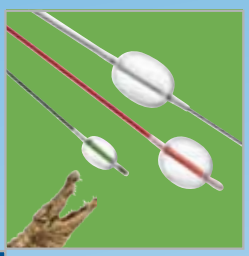
LeMaitre® VASCULAR

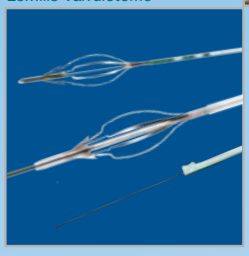
Your Peripheral Vision®

Product Catalogue

LeMaitre® Embolectomy Catheters



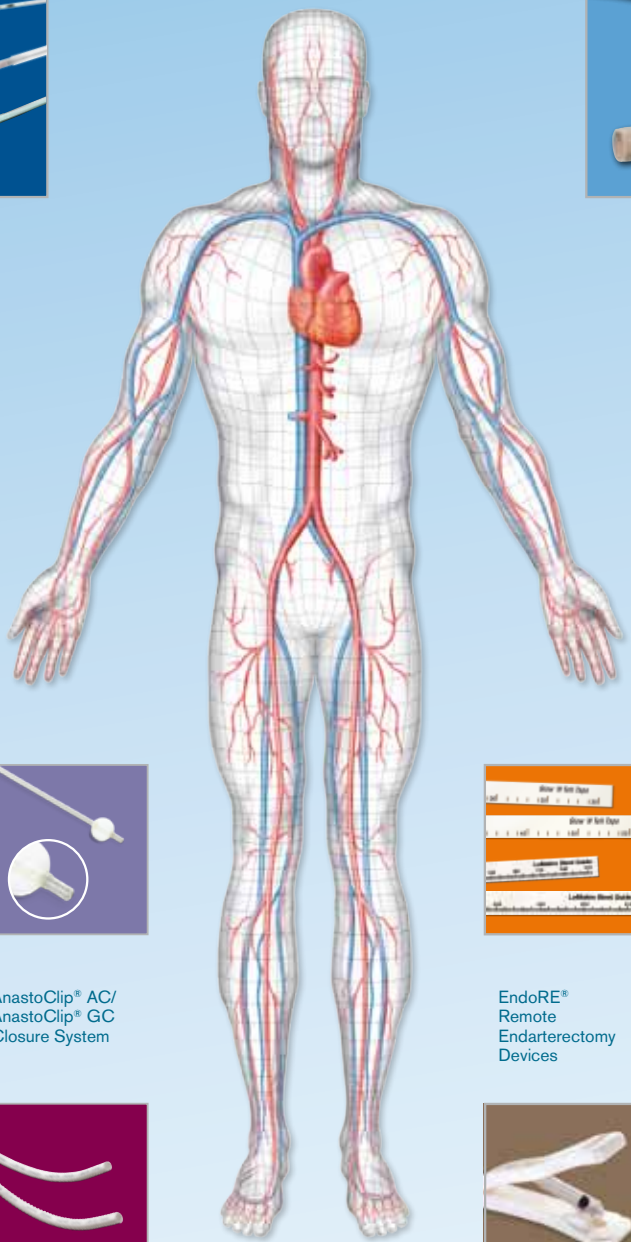
HYDRO LeMaitre® Valvulotome - 1.5 mm, Over-the-Wire LeMaitre® Valvulotome, LeMills Valvulotome



XenoSure® Biologic Patch

XenoSure® Biologic Pledgets

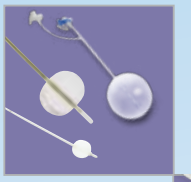
Omniflow® II Biosynthetic Vascular Prosthesis



AlboSure® Polyester Vascular Patch

Pruitt F3® & F3®-S Carotid Shunt Flexcel Carotid Shunt

Pruitt® Occlusion Catheters, LeMaitre® Aortic Occlusion Catheters



AlboGraft® Polyester Vascular Graft

LeMaitre® Distal Perfusion Catheter

VascuTape® Radiopaque Marking Tape

AnastoClip® AC/ AnastoClip® GC Closure System

EndoRE® Remote Endarterectomy Devices

LifeSpan® ePTFE Vascular Graft

LeverEdge® Contrast Injector

LeMaitre Vascular Global Locations

Sales Office
Vaughan, ON Canada

Corporate Headquarters
Burlington, Massachusetts USA

International Headquarters
Sulzbach, Germany

Asian Headquarters
Tokyo, Japan

Sales Office
Madrid, Spain

Sales Office
Milan, Italy

Sales Office
Shanghai, China

Sales Office & Manufacturing
Melbourne, Australia

Trademarks

LeMaitre, AlboGraft, AlboSure, AnastoClip, AnastoClip GC, EndoRE, Glow 'N Tell, LifeSpan, LeverEdge, MollRing Cutter, MultiTASC, Omniflow, Pruitt F3, Reddick, VascuTape and XenoSure are registered trademarks of LeMaitre Vascular, Inc. or one of its affiliates.

Pebax is a registered trademark of Arkema France, Ato Chimie.

LeMaitre Vascular Patents

For information on LeMaitre Vascular patents, please visit our website www.lemaitre.com/patents.ASP .

- The specifications in this product catalogue are not intended as a warranty.
- In the interest of product improvement, the specifications in this product catalogue may change from time to time without notice.
- Please consult the respective instruction for use for information on indications, contraindications, risks, precautions, warnings and device handling.

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LeMaitre Vascular Company Information

Corporate Headquarters
Burlington, Massachussetts

International Headquarters
Sulzbach, Germany

Asian Headquarters
Tokyo, Japan

About LeMaitre Vascular

George D. LeMaitre, MD, a practicing vascular surgeon, was not satisfied with the devices that were available to him in his own practice. After years of trying to sell his idea for a valve-cutting instrument to a large, established company without success, Dr. LeMaitre began working with an engineer to design the device himself. His first creation was a type of valvulotome that could be used to lyse valves in peripheral veins without the burdensome requirement of direct vision. By using this device, a vascular surgeon could prepare veins for arterial bypass, with smaller incisions and less tissue trauma. Dr. LeMaitre was so pleased with the success of this instrument that he felt other vascular surgeons might also want to know about it. As a result, Dr. George D. LeMaitre started a small company, LeMaitre Vascular, in 1983 to introduce the LeMaitre valvulotome, our first product, to his colleagues.

Over the years we have remained focused on the needs of vascular surgeons while also addressing the needs of interventional radiologists and cardiologists when they work in peripheral vessels. As a leading global provider of innovative devices for the treatment of peripheral vascular disease we develop, manufacture, and market disposable and implantable vascular devices for use in both open vascular surgery and minimally invasive procedures. Our diversified product portfolio consist of well-known brand name products used in arteries and veins outside of the heart and are supported by a growing, specialized and highly trained organization of vascular sales professionals.

The company will continue to expand and diversify its product portfolio through acquisitions and internal research and development. The company follows its vascular surgeon customer base as it transitions from traditional open surgery to endovascular procedures. As the company has grown, it has focused increasingly on differentiated product platforms.

Locations

Corporate Headquarters - LeMaitre Vascular, Inc.
The corporate headquarters for LeMaitre Vascular are located in Burlington, Massachusetts (USA), northwest of Boston.
The corporate headquarters serve the needs of the United States, Canada, Central and South America, China and Australia as well as housing our manufacturing facility.
LeMaitre Vascular, Inc., 63 Second Avenue, Burlington, MA 01803, USA
Tel: +1-781 221 2266, Fax: +1-781 425 5049

International Headquarters - LeMaitre Vascular GmbH
Our international headquarters are located in Sulzbach, Germany, nearby Frankfurt. Centrally located in Europe, the Sulzbach office serves the needs of LeMaitre Vascular's customers in Europe, Africa, Asia, and the Middle East.
LeMaitre Vascular GmbH, Otto-Volger-Str. 5a/b, 65843 Sulzbach/Ts., Germany
Tel: +49 6196 65923-0, Fax: +49 6196 527072

Asian Headquarters - LeMaitre Vascular GK
Our Asian headquarters are located in Tokyo, Japan, and serve the needs of LeMaitre Vascular's customers in Japan, Korea, and Taiwan.
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Tel: +81-3 5215 5681, Fax: +81-3 5215 5682

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LeMaitre® VASCULAR
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LeMaitre® VASCULAR
Your Peripheral Vision™

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Our office hours are from 08:30 to 17:30 Central European Time (CET).

When located in the countries below, the local telephone/fax numbers or e-mail address can be used to contact our customer service and/or place your orders.

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Symbols for use in the Labeling of our Medical Devices

This is an overview of common symbols used in labeling of our medical devices. It shall not replace the Norm EN980 in its current version.

