CDS® Knee Brace Extension

Dynamic spring-loaded knee orthosis

Patents	EP 0 841 044 / US 5,954,677 / EP 3 352 713 / further patents pending
Sizes	This product is also available in pediatric sizes.

Indications

- Joint contractures due to
  - vegetative state
  - cerebral palsy
  - genetic syndroms
  - epilepsy
  - spina bifida
  - near-drowning
  - burns
  - stroke
  - spinal injury
  - paralysis
  - craniocerebral injury
  - capsular ligament injury
  - surgery
  - before and after knee replacement
  - arthrosis and chromic polyarthritis
- to prevent recurring constracures following arthrolysis
- rupture of muscle fibre in the quadriceps
- patella tendon tear
- quadriceps weakness
- conservative, post-surgical for all indications that contrindicate active extension of the knee

Features

- activation of the extensors and stretching of the flexors
- spring tension individually adjustable
- spring tension can be switched on and off without tools and without varying the set spring tension
- adjustable shell- and strap system
- **CDS® Knee Brace Extension L/L, L/M, M/L, M/S:**
  - infinitely variable adjustment of the redression range between -15° and +30°
  - high wearing comfort due to exact adjustment of the air-permeable aluminium shells
- **CDS® Knee Brace Extension S/S, XS/XS, XXS with CDS® Nano hinge:**
  - adjustment of the redression range in 10° steps
  - high wearing comfort due to textile shells

Mode of operation

The CDS® Knee Brace Extension is based on the CDS®-principle and has been designed to treat an extension deficit of the knee. The brace applies a dynamic low load prolonged stretch to stimulate growth in the contracted tissue. The infinitely adjustable redression range up to -15° prevents harmful overstretching.

Size chart and article numbers - adults

Size	L/L	L/M	M/L	M/S	S/S	XS/XS	XXS
Hinge	CDS® Hinge				CDS® Nano Hinge		
Shells	Aluminium shells				Textile shells (black)		
Length at thigh medial [cm]*	23 - 25,5	21,5 - 24	18,5 - 21	17,5 - 20	18	15	12
Length at calf medial [cm]*	26,5 - 29	26,5 - 29	20,5 - 23,5	20,5 - 22,5	20	18	15
Circumference at thigh [cm]	36 - 66	33 - 43	36 - 66	30 - 40	30 - 40	25 - 35	20 - 30
Circumference at calf [cm]	27 - 47	24 - 35	27 - 47	22 - 32	22 - 32	20 - 30	15 - 25
Art.-No. left	901LL-L	901LM-L	901ML-L	901MS-L	901SS-L	901XSXS-L	901XXS-L
Art.-No. right	901LL-R	901LM-R	901ML-R	901MS-R	901SS-R	901XSXS-R	901XXS-R

*in combination with the respective shell set

Size chart and article numbers - JUNIOR series

Size	Junior		Bambini		Malinki	
Hinge	CDS® Nano Hinge					
Shells	Textile Shells (coloured)					
Length at thigh medial [cm]*	18		15		12	
Length at calf medial [cm]*	20		18		15	
Circumference at thigh [cm]	30 - 40		25 - 35		20 - 30	
Circumference at calf [cm]	22 - 32		20 - 30		15 - 25	
	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right
Pink	901SS-PL	901SS-PR	901XSXS-PL	901XSXS-PR	901XXS-PL	901XXS-PR
Green	901SS-GL	901SS-GR	901XSXS-GL	901XSXS-GR	901XXS-GL	901XXS-GR
Blue	901SS-BL	901SS-BR	901XSXS-BL	901XSXS-BR	901XXS-BL	901XXS-BR
Orange	901SS-OL	901SS-OR	901XSXS-OL	901XSXS-OR	901XXS-OL	901XXS-OR

*in combination with the respective shell set

Modules for the modular assembly - adults

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

Thigh Shell Sets

Size	L/L	L/M	M/L	M/S	S/S	XS/XS	XXS
Shells	Aluminium Shells				Textile Shells (black)		
Circumference at thigh [cm]	36 - 66	33 - 43	36 - 66	30 - 40	30 - 40	25 - 35	20 - 30
Art.-No. left	820LL-L	820LM-L	820ML-L	820MS-L	820SS-L	820XSXS-L	820XXS-L
Art.-No. right	820LL-R	820LM-R	820ML-R	820MS-R	820SS-R	820XSXS-R	820XXS-R

Hinge Sets CDS® Knee Brace Extension

Size	L/L	L/M	M/L	M/S	S/S	XS/XS	XXS
Hinge	CDS® Hinge				CDS® Nano Hinge		
Length at thigh medial [cm]*	23 - 25,5	21,5 - 24	18,5 - 21	17,5 - 20	18	15	12
Length at calf medial [cm]*	26,5 - 29	26,5 - 29	20,5 - 23,5	20,5 - 22,5	20	18	15
Art.-No. left	870-100-L		870-110-L		870-120-L	870-125-L	870-126-L
Art.-No. right	870-100-R		870-110-R		870-120-R	870-125-R	870-126-R

*in combination with the respective shell set

Calf Shell Sets

Size	L/L	L/M	M/L	M/S	S/S	XS/XS	XXS
Shells	Aluminium shells				Textile shells (black)		
Circumference at calf [cm]	27 - 47	24 - 35	27 - 47	22 -32	22 -32	20 - 30	15 - 25
Art.-No. left	821LL-L	821LM-L	821ML-L	821MS-L	821SS-L	821XSXS-L	821XXS-L
Art.-No. right	821LL-R	821LM-R	821ML-R	821MS-R	821SS-R	821XSXS-R	821XXS-R

