



PERSONALIZED BLOOD FLOW RESTRICTION

2026

PTS Generation 3 ***Delfi**

    90% 


68 / 512


164 / 512


15
15
15
30

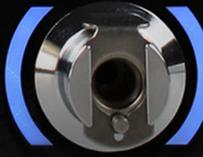
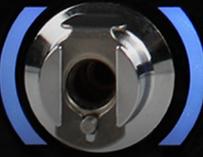

8'00

 72 **0** mmHg

LOP

INFLATE

 50 **0** mmHg



PTS for BFR

Dual Channel

Advanced. Adaptive. Clinician-Trusted.

Unlock the next generation of Blood Flow Restriction (BFR) therapy with the Delfi [Gen 3 Tourniquet System](#)—created to support the demands of clinicians, athletic trainers, and athletes alike. Featuring dual independent pneumatic channels, the device enables fully customized bilateral BFR or ischemic preconditioning protocols, each with its own automatic LOP measurement, pressure control, and safety monitor.

New capabilities include audiovisual repetition guidance to maximize adherence and outcomes, wireless EMG integration for real-time biofeedback, and customizable training protocols for strength, endurance, and IPC applications. Surgical-grade pressure autoregulation maintains precise occlusion throughout every session, ensuring safety and consistency. The system also introduces a large, responsive 7" touchscreen with an intuitive interface, plus a 24-hour dual-battery life and tool-free pole mount for flexibility in clinical and training environments.

Built-in protections such as safe max pressure/time limits, reperfusion lockout timers, and continuous system self-checks further enhance safety. Certified to IEC 60601 and manufactured under ISO 13485, the [Gen 3](#) provides safer, smarter, and more effective BFR therapy—backed by clinical precision and Delfi's proven innovation.



SYSTEM FEATURES

DUAL INDEPENDENT PNEUMATIC CHANNELS

Train both limbs simultaneously with fully independent pressure control, LOP measurement, and safety monitoring—enabling customized bilateral BFR and IPC protocols for enhanced effectiveness and efficiency

PATENTED AUTOMATIC LOP MEASUREMENTS

Delivers accurate, personalized pressure for each user, enabling safe, effective, and predictable BFR therapy outcomes—clinically validated and backed by peer-reviewed research

WIRELESS EMG INTEGRATION

Seamlessly connect up to 2 wireless EMG sensors for real-time muscle activation biofeedback, improves training precision and supports clinical billing integration

REPETITION GUIDANCE

Real-time audiovisual cues guide cadence and rep count for better adherence and training outcomes

CUSTOMIZABLE PROTOCOLS

Offers basic and advanced pre-programmed protocols for all user levels—supporting proper pacing and execution of strength protocols through the repetition guidance feature and timed modes. Includes customizable synchronous and alternating pressure cycling modes for tailored bilateral endurance and IPC training using patented IPC technologies

PROPRIETARY & VALIDATED PRESSURE AUTOREGULATION

Continuously adjusts cuff pressure in real time to maintain the desired BFR stimulus, ensuring consistent, safe, and effective training throughout the entire session

SAFE MAX PRESSURE AND TIME LIMITS

Built-in safety thresholds prevent excessive BFR training pressure or time

REPERFUSION TIMER

Assures recovery periods between cuff inflations to allow proper blood reperfusion, enhancing safety and reducing the risk of tissue damage

BUILT-IN SAFETY & PERFORMANCE CHECKS

Auto self-test and calibration at startup, and continuous system monitoring to verify system function, accuracy and performance

REAL-TIME CALIBRATED PRESSURE DISPLAY

Provides accurate, and immediate feedback on cuff pressure, ensuring precise control and safety

PRESSURE APPLICATION TIMER

Tracks and displays inflation time for optimal session management and safe BFR training

MEDICAL CERTIFICATIONS

FDA-listed Class I medical device, and certified to IEC 60601 and ISO 13485 standards, ensuring medical-grade safety, performance, and manufacturing quality for clinical reliability and compliance

PATENTED, MEDICAL-GRADE TOURNIQUET CUFFS

Easy-to-apply, wider contoured cuffs provide greater overall safety by distributing pressure evenly across the limb, reducing required pressures and improving safety and comfort

EXTENDED BATTERY LIFE

Up to 24 hours of continuous use with dual rechargeable lithium-ion batteries. The quick-swap design enables fast, tool-free battery replacement