Symbol	Meaning	Example/Explanation
	Symbol for “DO NOT REUSE” Synonyms for “Do not reuse” are “single use”, “Use only once”.	Product must be used only once
	Symbol for “DO NOT RESTERILIZE”	The product can only be used once and cannot be resterilized.
	Symbol for “USE BY” This symbol is accompanied by a date to indicate that the device should not be used after the end of the year, month or day shown.	Must not be used after the indicated date (e.g. 2017-05 = May 2017)
	Symbol for “DO NOT USE IF PACKAGE IS DAMAGED” Synonym for “Do not use if package is damaged” is “Do not use if the product sterilization barrier or its packaging is compromised.	If the packaging is damaged or opened the product is no longer sterile
	Symbol for “BATCH CODE” This symbol is accompanied by the manufacturer’s batch code. Synonyms for “batch code” are “lot number”, “batch number”.	These numbers for implantable devices should be documented in the patient file/OR file (e.g. 47236)
	Symbol for “SERIAL NUMBER” This symbol is accompanied by the manufacturer’s serial number.	The serial number is unique for this device. For implantable devices the SN, if available in addition to the LOT number, should be documented in the patient file/OR file (e.g. 30001234).
	Symbol for “DATE OF MANUFACTURE” This symbol is accompanied by a date to indicate the date of manufacture	 here: manufactured in May 2016
	“STERILE” incl. method of sterilization Symbol for “STERILIZED USING STEAM OR DRY HEAT”	Sterilized using steam or dry heat, mostly with material that can stand high temperatures (e.g. ePTFE vascular grafts)
	“STERILE” incl. method of sterilization Symbol for “STERILIZED USING ETHYLENE OXIDE”	Sterilized using Ethylene Oxide, mostly used with material that can not stand high temperatures (e.g. plastics, collagen impregnation)
	“STERILE” incl. method of sterilization Symbol for “STERILIZED USING IRRADIATION”	Sterilized using irradiation. Can be used with products that can be sterilized with high radiation (e.g. VascuTape)
	“STERILE” incl. method of sterilization Symbol for “STERILIZED USING ASEPTIC PROCESSING TECHNIQUES”	Sterilized using aseptic processing techniques, mostly used for material that can not be processed with any method above (e.g. biogical patches)
	Symbol for “CATALOGUE NUMBER” The manufacturer’s catalogue number is placed adjacent to the symbol	Please use this number for your orders with the company (e.g. 1601-48 or AMC1608)
	Symbol for “CAUTION” This symbol is essentially a safety symbol and is used to highlight the fact that there are specific warnings or precautions associated with the device, which are not otherwise found on the label.	Please read the attached instruction for use carefully. It contains important information.

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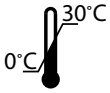
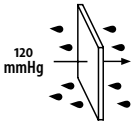
Symbols for use in the Labeling of our Medical Devices

Symbol	Meaning	Example/Explanation
	Symbol for “CONSULT INSTRUCTIONS FOR USE” Synonym for “Consult instructions for use” is “Consult operating instructions”.	Please read the attached instructions for use carefully. It contains important information.
	Symbol for “CONSULT ELECTRONIC INSTRUCTIONS FOR USE” Synonym for “Consult electronic instructions for use” is “Consult electronic operating instructions”.	Please read the electronic instructions for use to be found under https://eifu.lemaitre.com
	Symbol for “MANUFACTURER” This symbol is accompanied by the name and the address of the manufacturer	 LeMaitre Vascular, Inc. 63 Second Avenue Burlington, MA 01803 USA
	Symbol for “AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY” This symbol is accompanied by the name and the address of the authorised representative in the European Community, adjacent to the symbol.	 LeMaitre Vascular GmbH Otto-Volger-Str. 5a/b 65843 Sulzbach/Ts, Germany Tel. +49-(0)6196-659230
	Symbol for “DISTRIBUTED BY”	This symbol is accompanied by the name and the address of the distributor.
	Symbol for “TEMPERATURE LIMITATION” The upper and lower limits of temperature are indicated adjacent to the upper and lower horizontal lines	Do not expose this product to temperatures below 0°C and above 30°C. This can damage the product.
	Symbol for “TEMPERATURE LIMITATION” The lower limits of temperature are indicated below the symbol	Do not expose this product to temperatures below 0°C. This can damage the product. No upper temperature limit.
	Symbol for “KEEP AWAY FROM SUNLIGHT”	The products must be stored in an area not exposed to sunlight.
	Symbol for “KEEP DRY”	The products must be stored in a dry area.
	Symbol for “CONTAINS OR PRESENCE OF NATURAL RUBBER LATEX” This symbol is used only when natural rubber latex is a material of construction within the device or the packaging of a device.	This symbol is intended to warn those people who may have allergic reactions to certain proteins in natural rubber latex
	Symbol for “WATERPERMEABILITY” expressed in ml/ cm²/ min - measured acc. to ISO 7198-2	Used for Polyester fabric and depends on the porosity of the material and impregnation process. Expressed as the amount of water in ml that can pass through 1 cm² of the fabric at 120 mmHg in 1 minute.
	Symbol for “USABLE LENGTH”	Indicates the clinically usable length in cm. (e.g. 98 cm)
	Symbol for “INNER DIAMETER”	Indicates the inner diameter of a hollow, tube like device.
	Symbol for “OUTER DIAMETER”	Indicates the outer diameter of a hollow, tube like device.
	Symbol for “WALL THICKNESS”	This symbol is accompanied by a character that indicates the wall thickness of a product. (e.g. RW = regular wall or TW = thinwall)
	Symbol for “BALLOON CAPACITY”	Indicates the filling volume of an inflatable balloon.

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Symbols for use in the Labeling of our Medical Devices

Symbol	Meaning	Example/Explanation
MLC	Symbol for “MAXIMUM LIQUID CAPACITY”	Indicates the maximum capacity of liquid.
IBD	Symbol for “INFLATED BALLOON DIAMETER”	Indicates the diameter when the balloon is inflated with its indicated filling volume.
GW	Symbol for “GUIDE WIRE SIZE”	This symbol is accompanied by a number to indicate the diameter of the guidewire.
#	Symbol for “QUANTITY”	This symbol is accompanied by a number to indicate the quantity in the packaging.
	Symbol for “CONTENTS”	5 This symbol is accompanied by a number that indicates the quantity of products contained in the packaging. (e.g. here 5 units per pack)
	Symbol for “BIOHAZARD DISPOSABLE”	Indicates that the product must be discarded after usage with biohazard waste.
NON STERILE	Symbol for “NON STERILE”	Indicates that the product is supplied NON-STERIL and needs to be primary sterilized prior to use.
PHT DEHP	Symbol for “CONTAINS DIETHYLHEXYL PHTHALATE”	This symbol is used only when Diethylhexyl Phthalate is a material of construction within the device or the packaging of a device.
	Symbol for “DO NOT COIL”	Please do not coil the device during the intended usage to assure proper function.
D	Diameter of vascular grafts	When used on vascular grafts, D indicates the relaxed inner diameter without pressure of the graft (e.g. 6 mm).
D120	Diameter under pressure of 120 mmHg	When used with Polyester vascular grafts, D120 indicates the pressurized inner diameter of the graft at 120 mmHg acc. ISO 7192 (e.g. 7.2 mm).
Rx only	Caution: Federal USA law restricts this device to sale by or on the order of a physician.	Applies for the USA, but other local laws may also apply.
EXTERNAL SURFACE CONTACT ONLY	Symbol for “EXTERNAL SURFACE CONTACT ONLY”	Indicates that a product is indicated for external surface use only (e.g. VascuTape).
STORED IN 50% ETHANOL	Symbol for “STORED IN 50% ETHANOL”	Indicates that a product is stored in a 50% ethanol solution (e.g. Omniflow II).

(01)00840663105663
(10)LVG1895 (11)151128
(17)221028 (21)12345678*
(91)T06050C50

GS1 DataMatrix (2D-barcode) and Human Readable Interpretation, also for UDI purpose (Unique Device Identifier) - example with a square Data Matrix - a rectangular Data Matrix is also possible.

* (21) SN only for products with serial number

Explanation of GS1 DataMatrix

Application Identifier (AI)	Data Definition
(01)	Global Trade Item Number (GTIN)
(10)	Batch/LOT Number
(11)	Production Date YYMMDD
(17)	Expiration date YYMMDD
(21)	Serial Number (SN)*
(91)	Item-/Catalogue Number

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LeMaitre VASCULAR
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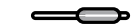
Symbols for use in the Labeling of our Medical Devices

Symbol	Meaning	Example/Explanation
 Maximum French Size of Deflated Balloon	Symbol for „MAXIMUM FRENCH SIZE OF DEFLATED BALLOON“	Indicates the outer diameter in French size over the non-inflated balloon portion.
 Inflated Diameter	Symbol for “INFLATED DIAMETER”	Indicates the max. diameter of an inflated balloon, filled with the max. liquid capacity indicated on the product or in the IFU.
AUS	Symbol for „AUSTRALIAN SPONSOR“ This logo is accompanied with the name and the address of the Australian Sponsor who acts as the In-country representative with the Australian TGA.	AUS Australian Sponsor Emergo Australia Level 20, Tower II, Darling Park 201 Sussex Street Sydney, NSW 2000, Australia
	Symbol for „FRAGILE CONTENT“ This symbol is used when the content of the packaging is fragile and requires cautious handling during transportation	Product is packed in a glass tube and might break if not handled with care during transportation and preparation. (e.g. straight Omniflow II products delivered in a sealed glass tube filled with a liquid storage solution)
 Not made with natural rubber latex	Symbol for “NOT MADE WITH NATURAL RUBBER LATEX” This symbol is used when natural rubber latex is not a material of construction within the device or the packaging of a device.	This symbol is intended to make people aware that there is no risk to use this product in people that may have allergic reactions to certain proteins in natural rubber latex.

