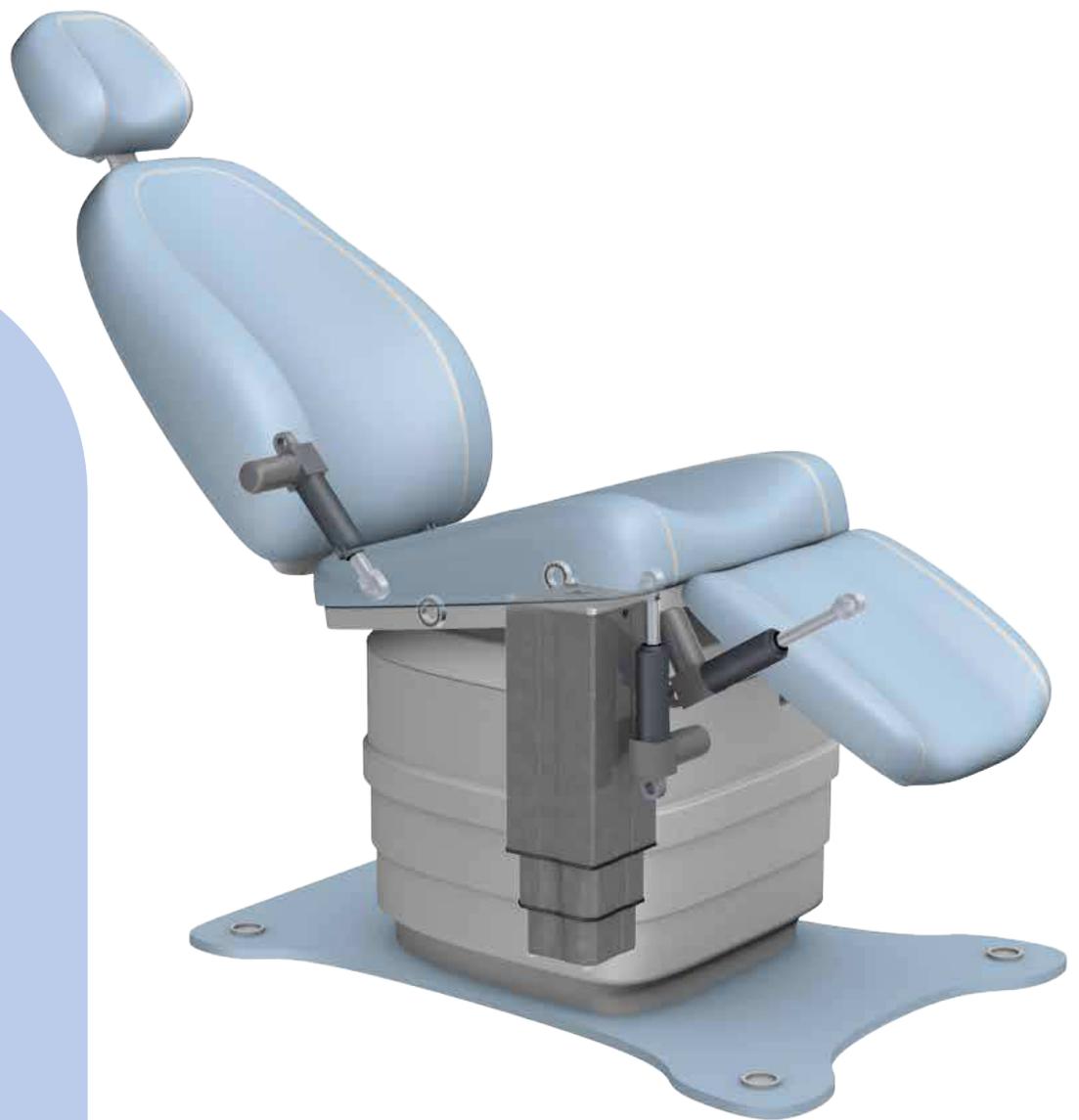


Telescopic pillar for medical procedure equipment

Improving patient accessibility and lifting performance





Performance benefits

- Better accessibility for patients
- More positioning flexibility for healthcare providers
- High load capacity to support higher patient weights
- Increased speed and positioning for greater clinical efficiency
- High stability and thus increased safety for all medical procedures
- Virtually maintenance-free

Design benefits

- Tested reliability at typical equipment load and lifetime
- High degree of design flexibility
- Complete plug-and-play solution
- Worldwide service and support
- IEC 60601-1:2005 (UL certified)

