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Find the *SEW Eurodrive PSF511/R/EK04 CM71L/BR/TF/RH1L/SB52* at our website: *Click HERE*

SEW EURODRIVE

High speeds and high torque ratings
combines precision with high economic efficiency

Low backlash PSF and PSC planetary servo gear units
Low backlash BSF helical-bevel servo gear units



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Three series that make for thousands of options

Machine performance requirements today demand higher processing speeds, increased precision and greater acceleration. In addition, safety standards for electromechanical drives are becoming more and more stringent.

SEW-EURODRIVE meets these new and diverse requirements with a new line of precise and extremely powerful servo gear units that transfer larger torque ratings at high speeds and absorb greater overhung loads. These high performance SEW servo solutions deliver consistently low circumferential backlash, optimum torsional rigidity and a high level of efficiency:

- Extremely economical **PSC** planetary servo gear units
- Improved, low backlash **PSF** planetary servo gear units
- Versatile, low backlash **BSF** helical-bevel gear units

The properties of the servo gear unit series at a glance

- Highest permitted torques
- High operating speeds
- High efficiency levels
- High torsional rigidity
- Finely stepped, integer gear ratios
- Wear-free operating performance of running gears
- Constantly low circumferential backlash
- Low noise generation
- Synthetic lubricants
- Compact, lightweight design
- Extremely high level of reliability, availability and a long service life
- Comprehensive and proven service based on manufacturer's expertise

Driving the world – with innovative drive solutions that deliver superior performance for a vast range of applications in every industry – from automotive production to building materials manufacturing, from food & beverage handling to metals processing. When you choose drive technology "made by SEW-EURODRIVE" you are getting a return on your power transmission investment that is second to none.



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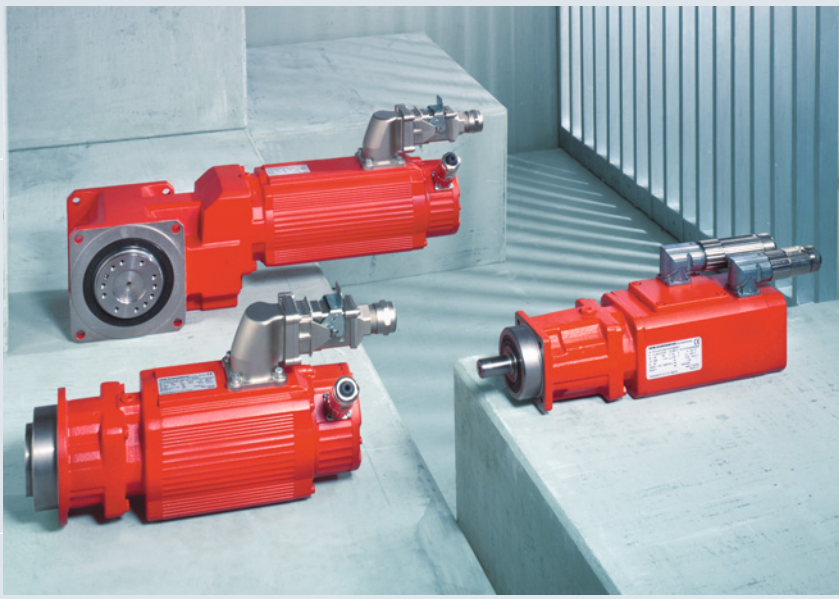
Servo gear units for direct mounting

SEW's modular design system allows you to directly connect these low backlash servo gear units with our dynamic DS, CM and CMP servomotors. Since a conventional adapter with clamp coupling is no longer required, the entire drive forms a positive connection – from the motor shaft through to the output shaft of the gear unit.

This innovation allows SEW-EURODRIVE to set new standards in safety for electromechanical drivelines. By eliminating the risk of loose non-positive connections, this trend-setting direct motor mounting results in major advantages for the entire drive:

- Higher torsional rigidity
- More dynamics
- Less mass moment of inertia
- More compact footprint
- Lighter weight
- Shorter
- Completely positive
- More cost-effective

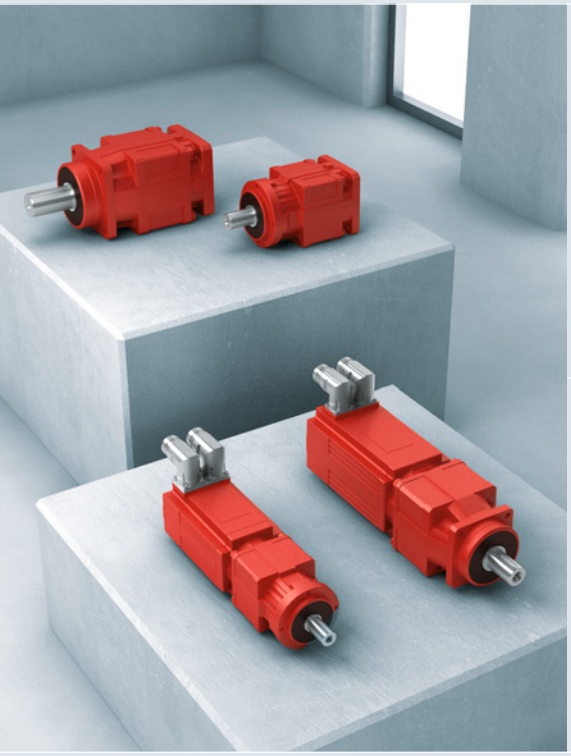
The project planning data have been verified at SEW-EURODRIVE through rigorous measurements and calculations. This means you can count on SEW servo solutions to deliver enduring and fault-free operation with low follow-up costs.