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Notes

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LeMaitre® VASCULAR
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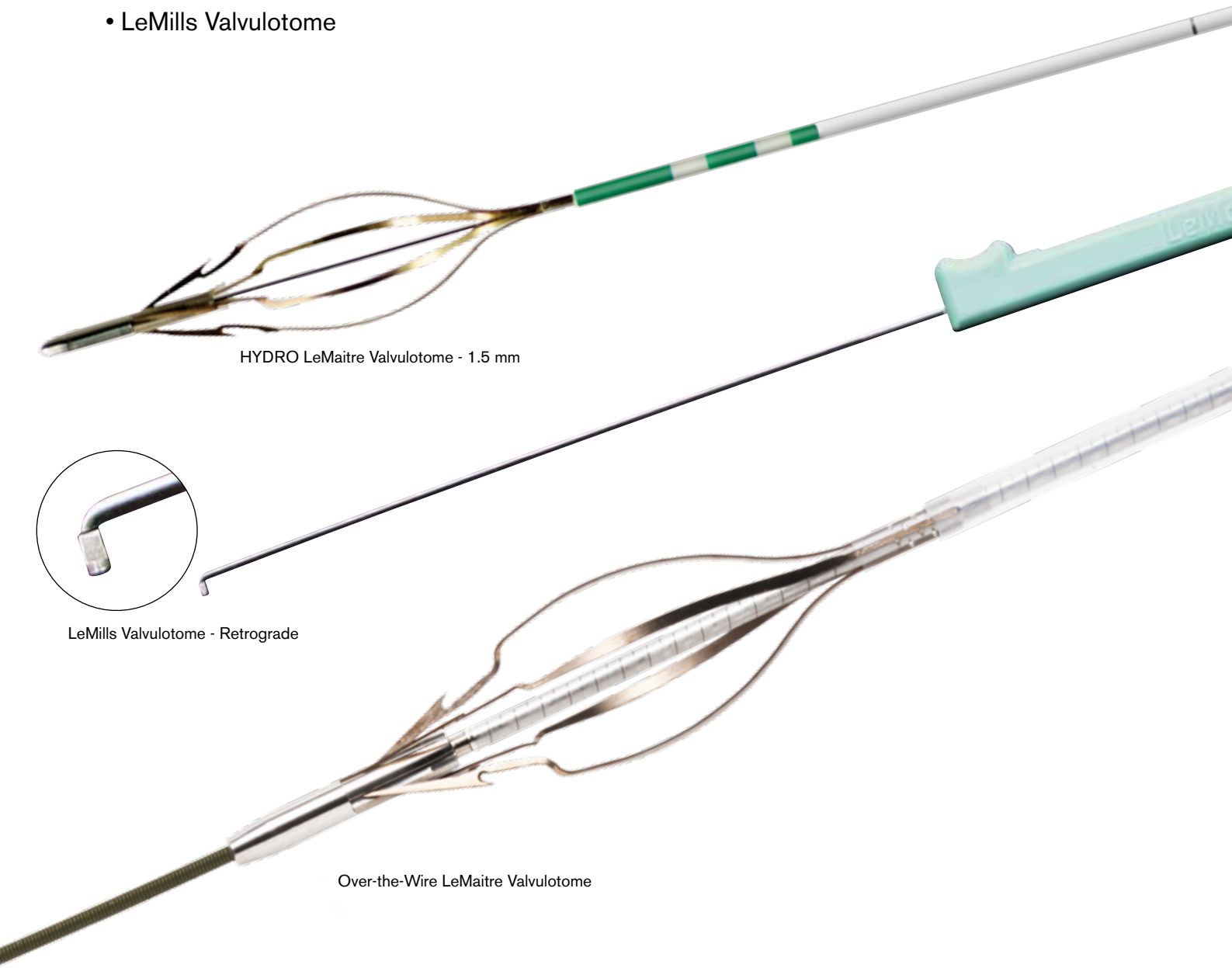
LeMaitre® Valvulotomes

The LeMaitre Valvulotomes are the Gold Standard in Valvulotomy for In Situ Bypass Procedures

- Unique self-sizing and self-centering hoops
- One size fits all with blade range 1.5 to 6 mm
- Clean valve ablation
- Hydrophylic coating and 1.5 mm diameter
- Over-the-Wire technology for enhanced trackability
- LeMills Valvulotome



HYDRO LeMaitre Valvulotome - 1.5 mm

LeMills Valvulotome - Retrograde

Over-the-Wire LeMaitre Valvulotome

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HYDRO LeMaitre Valvulotome Kit – The Next Generation Valvulotome

The HYDRO LeMaitre Valvulotome is a development from LeMaitre Vascular and the state of the art for valvulotomy. This innovative instrument uses unique self-sizing, self-centering hoops for well positioned, clean valve cutting. The four blades remain closed during insertion for smooth and atraumatic advancement to the proximal anastomosis. With a blade range of 1.5 to 6 mm, the expandable HYDRO LeMaitre Valvulotome eliminates the need for multiple sizes of instruments, enabling effective valve cutting in even smaller veins.
It features a hydrophilic coating of the outer catheter combined with an inner wire silicon coating for less traumatic insertion, easier advancement and reduced friction during sheathing and unsheathing of the blades. The irrigation port enables saline injections to ease device passage. The depth markings (every 10 cm) along the catheter support easier valve and tributary location and aid for more controlled positioning in the vein. The progressing green safety stripes enable a more controlled cutting of the last distal valve. The ergonomic design of the handle provides a better handling of the device. The catheter material (Polyurethane/Pebax co-extrusion) provides excellent trackability with a closer valvulotome diameter of 1.5 mm. The kit additionally includes a retrograde LeMills Valvulotome to cut the last distal valve.

TECHNICAL DATA HYDRO LEMAITRE VALVULOTOME KIT - 1.5 MM

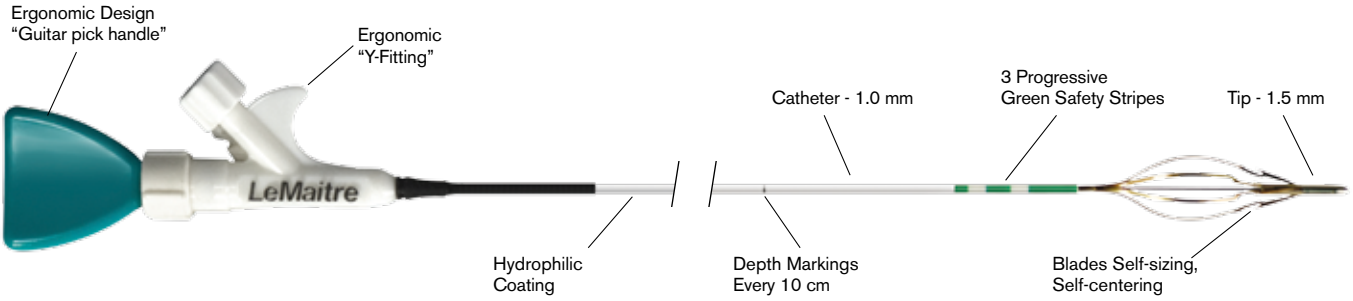
Blade Housing Outer Diameter	Outer Diameter of Protective Sheath	Working Length	Overall Length	Maximum Hoop Diameter	Maximum Blade Diameter	Safety Stripe Distance (from Blades)
1.5 mm	**1.0 mm**	**98 cm**	**110 cm**	**9.5 mm**	**6.0 mm**	**40 mm → 33 mm → 22 mm**
1.5 mm	**1.0 mm**	**40 cm**	**52 cm**	**9.5 mm**	**6.0 mm**	**40 mm → 33 mm → 22 mm**

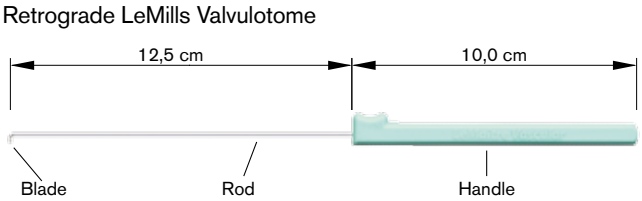
- **One size fits all with blade range 1.5 to 6 mm**
- **Depth markers each 10 cm**
- **Unique self-sizing, self-centering hoops for optimal valve cutting**
- **Easy atraumatic insertion due to hydrophylic coating**
- **Clean valve cutting**
- **Ergonomic handle**
- **Irrigation port for saline injection**
- **Kit incl. 1 disposable retrograde LeMills Valvulotome**
- **Shelf Life: 5 years**

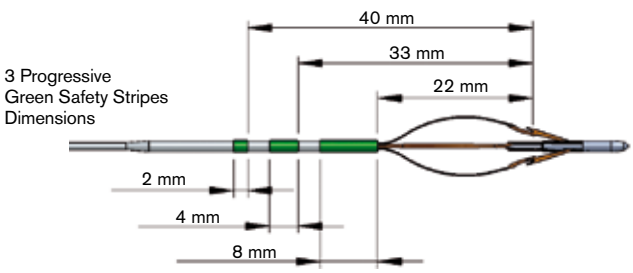
HYDRO LeMaitre Valvulotome Kit - 1.5 mm
Self-sizing, self-centering design for optimal valve cutting.
Kit containing one disposable retrograde LeMills Valvulotome for cutting the last, distal valve.

