

3

SOLUTIONS FOR Knee Hyperextension

CROSS™

C.H.E.C.K™

COMBO™



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Cross™ Knee Hyperextension

Functional and easy to use

CROSS™ Knee Hyperextension orthosis is intended for mild to moderate knee hyperextension due to neuromuscular diseases or other injuries. The brace can also be used together with Allard AFOs when knee hyperextension is present together with foot drop.

Indications:

Knee hyperextension due to Stroke, Post-Polio or other neuromuscular diseases or injuries like weakening M.Quadriceps or weak calf muscles. Genu recurvatum with intact ML ligaments.

Contraindications:

The brace is not intended for sports activity. The brace should not be used when all function in M. Quadriceps is lost or when knee ligaments are disabled. Hyperextension ≥ 15 degrees.



Thin, breathable, lightweight material

The unique construction of the wide upper cuff keeps the orthosis open so foot and leg slide easily into the brace. The user can easily grasp the wide cuff and pull the orthosis up and adjust so patella opening is properly located over the knee.

One-hand application with donning aid

The unique CROSS™ donning aid, included with each CROSS™ orthosis, makes it possible for users with limited balance to don the orthosis by themselves while in a seated position. It also assists users with hemiplegia or limited hand dexterity to apply the orthosis with one hand.

Smooth, low friction, seamless liner

The liner provides a protective layer between the outer material and the skin. It helps prevent skin irritations and enables the orthosis to glide easily over the foot and up over the knee.



Visit our product page!

Tailored Components for Optimal Knee Support

- 1. **Silicone band**
Strategically placed to prevent migration.
- 2. **Patella opening**
Anatomically shaped patella opening with silicone buttress.
- 3. **Adjustable ROM stops**
Flexion: 45°, 60°, 75°, 90°
Extension: 10°, 20°, 30°, 40°
- 4. **Condyle shells**
Self-contouring Condyle shells
- 5. **Pre-flexed shape**
The pre-flexed anatomical shape fits the contours of the leg to provide comfortable fit when the orthosis is used with an ankle- foot orthosis.
- 6. **Wide lower strap**
The Wide lower strap prevents the rigid uprights from moving backwards as hyperextension resistance is adjusted.
- 7. **Reinforcement stays**
The anatomically shaped reinforcement stays provide guidance for user to properly align the support.
- 8. **Easily adjust resistance**
The amount of hyperextension resistance is easily adjusted with one hand.



How to use the donning aid

The donning aid is easily inserted into an opening in the posterior semi-rigid thigh cuff (location easily identified with a grey binding tape).

- When all straps are released, the orthosis is pulled on with the hyperextension strap facing front.
- Once the sleeve is pulled over the foot, the smooth fabric liner makes it easy to turn the orthosis and pull up the leg until the patella opening is properly located over the knee.



The donning aid is included with each CROSS™ Hyperextension Knee orthosis.



Watch our instruction video for more details.

Item No.	Size	Circumference 15cm below mid-patella	Circumference mid-patella	Circumference 15cm above mid-patella
287150011	Small	32-37 cm	32-37 cm	39-44 cm
287150012	Medium	36-41 cm	36-41 cm	43-48 cm
287150013	Large	40-45 cm	40-45 cm	47-52 cm
287150014	X-Large	44-49 cm	44-49 cm	51-57 cm

Use only as directed. See IFU for full safety information, indications, contraindications, and precautions.



A functional combination

Knee Hyperextension and Foot Drop

CROSS™ is developed and designed to function together with an Allard AFO (Ankle-foot-orthosis). No straps or buckles intervene with the composite orthosis. The cross on the back stabilizes knee hyperextension. CROSS™ can be used with any Allard dynamic response AFO.

Choose from any model of:

- Ypsilon®
- ToeOFF®
- BlueROCKER® (pictured)



No straps or buckles
intervene with the AFO

Use with any Allard AFO

C.H.E.C.K™

Comfortable Hyper Extension Control Knee

Functional Orthotic Management of hyperextension and mild-moderate knee instability. Soft upper and lower suspension sleeves and popliteal interface combine with adjustable straps to hold the frame in position as the straps are adjusted to provide a “stop” to control ability of the knee to hyper-extend.

Indications:

Genu recurvatum, unstable knee caused by laxity of the ligaments, mild valgus instability, mild varus instability, neurologic function impairment (post C.V.A.).

Contraindications:

Not intended for sports activities

Visit our product page!



Reduced Force on Thigh & Tibia

Long lever arms reduce the amount of force required on the femur and tibia to control hyperextension and/or mild-moderate knee instability, making the orthosis better tolerated by the patient.

Hyperextension Control

Proximal strapping is easily adjusted to offer optimum degree of hyperextension stop based on individual patient needs.

