

A Schaeffler Company

Servo lifting columns CPSM



High load capability

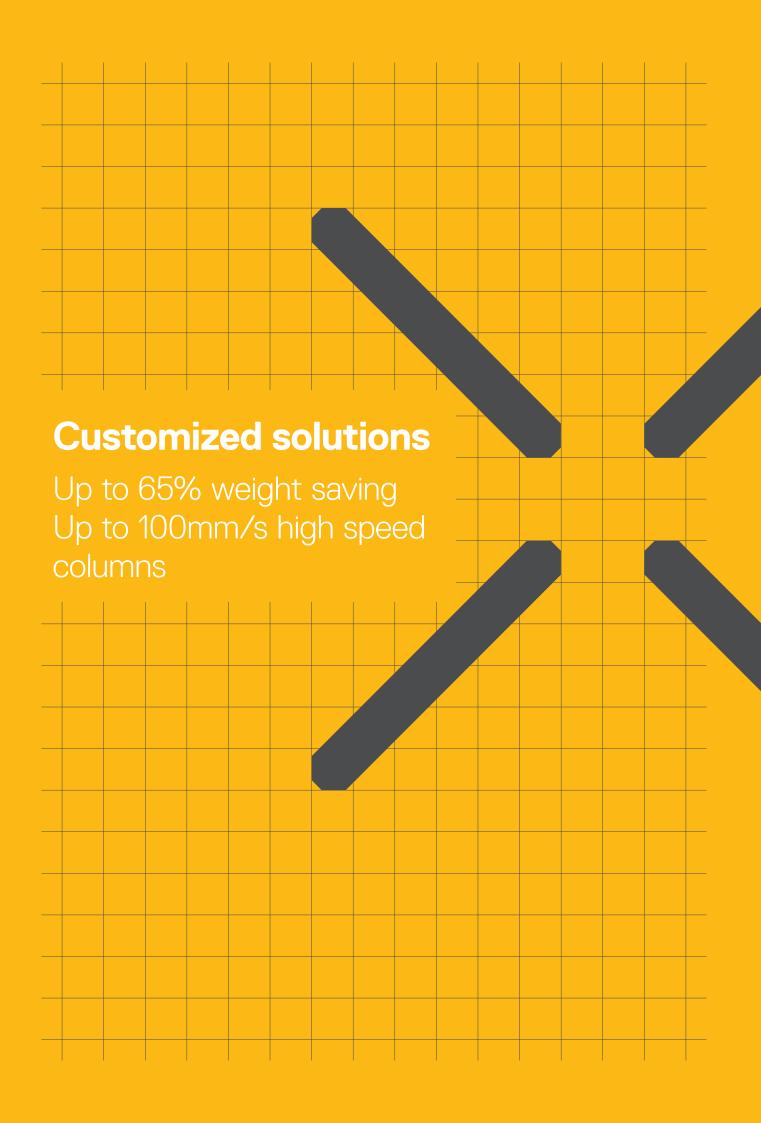


High speed capability



Virtually maintenance free







Servo lifting columns CPSM

Sold & Serviced By:



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Features

- High dynamic servo or brushless DC motor for high speed up to 100 mm/s
- High performance ball screw for high load capacity up to 5 kN
- Extruded alumium proiles for a very robust design
- Manually adjusted gliders for very high stiffness and high excentric loads
- Encoder system of the motor and high quality gearbox enable high positioning accuracy and high repeatability (0,1 mm)

Benefits

- High nominal power of the motor allows for high duty cycle of the column
- Customized motor adapter for highest flexibility (max. motor diameter 90 mm)
- Customized top and bottom plate to fit most of the applications
- Customized aluminum profile colour (anodized) to fit application design needs
- Optional brake to release the motor when it's in position and to increase the duty cycle
- Preloaded bearing arrangement also for ceiling mount applications (only available without damping system)



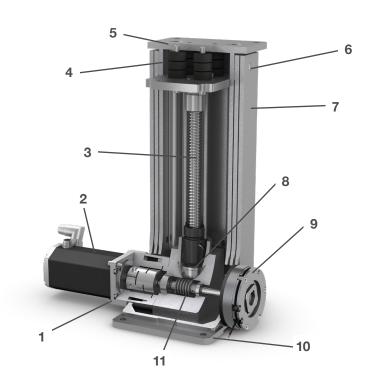
Product description

Lifting columns CPSM are the ideal solution to combine strong guiding functions with linear movements.

The robust, manually adjusted and virtually backlash-free aluminum extrusions are able to carry high excentric loads in push and pull directions.

To provide enough power to lift and lower heavy weights with high speed, the column are equipped with brushless DC or servo motors. Of course, Ewellix also supports the usage of preferred motors with a customizable motor interface.

Optional brakes and damping elements are key features that allow an effective usage in heavy duty industrial applications.