	Working Length	Overall Length	Pack size	Model # REF
HYDRO LeMaitre Valvulotome Kit - 1.5 mm	98 cm	110 cm	1 unit per pack	1009-00*
HYDRO LeMaitre Valvulotome - 1.5 mm	40 cm	52 cm	1 unit per pack	1010-00
HYDRO LeMaitre Valvulotome - 1.5 mm	98 cm	110 cm	1 unit per pack	1009-00 J**

**includes 1 disposable retrograde LeMills Valvulotome **without LeMills Valvulotome*







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Over-the-Wire LeMaitre Valvulotome - Innovative Design with Enhanced Trackability

This innovative instrument uses unique self-sizing, self-centering hoops for well positioned, clean valve ablation. The four blades remain closed during insertion for smooth and atraumatic over-the-wire advancement to the proximal anastomosis. This over-the-wire version fits over 0.035" guide wires and features enhanced trackability, easier insertion, increased speed and the minimized risk to track into the tributaries. The device does not require fluoroscopy. The kit additionally includes a retrograde LeMills Valvulotome to cut the last distal valve.

TECHNICAL DATA OVER-THE-WIRE LEMAITRE VALVULOTOME

Blade Housing Outer Diameter	Outer Diameter of Protective Sheath	Working Length	Overall Length	Maximum Hoop Diameter	Maximum Blade Diameter	Guidewire Capability
2.0 mm	**2.0 mm**	**100 cm**	**112 cm**	**9.5 mm**	**6.0 mm**	**0.035"**

Same benefits as the Expandable LeMaitre Valvulotome, plus
- **Delivers more repeatable tracking**
- **Requires only one-time access**
- **Allows for easier insertion into distal saphenous vein**
- **Increases speed and ease during multiple passes**
- **Minimizes the risk of device tracking into tributaries**
- **Device does not require fluoroscopy**
- **Kit incl. 1 disposable retrograde LeMills Valvulotome**
- **Shelf Life: 5 years**

Over-the-Wire LeMaitre Valvulotome
Guidewire capability for enhanced trackability.
Kit containing one disposable retrograde LeMills Valvulotome for cutting the last, distal valve.

	Working Length	Overall Length	Pack size	Model # REF
Over-the-Wire LeMaitre Valvulotome	100 cm	112 cm	1 unit per pack	1005-00*

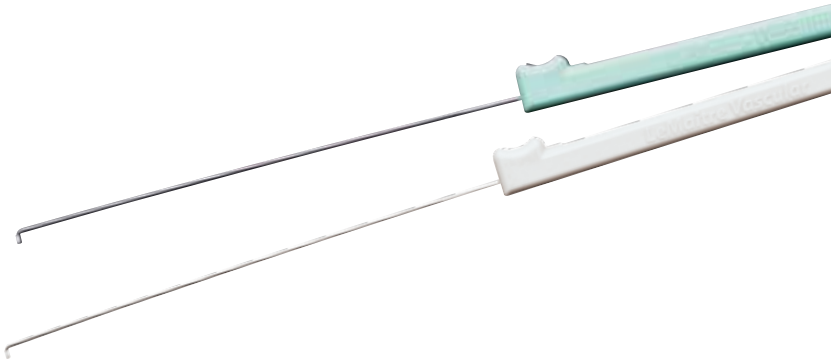
**includes 1 disposable retrograde LeMills Valvulotome*

Retrograde and Antegrade LeMills Valvulotome Kit

The retrograde and antegrade LeMills Valvulotome can aid in cutting the most proximal or distal valve when performing a vein bypass. The kit contains one each antegrade and retrograde disposable LeMills Valvulotome.

TECHNICAL DATA

Working Length:	12.5 cm
Overall Length:	22.5 cm
Rod Material:	Stainless Steel
Shelf Life:	5 years



Retrograde and Antegrade LeMills Valvulotome Kit (1 each)

	Working Length	Overall Length	Pack size	Model # REF
LeMills Valvulotome Kit	12.5 cm	22.5 cm	1 unit each per pack	1050-02

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LeMaitre® VASCULAR
Your Peripheral Vision™

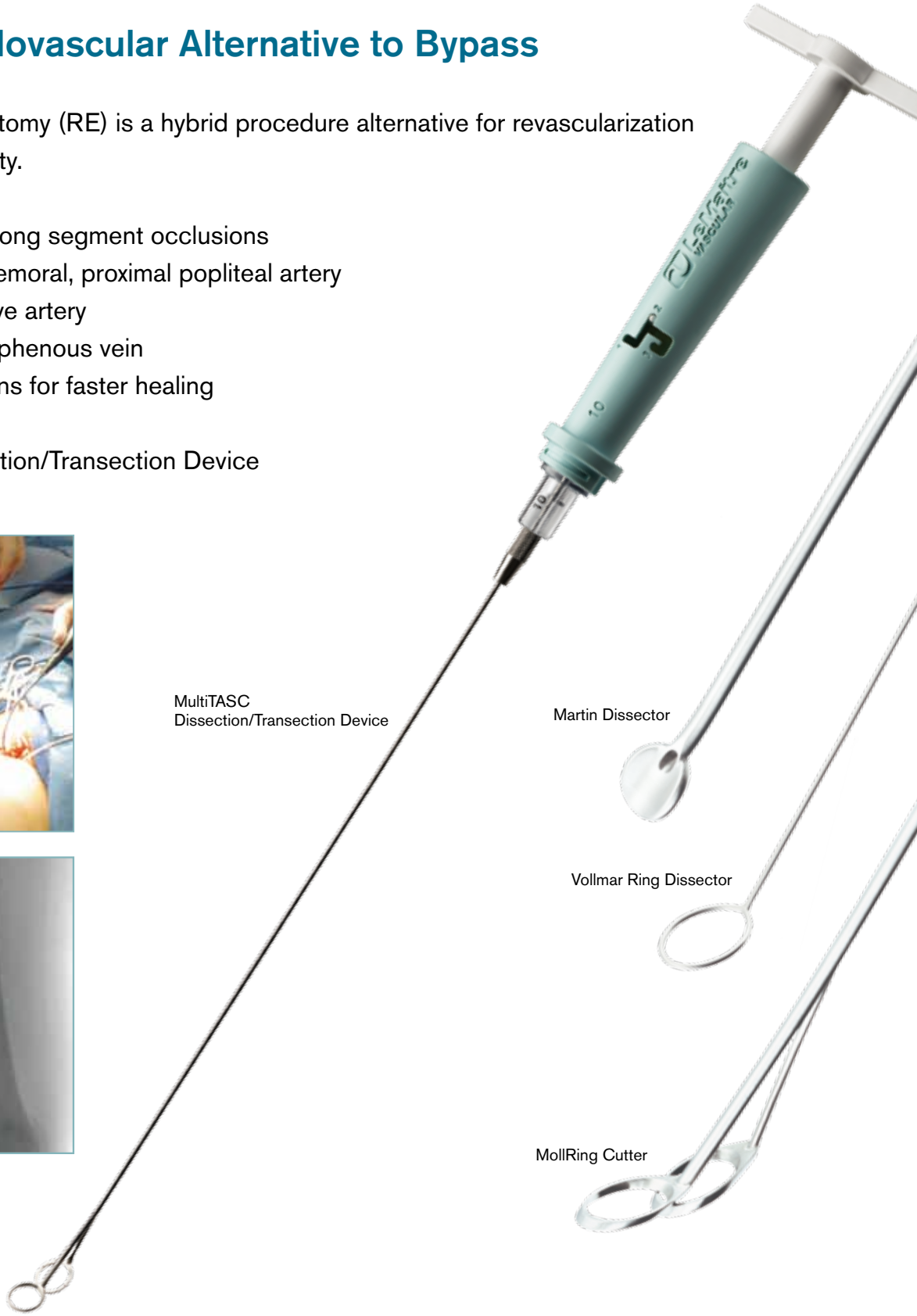
EndoRE® Remote Endarterectomy Products

A Hybrid Endovascular Alternative to Bypass

Remote Endarterectomy (RE) is a hybrid procedure alternative for revascularization of the lower extremity.

