

Greater precision and flexibility.



The g7x0 planetary gearboxes and bevel planetary gearboxes as well as the low-backlash g8x0 extend the range of mechanical drives with high-quality servo drives.

The g7x0 gearboxes are die economic solution for many servo applications. They are characterized by a good price/performance ratio as well as a complete portfolio in combination with the Lenze servo motors.

The g8x0 offer the highest performance and precision. The already very low backlash can optionally be further reduced. The portfolio offers other variants for universal use with precise requirements, with degree of protection IP65.

Highlights

- Highest mounting flexibility
- Maintenance-free lifetime lubrication for any mounting position
- Degree of protection IP54 and IP65 for universal use, even in rough environments
- Robust planetary gearboxes and bevel planetary gearboxes with output flange, solid shaft or hollow shaft
- High torque range and wide ratio range for highly efficient drive solutions

g7x0-P planetary gearboxes



g700-P

- Basic gearboxes
- Good price/performance ratio
- Continuous high speeds



g720-P

- Reinforced deep-groove ball bearing
- Flange on at the output end
- High ratio range



g730-P

- Reinforced deep-groove ball bearing
- Reinforced housing



g750-P

- Robust position controller
- Protection against dust and water
- Degree of protection IP65



- · Flange driven shaft
- Very torsionally stiff
- Compact

g7x0-B bevel planetary gearboxes



g700-B

- Basic gearboxes
- Good price/performance ratio
- Continuous high speeds



g720-B

- Reinforced deep-groove ball bearing
- Flange on at the output end
- High ratio range



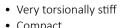
g730-B

- Reinforced deep-groove ball bearing
- Reinforced housing



g780-B

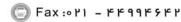
- Flange driven shaft
- Compact





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g8x0-P planetary gearboxes

Precision gearboxes



g820-P

- Basic gearboxes
- Low noise generation
- High input speed possible



g840-P

- Very high rated torque
- Robust position controller
- Very low backlash



g850-P

- Low noise generation
- Robust position controller
- Very low backlash



g870-F

- Very compact
- Highest bearing forces
- Extremely torsionally stiff



g880-P

- · Very compact
- Low noise generation
- Extremely torsionally stiff

g8x0-B bevel planetary gearboxes

Precision gearboxes



g850-B

- Spiral toothed
- 2-stage gearboxes additionally with planetary stages
- · Very low backlash



g860-B

- Spiral toothed
- Hollow shaft version with shrink disc
- Very low backlash



g880-B

- Spiral toothed
- 2-stage gearboxes additionally with planetary stages
- · Flange driven shaft

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When used in combination with the MCS and m850 synchronous servo motors or the MCA and SDSGA asynchronous servo motors, our planetary gearboxes and bevel planetary 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.

Types

- With MCS: Power range 0.33 ... 21.18 hp (0.25 ... 15.80 kW)
- With m850: Power range 2.68 ... 12.34 hp (2.00 ... 9.20 kW)
- With MCA: Power range 1.07 ... 72.15 hp (0.80 ... 53.80 kW)
- With SDSGA: Power range 0.10 ... 0.80 hp (0.08 ... 0.60 kW)

The EASY Product Finder helps you to find the right product.







m850





SDSGA

Technical data Planetary gearboxes and planetary geared motors

Rated data		g700-P	g720-P	g730-P	g750-P	g780-P
Possible combinations			N	1CA, MCS, m850, SDS	SA .	
Rated torque	Nm	5 800	15 260	5 460	15 260	15 260
	lb-in	44 7080	132 2300	44 4070	132 2300	132 2300
Backlash	arcmin	6 22	7 15	7 19	7 12	7 12
Static radial force	N	200 5000	1500 4000	1300 8400	3200 6000	900 3800
Static axial force	N	240 11000	1950 3800	1000 11000	4400 8000	1200 5200

MCS

MCA

Rated data		g820-P	g840-P	g850-P	g870-P	g880-P
Possible combinations			MCA, MCS, m850			
Rated torque	Nm	28 470	27 1800	28 950	27 1800	28 950
	lb-in	247 4160	23915930	247 8408	239 16930	247 8408
Backlash	arcmin	1 5	1 5	1 5	1 5	1 5
Static radial force	N	1600 9500	3200 21000	3200 20000	2400 33000	2400 23000
Static axial force	N	1500 9600	4400 21000	4400 19000	4300 15000	4300 16000

Bevel planetary gearboxes and Bevel planetary geared motors

Rated data		g700-B	g720-B	g730-B	g780-B	
Possible combinations		MCA, MCS, m850, SDSGA				
Rated torque	Nm	5 260	14 260	5 195	14 260	
	lb-in	44 2300	124 2300	44 1725	124 2300	
Backlash	arcmin	11 28	11 21	11 25	11 18	
Static radial force	N	200 2000	1500 4000	1300 4000	900 3800	
Static axial force	N	240 3800	1950 3800	1000 5900	1200 5200	

Rated data		g850-B	g860-B	g880-B		
Possible combinations		MCA, MCS, m850				
Rated torque	Nm	22 800	22 320	22 625		
	lb-in	194 7080	194 2830	194 5530		
Backlash	arcmin	3 5	5	3 5		
Static radial force	N	3200 12500	2700 10000	2400 12000		
Static axial force	N	4300 15000	4300 14500	4200 9500		





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Geared motors



The ultimate in precision and dynamics.



The combination of Vogel MPR/ MPG planetary gearboxes with Lenze servo motors represents the optimum solution for dynamic or highly dynamic applications requiring the greatest precision. These solutions cater to various requirements, such as those encountered on a daily basis in the printing and packaging industry, the fields of robot, filling and materials handling technology and, in many cases, also general engineering.

The MPR/MPG planetary gearboxes excel through their extremely high degree of torsional stiffness, combined with backlash as low as one angular minute. In connection with MCS synchronous servo motors and MCA asynchronous servo motors, this allows flexible and particularly energy-efficient solutions to be created that can handle virtually any application.

Highlights

- · Robust planetary gearboxes with solid shaft (MPR) or hollow shaft and flange (MPG)
- · High degree of precision for the respective application thanks to low
 - (min. <=1 angular minute)
- · Efficient drive solution with high efficiency (≥95% to ≥97%)
- · Can be installed in any orientation, which can also subsequently revised
- IP65 enclosure (dust-tight, protection from spray water at any angle)

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MPR/MPG gearboxes – deployments

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- Control system for basic machine requirements
- The planetary gearboxes are maintenance-free and lubricated for life.
 This ensures maximum availability.
- The dirt does not stand a chance!
 Thanks to the intelligent design, there are no dirt traps or areas where soiling can accumulate.
- The gearboxes boast high efficiency of ≥95% to ≥97%. In future, it will be possible to determine the cost-cutting potential for the respective application using the Lenze Energy Performance Certificate.
- Long service life of ~20,000 hours

Dimensioning made easy

Planetary gearboxes are very often used for applications that are extremely dynamic and very precise. In many cases, however, it can be difficult to dimension these drives.

Lenze simplifies these calculations for the user and makes the subsequent design process easy. The DSD engineering tool can be used to dimension the necessary drives in a clearly structured process. The necessary engineering information, such as the CAD data, can then be selected from the DSC electronic catalogue.

Matched to your environmental conditions

Gearboxes with	Servo motors	
Degree of protection		
EN 60529	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	