SKF Telescopic pillar

For medical procedure equipment – series CPMT

Benefits

- Low retracted height
- High stroke
- High load capacity
- High safety and reliability
- Design flexibility

Standards

- IEC 60601-1:2005
- ANSI/AAMI ES60601-1:2005
- IEC 60601-1-2:2007

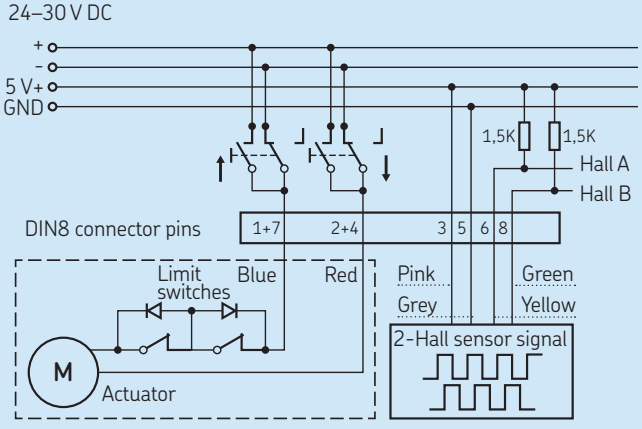
Suitable control units and operating devices

	SCU 1	SCU 5	SCU 9	VCU 5	VCU 8	VCU 9	BCU 5*	BCU 8*
CPMT	●	●	●	●	●	●	●	●
EHA	●	●	●	●	●	●	●	●
STJ	●	●	●	●	●	●	●	●

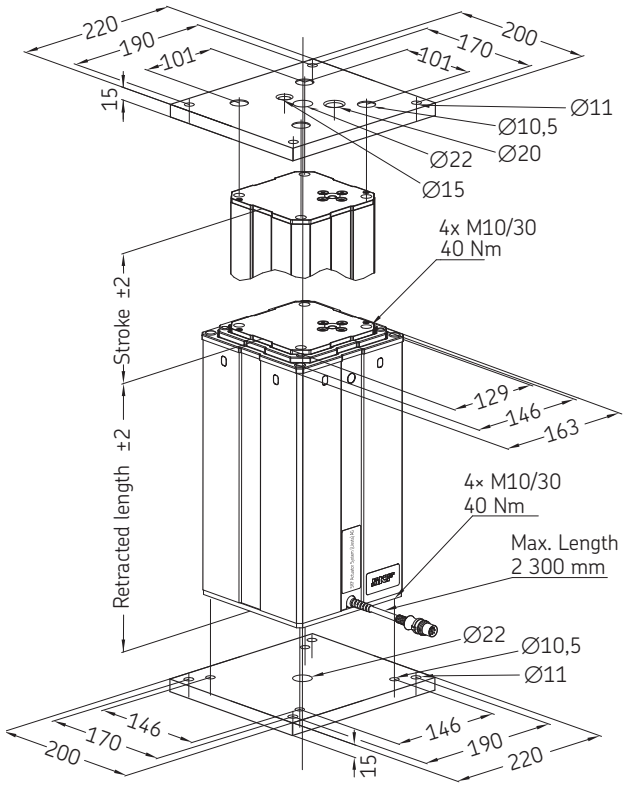
Hand switch
Foot switch

* Reduced load capacity:
CPMT1-1 up to 3 000 N
CPMT1-2 up to 4 000 N

Connecting diagram



Dimensional drawing

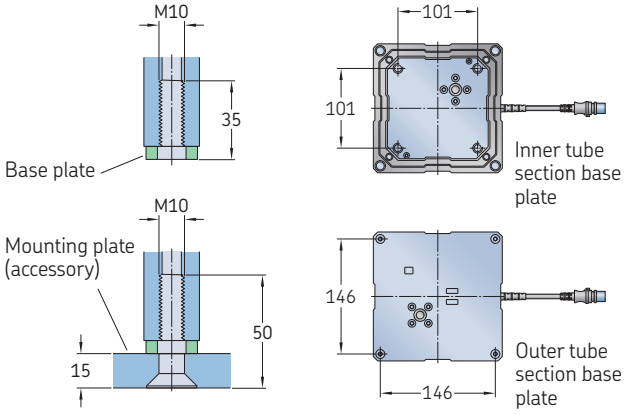


Technical data

	Unit	CPMT1-1S	CPMT1-1M	CPMT1-2S	CPMT1-2M
Rated push load	N	5 000	5 000	6 000	6 000
Rated pull load	N	4 000	4 000	4 000	4 000
Static load (push)[1)]	N	15 000	15 000	15 000	15 000
Safety factor on rated load[2)]		4	4	4	4
Dynamic bending moment	Nm	up to 450[3)]	up to 1 200[3)]	up to 550[3)]	up to 1 400[3)]