- Recanalization of long segment occlusions
- Iliac, superfiscial femoral, proximal popliteal artery
- Maintains the native artery
- Preservation of saphenous vein
- Decreased incisions for faster healing

- MultiTASC Dissection/Transection Device



MultiTASC
Dissection/Transection Device

Martin Dissector

Vollmar Ring Dissector

MollRing Cutter

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EndoRE Remote Endarterectomy Products

Remote Endarterectomy (RE) is a hybrid procedure alternative for revascularization of the lower extremity. The provided tools assist in the recanalization of long segment occlusions in the iliac artery, superficial femoral artery, and proximal popliteal artery with the use of both surgical and endovascular techniques. The goal of RE is to use and maintain the native artery for as long as possible postponing the need for bypass. Patient benefits include preservation of the saphenous vein for future use. Decreased incisions allow for faster healing.

The MollRing Cutter® Transection Device

is designed to transect and remove the plaque core at the designated endpoint or site of the reconstitution of the artery.
Shelf Life: 5 years

	Diameter	Working Length	Overall Length	Model # REF
MollRing Cutter Transection Device (Sterile)	5.0 mm	44 cm	57.5 cm	4200-40
	6.0 mm	44 cm	57.5 cm	4200-41
	7.0 mm	44 cm	57.5 cm	4200-42
	8.0 mm	44 cm	57.5 cm	4200-43
	9.0 mm	44 cm	57.5 cm	4200-44
	10.0 mm	44 cm	57.5 cm	4200-45

The Vollmar Ring Dissector

provides a fixed-diameter circumferential dissection plane.

Vollmar Ring Dissectors (Non-Sterile)	6.0 mm	55 cm	55 cm	4200-30
	7.0 mm	55 cm	55 cm	4200-31
	8.5 mm	55 cm	55 cm	4200-32
	10.0 mm	55 cm	55 cm	4200-33
	12.0 mm	55 cm	55 cm	4200-34
Handle - for Vollmar Ring Dissector (Non-Sterile)			18 cm	4200-36
Vollmar Dissector Kit with Handle (Non-Sterile)				4200-35

Includes: 1 Handle and 1 each 6, 7, 8.5, 10 and 12 mm Dissector models

The Martin Dissector

is a spatula-shaped dissector used to separate the plaque core from the artery wall.
Shelf Life: 5 years

	Working Length	Overall Length	Model # REF
Martin Dissector (Sterile)	40 cm	47 cm	4200-10

The Periscope Dissector

is used when crossing the endpoint with a guidewire becomes difficult.
Shelf Life: 5 years

Periscope Dissector (Sterile)	40 cm	50.5 cm	4200-00

Compatible with 0.018" Guidewires

The EndoHelix Retrieval Device

is designed to remove fractured core segments from the lumen of the artery.
Shelf Life: 5 years

EndoHelix Retrieval Device (Sterile)	45 cm	60 cm	4200-20

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MultiTASC® Dissection/Transection Device

The MultiTASC combines the functionality and advantages of a Vollmar Ring Dissector and the MollRing Cutter in one device. The device is designed to dissect and transect the plaque core at the designated endpoint with one pass, reducing the procedure time and potential for complications, like core fracture during the device exchange. A disposable Sizing Tool enables to determine intraoperatively the correct MultiTASC size by measuring the outer core diameter. The MultiTASC device is offered in a range of 8 different ring diameters to optimize the use in various different caliber vessels.

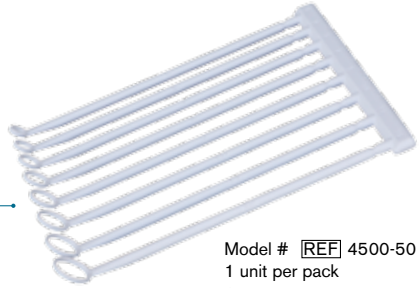
STEP 1 – *DISSECTION*
Establish a proximal dissection plane and use the MultiTASC to dissect the subadventitial plane up to the identified endpoint.

STEP 2 – *TRANSECTION*
Remove the torque handle and white hub cap and attach actuator handle. With MultiTASC handle in place, rotate the T-handle from "Position 1" and retract proximally into "Position 2" to transect the plaque.

STEP 3 – *EXTRACTION*
Rotate the T-handle from "Position 2" into "Position 3" to create a backstop securing the core and extract the plaque.

The **ACTUATOR HANDLE** allows for optimal positioning of the MultiTASC rings to both transect and extract the atheromatous core.

The **MultiTASC SIZING TOOL** is designed to assist in choosing interoperatively the correct MultiTASC size.



Model # REF 4500-50
1 unit per pack
Shelf Life: 7 years

MultiTASC Dissection/Transection Device
Includes MultiTASC Sizing Tool (Sterile)
Shelf Life: 7 years

MultiTASC Size	Inner Diameter	Outer Diameter	Working Length	Sizing Tool	Model # REF
5	3.5 mm	5.5 mm	55 cm	5	4500-03
6	4.5 mm	6.5 mm	55 cm	6	4500-04
7	5.5 mm	7.5 mm	55 cm	7	4500-05
8	6.5 mm	8.5 mm	55 cm	8	4500-06
9	7.5 mm	9.5 mm	55 cm	9	4500-07
10	8.5 mm	10.5 mm	55 cm	10	4500-08
11	9.5 mm	11.5 mm	55 cm	11	4500-09
12	10.5 mm	12.5 mm	55 cm	12	4500-10

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LeMaitre® VASCULAR
Your Peripheral Vision™

LifeSpan® ePTFE Vascular Grafts

Excellent Handling and Proven Performance[1]

- Peripheral vascular and Vascular Access procedures
- Proven performance[1]
- Clinically used since more than 20 years[1]
- Superb suture retention[2]
- High burst strength[2]

1 Cinat ME, Hopkins J, Wilson SE.
A prospective evaluation of PTFE graft patency and surveillance techniques in hemodialysis access. Ann Vasc Surg 1999; 13: 191-198.
2 Data on file at LeMaitre Vascular, Inc.

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LifeSpan ePTFE Vascular Grafts for Vascular Access in Haemodialysis

The LifeSpan ePTFE Vascular Graft selection offers various sizes for the creation of Vascular Access for haemodialysis when other access is not available. It has been recommended that regular/standard wall grafts should be the grafts of choice for the creation of Vascular Access[1]. Center spiral models are designed for Vascular Access procedures requiring enhanced resistance to kinking and compression in the middle section of the grafts (e.g. narrow loop grafts). Stepped and Quick Tapered grafts are designed to reduce the risk of steal syndrome and high cardiac output. The packaging is colour coded for ease of reference.

TECHNICAL DATA

Material Vascular Graft: External Spiral Support:	 **ePTFE** - **e**xpanded **P**oly**T**etra**F**luro**E**thylene **PTFE** - **P**oly**T**etra**F**luro**E**thylene
Wall Thickness (6 mm graft - nominal) Regular/Standard Wall:	 0.63 mm
Internodal Distance (nominal):	20 +/- 10 µm
Suture Retention Strength:	min. 300 grams
Average (+/- SD) Burst Strength[2]:	218 +/- 31 psi
Shelf Life:	7 years

- **Center Spiral Models**
- **Stepped and Quick Tapered Models**

Regular Wall
Stepped
Quick Tapered

Regular Wall, Straight

- the standard graft for the creation of Vascular Access for haemodialysis

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
5 mm	10 cm	R			R05010
6 mm	10 cm	R			R06010
5 mm	20 cm	R			R05020
6 mm	20 cm	R			R06020
7 mm	20 cm	R			R07020
8 mm	20 cm	R			R08020
6 mm	30 cm	R			R06030
5 mm	50 cm	R			R05050*
6 mm	50 cm	R			R06050
7 mm	50 cm	R			R07050
8 mm	50 cm	R			R08050

1 Lenz BJ, Veldenz HC, Dennis JW, et al. A three-year follow-up on standard versus thin wall ePTFE grafts for hemodialysis. J Vasc Surg 1998; 28: 464-470
2 Data on file at LeMaitre Vascular, Inc.