ENHANCED TOUCHSCREEN DISPLAY

A large, responsive 7" color display with an improved intuitive interface for faster, easier, and error-free setup

USB-ENABLED REMOTE FIRMWARE UPDATE

Easily update firmware via USB to keep the system up to date

CUSTOM BRANDING OPTION

Upload a branded screensaver via USB for a personalized, professional look

FLEXIBLE POLE MOUNT

Tiltable design ensures optimal visibility, with quick, tool-free attachment and removal from Delfi roll stands—perfect for busy clinical environments and portable use

SESSION HISTORY

Automatically displays session data for easy progress tracking, performance monitoring, and protocol adjustments

INTEGRATED LEAK TEST

Auto-detects air leaks in the system and cuffs to ensure optimal operation

VISUAL STATUS INDICATORS

Integrated color-coded port illuminators provide at-a-glance insight into system and channel activity for quick, intuitive monitoring



PTS for BFR

Single Channel

A Personalized Approach with Predictable Results

The [PTS Personalized Tourniquet System for Blood Flow Restriction \(BFR\)](#) has been specifically designed to safely regulate and control tourniquet pressure for Blood Flow Restriction applications.

The patented technology in the [PTS for BFR](#) is based on Delfi's proven surgical tourniquet instruments and cuffs, and includes advanced personalization and safety features developed specifically for BFR applications.

The [PTS Personalized Tourniquet System for BFR](#) facilitates the safe use of proven BFR rehabilitation training methods and helps provide optimal clinical outcomes. Featuring preset upper and lower limb therapy protocols recommended by Owens Recovery Science for strength, endurance, and cyclic BFR make set-up quick and easy.

(Intended for use on those patients for whom a physician or physician's designated licensed health care practitioner has indicated perioperative blood flow restricted exercise.)

A REVOLUTION IN MUSCLE RECOVERY



SYSTEM FEATURES

PATENTED AUTOMATIC LOP MEASUREMENTS

Delivers accurate, personalized pressure for each user, enabling safe, effective, and predictable BFR therapy outcomes—clinically validated and backed by peer-reviewed research

12 CUSTOMIZABLE BFR PROTOCOLS

Designed for rehabilitation and performance goals – adjustable for timing, repetitions, pressure, and cycles allowing users and clinicians to tailor sessions to specific rehabilitation or performance goals

PROPRIETARY & VALIDATED PRESSURE AUTO REGULATION

Continuously adjusts cuff pressure in real time to maintain the desired BFR stimulus, ensuring consistent, safe, and effective training throughout the entire session

SAFE MAX PRESSURE AND TIME LIMITS

Built-in safety thresholds prevent excessive BFR training pressure or time

REPERFUSION TIMER

Assures recovery periods between cuff inflations to allow proper blood reperfusion, enhancing safety and reducing the risk of tissue damage

BUILT-IN SAFETY & PERFORMANCE CHECKS

Auto self-test and calibration at startup, and continuous system monitoring to verify system function, accuracy and performance

REAL-TIME CALIBRATED PRESSURE DISPLAY

Provides accurate, and immediate feedback on cuff pressure, ensuring precise control and safety

PRESSURE APPLICATION TIMER

Tracks and displays inflation time for optimal session management and safe BFR training

MEDICAL CERTIFICATIONS

FDA-listed Class I medical device, and certified to IEC 60601 and ISO 13485 standards, ensuring medical-grade safety, performance, and manufacturing quality for clinical reliability and compliance

PATENTED, MEDICAL-GRADE TOURNIQUET CUFFS

Easy-to-apply, wider contoured cuffs provide greater overall safety by distributing pressure evenly across the limb, reducing required pressures and improving safety and comfort

RELIABLE POWER FOR CLINICAL USE

Rechargeable lithium-ion battery delivers long-lasting power, supporting up to 10 hours of typical operation – ideal for daily use without interruption

COMPACT, INTUITIVE INTERFACE

5" color touchscreen display provides a user-friendly interface for easy navigation and control of BFR training settings and protocols

POLE-MOUNTABLE & PORTABLE

Easily attachable to Delfi roll stands for convenient mobility in clinical or performance settings

SESSION HISTORY

Automatically displays session data for easy progress tracking, performance monitoring, and protocol adjustments

INTEGRATED LEAK TEST

Auto-detects air leaks in the system and cuffs to ensure optimal operation



EASI-FIT

Variable Contour and Cylindrical BFR Cuffs

Delfi's [Easi-Fit](#) Tourniquet Cuffs for Blood Flow Restriction (BFR) are uniquely designed to make cuff application easy and consistent. The contour cuff shape in combination with a patented variable fastener allows a superior personalized fit along both proximal and distal edges of the cuff to help lower limb occlusion pressure.

