

COMPOSITE AFO RANGE

Solutions from pediatric to adult, the SpryStep Composite AFO range is highly customizable, extremely versatile and built to last.

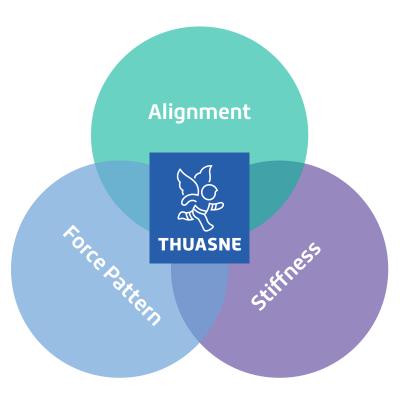




Working Together for Better Patient Outcomes

It takes a collaborative partnership between clinician and craftsman to create the best custom AFO for a patient. The AFO fabrication is only as precise as the cast provided, that's why clear casting guidelines and high clinical skill is vital to the fabrication process.

A successful outcome with a superior product, like the SpryStep® Vector AFO, is only possible with good communication between the clinical and fabrication teams.





Casting Instructions

AFO Casting Guidelines						
Medium	Fiberglass (recommended brands are C-Form from ST&G, Delta Conformable BSN, Delta Lite BSN and Össur Techform)	7º of tibial inclination				
Recommended technique	Dry casting (with fiberglass)Use of a casting platform					
Position	 Sitting in a chair Using casting platform to replicate heel height and toe ramp (or another system allowing to replicate heel height and toe ramp) Metatarsal touching the casting platform Optimal sagittal alignment: correlates with heel height of the shoe (+/- 5° of the functional alignment) Optimal coronal alignment: to represent biomechanical goals (+/- 3° of functional alignment) Tibial inclination of 7° 	TKA (weight line) Metatarsals touching casting block				
Cast length	Mid-calf and captures all toes.					
Cut strip	Anterior on the dorsum of the foot to transition laterally	Cast height encapsulates				
Markings on the cast	 Fibula head, metatarsal heads, base of 5th metatarsal, navicular, medial and lateral malleoli, tibial crest, tibial tubercle If applicable mark: deformity, scar tissue, and any other area of concern Reference hash-marks on top of cutting strip. Add name of patient and clinic on cast. 	fibula head Hindfoot in neutral alignment				
Rigidity/ Thickness	A minimum of 3 layers of fiberglass throughout the cast from proximal to distal end					
Tips	 Wait at least an hour before putting it in a box for shipping Must remove stockinette Use staples to seal the cast Stuff the cast to maintain its structure during shipping No webroll or compresso grip 	Casting Instructions				

SpryStep[®] Vector

PDAC APPROVED L1950

The Custom Spiral AFO is an elegant, durable, patientfriendly custom composite AFO. All four models feature our signature posterior lateral spiral strut that offers biomechanical and fitting advantages. Each model also includes a molded inner boot.

Features

- Malleable heat formable thermoplastic molded inner boot and calf cuff
- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Device stiffness tuned for each individual patient
- Minimalistic trimlines using material only where force systems dictate, avoiding bony prominences
- Open heel design for greater comfort
- Material diversity offers strategic flexibility and stiffness to enhance performance and patient comfort

Sizing

Custom from a cast



Pre-Tibial Shell & Varus Correction

Available Models



Posterior Shell

Pre-Tibial Shell

Posterior Shell & Varus Correction

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SpryStep[®] Custom RECOMMENDED L-CODE L1940/L9145/L1950

A durable, effective and elegant custom AFO that meets the individual needs of a diverse patient population. Customizable from calf to toe, the SpryStep[®] Custom's posterior lateral strut is strategically positioned to amplify energy return and fit comfortably into most shoes.

Features

- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Material diversity offers strategic flexibility and stiffness to enhance performance and patient comfort
- Proprietary posterior lateral position of the strut increases patient compliance and energy return for activity re-engagement

Sizing

Custom from a cast



Available Models



SpryStep[®] Flex

The greater spiral curve of the strut and a different material blend gives the SpryStep® Flex unmatched flexibility.

Available Options: Molded Inner Boot, Pre-Tib Shell



SpryStep[®] Original

Launched in October, 2016, the SpryStep® is an elegant and effective solution that is incredibly durable.

Available Options: Molded Inner Boot, Pre-Tib Shell



SpryStep[®] Plus

Featuring an enhanced anterior Ground Reaction AFO with excellent dynamic properties and optimized durability

Available Options: Molded Inner Boot

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SpryStep® PDAC APPROVED L1951

The SpryStep[®] is an elegant, durable and effective ankle foot orthotic made with a precise selection and layup of diverse composite materials. The posterior spiral strut is uniquely positioned to amplify energy return and fit easily into most shoes.