Static bending moment (max.)	Nm	1 000	3 000	1 000	3 000
Retracted length	mm	stroke/2 + 120 mm	stroke/2 + 240 mm	stroke/2 + 120 mm	stroke/2 + 240 mm
Stroke (S)	mm	400 to 600	300 to 600	400 to 600	300 to 600
Speed	mm/s	14 to 34	14 to 34	12 to 26	12 to 26
Voltage	V DC	24 to 30	24 to 30	24 to 30	24 to 30
Current (push, max.)	A	12	12	10	10
Current (pull, max.)	A	10	10	7	7
Duty cycle	on/off	1 min./9 min.	1 min./9 min.	1 min./9 min.	1 min./9 min.
Ambient temperature	°C	+10 to +40	+10 to +40	+10 to +40	+10 to +40
IP protection		20	20	20	20
Weight	kg	16,5 to 20	19 to 23,5	16,5 to 20	19 to 23,5

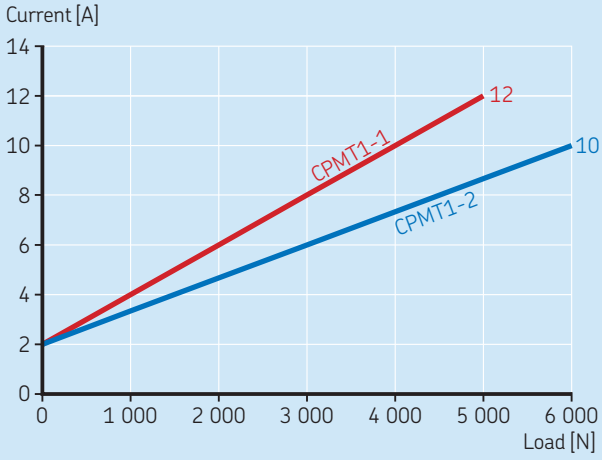
1) Compliant with static load according to IEC 60601-2-46:2010
2) Static tensile safety factor to prevent mechanical hazard according to IEC 60601-1:2005
3) For details, see offset load diagrams

Mounting details

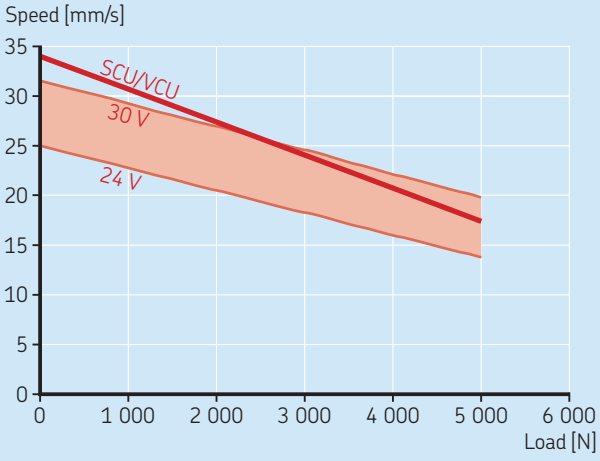


The pillar must be mounted on a plane and rigid surface by 4 screws M10 (accessory) with a screw in depth of 25 to 35 mm in the pillar.