[Easi-Fit](#) Tourniquet Cuffs for BFR are available in four standard lengths 18", 24", 34" and 44" to accommodate a wide range of limb circumferences.

Matching Limb Protection Sleeves are recommended to help protect the skin beneath the cuff while the cuff is pressurized.

ULTIMATE IN EASY AND
CONSISTENT APPLICATION



FEATURES

OFFSET PORT DESIGN

Takes the guesswork out of port location, allows the ports to be positioned in the desired location prior to securing the cuff around the limb

CONTOUR CUFF SHAPE

In combination with a unique variable fastener allows a superior fit along both proximal and distal edges of the cuff

VARIABLE FASTENER

Allows the cuff to conform to a wide range of limb shapes for uniform transfer of cuff pressure across the entire cuff width to help lower limb occlusion pressure

APPLICATION HANDLE

Makes cuff application more consistent, opens to make cuff removal faster and helps maintain the cuff in a stable position on the limb

SECONDARY FASTENER

For enhanced stability and ease of application

CUFF APPLICATION "EASI" AS 1,2,3

1



Grasp the application handle and position the ports on the limb at the desired location

2



Slide the securing strap under the handle

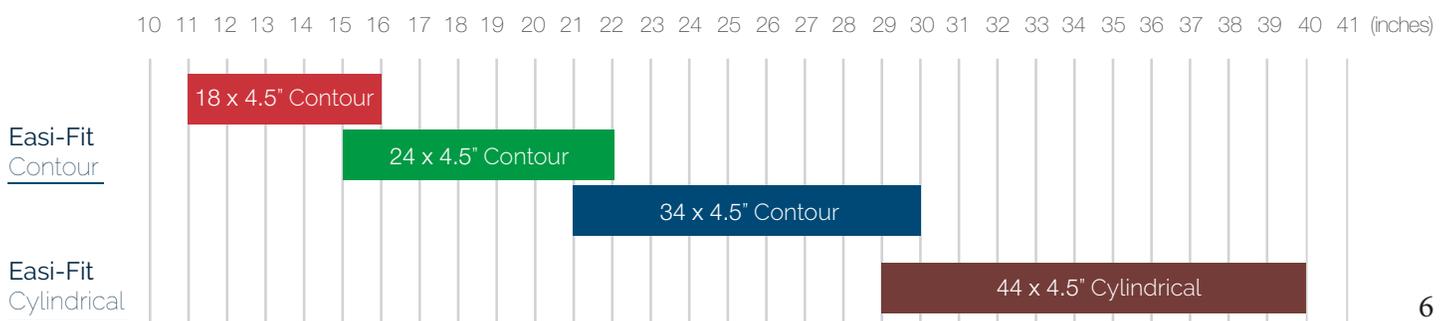
3



Tension the cuff for a snug application and secure the strap



Easi-Fit BFR Limb Circumference Range



MLPS

Matching Limb Protection Sleeves

Delfi's Matching Limb Protection Sleeves (MLPS) are uniquely matched to the size and shape of each specific Delfi cuff model, to provide optimal personalized limb protection.

Delfi's MLPS help protect underlying skin and soft tissues from injuries such as pinching, wrinkling and shearing. The use of Delfi MLPS is supported by published surgical literature.

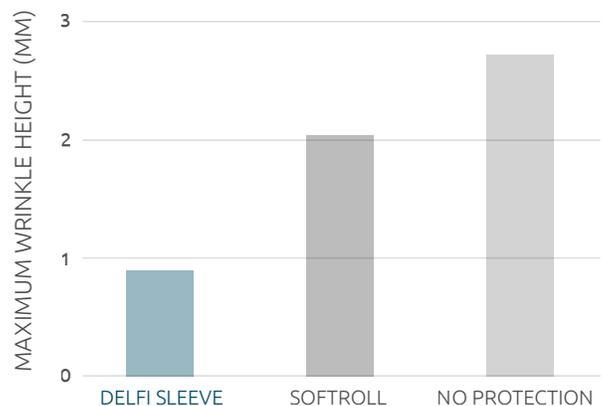
As recommended in current AORN Standards, Recommended Practices and Guidelines, using appropriate limb protection under the cuff can significantly reduce soft tissue damage

Every Delfi Easi-fit BFR reusable cuff includes one Matching Limb Protection Sleeve (MLPS). For MLPS selection refer to Purchasing Guide.



