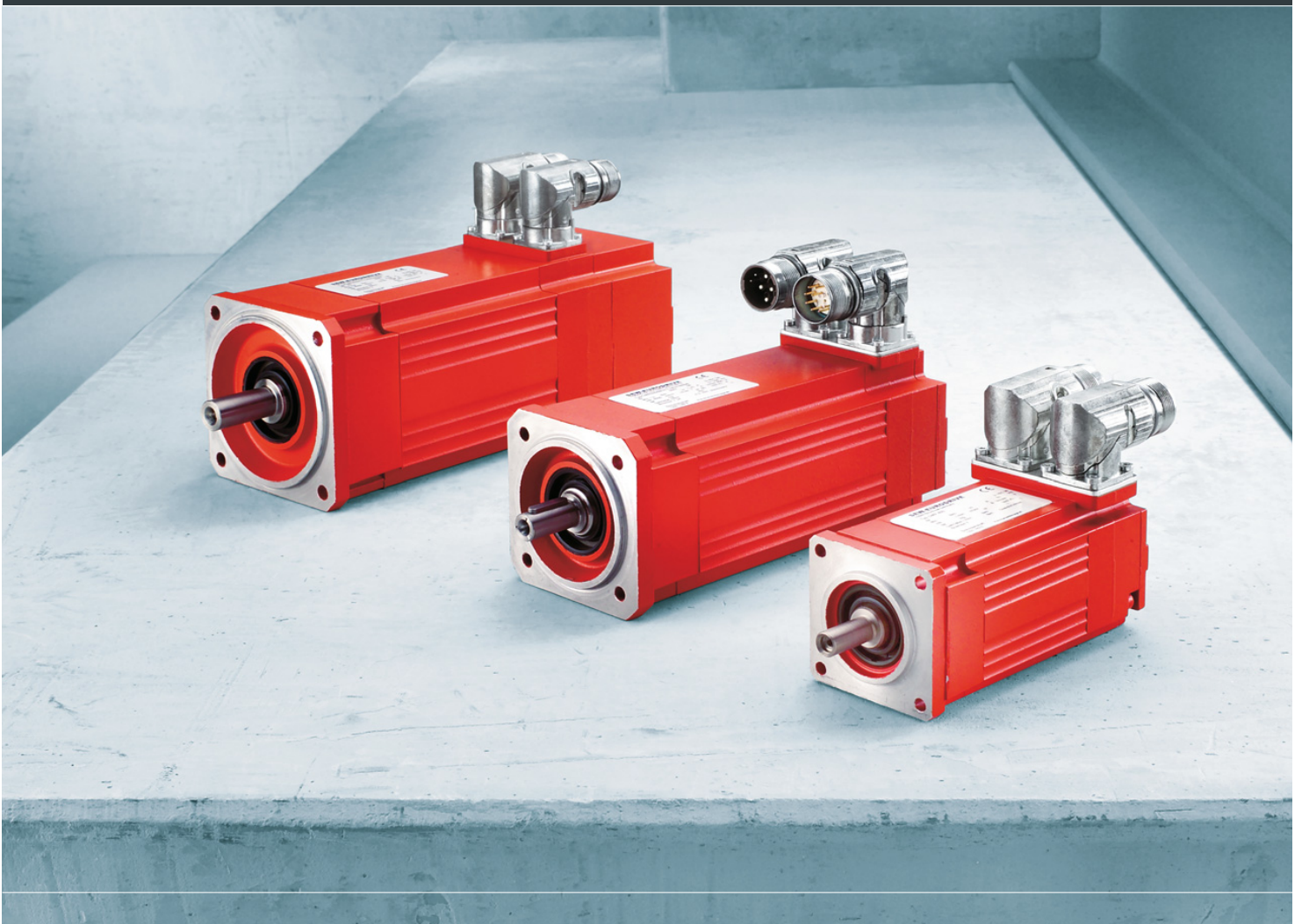




Dynamic, precise and quiet  
**CMP servomotors**

Servomotors





## Dynamic, precise and quiet

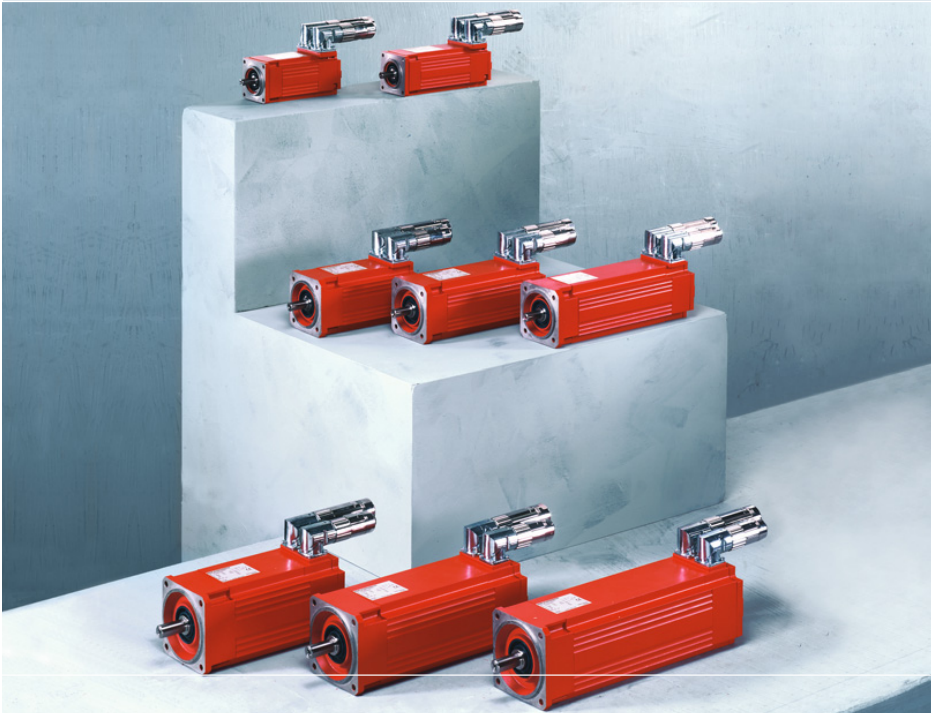
The highest dynamics, precision and maximum torques in a very compact design – these are the defining characteristics of the new CMP servomotors. These new servomotors offer a high level of reliability to create economical solutions. In combination with MOVIDRIVE® drive inverters and MOVIAXIS® multi-axis servo drives, they result in an optimum drive system “made by SEW-EURODRIVE.”

Servomotors in the CMP series complete the range of servomotors from SEW-EURODRIVE in the lower torque range: 7.1 Nm to 0.5 Nm. Available in three motor sizes, CMP servomotors offer a bearing service life of up to 25,000 hours and an appropriately high overhung load capacity that can make them into workhorses when operated at rated speeds of 3,000 and 6,000 min<sup>-1</sup>. Their innovative design with the latest in winding

and magnet technology offers a motor system with high dynamics, low operating noise and the best control characteristics in the smallest space. The cast stator protects the motor against vibrations and humidity.

### Overview of CMP servomotor advantages

- Highest dynamic characteristics
- Compact, powerful design
- Low mass moment of inertia
- High overload capacity, at least 4 x standstill torque
- High concentricity properties
- Reduced vibration severity grade “R” as standard
- Very quiet at all speeds, between 55 and 75 dBA
- Available as brake servomotor with 24 V holding brake
- Direct mounting of planetary servo gear units or helical-bevel servo gear units from SEW-EURODRIVE