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Regular Wall, Straight, Center Spiral Support

• for enhanced resistance to kinking and compression in the center section of the graft

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
6 mm	50 cm	R	5 cm Center Spiral		R06050CS5
6 mm	50 cm	R	10 cm Center Spiral		R06050CS
7 mm	50 cm	R	10 cm Center Spiral		R07050CS
8 mm	50 cm	R	10 cm Center Spiral		R08050CS

Regular Wall, Stepped

• to reduce the risk of steal syndrome and high cardiac output

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
4-7 mm	50 cm	R			RS47050

Regular Wall, Stepped, Center Spiral Support

• to reduce the risk of steal syndrome and high cardiac output

• for enhanced resistance to kinking and compression in the center section of the graft

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
4-7 mm	50 cm	R	5 cm Center Spiral		RS4750CS5
4-7 mm	50 cm	R	10 cm Center Spiral		RS47050CS

Regular Wall, Quick Tapered

• to reduce the risk of steal syndrome and high cardiac output

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
4-7 mm	40 cm	R			QT47040
4-7 mm	50 cm	R			QT47050

Regular Wall, Quick Tapered, Center Spiral Support

• to reduce the risk of steal syndrome and high cardiac output

• for enhanced resistance to kinking and compression in the center section of the graft

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
4-7 mm	45 cm	R	5 cm Center Spiral		QT4745CS5
4-7 mm	45 cm	R	10 cm Center Spiral		QT47045CS

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LifeSpan ePTFE Vascular Grafts for Peripheral Vascular Procedures

The LifeSpan ePTFE Vascular Graft selection also offers various sizes for peripheral reconstructions. Regular / standard wall and thin wall grafts can be used for peripheral vascular reconstructions. Models with full or partial external spiral support are designed for extra-anatomic surgical reconstructions and for reconstructions requiring enhanced resistance to kinking and compression (e.g. axillo-femoral bypass, femoro-femoral bypass, femoro-popliteal or distal bypass). The external spiral support can be removed, facilitating an easy creation of the anastomosis to the vessel. The packaging is colour coded for ease of reference in the operating room.

TECHNICAL DATA

Material Vascular Graft: External Spiral Support:	 **ePTFE** - **e**xpanded **P**oly**T**etra**F**luro**E**thylene **PTFE** - **P**oly**T**etra**F**luro**E**thylene
Wall Thickness (6 mm graft - nominal) Regular/Standard Wall: Thin Wall:	 0.63 mm 0.4 mm
Internodal Distance (nominal):	20 +/- 10 µm
Suture Retention Strength:	min. 300 grams
Average (+/- SD) Burst Strength[1]:	218 +/- 31 psi
Shelf Life:	7 years

- **Full and Partial Spiral Support**
- **Removable External Spiral Support**

Regular Wall

Thin Wall

Regular Wall, Straight

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
5 mm	10 cm	R			R05010*
6 mm	10 cm	R			R06010
5 mm	20 cm	R			R05020*
6 mm	20 cm	R			R06020
7 mm	20 cm	R			R07020
8 mm	20 cm	R			R08020
6 mm	30 cm	R			R06030
5 mm	50 cm	R			R05050*
6 mm	50 cm	R			R06050
7 mm	50 cm	R			R07050
8 mm	50 cm	R			R08050
5 mm	80 cm	R			R05080*
6 mm	80 cm	R			R06080
7 mm	80 cm	R			R07080
8 mm	80 cm	R			R08080
10 mm	80 cm	R			R10080

1 Data on file at LeMaitre Vascular, Inc.
* Products not for sale in the U. S.

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Thin Wall, Straight

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
5 mm	20 cm	T			T05020*
6 mm	20 cm	T			T06020
7 mm	20 cm	T			T07020
8 mm	20 cm	T			T08020
5 mm	50 cm	T			T05050*
6 mm	50 cm	T			T06050
7 mm	50 cm	T			T07050
8 mm	50 cm	T			T08050
5 mm	80 cm	T			T05080*
6 mm	80 cm	T			T06080
7 mm	80 cm	T			T07080
8 mm	80 cm	T			T08080
10 mm	80 cm	T			T10080

Regular Wall, Straight, Full External Spiral Support

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
6 mm	50 cm	R	50 cm Spiral Support Length		R06050C50
7 mm	50 cm	R	50 cm Spiral Support Length		R07050C50
8 mm	50 cm	R	50 cm Spiral Support Length		R08050C50
6 mm	80 cm	R	80 cm Spiral Support Length		R06080C80
7 mm	80 cm	R	80 cm Spiral Support Length		R07080C80
8 mm	80 cm	R	80 cm Spiral Support Length		R08080C80
10 mm	80 cm	R	80 cm Spiral Support Length		R10080C80

Thin Wall, Straight, External Spiral Support 50/30

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
6 mm	50 cm	T	30 cm Spiral Support Length		T06050C30
7 mm	50 cm	T	30 cm Spiral Support Length		T07050C30
8 mm	50 cm	T	30 cm Spiral Support Length		T08050C30

* Products not for sale in the U. S.

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LifeSpan® ePTFE Vascular Grafts

Thin Wall, Straight, External Spiral Support 80/50

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
6 mm	80 cm	T	50 cm Spiral Support Length		T06080C50
7 mm	80 cm	T	50 cm Spiral Support Length		T07080C50
8 mm	80 cm	T	50 cm Spiral Support Length		T08080C50

Thin Wall, Straight, Full External Spiral Support

Inner Diameter (ID)	Length (L)	Wall Thickness R = Regular Wall/ Standard Wall T = Thin Wall	Description	Colour Code	Model # REF
6 mm	50 cm	T	50 cm Spiral Support Length		T06050C50
7 mm	50 cm	T	50 cm Spiral Support Length		T07050C50
8 mm	50 cm	T	50 cm Spiral Support Length		T08050C50
6 mm	80 cm	T	80 cm Spiral Support Length		T06080C80
7 mm	80 cm	T	80 cm Spiral Support Length		T07080C80
8 mm	80 cm	T	80 cm Spiral Support Length		T08080C80
10 mm	80 cm	T	80 cm Spiral Support Length		T10080C80

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AlboGraft® Polyester Vascular Grafts

Excellent Handling and Proven Sealing Technology

- Knitted and woven double velour grafts
- Approved collagen impregnation process
- Comfortable sealing
- Excellent suturability
- Softness and conformability
- Removable external spiral for peripheral grafts
- 5-line design for woven large diameter grafts

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AlboGraft® Polyester Vascular Grafts

Superior Softness and Conformability, Exceptional Sealing, Excellent Suturability

High quality materials and a unique manufacturing technique result in a highly soft and conformable graft, which facilitates an easy manipulation, implantation and passage of the suture even in the most challenging anatomical situations. The advanced sealing technology allows for deep penetration of bovine skin collagen into the polyester filaments of the graft structure, resulting in an exceptional sealing which is demonstrated in a water permeability of maximum 0.1 ml/cm²/min [1].

EtO Sterilization Process and Optimized Packaging

The EtO sterilization process applied to the Albograft preserves the original physical properties of both the collagen impregnation and the polyester fibres[2]. The double plastic tray and the vacuum sealed aluminum pouch protects the graft from adverse environmental conditions.

Removable External Support Option

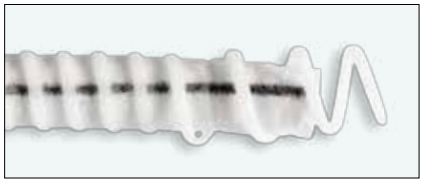
The removable external spiral support of small diameter grafts provides resistance to compression and kinking. It covers the entire length of the graft and is removable without compromising water permeability. The spiral support is radiopaque.

TECHNICAL DATA

Graft Structure:	Knitted or Woven
Velour Type:	Double Velour
Impregnation:	Collagen Impregnation Highly Purified Type I Collagen (Bovine)
Waterpermeability:	Maximum 0.1 ml/cm²/min @ 120 mmHg [1]
Sterilization [3, 4]	Ethylenoxide (EtO) Sterilization Process
Storage Temperature:	Min. 0°C - 30°C max.
Shelf Life:	AMC, ATC 6 years / ASC 3 years

- **Removable external spiral support for 6, 7 and 8 mm grafts available**
- **External spiral support radiopaque**
- **AlboGraft 5-Line design for all woven grafts 22 -38 mm**
  - **guidelines at 3 x 120° and 2 x 180°**
  - **improved orientation during reconstructions of the ascending aorta**
  - **ideal for valve sparing operations**

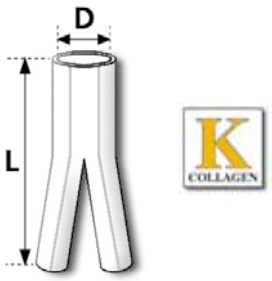
AlboGraft 5-line design



AlboGraft removable external spiral support

AlboGraft Polyester Vascular Graft models not listed here may be available on special request.

1 measured at 120 mmHg pressure according to ISO 7198-2
2 Van Damme H, Deprez M, Creemers E, et al. Intrinsic Structural Failure of Polyester (Dacron) Vascular Grafts. A General Review. Acta chir belg 2005; 105: 249-255
3 Pruitt L.A. The Effects of Radiation on Structural and Mechanical Properties of Medical Polymers. Adv Polym Sci 2003; 162: 63-93.
4 Goreham SD, Srivastava S, French DA, et al. The Effect of Gamma-Ray and Ethylene Oxide Sterilization on Collagen-Based Wound-Repair Materials. Journal of Material Science: Materials in Medicine 1993; 4: 40-49.