See our prescription guidelines on page 15 in order to determine which model is the most appropriate for your patient.

Features

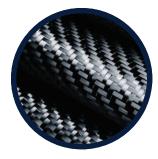
- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Material diversity offers strategic flexibility and stiffness to enhance performance and patient comfort
- Proprietary posterior lateral position of the strut increases patient compliance and amplifies energy return
- Trimmable forefoot ensures a perfect fit
- · Fits easily into most shoes

Ordering

• Available in left or right

Size	Foot Length	Height
XS	8 ½ — 9 %"	11 3⁄4"
SM	9 1⁄8 — 10 1⁄4"	12 %"
MD	9 5% — 10 7%"	13 ¾"
LG	10 ¼ — 11 ¾"	14 1⁄8"
XL	11 ¾ — 12"	15"





Proprietary Fabrication

Precise selection and layup of diverse composite materials create remarkable strength and beautiful cosmetic characteristics.



Posterior Lateral Strut

The spiral strut is uniquely positioned behind the malleoli to amplify energy return and fit more easily into most shoes.



Customizable The forefoot can be easily trimmed for a perfect fit.



Desired biomechanical force



SpryStep[®] Pediatric

Features

- Trimmable at the toe, medial side of the footplate and the calf cuff
- Built with increased flexibility for dynamic kids
- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Proprietary posterior lateral position of the strut increases patient compliance and amplifies energy return
- Fits easily into most shoes

Ordering

• Available in left or right

c :	Foot Length		Height		
Size	Min ¹	Мах	Min ²	Мах	
XS	3 ¾"	5 ¾"	6 ¼"	7"	
SM	4 ¼"	6 ¼"	7 1⁄2"	8 1⁄4"	
MD	5"	7"	8 ¾"	9 1⁄2"	
LG	5 1⁄2"	7 1⁄2"	9 34"	10 1⁄2"	
XL	6"	8"	11"	11 ¾"	

Calf cuff depth = 2 ½" (the width of the calf cuff can be trimmed up to 1 ½" on each side) 1. This indicates the shortest the footplate can be trimmed with scissors 2. This indicates the lowest the calf cuff can be trimmed with scissors



SpryStep[®] Flex PDAC APPROVED L1951

See our prescription guidelines on page 15 in order to determine which model is the most appropriate for your patient.

Features

- Enhanced spiral curve of the strut and proprietary material blend offers greater flexibility and energy return
- Proprietary posterior lateral position of the strut increases patient compliance and amplifies energy return
- Trimmable forefoot ensures a perfect fit
- Custom version available based on size, pathology, or activity level
- Fits easily into most shoes
- Recommended for the most active patients (Running, Hiking, etc.)

Ordering

• Available in left or right

Size	Foot Length	Height
XS	8 1⁄2 — 9 5%"	11 3⁄4"
SM	9 1⁄8 — 10 1⁄4"	12 %"
MD	9 5% — 10 7%"	13 ¾"
LG	10 ¼ — 11 ¾"	14 1⁄8"
XL	11 ¾ — 12"	15"





SpryStep[®] Plus PDAC APPROVED L1932

See our prescription guidelines on page 15 in order to determine which model is the most appropriate for your patient.

Features

- Anterior shell for enhanced ground reaction
- 3D shaped pad featuring a recessed tibia crest relief zone
- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Material diversity offers strategic flexibility and stiffness to enhance performance and patient comfort
- Proprietary posterior lateral position of the strut increases patient compliance and energy return for activity re-engagement
- Trimmable forefoot ensures a perfect fit

Ordering

• Available in left or right

Size	Foot Length	Height to Tib Tuberosity	Calf circumference 1" below fibula head
XS	8 1⁄2" – 9 5⁄8"	13"	11 ½" – 14 ½"
SM	9 1⁄8" - 10 1⁄4"	14 1⁄2"	12 ¾" – 15 ¾"
MD	9 5%" - 10 7%"	15 ½"	13 ½" – 17 ½"
LG	10 ¼" – 11 ¾"	16 3/4"	14 ¾" – 18 ¾"
XL	11 ¾" – 12"	18"	15 ½" – 20 ½"



SpryStep[®] Max PDAC APPROVED L1932

See our prescription guidelines on page 15 in order to determine which model is the most appropriate for your patient.

Features

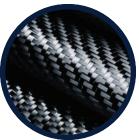
- Midfoot lateral strut strategically positioned to achieve the desired stabilization and gait assist
- Anterior shell with 3D shaped pad featuring a recessed tibia crest relief zone
- Lightweight, durable composite construction engineered with unique laminated characteristics to prevent delamination and breakage
- Material diversity offers strategic flexibility and stiffness to enhance performance and patient comfort
- Proprietary posterior lateral position of the strut increases patient compliance and amplifies energy return
- Trimmable forefoot ensures a perfect fit

Ordering

• Available in left or right

Size	Foot Length	Height
XS	7 ¾ — 8 ½"	13 ¼"
SM	8 ¼ — 9"	14 1⁄2"
MD	9 — 10"	15 ½"
LG	10 — 10 ¾"	16 ½"
XL	10 ¾ — 11 ½"	16 ½"





Proprietary Fabrication



Customizable The forefoot can be easily trimmed for a perfect fit.