Modules for the modular assembly - JUNIOR

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

Thigh Shell Sets

Size	Junior		Bambini		Malinki	
Shells	Textile Shells (coloured)					
Circumference at thigh [cm]	30 - 40		25 - 35		20 - 30	
	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right
Pink	820SS-PL	820SS-PR	820XSXS-PL	820XSXS-PR	820XXS-PL	820XXS-PR
Green	820SS-GL	820SS-GR	820XSXS-GL	820XSXS-GR	820XXS-GL	820XXS-GR
Blue	820SS-BL	820SS-BR	820XSXS-BL	820XSXS-BR	820XXS-BL	820XXS-BR
Orange	820SS-OL	820SS-OR	820XSXS-OL	820XSXS-OR	820XXS-OL	820XXS-OR

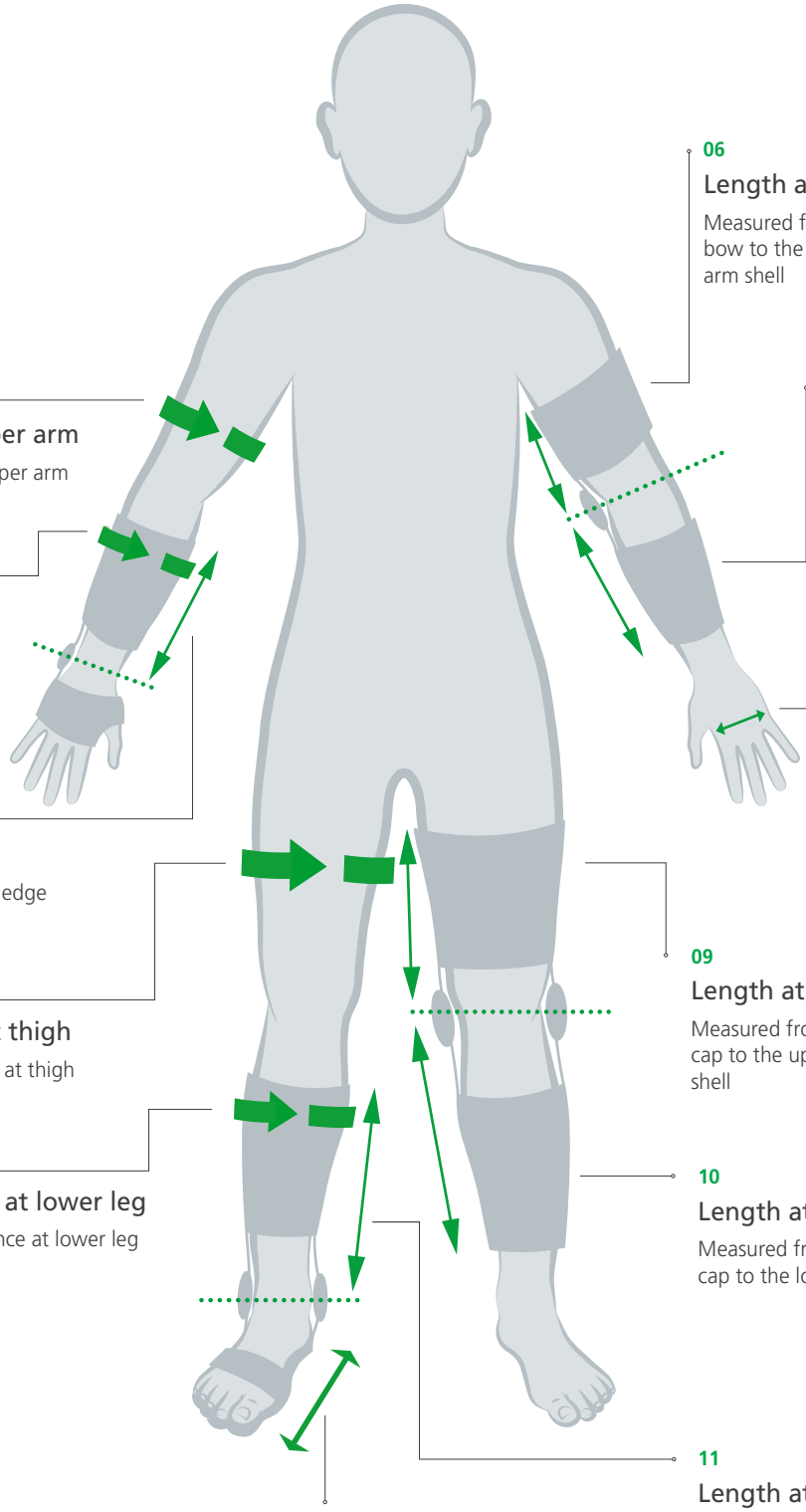
Hinge Sets CDS® Knee Brace Extension

Size	Junior		Bambini		Malinki	
Hinge	CDS® Nano Hinge					
Length at thigh medial [cm]	18		15		12	
Length at calf medial [cm]	20		18		15	
	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right
	870-120-L	870-120-R	870-125-L	870-125-R	870-126-L	870-126-R

Calf Shell Sets

Size	Junior		Bambini		Malinki	
Shells	Textile Shells (coloured)					
Circumference at calf [cm]	22 - 32		20 - 30		15 - 25	
	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right	Art.-No. left	Art.-No. right
Pink	821SS-PL	821SS-PR	821XSXS-PL	821XSXS-PR	821XXS-PL	821XXS-PR
Green	821SS-GL	821SS-GR	821XSXS-GL	821XSXS-GR	821XXS-GL	821XXS-GR
Blue	821SS-BL	821SS-BR	821XSXS-BL	821XSXS-BR	821XXS-BL	821XXS-BR
Orange	821SS-OL	821SS-OR	821XSXS-OL	821XSXS-OR	821XXS-OL	821XXS-OR

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)