

Turbo Med™ ORTHOTICS

XTERN FRONTIER®

THINK OUTSIDE THE SHOE®



A TRULY UNIQUE DESIGN

THINK OUTSIDE THE SHOE™

Each Xtern model created is the result of careful research to improve performance, preserve comfort and meet high customer expectations. With these elements in mind, Turbomed is proud to present the Xtern Frontier, a model that offers a brand new way of putting on the revolutionary foot drop orthosis. Same “outside the shoe” style, with a whole new design.

The Xtern Frontier was developed specifically with ease of wear in mind. It features a magnetic attachment system that can be attached with one hand, and takes a frontal approach to leg support that leaves the back of the shoe opening fully accessible for easy donning. This is especially helpful for clients with reduced dexterity or mobility of the hands, such as stroke patients. These details make the Xtern Frontier a strong AFO that doesn’t compromise on comfort or support.

The design of the Turbomed Frontier is based on the same technological, comfort and performance requirements as the previous product lines. This second generation also benefits from our latest in-house MONOCORE Technology ®,which focuses on sustained durability.





THE XTERN FRONTIER IS GETTING AN UPGRADE

Put down the drill! The Xtern Frontier can now be assembled without any power tools or additional holes, thanks to its new MONOCORE Technology® It now boasts a one-piece body.

The Xtern Frontier is now equipped with pre-installed pressure screws. Combined with the MONOCORE Technology, this increases the durability and strength of the Frontier through reduced stress distribution.

Our new, redesigned assembly guide is now more user friendly with pictograms and minimal text.

* Photo credit: Bauerfeind

ADVANTAGES

NO SKIN CONTACT

Exoskeleton design fits onto the outside of the shoe without touching the foot or the ankles

ADAPTABLE

Easily conforms to uneven ground and slopes

SUPERIOR FRONTAL SUPPORT

Unique front leg support makes the Frontier easy to put on while attached to the shoe



* FDA Registration No: 3011816892 FDA Medical Device Listing no: D246429
* Health Canada Medical Device Establ. Lic. No 6354 Class I
* U.S. Patent No.8529484 – Canadian Patent 2692534 – Europe Patent EP 2533734 - International Patent Pending

MAGNETIZED STRAP

New magnetized velcro strap can be opened and closed with one hand

SYMMETRICAL DESIGN

Simplifies the assessment process by fitting both left and right foot



ENHANCED STABILITY

Design allows for 25% more ankle stability over previous models

VERSATILE

Goes from shoe to shoe in 5 seconds. Fits majority of shoes



AVAILABLE ACCESSORIES



ANKLE STABILISATION STRAP

Clinical Indications :

- Mild and Moderate Ankle Instability
- Ankle Inversion
- Ankle Eversion



EXTENSION STOPPER KIT

The Extension Stopper makes the Xtern more rigid and stops at 90 degrees.

Clinical indications :

