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 / EP 3 352 713 / further patents pending
Sizes	This product is also available in pediatric sizes.

Indications

- PCL ruptures
- Partial ruptures and elongations of the PCL

Features

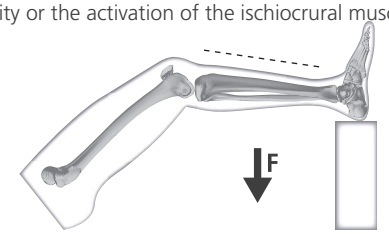
- Constant translation force independent of the flexion angle
- Individually adjustable spring tension
- Spring force can be adjusted infinitely and individually
- Spring force can be easily increased or reduced at any time
- Spring tension can be switched on and off without tools whilst retaining the 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° to 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

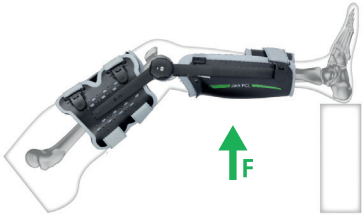
The Jack PCL Knee Brace overcomes the gravity of the lower leg to relieve the posterior cruciate ligament. The translation force may be adjusted to the leg and weight of the patient through setting the tension on both sides of the brace. Hereby the detrimental effects of the muscle and gravitation forces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



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FUNKTIONELLE REHABILITATION

Other sizes available on request

Size chart and article numbers

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

Other sizes available on request

*in combination with the respective shell set

Modules for individual assembly

When combining modules of different sizes,we recommend consulting albrecht to ensure the compatibility of the modules.

Thigh Shell Sets

Size	L	LM	M	S
Circumference at calf [cm]	36 - 66	33 - 43	36 - 66	30 - 40
Art.-No. left	830L-L	830LM-L	830M-L	830S-L
Art.-No. right	830L-R	830LM-R	830M-R	830S-R

Hinge Sets PCL

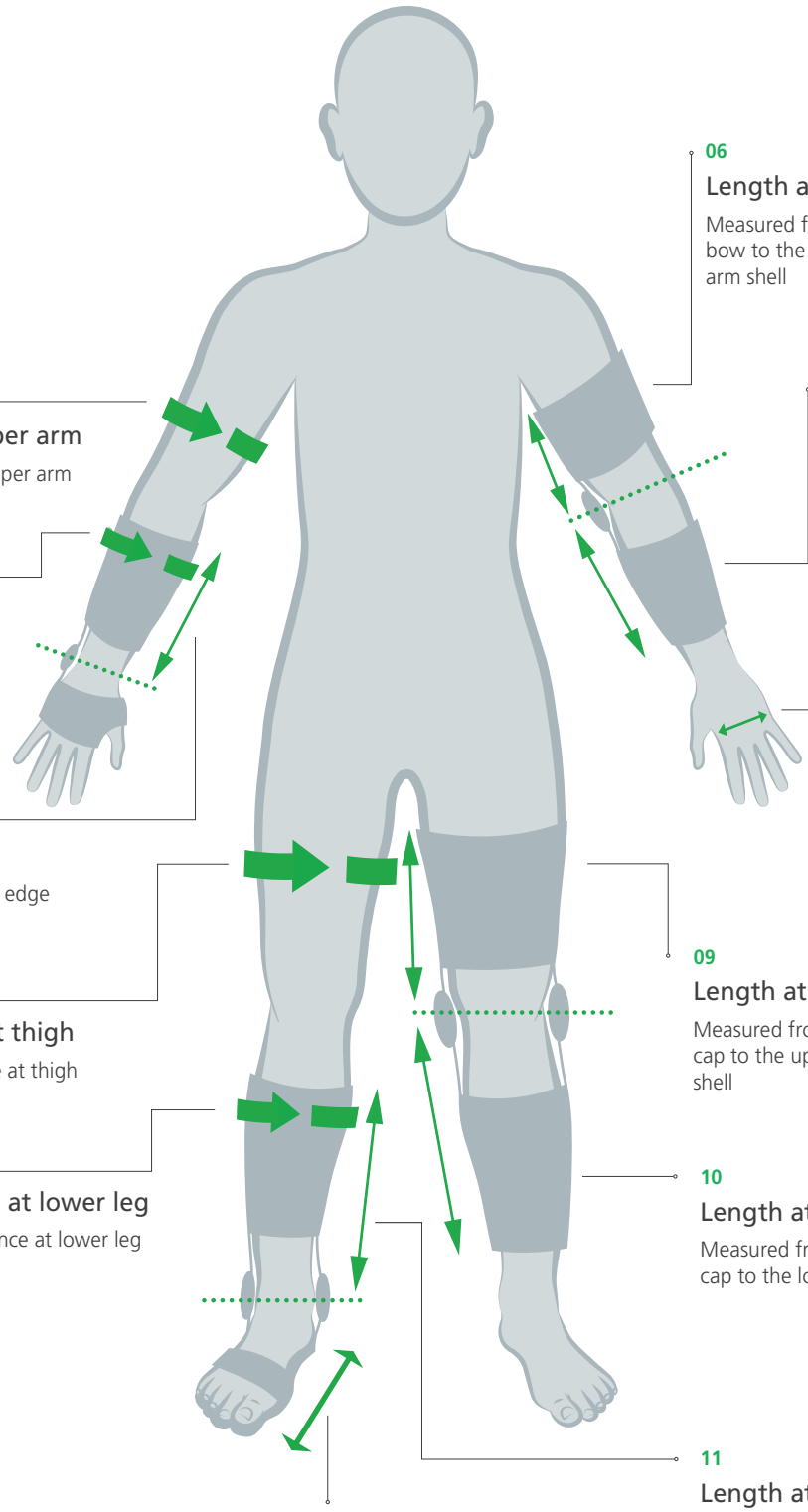
Size	L				M			S
Use for	L/L	L/M	L/S	LM/S	M/L	M/M	M/S	S/XS
Length at thigh medial [cm]*	23 - 25,5				18,5 - 21			17,5 - 20
Length at calf medial [cm]*	34	32	31	31	29	27	26	24
Art.-No. left	870-300-L				870-310-L			870-320-L
Art.-No. right	870-300-R				870-310-R			870-320-R

*in combination with the respective shell set

Calf Shell Sets

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

Meaning of indicated dimensions



01
Circumference at upper arm
Largest circumference at upper arm

02
Circumference at forearm
Largest circumference at forearm

03
Length at forearm medial
Measured from wrist to the upper edge of the forearm shell

04
Circumference at thigh
Largest circumference at thigh

05
Circumference at lower leg
Largest circumference at lower leg (calf)

06
Length at upper arm medial
Measured from the inside of the elbow to the upper edge of the upper arm shell

07
Length at forearm medial
Measured from the inside of the elbow to the lower edge of the forearm shell

08
Hand width
Measured across palm

09
Length at thigh medial
Measured from the middle of the knee cap to the upper edge of the medial thigh shell

10
Length at calf medial
Measured from the middle of the knee cap to the lower edge of the calf shell

11
Length at calf medial
Measured from the medial ankle to the upper edge of the calf shell

12
Length of sole / shoe size (EU)