Applications

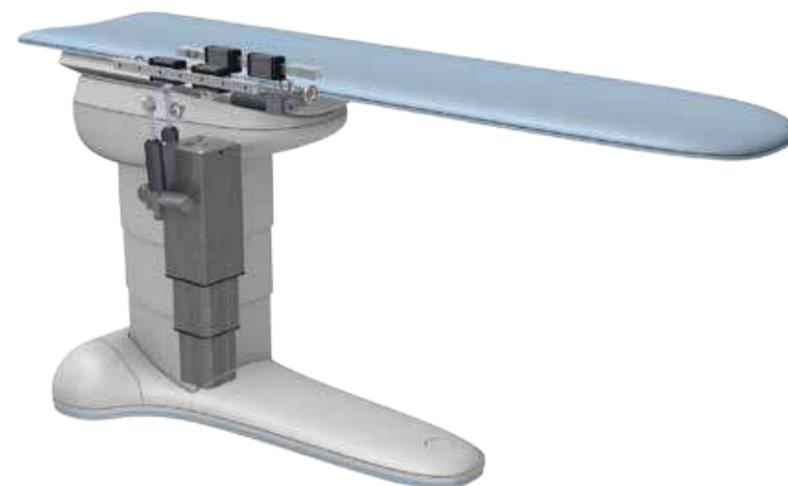
- Surgical or operating tables
- Procedure or examination chairs
- Mobile C-arm imaging tables



Meeting performance and market demands

The demographic trends of an aging, and increasingly obese population present new performance challenges for medical equipment. To meet these challenges, medical facilities need procedure equipment with lower patient entry heights, greater operator flexibility and increased load capacity. Faster positioning speeds are required to improve patient throughput.

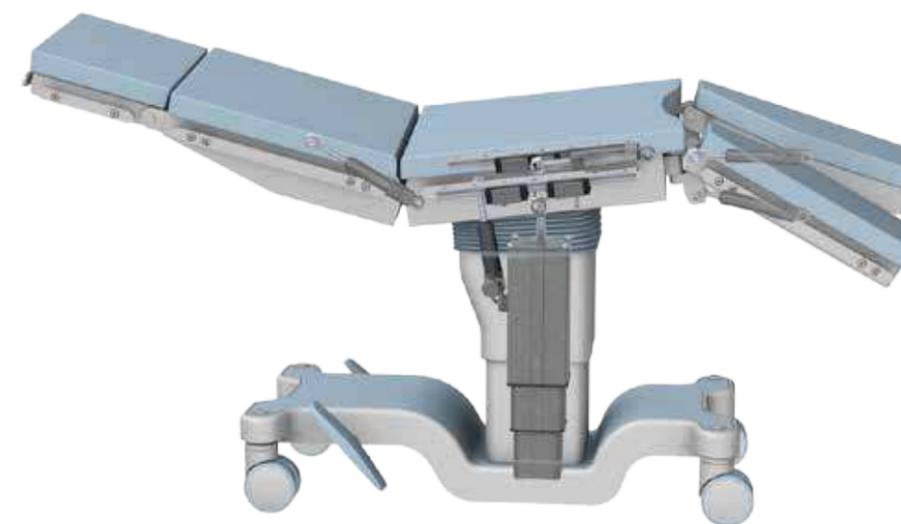
The SKF Telescopic pillar for medical procedure equipment – series CPMT offers equipment manufacturers a solution to meet these challenges. Combining low installation height with high lifting range and high load capacity, the series CPMT pillar provides stiff, reliable and safe performance for surgical tables, procedure chairs and mobile C-arm imaging tables.



Robust functionality and reliability

The series CPMT pillar is a three-section telescopic pillar featuring very low retracted height and high stroke range. The combination provides improved accessibility for patients without compromising total extended height for clinical procedures. To support clinical efficiency, the series CPMT pillar offers high positioning speeds and the ability to access pre-set positions.

The series CPMT pillar also meets load capacity requirements for bariatric surgery equipment, enabling table designs that can handle patient weights up to 450 kg (1 000 lbs.), including a static overload safety that complies with surgical regulatory requirements. Its reliability has been tested to support the load of a typical medical procedure equipment operation virtually maintenance-free over its lifecycle.



Wide degree of design flexibility

The series CPMT pillar lets manufacturers configure a solution to best meet their application requirements.

Two standard retracted height options enable configurations with optimized offset load capacity. Optional threads on the outer section provide direct mounting options for additional actuators or brackets.

The series CPMT pillar is available as a ready-to-install system with UL certified SKF controllers and operating devices, or with an optional flying leads cable for seamless integration with third party controllers while maintaining UL certification.

Faster development and global support

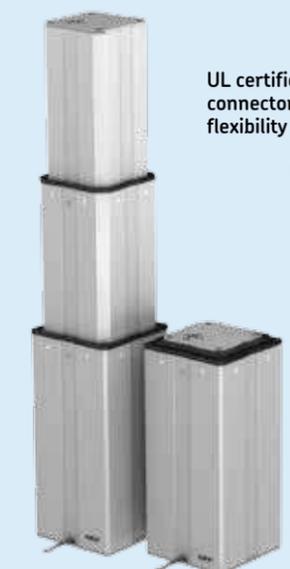
The series CPMT pillar features plug-and-play installation for simplified assembly resulting in reduced manufacturing costs. Fully tested and UL certified according to IEC 60601-1:2005, the CPMT pillar can also help manufacturers reduce regulatory efforts and expenses.