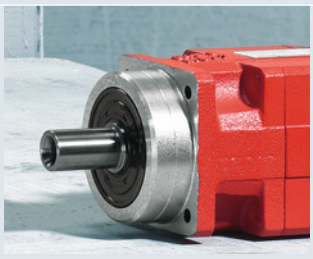
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Low backlash PSC planetary servo gear units: Economy and flexibility

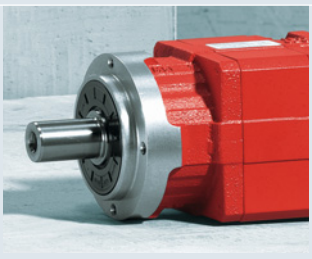


Low backlash **PSC planetary servo gear units** are designed for torque classes from 30 to 305 Nm and combine the greatest possible flexibility with cost-efficiency. Ideal for applications that do not require maximum performance, these planetary servo gear units form the basis for versatile, dynamic and above all cost optimized drive solutions. Performance properties include:

- Compact, lightweight design
- Highest degree of reliability, availbility and long service life
- Any mounting position is possible
- Synthetic lubricants
- Either oil or grease lubrication
- Lifetime lubrication
- Surface protection OS1 to OS4



PSC = B5 output, smooth output shaft
PSKC = B5 output with keyway



PSCZ = B14 output, smooth output shaft
PSKCZ = B14 output with keyway

Flexibility in motor mounting:

In an option available only from SEW-EURODRIVE, servo gear units can be installed either with a standard input adaptor for use with almost any servo motor or directly mounted without an adaptor on an SEW CM or CMP servo motor.

Technical data

Size	Torque class [Nm]	Gear ratios	
		1-stage [i]	2-stage [i]
PSC 220	30	3, 5, 7, 10	15, 21, 25, 30, 35, 49, 50, 70, 100
PSC 320	65		
PSC 520	160		
PSC 620	320	5, 7, 10	25, 35, 49, 50, 70, 100

Circumferential backlash for all designs: Max. 10’ single-stage, or max. 15’ two-stage

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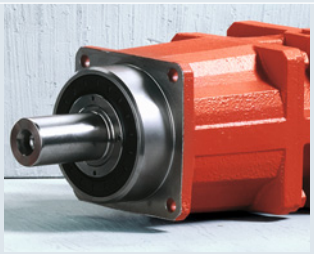
Low backlash PSF planetary servo gear units: Performance and reliability

Low backlash **PSF planetary servo gear units** are designed for torque classes from 25 to 3000 Nm. The permitted acceleration torque ratings are significantly higher than these values.

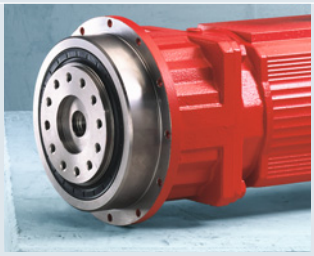
Three output options are available:

- PSF: Solid shaft
- PSKF: Solid shaft with key
- PSBF: Flange block shaft according to EN ISO 9409





PSF with solid shaft



PSBF with flange block shaft

Technical data

Type	Size	Torque class [Nm]	Gear ratios[6]		Circumferential backlash [']	
			1-stage [i]	2-stage [i]	1-stage [i]	2-stage [i]
PSF	120	25	3[1], 4[1], 5, 7, 10	15[2], 16[1], 20, 25, 28, 35, 40[1], 49, 70, 100	8, 4, 2	10, 6, 3
PSF / PSBF	220	55			6[3], 3[4], 1[5]	8, 4, 2
PSF / PSBF	320	110				
PSF / PSBF	520	300			4, 2, 1	6, 3, 1
PSF / PSBF	620	600				
PSF / PSBF	720	1000				
PSF / PSBF	820	1750				
PSF	920	3000				

[1] PSF only, [2] PSBF 322/522 only, [3] standard, [4] reduced, [5] minimized, [6] other gear ratios on request

