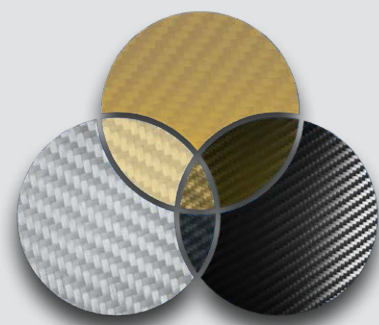


SpryStep® KO



Proprietary Composite Materials

Durable, versatile, and lightweight, the SpryStep® KO combines the power of modern composite manufacturing with trusted Thuasne® technologies.

Available for ligament, OA, and neurological deficits. The SpryStep® KO range combines historical and proven Thuasne® technology with industry-renowned SpryStep® composite technology making Thuasne USA's SpryStep® custom knee orthosis range one of the most truly custom knee braces on the market.

SpryStep® Technology

A unique combination of composite materials that allows:

Resistance: Carbon fibers to give the stiffness⁽¹⁾ and aramid fibers to resist to impact and abrasion⁽²⁾

Lightweight: One of the lightest custom knee braces on the market

Low profile: Ultra-low profile and sleek design

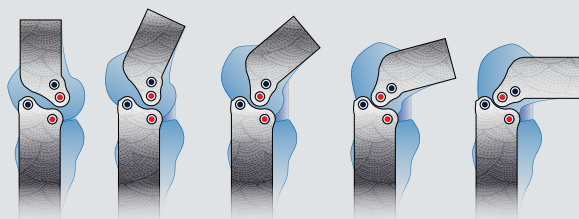
Truly custom: Skin-to-shell contact surface without pressure point following anatomical trimlines

Thuasne® Design

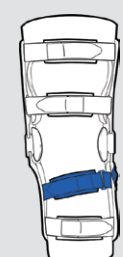
TM5 Hinge: Provides ligament protection and prevents tibial instabilities⁽³⁾⁽⁴⁾, Roll-and-Glide movement replicates the natural movement of the knee⁽⁴⁾, no piston affect = less migration⁽³⁾

5-bars and single pivot hinges: Available for heavy duty or major ligament instabilities or laxities instabilities

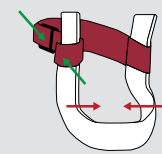
Synergistic suspension strap: Better comfort⁽³⁾ as the brace stays in place on the leg Anterior-posterior (AP) + medial/lateral (ML) tightening (front/back and left/right) Asymmetrical attachment on the narrowest aspect of the leg



TM5 Hinge Design



Medial/Lateral



Suspension Strap

(1) A comparison of mechanical properties between different percentage layouts of a single-style carbon fibre ankle foot orthosis - Sheehan & Figgins
(2) Study on Aramid fibre and comparison with other composite materials - IJIRST 2014(3) Internal marking data. (4) A2S biomechanical study « Biomechanical study of the stride during use of different braces » 2020, study carried out on the Rebel® Standard. (5) Thoumie, Philippe, Marc Marty, Bernard Avouac, Adeline Pallez, Arnaud Vaumousse, Linh Pham Thi Pipet, André Monroche, et al. 2018. "Effect of Unloading Brace Treatment on Pain and Function in Patients with Symptomatic Knee Osteoarthritis: The ROTOR Randomized Clinical Trial." Scientific Reports 8 (1): 10519.

The **SpryStep® KO** range provides the ability to customize and design to each individual, providing precise fit and control with proven results for comfort and compliance.



SpryStep® Neuro

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region. Read the product's instructions for use, indications and contraindications carefully. Photos: Willis & Williams Design Studios

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BMI
BERRETTA MEDICAL INC.

THUASNE®

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BMI
BERRETTA MEDICAL INC.

Custom-fabricated

SpryStep® Knee Orthosis Range



SpryStep® Ligament

Ultra light-weight composite construction for reliable strength and performance.

SpryStep[®] Ligament

PDAC Approved L1846, L2755, L2755

Recommended for: Ligament injuries and/or reconstructive knee surgery or prophylactic use

The SpryStep[®] KO features a multitude of options for shell configurations and lengths, along with the choice to select stiffness/ rigidity (Level 1, 2,3). The SpryStep[®] KO is the perfect choice for a variety of patients and activity levels.

Features

- Thuasne's patented TM5+ Hinge
- Exclusive Synergistic Suspension Strap
- Rotation control tibial shell contour
- Greater shell-to-skin contact for maximum control (*Full Shell Design*)

Options

- ACL or combined instabilities
- 12, 13, 14, 15- and 16-inch shell length
- Open or Full shell style design
- Hinge material – aluminum or stainless
- Compression/Suspension anti-migration package
- Flexion stop kit (extension stop kit included)

Ordering Method

- Custom from a cast or digital scan



Full Shell

SpryStep[®] OA

PDAC Approved L1846, L2755, L2755

Recommended for: Moderate to severe medial or lateral osteoarthritis as well as patients who have OA in combination with ligament instability

The SpryStep[®] OA knee brace is a true custom design aimed to fit the need of each patient. The brace features LoadShifter technology giving patients the power to control the effects of OA with the ability to increase corrective force for greater pain relief when they need it the most.

Features

- Patented adjustable Dual LoadShifters
- Thuasne's patented TM5+ hinge
- Exclusive Synergistic Suspension Strap
- Rotation control tibial shell
- Greater shell-to-skin contact for maximum control (*Full Shell Design*)

Options

- Lengths 12,13,14,15,16
- Compression/Suspension anti-migration package
- Flexion stop kit (extension stop kit included)



Full Shell OA



LoadShifter: Mechanical adjustable unloading of the affected compartment⁽⁵⁾ provided by a significant varus and valgus correction of the thigh shell

SpryStep[®] Neuro

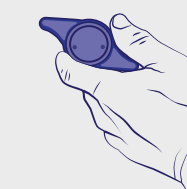
PDAC Approved L1846, L2755, L2755

Recommended for: Severe instabilities or hyperextension that require a locking or heavy duty hinge orthosis.

Featuring multiple shell configurations, a variety of joint options and different levels of stiffness/ rigidity, the SpryStep[®] Neuro KO is a comprehensive knee orthosis solution giving patients the confidence they need to lead active lives.

Options

- Full Shell design: for better suspension and stabilization with tissue control
- Anterior or posterior shells configurations from various lengths
- 3 levels of stiffness for more depending patients (ex: impact sports)
- C/S package: paring of semi-rigid sub-shells joined by anterior and posterior straps to improve brace's suspension (NB: not available on Full-Shell)
- Extension Assist



Twist

Locking hinge options:

Twist cable mechanism or manual Trigger mechanism



Trigger