- Input pinions of the gear units are connected to the standard motor shafts of the servomotors directly, without clearance and in a positive connection
- CMP50 and CMP63 available with optional 24 V forced cooling fan
- Meets  and  standards



## CMP servomotors

Type	Speed [min <sup>-1</sup> ]	M <sub>0</sub> [Nm]	M <sub>0</sub> /VR [Nm]	M <sub>max</sub> [Nm]	J <sub>mot</sub> [kgcm <sup>2</sup> ]	M <sub>Brake</sub> [Nm]
CMP40S	3000/4500/6000	0.5	–	1.9	0.10	0.95
CMP40M	3000/4500/6000	0.8	–	3.8	0.15	0.95
CMP50S	3000/4500/6000	1.3	1.7	5.2	0.42	3.1
CMP50M	3000/4500/6000	2.4	3.5	10.3	0.67	4.3
CMP50L	3000/4500/6000	3.3	4.8	15.4	0.92	4.3
CMP63S	3000/4500/6000	2.9	4.0	11.1	1.15	7.0
CMP63M	3000/4500/6000	5.3	7.5	21.4	1.92	9.3
CMP63L	3000/4500/6000	7.1	10.3	30.4	2.69	9.3

## Operating conditions

Ambient temperature [°C]	– 20 ... + 40 * (for Resolver and HIPERFACE®-motors)
Installation height [m above sea level]	up to 1,000 *
Enclosure	IP65
Thermal classification	F
Feedback system	Resolver – optional with HIPERFACE® absolute encoder
Thermal motor protection	KTY
Bearing service life	L10h up to 25,000 hours

\* Note derating information in case maximum values are exceeded

### Drive solutions with system – for more functions and efficiency in any system:



- Intelligent MOVIDRIVE® drive inverter with integrated IPOS<sup>plus</sup>® positioning and sequence control
- MOVIAxis® multi-axis servo drive
- MOVITools® MotionStudio operating software with startup and SCOPE functions and programming editors
- PLC functions with MOVI-PLC® controllers
- Parameter setting instead of programming:  
Application modules and technology functions
- Prefabricated servo cables
- Engineering support
- After sales support
- CAD files for all motors
- Comprehensive technical documentation