Available in short delivery times worldwide, the series CPMT pillar is backed by SKF's global footprint through local SKF sales and service providers. Extensive SKF expertise in medical applications can help manufacturers achieve an optimized, cost-effective equipment development cycle.

Equipment design flexibility



Optional attachment threads



UL certified connector flexibility



Maximize stroke

Accessibility for patients



Positioning flexibility



High load capacity

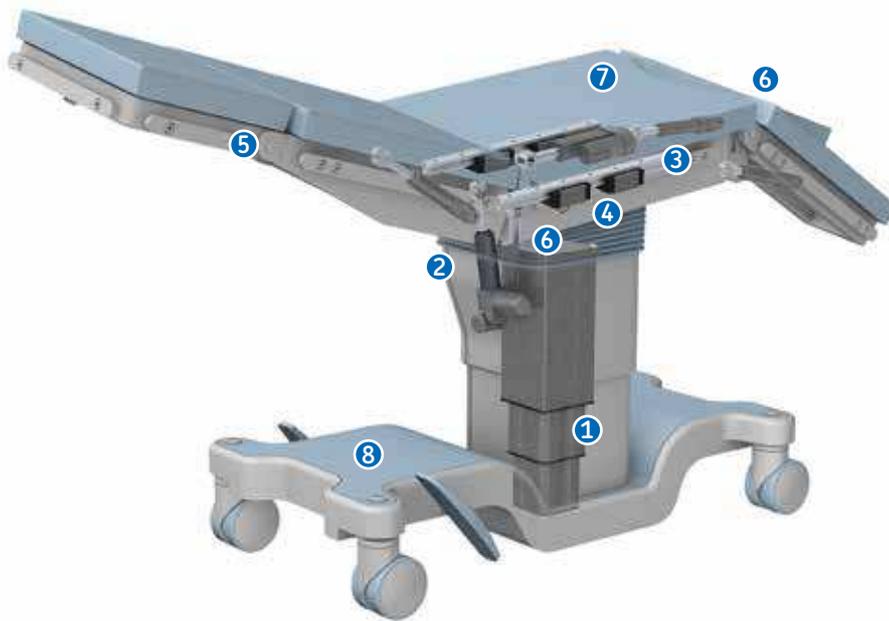


Technical features

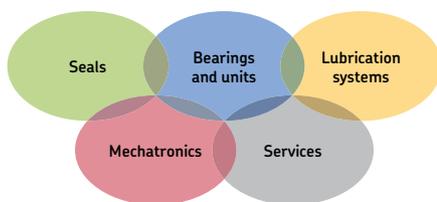
- Low retracted height – minimum 320 mm (12.6 in.)
- High stroke range – 300-600 mm (11.8 – 23.6 in.); i.e., 400 mm stroke at 320 mm retracted height
- High load capacity – up to 6 000 N (1 350 lbs.)
- High speed – up to 34 mm/s (1.34 in./s)
- Dynamic bending moment up to 1 400 Nm (1 033 lbs.-ft)
- High static bending moment up to 3 000 Nm (2 213 lbs.-ft)
- High static load (push) – 15 000 N (3 370 lbs.)
- Safety factor 4x on rated load (self locking)

- Lifetime L₁₀ = 60 000 cycles (at average load 3 000 N and stroke 200 mm)
- Voltage range 24-30 VDC
- Optional customized threads on outer profile (for brackets/actuator attachments)
- Cable connector flexibility
- Complete IEC 60601-1:2005 certified solution from SKF available with pillar, controller and operating devices
- 2-Hall encoder and end-limit switches built in
- Hardware interface matches existing SKF Telemag pillars
- IEC 60601-1:2005, ANSI/AAMI ES60601-1:2005 (UL certified)

SKF capability offer – Medical procedure equipment



1 Pillar 	5 Ball bearing
2 Actuator 	6 Plain bearing
3 Profile rail 	7 Ball screw
4 Precision rail 	8 Control



The Power of Knowledge Engineering

Combining products, people, and application-specific knowledge, SKF delivers innovative solutions to equipment manufacturers and production facilities in every major industry worldwide. Having expertise in multiple competence areas supports SKF Life Cycle Management, a proven approach to improving equipment reliability, optimizing operational and energy efficiency and reducing total cost of ownership.

These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

SKF's global footprint provides SKF customers with uniform quality standards and worldwide product availability. Our local presence provides direct access to the experience, knowledge and ingenuity of SKF people.

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