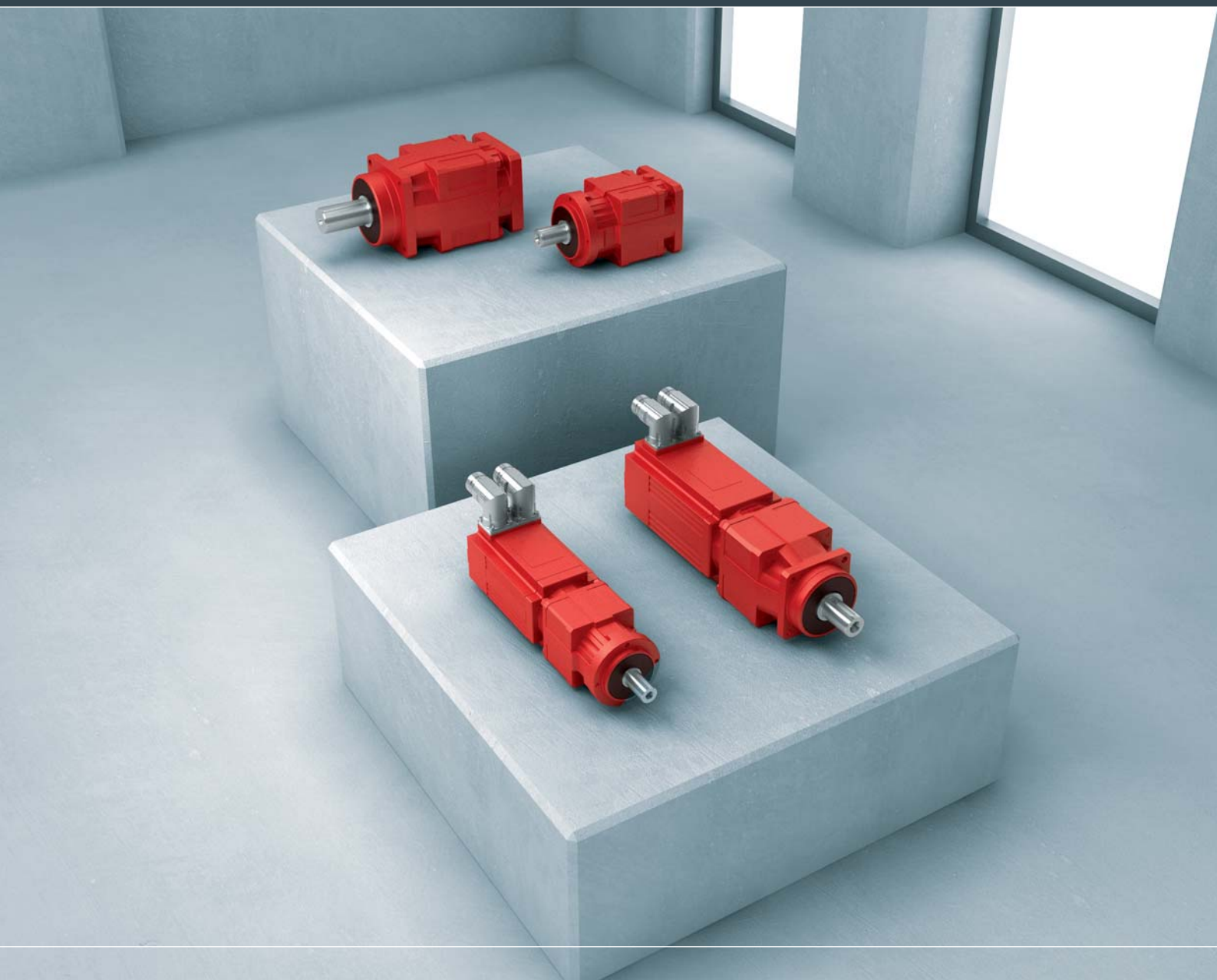


Cost-effectiveness, flexibility, and high power density
**The new PSC low backlash
servo planetary gear units**



Select the optimum drive for each application from a multitude of synchronous servo gearmotors

Differing or reduced machine performance often entails an adaptation of the required drive technology. Even so, the highest possible degree of flexibility and cost-effectiveness is to be ensured for the installed products. The new PSC “competitive” low backlash planetary gear units were developed to fulfill these requirements.