LIMB PROTECTION COMPARISON

In extensive testing using a molding and digitizing technique, results have shown that a fitted sleeve that is matched to a specific cuff and that applies a controlled amount of compression to the limb virtually eliminates pinching and wrinkling of the underlying skin reducing localized pressure gradients, which can result in soft tissue damage.



CLASSIC MULTIPLE-USE MLPS

SINGLE PATIENT



FEATURES

- Quick and easy application
- Soft and wrinkle-free
- Two layers of protection
- Prevents skin entrapment at cuff overlap
- Latex-free
- Save time with colour coding for easy selection
- Protects skin from pinching and shearing
- Does not clog hook fasteners
- Helps extend the life of reusable cuffs
- Non slippery material prevents cuff from sliding
- Classic Multiple-Use MLPS may be used multiple times by a single patient

ECO SINGLE-USE MLPS

SINGLE PATIENT



ADDITIONAL FEATURES

Applicable to the Eco Single-Use MLPS

- Helps reduce cross contamination of tourniquet cuffs
- Easy tear seam removal
- Absorbent cloth-like fibers

Delfi's new disposable [Matching Limb Protection Sleeves](#) promote improved hygiene and help reduce cross contamination of tourniquet cuffs. The new patented design is the ultimate solution in single-use limb protection, made of soft absorbent material with a unique tear seam for easy removal.

BAGS

PTS Transport Bags

Delfi's [PTS Transport Bags](#) are crafted for durable, organized, and easy-access storage, keeping essentials protected. The ergonomic carrying strap delivers secure, comfortable transport while on the go.

TRANSPORT BAG FEATURES

- Rugged fabric construction
- Rubber feet
- Removable adjustable carrying strap
- Low profile handle
- Pass-through luggage pocket
- Business card holder
- Separate padded PTS case and cuff pouch

DIMENSIONS

SINGLE CHANNEL BAG

- Exterior (L×W×H) 16" x 8.5" x 9.5" in
- Weight empty 3 Lbs

DUAL CHANNEL BAG

- Exterior (L×W×H) 16" x 8.5" x 11" in
- Weight empty 3.5 Lbs

EVA CUFF CASE

- Exterior Diameter (D×H) 7.5" x 7.1" in
- Weight empty 1 Lbs



CASES

PTS Transport Cases

Delfi's **PTS Transport Cases** are custom-designed to hold a single or twin system, including accessories and cuffs. These lightweight, rugged cases are optimized for secure transport and storage, making them the ideal solution for clinicians on the move.

TRANSPORT CASE FEATURES

- Automatic purge valve - keeps water and dust out while balancing air pressure
- Watertight, crush-proof, and dust-proof
- Super-light polymer
- Custom fitted PTS foam insert
- Business card holder
- Temperature range - 60° / 160° F (-51° / 71° C)
- Limited lifetime warranty

DIMENSIONS

- Carry-on (for up to two Single Channel Systems)
- Exterior (LxWxD) 19.18" x 15.79" x 10.50" in
Weight empty 8.2 Lbs
- Carry-on with retractable extension trolley handle and Wheels (for up to two Single Channel, or one Dual Channel System)
- Exterior (LxWxD) 21.96" x 13.97" x 8.98" in
(55.8 x 35.5 x 22.8 cm)
- Weight empty 10 Lbs



Contents shown not included

ROLL STAND



PTS Roll Stand

The [PTS Roll Stand](#) is a strong and sturdy mobile stand for use in a wide range of healthcare and clinical environments, including rehabilitation clinics and training rooms. Designed to securely hold up to two separate PTS for BFR instruments, plus accessories.

The combination of a low-profile base, all-locking castors, and a solid aluminum column improves stability, and increases maneuverability. The included [PTS Roll Stand Basket](#) stores the tourniquet cuffs, keeps hoses tidy and makes access easy.

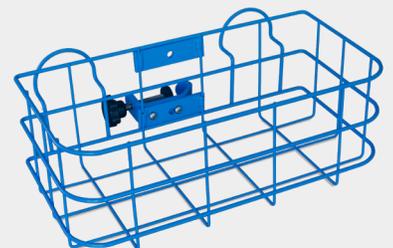
FEATURES

- Sturdy, mobile roll stand
- Durable rubber castors
- Accessory wire basket included, featuring dual hose management hooks
- Power Adapter Holder
- Small foot print
- Easy to clean design

DIMENSIONS

- 50.25" x 22" (Assembled)
- Weight 14 Lbs

Additional PTS Roll Stand Basket with mounting clamp can be purchased separately.