Advanced Composite Fiber Technology to Improve Outcomes in Orthotic Science

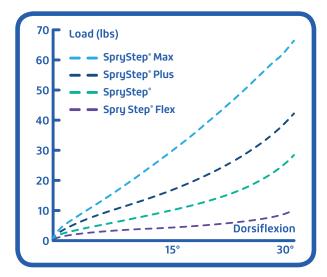
Range of Motion

Thuasne USA now offers five reliable OTS Carbon AFOs along with an all-encompassing Custom AFO range, that allow you to address a wide variety of clinical presentations.

Proven Durability

For a diverse range of clinical indications and patient needs, you can rely on the performance, quality and durability of our growing range of composite AFOs. The SpryStep[®], SpryStep[®] Flex, SpryStep[®] Max, and SpryStep[®] Plus were independently tested by mechanical engineers using a surrogate leg and a loaded cyclic testing device, achieving two million cycles with no structural deficits.

*Cycle-testing performed by an independent lab under ISO10328 servo pneumatic test system. This standard is typically used to test prosthetic feet.

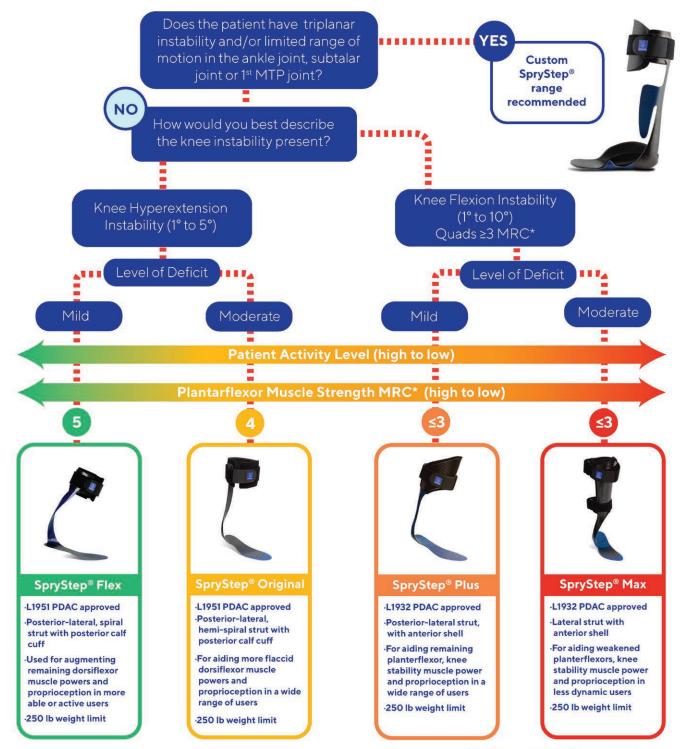


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	Add-ons						
Product	Recommended Base Code	L2755 Carbon Graphite Lamination	L2820 Below Knee Padding	L2280 Molded Inner Boot	L2340 Pre-tib Shell	L2275 Varus Correction	Weight limit
SpryStep Flex, Contoured Footplate	L1940	\checkmark	\checkmark		If Ordered		300lbs
SpryStep Flex, Molded Inner Boot	L1950	\checkmark	\checkmark	\checkmark	If Ordered		350lbs
SpryStep Original, Contoured Footplate	L1940	\checkmark	\checkmark		If Ordered		300lbs
SpryStep Original, Molded Inner Boot	L1950	\checkmark	\checkmark	\checkmark	If Ordered		350lbs
SpryStep Plus, Contoured Footplate	L1945	\checkmark					250lbs
SpryStep Plus, Molded Inner Boot	L1945	\checkmark					300lbs
SpryStep Vector	L1950	\checkmark	\checkmark	\checkmark	If Ordered	If Ordered	350lbs

Prescription Guide:

The SpryStep AFO range is designed for patients who have foot and ankle deficits. It is not suitable for patients who have active ulceration or fluctuating edema.

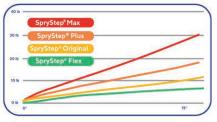


The SpryStep® OTS Range of AFOs

An elegant, durable and effective range of off-the-shelf ankle foot orthoses.

Featuring varying degrees of stiffness, posterior and anterior calf cuffs and differing strut geometries, the SpryStep® range offers an effective solution for a wide variety of patient presentations.

Resistance of AFO in Dorsiflexion



*Medical Research Council Manual Muscle Testing Scale



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