	40/45
Solid shaft	[mm]	20 x 40	20 x 40	30 x 60	35 x 70
Flange	[mm]	110/1200	120/160	160/200	200/250

# GKR bevel geared motors

Gearboxes



When combined with our integrated three-phase AC motors and servo motors, bevel 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 0.06 to 7.5 kW
- With servo motors in the power range from 0.25 to 7.1 kW
- As a Drive Package with the decentralised Inverter Drives 8400 motec, covering the power range up to 7.5 kW.

## 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	

# Precise positioning.



The high degree of torsional stiffness and low backlash offered by our helical-bevel gearboxes facilitate extremely precise and reproducible positioning. Optimised tooth profiles and ground gears ensure low-noise operation and low backlash.

They are available in 3-stage and 4-stage versions with torque of to 11,639 Nm and a ratio of up to  $i=1,936$ .

## Models

- 3-stage and 4-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		GKS04	GKS05	GKS06	GKS07	GKS09	GKS11	GKS14
Max. torque	[Nm]	190	331	702	1330	3080	6072	11639
Ratio range		5.1 - 300	6.9 - 1935	6.5 - 1511	6.0 - 1440	12 - 1413	12 - 1411	12 - 1393
<b>Dimensions</b>								
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

# GKS helical-bevel geared motors

Gearboxes



When combined with our integrated three-phase AC motors and servo motors, our helical-bevel 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
- As a Drive Package with the decentralised Inverter Drives 8400 motec, covering the power range up to 7.5 kW.

## 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	