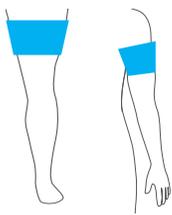
Delfi PTS for BFR Tourniquet Cuffs Selection & Application Guide



Recommended Tourniquet Cuff Selection

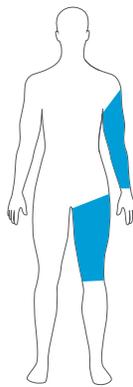
- Determine the patient's limb shape using diagrams below, then measure the limb circumference. For cuff size selection, next refer to the Limb Circumference Chart on page 4.
- To ensure the selected cuff is the correct size for the patient, verify there is sufficient overlap for the Secondary Fastener (located on underside) to fully engage with the loop material on surface of the cuff. Secondary Fasteners provide added stability to the cuff during use.

Tapered Adult Limbs



Select an Easi-Fit BFR Contour Cuff and Matching Limb Protection Sleeve

A unique contour shape and pivoting fasteners allow the cuff to conform to a variety of tapered (conical) limb shapes.

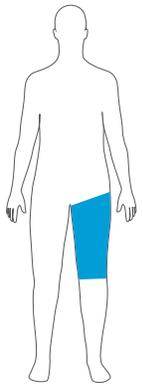
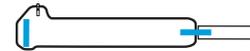


Cylindrical XL Adult Limbs



Select an Easi-Fit BFR Cylindrical Cuff and Matching Limb Protection Sleeve

A cylindrical cuff provides the best fit for cylindrical shaped and larger limbs.



Recommended Tourniquet Cuff Application

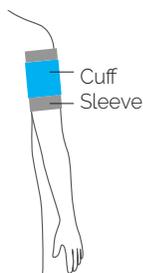
This Guide was prepared in consultation with James McEwen, PhD, the inventor of automatic tourniquets, to summarize relevant published guidelines and recommendations.*

Select the most appropriate tourniquet cuff considering limb size and shape:

- Cuff shape should allow a snug fit along both proximal and distal edges.
- Cuff width should be the greatest width that still assures recommended distances from cuff edges to limb joints.
- Cuff length should be the minimum that assures overlap around the limb sufficient to fully engage fasteners.

Use limb protection, ideally a sleeve specifically matched to the selected cuff.

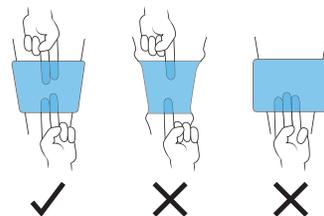
A limb protection sleeve matched to the size and shape of the selected cuff provides the best protection against skin wrinkling, bruising and other soft tissue injuries to the limb beneath the cuff.*



Apply the selected tourniquet cuff snugly on the limb, over limb protection.

A snugly applied cuff allows two fingers easily under the cuff at both proximal and distal edges. If only one finger fits, the cuff is too tight; if three fingers fit, the cuff is too loose.

A loose cuff will require higher pressure to stop blood flow and may slide to an unsafe position on the limb during use. A tight cuff could impede venous return of blood from the limb even when deflated.



An automatic tourniquet instrument with modern safety features and audio-visual alarms should be used with the cuff.

The optimum tourniquet pressure for each patient and cuff application can be set or checked by measuring Limb Occlusion Pressure (LOP).*

Monitoring of tourniquet safety parameters reduces the risk of complications. During treatment, it is important to monitor tourniquet pressure and time, and to minimize both.

Upon final deflation of the tourniquet, the tourniquet cuff and underlying limb protection should be immediately removed from the limb.

* Refer to www.tourniquets.org for an expanded guide and relevant references.

WARNING: For specific tourniquet instruments and cuffs, always follow manufacturers' instructions.