AlboGraft Polyester Vascular Graft KNITTED, Bifurcated	Diameter (D)	Length (L)	Model # REF
	14 x 7 mm	50 cm	AMC1407
	14 x 8 mm*	50 cm	AMC1408
	16 x 8 mm	50 cm	AMC1608
	16 x 9 mm*	50 cm	AMC1609
	18 x 9 mm	50 cm	AMC1809
	18 x 10 mm*	50 cm	AMC1810
	20 x 10 mm	50 cm	AMC2010
	20 x 11 mm*	50 cm	AMC2011
	22 x 11 mm	50 cm	AMC2211
	24 x 12 mm	50 cm	AMC2412

* asymetric, anatomical correct sizes

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AlboGraft Polyester Vascular Graft
KNITTED, Straight, Length (L) = 15 cm

Diameter (D)	Length (L)	Model # REF
8 mm	15 cm	AMC1508
16 mm	15 cm	AMC1516
18 mm	15 cm	AMC1518
20 mm	15 cm	AMC1520
22 mm	15 cm	AMC1522

- Knitted
- Collagen Impregnated
- Straight

AlboGraft Polyester Vascular Graft
KNITTED, Straight, Length (L) = 30 cm

Diameter (D)	Length (L)	Model # REF
6 mm	30 cm	AMC3006
8 mm	30 cm	AMC3008
10 mm	30 cm	AMC3010
14 mm	30 cm	AMC3014
16 mm	30 cm	AMC3016
18 mm	30 cm	AMC3018
20 mm	30 cm	AMC3020
22 mm	30 cm	AMC3022
24 mm	30 cm	AMC3024

AlboGraft Polyester Vascular Graft
KNITTED, Straight, Length (L) = 60 cm

Diameter (D)	Length (L)	Model # REF
6 mm	60 cm	AMC6006
7 mm	60 cm	AMC6007
8 mm	60 cm	AMC6008
10 mm	60 cm	AMC6010

AlboGraft Polyester Vascular Graft
KNITTED, Straight, Length (L) = 40 cm

Diameter (D)	Length (L)	Model # REF
6 mm	40 cm	AMC4006
7 mm	40 cm	AMC4007
8 mm	40 cm	AMC4008

AlboGraft Polyester Vascular Graft
KNITTED, Straight, Length (L) = 100 cm

Diameter (D)	Length (L)	Model # REF
8 mm	100 cm	AMC1008

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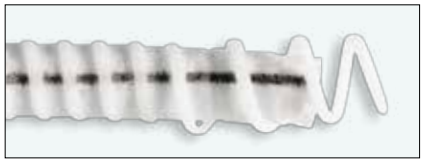
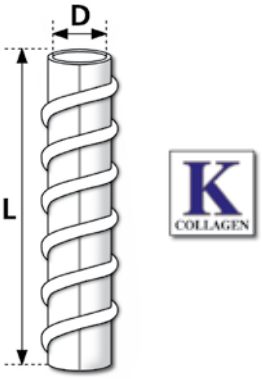
Removable external support option

- Provides resistance to compression and kinking
- External support covers entire length of graft
- Removable without compromising water permeability
- Radiopaque spiral for visualization of the course of the bypass under x-ray

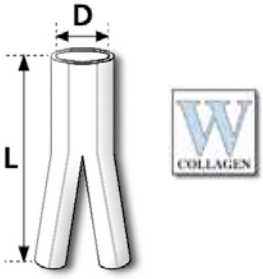


AlboGraft Polyester Vascular Graft
KNITTED, Straight, Removable External Spiral Support



Diameter (D)	Length (L)	Model # REF
6 mm	40 cm	ASC4006
8 mm	40 cm	ASC4008
6 mm	60 cm	ASC6006
7 mm	60 cm	ASC6007
8 mm	60 cm	ASC6008
6 mm	80 cm	ASC8006
7 mm	80 cm	ASC8007
8 mm	80 cm	ASC8008

AlboGraft Polyester Vascular Graft
WOVEN, Bifurcated



Diameter (D)	Length (L)	Model # REF
12 x 7 mm*	50 cm	ATC1207
14 x 7 mm	50 cm	ATC1407
14 x 8 mm*	50 cm	ATC1408
16 x 8 mm	50 cm	ATC1608
16 x 9 mm*	50 cm	ATC1609
18 x 9 mm	50 cm	ATC1809
18 x 10 mm*	50 cm	ATC1810
20 x 10 mm	50 cm	ATC2010

* asymetric, anatomical correct sizes

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AlboGraft 5-Line Design for all grafts in diameters 22 - 38 mm

- Better orientation during reconstructions of the ascending thoracic aorta
- Ideal for valve sparing operations

AlboGraft Polyester Vascular Graft
WOVEN, Straight, Length (L) = 15 cm

Diameter (D)	Length (L)	Model # REF
18 mm	15 cm	ATC1518
20 mm	15 cm	ATC1520
22 mm	15 cm	ATC1522
24 mm	15 cm	ATC1524
26 mm	15 cm	ATC1526
28 mm	15 cm	ATC1528
30 mm	15 cm	ATC1530
32 mm	15 cm	ATC1532
34 mm	15 cm	ATC1534

- **Woven**
- **Collagen Impregnated**
- **Straight**

AlboGraft 5-line design

AlboGraft Polyester Vascular Graft
WOVEN, Straight, Length (L) = 30 cm

Diameter (D)	Length (L)	Model # REF
6 mm	30 cm	ATC3006
8 mm	30 cm	ATC3008
10 mm	30 cm	ATC3010
12 mm	30 cm	ATC3012
14 mm	30 cm	ATC3014
16 mm	30 cm	ATC3016
18 mm	30 cm	ATC3018
20 mm	30 cm	ATC3020
22 mm	30 cm	ATC3022
24 mm	30 cm	ATC3024
26 mm	30 cm	ATC3026
28 mm	30 cm	ATC3028
30 mm	30 cm	ATC3030
32 mm	30 cm	ATC3032
34 mm	30 cm	ATC3034
36 mm	30 cm	ATC3036

AlboGraft Polyester Vascular Graft
WOVEN, Straight, Length (L) = 40 cm

Diameter (D)	Length (L)	Model # REF
6 mm	40 cm	ATC4006
8 mm	40 cm	ATC4008
10 mm	40 cm	ATC4010

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Notes

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LeMaitre® VASCULAR
Your Peripheral Vision™

Omniflow® II Biosynthetic Vascular Prosthesis

The Biosynthetic Solution for Peripheral Revascularization and Arteriovenous Vascular Access

When vein is not available

- Haemocompatible flow surface
- Good long term patency rates*
- Excellent incorporation in host tissue
- Reported low infection rates and high resistance to re-infection*

* Data on file

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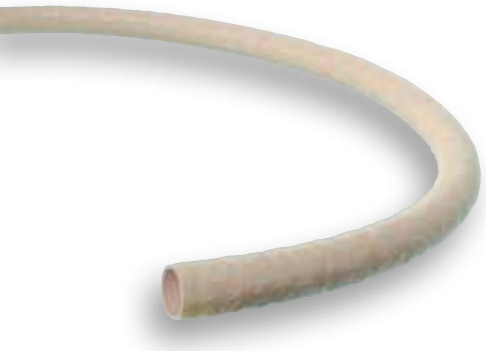
Omniflow® II Biosynthetic Vascular Prosthesis

Omniflow II - The biosynthetic solution

The Omniflow II Biosynthetic Vascular Prosthesis is an innovative graft that is composed of cross-linked ovine collagen and a polyester mesh endoskeleton. The graft offers a solution for peripheral reconstruction and vascular access for haemodialysis when vein is not available.

The benefits of this innovative graft design include:

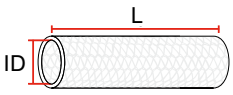
- High patency and limb salvage rates compared to sythetic prostheses in below-knee or crural settings or with poor peripheral run-off (1-5)
- A solution for patients when there is concomitant diabetes and no vein available (6;7)
- High primary and secondary patency rates and low infection rate in AV-Access for hemodialysis (8;9;10)
- Low reported infection rates in peripheral applications (1-5)
- Low reported re-infection rates in peripheral, aortic and AV-Access applications (11-17)



- **Composite Structure**
- **Haemocompatible Flow Surface**
- **Excellent Incoperation in Host Tissue***
- **Reported low Infection Rates and High Resistance to Re-infection (1-5, 11-17)**
- **AV-Access Preformed Looped Configurations**
- **Handles Like a Vein**
- **Shelf Life: 4 years**

Omniflow II VASCULAR PROSTHESIS – STRAIGHT

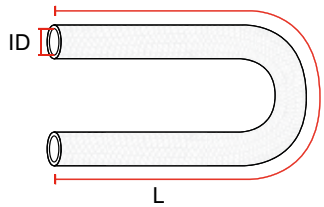
For peripheral revascularisation or straight arteriovenous access. Available in diameters of 5, 6, 7 and 8 mm and lengths of 20 - 65 cm.