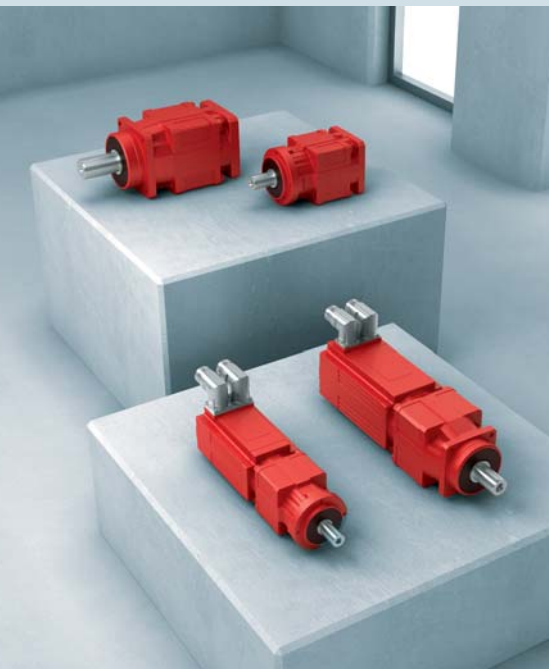
Here, too, the tried and tested modular principle enables a direct combination of planetary gear units and synchronous servomotors. The new PSC planetary servo gear units are connected directly and without adapter to the dynamic synchronous servomotors of the DS, CM or CMP series from SEW-EURODRIVE.

The smaller and more lightweight drives make for a compact design of the system. Most importantly, each application is safer thanks to the completely positive connection in the driveline, and there is no longer a risk that non-positive connections could become loose.

In comparison with a corresponding drive with adapter, the servo gearmotor in direct mounting offers major advantages.

Elimination of the adapter makes the entire drive:

- completely positive
- lighter
- more cost-effective
- more torsionally rigid
- shorter
- more compact
- more dynamic
- less mass moment of inertia



The PSC gear unit series at a glance

In combination with servomotors, the new PSC planetary servo gear unit series is the basis for a variety of options to realize flexible, dynamic, and, most of all, cost-effective drive solutions in coaxial design with a small unit volume and high power density.

- High permitted torques and overhung loads
- High efficiency levels

- Extremely high level of reliability, availability and a long service life
- Constant circumferential backlash
- Lifetime lubrication
- Synthetic lubricants
- Either oil or grease lubrication
- Any mounting position
- Surface protection OS1 to OS4

The B5 output variants of the gear unit series are compatible with the successful, well-known PSF planetary servo gear unit series. One application can thus be equipped with different performance grades, with corresponding costs on the customer's side (LOW INVEST). Design modifications of the machine by the customer

are not necessary. The same applies, of course, to the PSC output in B14 design, which is equally compatible with the well-established PSE series.

Another focal point, next to cost-effectiveness, is the flexibility of the system with respect to motor

mounting. In addition to the SEW-EURODRIVE motor direct mounting to the PSC gear units, synchronous servomotors can also be mounted with an adapter (ECH adapter). Many common motor types can so be mounted to the PSC gear units.

Technical data

Size	Torque M_N [Nm]	Gear ratios		Circumf. Backlash [']
		1-stage [i]	2-stage [i]	
PSC 221	30	3, 5, 7, 10		10-15
PSC 222			15, 21, 25, 30, 35, 49, 50, 70, 100	
PSC 321	65	3, 5, 7, 10		
PSC 322			15, 21, 25, 30, 35, 49, 50, 70, 100	
PSC 521	160	3, 5, 7, 10		
PSC 522			15, 21, 25, 30, 35, 49, 50, 70, 100	
PSC 621	330	5, 7, 10		
PSC 622			25, 35, 49, 50, 70, 100	

M_N = Rated torque

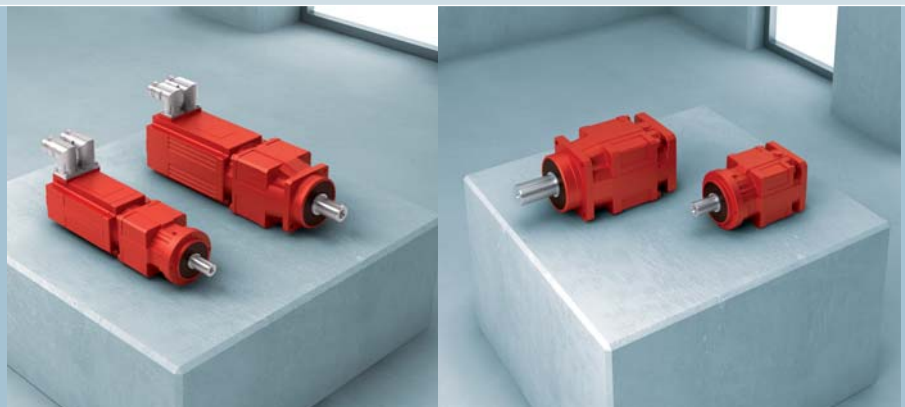
Designs

PSC = B5 output, smooth output shaft

PSKC = B5 output, with keyway

PSC/Z = B14 output, smooth shaft

PSKC/Z = B14 output, with keyway



How we're driving the world

With people who think fast and develop the future with you.

With a worldwide service network that is always close at hand.

With drives and controls that automatically improve your productivity.

With comprehensive knowledge in virtually every branch of industry today.

With uncompromising quality that reduces the cost and complexity of daily operations.



SEW-EURODRIVE
Driving the world

With a global presence that offers responsive and reliable solutions. Anywhere.