Functional Suspension System

Two suspension supports, one proximal to suspend the frame on the femur and one distal to suspend the frame on the tibia, provide functional suspension system for the orthosis, while simultaneously offering soft interface between soft tissue and the orthosis.

Medial - Lateral Control

Stainless steel medial and lateral uprights are joined posteriorly to rigid horizontal cross bar and ready for orthotist to shape to fit individual anatomy for required medial-lateral control.



Lightweight & Adjustable

- 1. **Condylar Pads**
Two condylar pads to position for close fit.
- 2. **Migration Control**
Posterior popliteal strap rests comfortably on top of the gastroc to help prevent downward migration.
- 3. **Lightweight**
Weighs only 624 grams
- 4. **Unique D-Ring Solution**
Four unique D-Rings included with each brace
Mount on either side to fit patient needs.
- 5. **One Size**
Fits knee widths 9–13 cm, length 45 cm.



Item No.	Product description	Size	Measurement	Length	L/R
286520000	CHECK™ Stainless Steel	One Size	9 - 13 cm	45 cm	Bilateral
286510000	Replacement Interface	-	-	-	-
286530000	D-Ring Set of 4	-	-	-	-

Use only as directed. See IFU for full safety information, indications, contraindications, and precautions.



COMBO™ – The Perfect Combination

World's Leading Carbon Composite AFO Technology
paired with Carbon Composite Hyperextension Knee Orthosis

COMBO Features:

- Anatomically shaped thigh cuff
- Dual-axis joints for optimal movement
- Popliteal interface for precise knee extension control
- Shapeable stainless steel uprights
- Pre-contoured, yet shapeable, connector compatible with ToeOFF® or BlueROCKER® models*.

*Should not be used with Ypsilon Flow½, ToeOFF Flow 2½, Short models, or Pediatric versions.

Combo + ToeOFF® or BlueROCKER®
The original dynamic carbon composite AFO.

Custom Fabrication
Create a super-lightweight KAFO in your own facility!



Visit our product page!

Therapy, Reimbursement and Patient Friendly!

- The thigh cuff/knee control assembly is easily removed from the ToeOFF® or BlueROCKER®.
- Great for rehab programs where extension control may no longer be required as treatment progresses, eliminates the need for a prescription for a 2nd orthosis!
- Great for patient when relaxing and extension control is not required.



Easy to don and doff

Quick release buckles and straps

COMBO™

Size selection for Custom KAFO components

1 Joints with Uprights

Item No.	Size
28780 0000	One Size

2 Tibia Connector

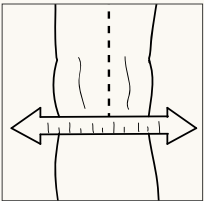
Generally, select the same size as the ToeOFF® or BlueROCKER®. However, the next smaller size will “snug” the wings of the ToeOFF® or BlueROCKER® closer to the leg for the extra small calf, and the next larger size may better accommodate a larger calf.

Item No.	Size
28784 0011	Small
28784 0012	Medium
28784 0013	Large/X-Large

3 Knee control Component with popliteal interface

Take a M-L (knee width) measurement.

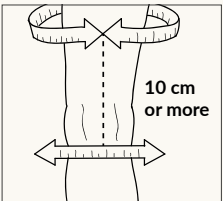
Item No.	Size	Medial-Lateral
28782 0011	Small	7 - 10,5 cm
28782 0012	Medium	9,5 - 13 cm
28782 0013	Large	12,5 - 16 cm



4 Thigh Cuff

Take a circumferential measurement at height where thigh cuff is to be located, however, make certain it is 8” (20 cm) above the tibial plateau. Take a M-L measurement at same height.

Item No. Left	Item No. Right	Size	Circumference	M-L
28781 1011	28781 2011	Small	30 - 40 cm	11 - 15 cm
28781 1012	28781 2012	Medium	38 - 50 cm	13 - 17 cm
28781 1013	28781 2013	Large	48 - 60 cm	15 - 19 cm
28781 1014	28781 2014	X-Large	58 - 70 cm	17 - 21 cm



5 Joints with Uprights

Item No.	Size
28783 0011	Small
28783 0012	Medium
28783 0013	Large
28783 0014	X-Large

WARNING

- Weight Limit: 150 kg
- Height Limit: 2 m
- Use of COMBO with any product other than ToeOFF® or BlueROCKER® is prohibited*.
- The COMBO KAFO must be fitted by or under the supervision of a Certified Orthotist.

* Should not be used with ToeOFF Flow2½, Ypsilon® Flow½ and short versions



Support for Better Life

Everyone should be able to live their life to the fullest, regardless of their mobility challenges. With innovative solutions developed in close collaboration with healthcare professionals and patients, we strive to provide Support for Better Life.

allard

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