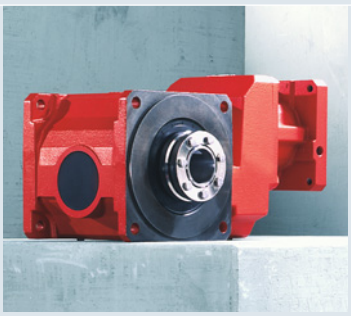
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Low backlash BSF helical-bevel servo gear units: Wide range of combinations and compact design



Low backlash **BSF helical-bevel servo gear units** are designed for torque classes from 40 to 1500 Nm. The permitted acceleration torque ratings are significantly higher than these values. These right-angle servo gear units are available in five output options as standard:

- BSF: Solid shaft
- BSKF: Solid shaft with key
- BSBF: Flange block shaft (EN ISO 9409)
- BSHF: Hollow shaft with shrink disc
- BSAF: Hollow shaft with key (shaft mounted gear units)



Units with hollow shaft are also available as shaft mounted gear units

All units come equipped with a B5 mounting flange, or with foot mounting and torque arm as options. In this way, the drive units can be optimally integrated into the relevant application.
The input stage with helical gearing and a hypoid bevel gear output stage result in gear ratio ranges that cover those of single-stage helical-bevel and hypoid gear units as well as those of single-stage helical-worm gear units with a high level of transmission quality. The circumferential backlash remains constantly low over the entire gear unit service life.

Technical data

Size	Torque class [Nm]	Gear ratios 2-stage [i]	Circumferential backlash [']
202	40	3, 4, 6, 8, 10, 15, 20, 25	6[1], 3[2]
302	80	3, 4, 6, 8, 10, 15, 20, 25, 30	
402	160		
502	320	3, 4, 6, 8, 10, 12, 15, 20, 25, 30, 35	
602	640	3, 4, 6, 8, 10, 12, 15, 20, 25, 30, 35, 40	
802	1500		

[1] standard, [2] reduced

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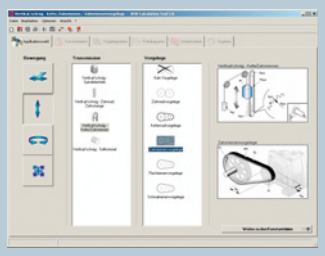
The fast way to perfect servo application solutions: Servo project planning tool

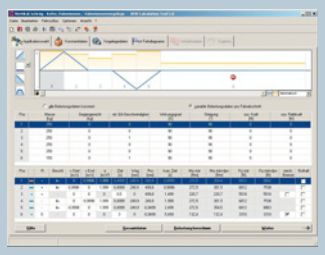
Applications from the servo field of drive engineering not only place high demands on the speed and precision of the drive technology implemented, but the project planning required these applications is also very time-consuming and labor-intensive. SEW-EURODRIVE servo solutions not only provide dynamic and precise drive technology, but also tailor-made software that guides the user quickly and simply to his or her goal: The servo project planning tool for optimum project planning of servo applications is part of the SEW Workbench.

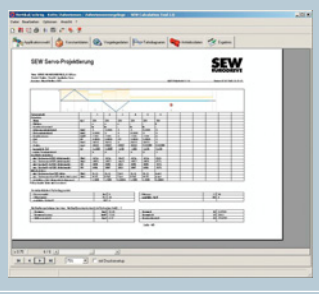
Overview of features

Comprehensive:	A selection of 90 servo applications and 100 graphics support the project planning process
Structured:	Structured overview with tab pages
Easy to use:	Travel profiles can be defined using the drag & drop function
Automatic:	Optimum gear ratio of the drives can be determined. The drive is checked after each change the user makes
User-friendly:	A number of product combinations can be compared directly with one another and the project planning examples can be archived and sent to other users

Screenshots







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SEW-Eurodrive, Inc.
Troy, OH
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cstroy@seweurodrive.com

Northeast Region
Assembly Center
SEW-Eurodrive, Inc.
Bridgeport, NJ
Tel. (856) 467-2277
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Southeast Region
Assembly Center
SEW-Eurodrive, Inc.
Lyman, SC
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Fax (864) 439-7830
cslyman@seweurodrive.com

Southwest Region
Assembly Center
SEW-Eurodrive, Inc.
Dallas, TX
Tel. (214) 330-4824
Fax (214) 330-4724
csdallas@seweurodrive.com

Western Region
Assembly Center
SEW-Eurodrive, Inc.
Hayward, CA
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Fax (510) 487-6433
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Mexico
SEW-Eurodrive Sales and Distribution SA de CV
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Tel. (011) 52-442-103-0300
Fax (011) 52-442-103-0301
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SEW-Eurodrive Co. of Canada Ltd.
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Tel. (905) 791-1553
Fax (905) 791-2999
marketing@sew-eurodrive.ca

SEW-Eurodrive Co. of Canada Ltd.
Delta, B.C.
Tel. (604) 946-5535
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LaSalle, Quebec
Tel. (514) 367-1124
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