

CMS50S

Overview of the features:

- Integrated ball screw drive
- Smooth lifting rod for special requirements at corresponding ambient conditions, such as humidity or dust
- Integrated locking element for lifting rod (torque arm)
- Available as brake servomotor with 24 V holding brake
- Resolver feedback or optional with HIPERFACE® encoder
- Optional 24 V forced cooling fan
- Various installation options



CMS50S electric cylinder



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

1153 3811 / 0807

Optimized processes through dynamics, power, and compact design

Electric cylinders of CMS series

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.

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Electric cylinders of CMS series

Applications with linear movement place high demands on the travel profile. Conventional solutions consisting of pneumatic and hydraulic cylinders will quickly reach their system limits concerning performance. Connecting electric cylinders to the inverters from SEW-EURODRIVE results in intelligent drive systems offering a high degree of flexibility, e.g. for positioning, and in new options for programming, power control and diagnostic functions. These translate into new and reliable concepts that can be integrated into a variety of production processes.

The electric cylinders of the CMS series are precise, powerful and fast. Combined with drive electronics from SEW-EURODRIVE, an economical and energy-efficient drive solution is created that ensures the necessary process safety in system operation and can be easily integrated in existing automation systems, such as folding units and robotic systems. In process engineering and packaging technology, in handling, the print and plastics industry as well as wood processing, the benefits are:

- Reduction of energy costs by eliminating energy inventories
- Careful treatment of mechanical components through controlled accelerations

- Lower maintenance and cleaning effort (no leaking)
- Detection or control of force, velocity, acceleration and position with one drive component
- Automatic diagnostic options
- Intelligent drive system for greater flexibility in the automation processes
- Quick startup: Parameter setting instead of programming by using application modules (= preprogrammed control programs), such as bus positioning.

Overview of benefits:

- Five times faster power increase time than pneumatic cylinder
- Constant power setting
- Setting of different travel profiles possible
- Noise reduction through controlled accelerations
- Reference travel possible without use of initiators (via current measurement)
- Simple integration in automation processes by connection to all commercial bus systems: PROFIBUS, INTERBUS, INTERBUS LWL, DeviceNet, CAN, CANopen

Variants:

- Different spindle pitches for linear velocities (up to 0.5 m/s)
- HIPERFACE® encoder or resolver
- 24 V brake optional
- Either with planetary roller screw drive or ball screw drive
- Numerous mounting options (between bolt/flange)
- Cardan joint
- Option for automatic regreasing during operation

Can be used wherever high demands are placed on the travel profile and more than two positions need to be traveled to, e.g. in process engineering and packaging technology, in handling, in the print and plastics industry as well as in wood processing



Electric cylinders
CMS50S and CMS71L

Mechanical data

Type	CMS50S	CMS71L	
	KGT ¹⁾	KGT ¹⁾	PGT ²⁾
Rated speed [n _n]	3,000 min ⁻¹	2,000 min ⁻¹	
	4,500 min ⁻¹	3,000 min ⁻¹ 4,500 min ⁻¹	
Spindle pitch [mm]	5	10	5
Spindle diameter [mm]	16	32	24
Max. permanent feed force ³⁾ [N]	1,300	4,000	8,000
Peak feed force ⁴⁾ [N]	5,300	17,000	20,000
Rated travel [mm]	70/150/300	200	
		350	

¹⁾ ball screw drive

²⁾ planetary roller screw drive

³⁾ at a speed of 5 ... 50 rpm

⁴⁾ depending on max. amplifier current, dynamic or static load of spindle; please contact SEW-EURODRIVE prior to projecting the maximum force

Electrical data

Type	CMS50S	CMS71L
Rated speed [n _n]	3,000 min ⁻¹	2,000 min ⁻¹
	4,500 min ⁻¹	3,000 min ⁻¹ 4,500 min ⁻¹
Max. torque [Nm]	5.2	31.4
Standstill torque [Nm]	1.3	9.5

CMS71L electric cylinder