- Foot slap
- Slight knee hyperextension
- More lift required
- Spasticity

HEEL BUMPER STOP KIT



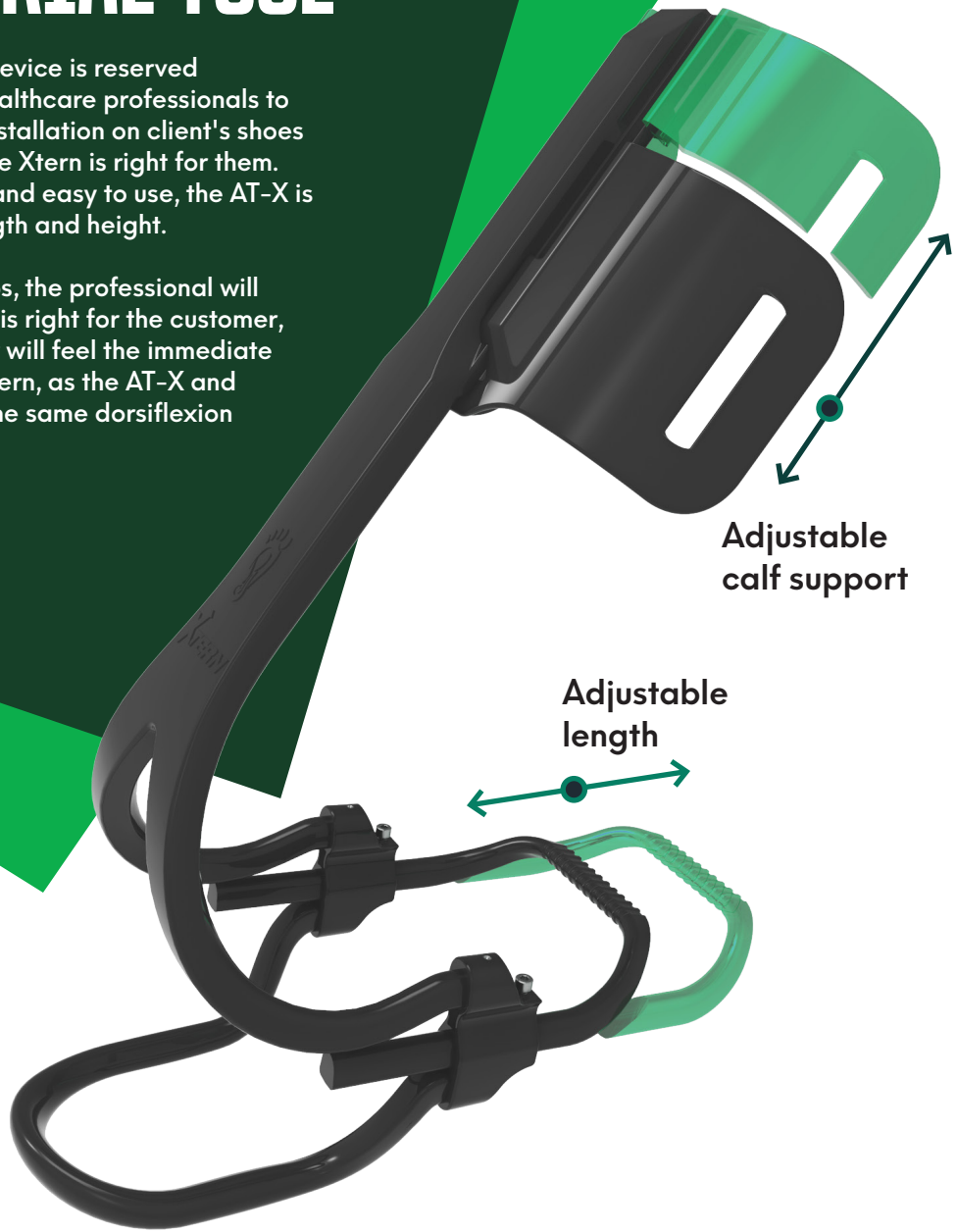
WHICH XTERN IS YOURS?

	XTERN CLASSIC+ 	XTERN SUMMIT 	XTERN FRONTIER 
100% dynamic AFO	✓	✓	✓
No skin contact	✓	✓	✓
Symmetrical design	✓	✓	✓
See through design	✓	✓	
Lace clip technology	✓	✓	✓
Lace clips included	5	10	5
Magnetized strap			✓
Easy rear entry			✓
Soft parts kit included	1	2	1
Warranty on plastic and carbon fiber parts	2 years	3 years	2 years
Insurance coverage such as VA, Medicare and MedicAid	✓	✓	✓
HCPCS code PDAC approved	L1951	L1951	L1932
Dynamic thermoplastic Carbon fiber Polymer composite	70% - 30%	70% 20% 10%	44% - 56%
Improvements over the original Xtern	+35% medial-lateral strength +18% dorsi-flexion power 15% lighter	+35% medial-lateral strength +18% dorsi-flexion power 15% lighter	+ 25% medial-lateral stability

AT-X TRIAL TOOL

The AT-X try on device is reserved exclusively for healthcare professionals to allow for quick installation on client's shoes to determine if the Xtern is right for them. Fully assembled and easy to use, the AT-X is adjustable in length and height.

In only a few steps, the professional will know if the Xtern is right for the customer, and the customer will feel the immediate benefits of the Xtern, as the AT-X and the Xtern share the same dorsiflexion assistance.



CLINICAL INDICATIONS

- Stroke (CVA)
- Drop foot
- Dorsiflexion weakness
- Peroneal nerve injury
- Idiopathic Toe-walking
- Charcot Marie Tooth (CMT)
- Multiple Sclerosis (MS)
- Cerebral Palsy (CP)
- Hemiplegia
- Guillain-Barre Syndrome (GBS)
- Motor neuropathy
- Motor Neurone Disease (MND)
- Back injury or surgery
- Cancer
- Knee injury or surgery

KNOWN CLINICAL LIMITATIONS

- × Inappropriate footwear
- × Gross fixed deformities of foot or ankle
- × Severe spasticity
- × Quadriceps weakness
- × Severe knee weakness
- × Crouch gait





SIZING CHART

An assessment from a healthcare professional is recommended to confirm whether the indications and limitations listed below make the patient a candidate for the Xtern. Sizing can then be determined using the patient's foot width and length.