- 1. Standard or customized motor interface
- 2. Motor (Brushless DC or servo AC)
- 3. High eficiency ball screw
- 4. Optional damping system
- 5. Customized top plate
- 6. Backlash-free long lasting guiding pads
- 7. 2 or 3 section extruded aluminum guiding tubes
- 8. Preloaded bearing arrangement
- 9. Optional electromechanical brake
- 10. Customized bottom plate
- 11. Low friction worm gear reduction

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CPSM

Servo lifting columns



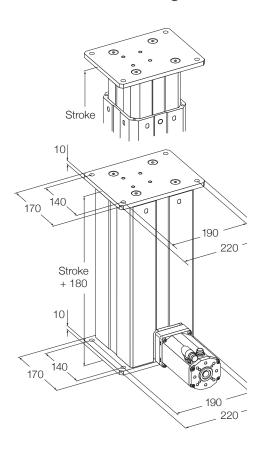
Technical data

Designation	Symbol	Unit	BN	BF
	Оуппоот			
Performance Data				
Dynamic load capacity	С	kN	24,1	22,8
Holding torque (external brake option)	T _{hold-EB}	Nm	12	12
Max. linear speed	V _{max}	mm/s	100	200
Max. acceleration	a _{max}	m/s²	6	6
Duty cycle	D	%	100	100
Mechanical Data				
Screw type	_	-	Ball screw	Ball screw
Screw diameter	d _{screw}	mm	25	25
Screw lead	p _{screw}	mm	10	20
Lead accuracy	_	-	G7	G7
Stroke 1)	S	mm	100700	100700
Internal overstroke each side	S ₀	mm	1	1
Gear reduction	i	-	5 or 10	5 or 10
Environment				
Ambient temperature	Tambient	°C	0+50	0+50
Max. humidity	ф	%	95	95

¹⁾ By 100 mm steps

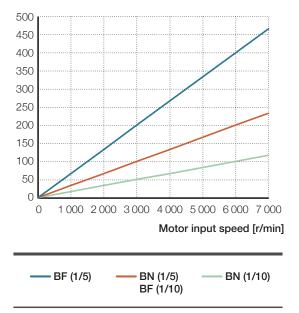


Dimensional drawing



Performance diagram

Pillar output speed [mm/s]

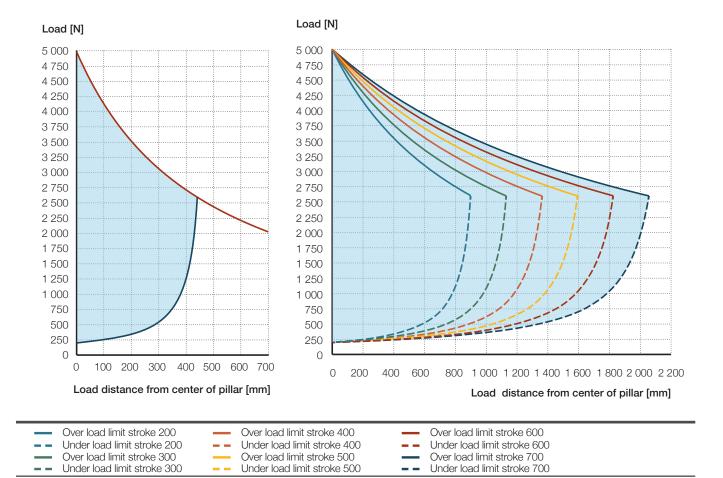


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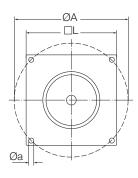
Performance diagrams

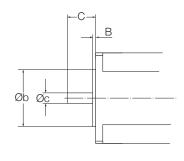




Adapter for third-party motors

In order to attach your preferred motor to the column, Ewellix offers tailormadesolutions within the specifications below. For motor specifications which are not covered by those below, please contact Ewellix.





Designation	Symbol	Unit	Min.	Max.	
Motor housing		mm	60	95	
Motor centering	Øb	mm	47	95	
Centering height	В	mm	1	5	
Fixing diameter	ØA	mm	52	103	
Shaft diameter	Øc	mm	11	19	
Shaft lenght	С	mm	15	48	

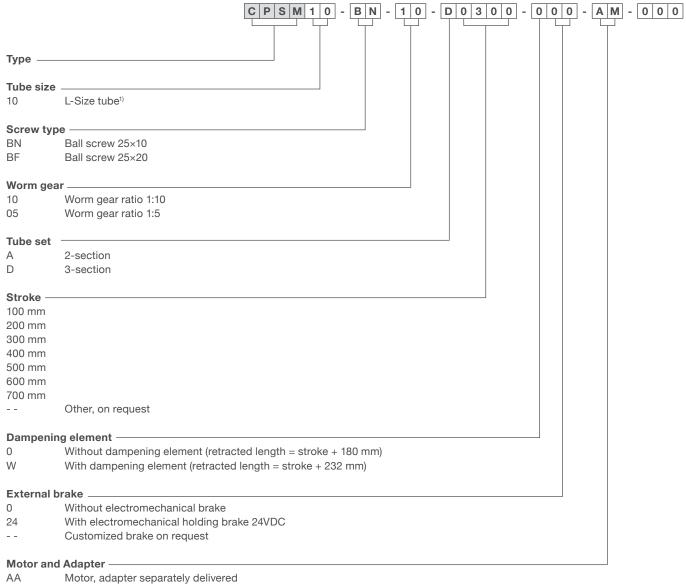
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Ordering key

Linear units



 AM Motor, adapter mounted

 $^{1)}3\text{-}$ sections: \square 163 mm / 2-sections: \square 146 m

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