Delfi PTS for BFR Systems Purchasing Guide



PTS BFR Generation 3 Tourniquet System & Cuff Set - Dual Channel

9-2500-400BFR

(1)	PTS BFR System	9-2500-002BFR	(1)	Mounting Bracket	9-2500-012
(2)	18" Easi-Fit BFR Cuff	9-7550-018	(1)	Power Supply	9-2200-020
(2)	24" Easi-Fit BFR Cuff	9-7550-024	(2)	Single Hose, 11ft	9-2200-025
(2)	34" Easi-Fit BFR Cuff	9-7550-034	(2)	Lithium-ion Battery	9-2200-046
(1)	PTS Transport Bag	9-2200-330	(1)	EMG Sensor Kit	9-2500-015



PTS BFR Tourniquet System & Cuff Set - Single Channel

9-2200-200BFR

(1)	PTS BFR System	9-2200-001BFR	(1)	Mounting Bracket	9-2200-008
(1)	18" Easi-Fit BFR Cuff	9-7550-018	(1)	Power Supply	9-2200-020
(1)	24" Easi-Fit BFR Cuff	9-7550-024	(1)	Single Hose, 11ft	9-2200-025
(1)	34" Easi-Fit BFR Cuff	9-7550-034	(1)	Lithium-ion Battery	9-2200-046
(1)	PTS Transport Bag	9-2200-310			

Delfi PTS for BFR Systems Purchasing Guide

Easi-Fit BFR Cuffs, Reusable

Size (WxL)		
18" x 4.5"	Contour	9-7550-018
24" x 4.5"	Contour	9-7550-024
34" x 4.5"	Contour	9-7550-034
44" x 4.5"	Cylindrical	9-7550-044



*Delfi BFR Tourniquet Cuffs are latex free, with quick-connect connectors, and include one Matching Limb Protection Sleeve (MLPS).

Easi-Fit BFR Matching Limb Protection Sleeves (MLPS), Single Patient

	Classic Multiple-Use	Eco Single-Use
18" MLPS 	9-7950-018 (10 per box)	9-7960-018 (25 per box)
24" MLPS 	9-7950-024 (10 per box)	9-7960-024 (25 per box)
34" MLPS 	9-7950-034 (10 per box)	9-7960-034 (25 per box)
44" MLPS 	9-7950-044 (5 per box)	9-7960-044 (12 per box)
Multi Pack Set (4 of each 18"/24"/34")	9-7950-300 (12 per box)	



Replacement Parts PTS BFR Generation 3, Dual Channel

PTS Transport Bag w/ PTS Case & Cuff Pouch	9-2200-330
Power Supply	9-2200-020
Lithium-ion Battery	9-2200-046
Mounting Bracket	9-2500-012
Single Hose, 11ft	9-2200-025



Replacement Parts PTS BFR, Single Channel

PTS Transport Bag w/ PTS Case & Cuff Pouch	9-2200-310
Power Supply	9-2200-020
Lithium-ion Battery	9-2200-046
Mounting Bracket - Single	9-2200-008
Mounting Bracket - Dual	9-2200-009
Single Hose, 11ft	9-2200-025



Accessories

PTS Roll Stand with Basket	9-2200-550
PTS Portable Basket w/ Pole Clamp	9-2200-501
PTS Transport Case w/ Foam Insert	9-2200-410
JuiceBlok AC Power Bank	9-2200-600
PTS Transport Case w/ Wheels w/ Foam Insert, Single Channel	9-2200-420
PTS Transport Case w/ Wheels w/ Foam Insert, Dual Channel	9-2200-425



JUICEBLOK

The **JUICEBLOK** power bank will keep your PTS charged up on-the-go!



The **JUICEBLOK** is the perfect mobile power solution for use in the clinic or in the field, featuring a 150Wh battery capacity, designed to safely work with PTS tourniquet instruments. The sleek 3.5 pound tower design is durable, with base plates for mounting to the **PTS Roll Stand** for ultimate portability. A fully charged **JUICEBLOK** provides enough juice to run a PTS for up to 19 hours or charge a PTS three times!

About Us

Delfi Medical Innovations is a world leader in advancing tourniquet safety and technology. Members of Delfi's team have been exclusively involved in tourniquet development and evaluation for more than 40 years.

Delfi's patented tourniquet instruments and tourniquet cuffs have been designed to help surgeons, operating-room nurses and rehabilitation professionals provide personalized safe and effective care for their patients.

Contact Us

For purchasing information contact us at:
1.800.933.3022 (US & Canada)
+ 604.742.0600 (Elsewhere)
sales@delfimedical.com

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Vancouver, BC Canada V6H 1C3

To learn more on how our tourniquet systems help provide personalized safe and effective care for your patients visit:
www.delfimedical.com