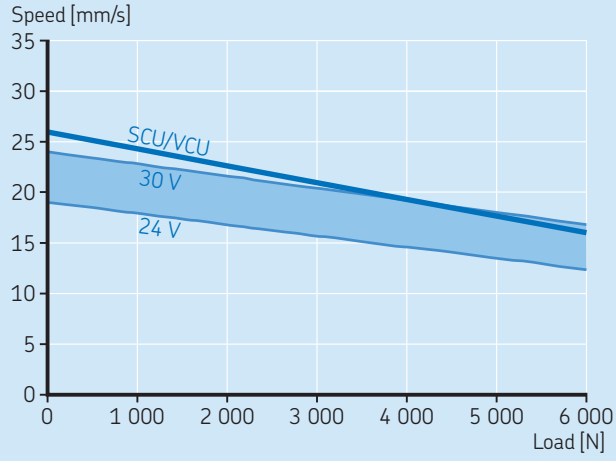
Current diagram



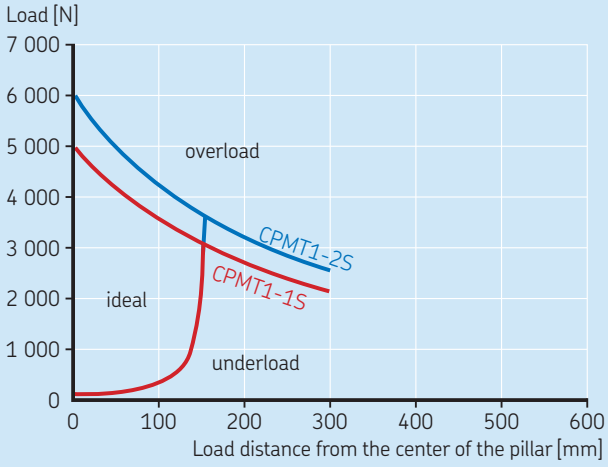
Speed-load diagram
CPMT1-1



CPMT1-2

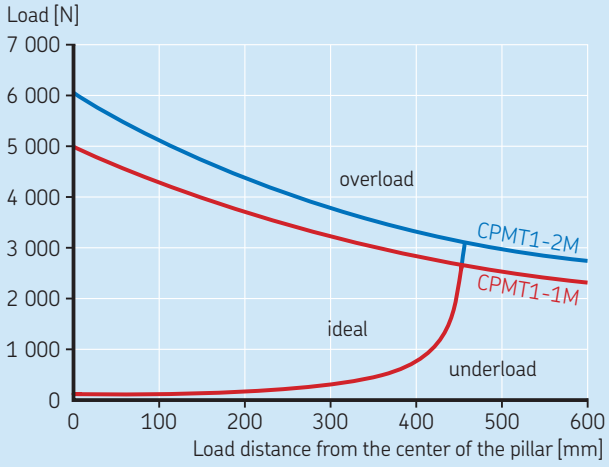


Offset load diagram
CPMT1-1S, -2S



Offset load at full extension

CPMT1-1M, -2M



Offset load at full extension

Type key

CPMT 1 – _ _ 0 _ _ _ _ _ – 0 0 0

Type

Voltage

24–30 V DC	1

Load

Push (N)	Pull (N)	
5 000	4 000	1
6 000	4 000	2

Retracted length

Stroke/2 + 120 mm	S
Stroke/2 + 240 mm	M

Stroke length (mm)

300	Only for retracted length M
350	Only for retracted length M
400	
450	
500	
550	
600	
Other	per 10 mm from 300 mm (or 400 mm for retracted length S) to 600 mm

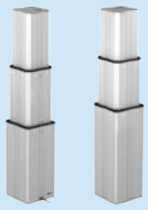
Electrical options

2-Hall encoder, end limit switches	F

Cable options

1 m DIN8 cable	1
2,3 m DIN8 cable	2
2,3 m flying leads cable	3

Configuration options



Option S Option M

DIN8 or flying leads cable for connector flexibility

Additional attachment options

Optional threads on outer tube section can be configured for additional attachment options. Please contact SKF for more details.

- Choice in size and position
- High strength to support attached actuators

Accessories

Description	Part number
Control Unit SCU (3 or 6 ports)	SCUXX-003XXX-000
Control Unit VCU (3 or 5 ports)	VCUXX-003XX0-000
Control Unit BCU (3 ports)	BCUX3-XX3100-0000
Foot switch STJ (1-3 channels)	STJ0X-XXXXXX-XX00
Hand switch EHA3 (1-5 channels)	EHA3X-23MXXN-000

Accessories

Description	Part number
Top mounting plate	SPL-290268
Bottom mounting plate	SPL-290265
Screw (4/plate) for mounting plate	ZBE-510707

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