

The Right Drive for Every Application

**Synchronous Servo Gearmotors
CMP 40 - 112 and CMPZ 71 - 100**



The basis for a successful automation solution: The tried and tested CMP servo gearmotor



Labeling or sealing tasks in the food and beverage industry with 1,200 cycles per minute or stacking heavy loads weighing 1,200 kg in the construction, automotive or timber industry – almost always, there is a CMP servomotor from SEW-EURODRIVE behind it. These servomotors are available in seven sizes (40, 50, 63, 71, 80, 100, and 112) and cover the range up to a peak torque of 320 Nm.



The new size 112 has been available since April 2013 in five different frame lengths. It complements the CMP motor series in the upper power range. It is optionally available with a BY holding brake with increased working capacity.

Overview of the CMP servomotor series

Together with standard or servo gear units, MOVIAXIS® multi-axis servo inverters and MOVIDRIVE® inverters, prefabricated cables, controllers, and operator terminals from the modular SEW-EURODRIVE concept, a complete system is available for your automation solution.

- Very compact, convection-cooled motor
- This motor can be mounted directly with a positive connection to helical gear units [R], parallel-shaft helical [F], helical-bevel [K], helical-worm [S] and SPIROPLAN® gear units [W] as well as to low backlash planetary [PS.F and PS.C] and hypoid right-angle gear units [BS.F]
- Choice of highest dynamics or designed for heavy loads
- The formula $M = J \times \alpha$ has had a decisive influence on the construction of motors. The CMP series achieves high angular accelerations using very little energy. The CMPZ has the required intrinsic inertia for heavy loads and minimizes churning losses and gear unit ratios.
- Resolver, or scalable Hiperface® encoder with electronic nameplate as an option
- A new freedom to select the brake that matches the travel cycle and the application. Two different brake systems with scalable braking torque and a manual brake release option. The brake with a high working capacity is reliable and durable even in case of continuous braking work.
- Compliance with  and  standards
- Compliance with ATEX II3GD (in preparation for CMP 71 – 100)
- Highest level of reliability, availability, and durability





Overview of technical data

Type	Rated speed [rpm]	M_0 [Nm]	M_{pk} [Nm]	J_{mot} [kgcm ²]	
				CMP	CMPZ
CMP40S	3000 / 4500 / 6000	0.5	1.9	0.10	-
CMP40M	3000 / 4500 / 6000	0.8	3.8	0.15	-
CMP50S	3000 / 4500 / 6000	1.3	5.2	0.42	-
CMP50M	3000 / 4500 / 6000	2.4	10.3	0.67	-
CMP50L	3000 / 4500 / 6000	3.3	15.4	0.92	-
CMP63S	3000 / 4500 / 6000	2.9	11.1	1.15	-
CMP63M	3000 / 4500 / 6000	5.3	21.4	1.92	-
CMP63L	3000 / 4500 / 6000	7.1	30.4	2.69	-
CMP71S / CMPZ71S	2000 / 3000 / 4500 / 6000	6.4	19.2	3.1	9.3
CMP71M / CMPZ71M	2000 / 3000 / 4500 / 6000	9.4	30.8	4.1	10.4
CMP71L / CMPZ71L	2000 / 3000 / 4500 / 6000	13.1	46.9	6.1	12.5
CMP80S / CMPZ80S	2000 / 3000 / 4500 / 6000	13.4	42.1	8.8	27.2
CMP80M / CMPZ80M	2000 / 3000 / 4500 / 6000	18.7	62.6	11.9	30.3
CMP80L / CMPZ80L	2000 / 3000 / 4500 / 6000	27.5	107.0	18.1	36.5
CMP100S / CMPZ100S	2000 / 3000 / 4500	25.5	68.3	19.3	79.8
CMP100M / CMPZ100M	2000 / 3000 / 4500	31.0	108.0	26.2	86.7
CMP100L / CMPZ100L	2000 / 3000 / 4500	47.0	178.8	40.0	100.4
CMP112S	2000 / 3000 / 4500	30	88	74	-
CMP112M	2000 / 3000 / 4500	45	136	103	-
CMP112L	2000 / 3000 / 4500	69	225	163	-
CMP112H	2000 / 3000 / 4500	83	270	193	-
CMP112E*	2000 / 3000 / 4500	95	320	222	-

* In preparation

Overview of benefits

- Quick and reliable project planning for all system components with SEW Workbench
- Motor mounted to the gear unit and prefabricated cables for quick installation
- Electronic nameplate for quick and simple startup
- Low-inertia rotor of the CMP minimizes the percentage of energy required for motor acceleration
- Highly flexible speed and torque matching due to numerous mounting options to gear units
- Powerful rotor of the CMPZ controls even extreme loads stiffly, safely and accurately
- Finely scaled and stepped motor range with 31 levels
- Powerful spring-loaded brake with working capacity suitable for hoist axes
- Can be used worldwide with  and 
- Quick support by global assembly centers



Driving the world – with innovative drive solutions for all branches of industry and for every application. Products and systems from SEW-EURODRIVE for any application – worldwide. SEW-EURODRIVE products can be found in a variety of industries, e.g. automotive, building materials, food and beverage as well as metal-processing. The decision to use drive technology “made by SEW-EURODRIVE” stands for safety regarding functionality and investment.

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