

# Jack\* PCL Knee Brace

## Dynamic knee orthosis to relieve the PCL

### Patents

EP 1 575 464 / EP 1 114 619 / EP 0 841 044 / US 7,309,322 / US 5,954,677 / further patents pending

### Sizes

 This product is available in pediatric sizes.

### Indications

- PCL ruptures
- Partial ruptures and elongations of the PCL

### Features

- Constant translation force independent of the flexion angle
- Individually adjustable spring tension
- Spring force can be adjusted infinitely and individually
- Spring force can be easily increased or reduced at any time
- Spring tension can be switched on and off without tools whilst retaining the set pressure force at the calf shell
- Limitation in 15° increments in extension and flexion -
- Extension limitation 0° / 15° / 30° / 45°
- Flexion limitation 60° / 75° / 90° / 105° / 120°
- ROM possible from 0° bis 120°
- Temporary immobilisation possible
- High level of wearing comfort due to breathable, lightweight aluminium thigh shells
- High flexibility due to adjustable, customisable thigh shells
- Extended size system, incl. paediatric sizes
- Modular elements that can be combined with one another
- Anatomically shaped tibia shell to improve pressure distribution
- Strap system can be adjusted to suit individual requirements
- Easy handling and high level of wearing comfort



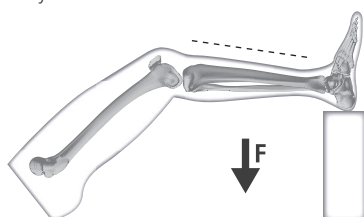
### Mode of Operation

The Jack PCL Knee Brace overcomes the gravity of the lower leg to relieve the posterior cruciate ligament. The translation force may be adjusted to the leg and weight of the patient through setting the tension on both sides of the brace. Hereby the detrimental effects of the muscle and gravitation forces can be counteracted. The slipping of the tibia into the posterior drawer position is inhibited.

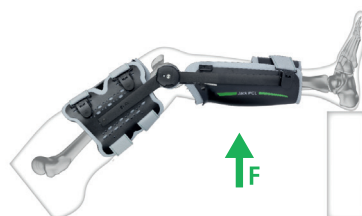
### The idea behind the Jack PCL Knee Brace

**The Problem:** Posterior drawer position caused by gravity or the activation of the ischiocrural muscles.

**The solution:** Constant anterior directed force.



Measurement chart on page 116



Other sizes available on request.

## Size chart and article numbers

Size	Length of thigh shell medial*	Length of calf shell*	Circumference of thigh	Circumference of calf	Art.-No. links	Art.-No. rechte
L/L	23 - 25,5 cm	34 cm	36 - 66 cm	40 - 48 cm	885LL-L	885LL-R
L/M	23 - 25,5 cm	32 cm	36 - 66 cm	33 - 40 cm	885LM-L	885LM-R
L/S	23 - 25,5 cm	31 cm	36 - 66 cm	27 - 33 cm	885LS-L	885LS-R
LM/S	23 - 25,5 cm	31 cm	33 - 43 cm	27 - 33 cm	885LMS-L	885LMS-R
M/L	18,5 - 21 cm	29 cm	36 - 66 cm	40 - 48 cm	885ML-L	885ML-R
M/M	18,5 - 21 cm	27 cm	36 - 66 cm	33 - 40 cm	885MM-L	885MM-R
M/S	18,5 - 21 cm	26 cm	36 - 66 cm	27 - 33 cm	885MS-L	885MS-R
S/XS	17,5 - 20 cm	24 cm	30 - 40 cm	22 - 27 cm	885SXS-L	885SXS-R

\*in combination with the respective shell sets

## Modules for individual assembly

### Shell set upper thigh

Size	Circumference of thigh	left	right	Art.-No.
L	36 - 66 cm	•		830L-L
			•	830L-R
LM	33 - 43 cm	•		830LM-L
			•	830LM-R
M	36 - 66 cm	•		830M-L
			•	830M-R
S	30 - 40 cm	•		830S-L
			•	830S-R



Functional  
orthoses

### Hinge sets PCL

Size	Application	Length of thigh shell medial*	Length of calf medial*	left	right	Art.-No.
L	L/L	23 - 25,5 cm	34 cm	•		870-300-L
	L/M		32 cm			
	L/S		31 cm			
	LM/S		31 cm			
M	M/L	18,5 - 21 cm	29 cm	•		870-310-L
	M/M		27 cm			
	M/S		26 cm			
S	S/XS	17,5 - 20 cm	24 cm	•		870-320-L



\*in combination with the respective shell sets

### Shell sets calf PCL

Size	Circumference of calf	left	right	Art.-No.
L/L	40 - 48 cm	•		831LL-L
			•	831LL-R
L/M	33 - 40 cm	•		831LM-L
			•	831LM-R
L/S	27 - 33 cm	•		831LS-L
			•	831LS-R
M/L	40 - 48 cm	•		831ML-L
			•	831ML-R
M/M	33 - 40 cm	•		831MM-L
			•	831MM-R
M/S	27 - 33 cm	•		831MS-L
			•	831MS-R
X/S	22 - 27 cm	•		831SXS-L
			•	831SXS-R



# Denotation of Measurements