With innovative technology that solves tomorrow's problems today.

With online information and software updates, via the Internet, available around the clock.

SEW-EURODRIVE is right there for you:

Argentina
Phone +54 3327 4572-84
Fax +54 3327 4572-21
sewar@sew-eurodrive.com.ar

Australia
Phone +61 3 9933-1000
Fax +61 3 9933-1003
enquires@sew-eurodrive.com.au

Austria
Phone +43 1 617 55 00-0
Fax +43 1 617 55 00-30
sew@sew-eurodrive.at

Belgium
Phone +32 10 231-311
Fax +32 10 231-336
info@sew.be

Brazil
Phone +55 11 6489-9133
Fax +55 11 6480-3328
sew@sew.com.br

Canada
Phone +1 905 791-1553
Fax +1 905 791-2999
l.reynolds@sew-eurodrive.ca

Chile
Phone +56 2 75770-00
Fax +56 2 75770-01
ventas@sew-eurodrive.cl

China
Phone +86 22 25322612
Fax +86 22 25322611
gm-tianjin@sew-eurodrive.cn

Colombia
Phone +57 1 54750-50
Fax +57 1 54750-44
sewcol@sew-eurodrive.com.co

Czech Republic
Phone +420 220121234
Fax +420 220121237
sew@sew-eurodrive.cz

Denmark
Phone +45 43 9585-00
Fax +45 43 9585-09
sew@sew-eurodrive.dk

Finland
Phone +358 201 589 300
Fax +358 3 7806-211
sew@sew.fi

France
Phone +33 3 88 73 67 00
Fax +33 3 88 73 66 00
sew@usocome.com

Great Britain
Phone +44 1924 893-855
Fax +44 1924 893-702
info@sew-eurodrive.co.uk

Hong Kong
Phone +852 2 7960477
Fax +852 2 7959129
contact@sew-eurodrive.hk

Hungary
Phone +36 1 437 06-58
Fax +36 1 437 06-50
office@sew-eurodrive.hu

India
Phone +91 265 2831086
Fax +91 265 2831087
mdoffice@seweurodriveindia.com

Italy
Phone +39 02 96 9801
Fax +39 02 96 799781
sewit@sew-eurodrive.it

Japan
Phone +81 538 373811
Fax +81 538 373814
sewjapan@sew-eurodrive.co.jp

Malaysia
Phone +60 7 3549409
Fax +60 7 3541404
sales@sew-eurodrive.com.my

Mexico
Phone +52 442 1030-300
Fax +52 442 1030-301
scmexico@seweurodrive.com.mx

Netherlands
Phone +31 10 4463-700
Fax +31 10 4155-552
info@vector.nu

New Zealand
Phone +64 9 2745627
Fax +64 9 2740165
sales@sew-eurodrive.co.nz

Norway
Phone +47 69 241-020
Fax +47 69 241-040
sew@sew-eurodrive.no

Peru
Phone +51 1 3495280
Fax +51 1 3493002
sewperu@sew-eurodrive.com.pe

Poland
Phone +48 42 67710-90
Fax +48 42 67710-99
sew@sew-eurodrive.pl

Portugal
Phone +351 231 20 9670
Fax +351 231 20 3685
infosew@sew-eurodrive.pt

Russia
Phone +7 812 3332522
Fax +7 812 3332523
sew@sew-eurodrive.ru

Singapore
Phone +65 68621701
Fax +65 68612827
sewsingapore@sew-eurodrive.com

Slovakia
Phone +421 2 49595201
Fax +421 2 49595200
sew@sew-eurodrive.sk

South Africa
Phone +27 11 248-7000
Fax +27 11 494-3104
dross@sew.co.za

South Korea
Phone +82 31 492-8051
Fax +82 31 492-8056
master@sew-korea.co.kr

Spain
Phone +34 9 4431 84-70
Fax +34 9 4431 84-71
sew.spain@sew-eurodrive.es

Sweden
Phone +46 36 3442-00
Fax +46 36 3442-80
info@sew-eurodrive.se

Switzerland
Phone +41 61 41717-17
Fax +41 61 41717-00
info@imhof-sew.ch

Thailand
Phone +66 38 454281
Fax +66 38 454288
sewthailand@sew-eurodrive.com

Turkey
Phone +90 216 4419163
Fax +90 216 3055867
sew@sew-eurodrive.com.tr

Ukraine
Phone +380 56 3703211
Fax +380 56 3722078
sew@sew-eurodrive.ua

USA
Phone +1 864 439-7537
Fax +1 864 439-0566
cslyman@seweurodrive.com

Venezuela
Phone +58 241 832-9804
Fax +58 241 838-6275
sewventas@cantv.net

**SEW
EURODRIVE**

SEW-EURODRIVE GmbH & Co KG
P.O.Box 30 23
D-76642 Bruchsal/Germany
Phone +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com

→ www.sew-eurodrive.com