* HCPCS Code L1932: Afo, rigid anterior tibial section, total carbon fiber or equal material, prefabricated, includes fitting and adjustment
* Suggested L codes. The responsibility for accurate coding lies with the patient care facility that selects the product, fits the patient, and bills for the service

SHOE SIZE				XTERN KIT SIZE SELECTION		
US		UK	EU	PRODUCT: 102100-SA-L	PRODUCT: 102100-SA-M	PRODUCT: 102100-SA-S
MEN	WOMEN			LARGE	MEDIUM	SMALL
16		15.5	51	●		
15.5		15	50.5	●		
15		14.5	50	●		
14.5		14	49.5	●		
14		13.5	49	●		
13.5		13	48	●		
13		12.5	47.5	●		
12.5		12	47	●		
12		11.5	46.5	●		
11.5		11	46	●	●	
11		10.5	45	●	●	
10.5	11.5	10	44.5		●	
10	11	9.5	44		●	
9.5	10.5	9	43		●	
9	10	8.5	42.5		●	
8.5	9.5	8	42		●	
8	9	7.5	41.5		●	●
7.5	8.5	7	40.5		●	●
7	8	6.5	40			●
6.5	7.5	6	39			●
6	7	5.5	38.5			●
5.5	6.5	5	38			●
5	6	4.5	37.5			●
4.5	5.5	4	37			●
4	5	3.5	36			●
3.5	4.5	3	35.5			●
3	4	2.5	35			●
2.5	3.5	2	34.5			●

● Upgrade to alternate size according to shoe or foot width

MEET THE MAKERS



STÉPHANE SAVARD

Stéphane Savard has been an entrepreneur and businessman for more than 35 years. Following his studies in prosthetic orthoses, he became a shareholder in the family business designing, manufacturing, adjusting and repairing all orthoses available on the market, both in the laboratory and in hospitals. He also worked closely with health professionals to satisfy customers requiring orthotics and/or technical aids.

Stéphane has been working full time for TurboMed Orthotics since January 2015, and owns all shares alongside two members of his family.



FRANÇOIS CÔTÉ

François Côté has been a mechanical engineering and naval architecture designer for Groupe Océan for over 20 years. He's worked in research and development on the design and construction of new fleet tugs, and has been involved in the engineering of several bold and far-reaching projects such as Groupe Océan shipyard's new haulage system at L'Île-aux-Coudres.

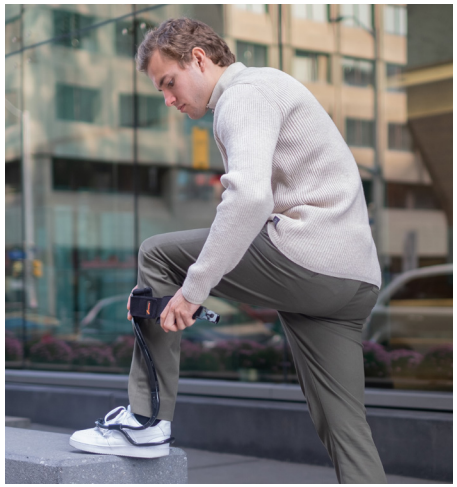
In 2001, Francois suffered a serious snowmobile accident, breaking his 2 legs and 2 knees. This left him with various disabilities, including a full foot drop on the left leg. This accident affected his personal and sporting life, but didn't extinguish his desire to push his limits.



Christiane, a foot drop patient following back surgery, wearing her Xtern Frontier during a surf expedition.

THE FOOT DROP CLUB IS MAKING STRIDES







James, CMT triathlete from Hawaii, wandering a park in Leipzig, Germany



Lennart, a foot drop patient from the Netherlands, walking the rainy streets of Leipzig, Germany.





Carolin, an MS patient and musician from Germany, visiting the Leipzig Modern Art Museum.



Jesse, from Australia, wearing the Xtern Frontier during his solo Costa Rica Crossing.



Connect with others!
Turbomed Foot Drop Club

Diane Draydon, foot drop patient from a back injury and co-founder of the Turbomed Foot Drop Club, in Tararua Forest (New Zealand) with her dog Beck.



Turbomed Orthotics

Turbomed Foot Drop Club (Customer club)

Turbomed

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