Minimum Length (L)	Model # REF	Model # REF	Model # REF	Model # REF
Internal Diameter (ID)	5 mm	6 mm	7 mm	8 mm
20 cm	751-520	751-620	751-720	751-820
30 cm	751-530	751-630	751-730	751-830
40 cm	751-540	751-640	751-740	751-840
50 cm	751-550	751-650	751-750	751-850
60 cm	751-560	751-660	751-760	751-860
65 cm	751-565	751-665	751-765	751-865

Omniflow II VASCULAR PROSTHESIS – CURVED

For looped arteriovenous access. Available as preformed loop in diameter of 6 mm and lengths of 30 - 45 cm.



Minimum Length (L)	Internal Diameter (ID)	Model # REF
30 cm	6 mm	741-630
35 cm	6 mm	741-635
40 cm	6 mm	741-640
45 cm	6 mm	741-645

* Data on File

Literature references:
(1) Koch G, Gutschi S, Pascher O, Fruhwirth J, Hauser H. [Femoropopliteal vascular replacement: vein, ePTFE or ovine collagen?]. Zentralbl Chir 1996;121(9):761-7. **(2)** Koch G, Gutschi S, Pascher O, Fruhwirth H, Glanzer H. Analysis of 274 Omniflow Vascular Prostheses implanted over an eight-year period. Aust N Z J Surg 1997 Sep;67(9):637-9 **(3)** Duenschede F, Youssef M, Stabrauskaite J, Ahmed S, Espinola-Klein C, Dorweiler B, et al. [Omniflow-II for critical limb ischemia. Long-term results]. Chirurg. 2017;88(3):233-8. **(4)** Neufang A, Dorweiler B, Espinola-Klein C, Savvidis S, Doemland M, Schotten S, et al. Outcomes of complex femorodistal sequential autologous vein and biologic prosthesis composite bypass grafts. J Vasc Surg. 2014;60(6):1543-53. **(5)** Duenschede F, Stabrauskaite J, Doemland M, Vahl CF, Dorweiler B. [The Omniflow® II biograft. Long term experience with implantation in femoropoliteal position]. Gefässchirurgie 2015;20(5):343-9. **(6)** Perretti B, Trani A, Gasparre A, Bonanno F. The biosynthetic prosthesis in ovine collagen, Omniflow II, in the treatment of severe critical ischemia of the lower limb: short- and medium-term results. 9th National Congress of the Societa Italiana di Chirurgia Vascolare Ed Endovascolare (SICVE), Siena, September 26-29, 2010. **(7)** Vlachovsky R, Staffa R, Kriz Z. Our Experience with Biosynthetic Graft Implantation - Prospectice Study of 35 Patients. 16th Slovak Congress of Vascular Surgery with International Participation, Jasna, Slovakia, March 29 - April 1, 2012. **(8)** Palumbo R, Niscola P, Calabria S, Fierimonte S, Bevilacqua M, Scaramucci L, et al. Long-term favorable results by arteriovenous graft with Omniflow II prosthesis for hemodialysis. Nephron Clin Pract 2009;113(2):c76-c80. **(9)** Frosini F, Romano E, Ercolini E, Barbanti E, Lenzi A, Passuello F, et al. Seven years of Prosthetic Arteriovenous Grafts for Hemodialysis. Our Experience with Omniflow II. 7th Congress of the Vascular Access Society, Istanbul, May 5-7, 2011. **(10)** Berardinelli L. Modern Biological and Semi-Biological Materials for Hemodialysis Arterio-Venous Grafts: Better Long Term Patency, Lower Rate of Infection and of Steal Syndrome. NDT Plus. 2010;3(Suppl 3):iii160. **(11)** Briner L, Menth M, Jobin AC, Kruse A, Widmer M. The risk of re-infection after surgical vascular access revision using a biosynthetic vascular graft. VAS, 8th Intl Congress, April 2013, Abstracts, J Vasc Access. 2013;14(1):12. **(12)** Al Shakarchi J, McGrogan D, Yates PJ, Inston N. Use of biosynthetic grafts (Omniflow II) for high infection risk haemodialysis vascular access. J Vasc Access. 2016;17(2):151-4. **(13)** Chaudhry A, Shetty R, Crimmin S, Singh-Ranger R. Bio-synthetic Graft Repair of Mycotic Aneurysm of the Common Femoral Artery. Eur J Vasc Endovasc Surg EXTRA 2009 Jul 1;18(1):1-2. **(14)** Wiltberger G, Matia I, Schmelzle M, Krenzien F, Hau HM, Freitas B, et al. Mid and long-term results after replacement of infected peripheral vascular prosthetic grafts with biosynthetic collagen prosthesis. J Cardiovasc Surg (Torino) 2014;55(5):693-8. **(15)** Krasznai AG, Snoeijs M, Siroen MP, Sigterman T, Korsten A, Moll FL, et al. Treatment of aortic graft infection by in situ reconstruction with Omniflow II biosynthetic prosthesis. Vascular. 2016;24(6):561-6. **(16)** Töpel I, Stigler T, Ayx I, Betz T, Uhl C, Steinbauer M. Biosynthetic Grafts to Replace Infected Prosthetic Vascular Bypasses: A Single-Center Experience. Surg Infect (Larchmt). 2017;18(2):202-5. **(17)** Wonziak W, Bajno R, Swider M, Ciostek P. The Usefulness of Biosynthetic Vascular Graft Omniflow II and Autologous Veins for the Treatment of Massive Infection of Dacron Vascular Graft with Enterococcus faecalis HLAR. Polish Journal of Microbiology. 2016;65(4):471-4.

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LeMaitre® VASCULAR
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AlboSure® Polyester Vascular Patches

Soft and Easy to Suture

- Ultra thin 0.4 mm design
- Excellent conformability
- Pre-trimmed tapered end carotid sizes
- Advanced collagen sealing technology
- Non-velour design for exceptional handling

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AlboSure® Polyester Vascular Patches

Soft and Easy to Suture

With high quality materials, a unique manufacturing technique and advanced sealant technology, the AlboSure Polyester Vascular Patch offers an exceptional combination of softness and suturability. The ultra-thin non-velour design offers excellent conformability and ease of handling.

TECHNICAL DATA

Patch Structure:	Knitted Polyester
Patch Thickness:	0.4 mm
Velour Type:	Non-velour
Impregnation:	Collagen Impregnation Highly Purified Type I Collagen (Bovine)
Waterpermeability:	Maximum 1 ml/cm²/min @ 120 mmHg [1]
Sterilization [2, 3]	Ethyleneoxide (EtO) Sterilization Process
Shelf Life:	6 years

1 measured at 120 mmHg pressure according to ISO 7198-2
2 Pruitt L.A. The Effects of Radiation on Structural and Mechanical Properties of Medical Polymers. Adv Polym Sci 2003; 162: 63-93.
3 Goreham SD, Srivastava S, French DA, et al. The Effect of Gamma-Ray and Ethylene Oxide Sterilization on Collagen-Based Wound-Repair Materials. Journal of Material Science: Materials in Medicine 1993; 4: 40-49.

TYPICAL APPLICATIONS:

Repairing and grafting of peripheral vascular vessels, like:

- Carotid endarterectomy
- Femoral, iliac, renal and tibial patching
- Profundaplasty
- Arteriovenous access revisions

Available Sizes in 1:1

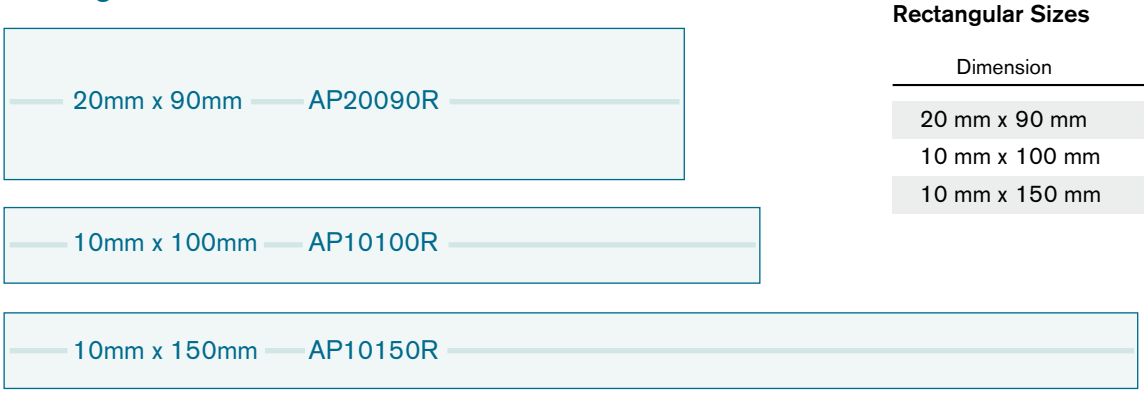
ALBOSURE POLYESTER VASCULAR PATCHES

Tapered

AlboSure Polyester Vascular Patches Tapered Sizes

Dimension	Model # REF
6 mm x 75 mm	AP06075T
8 mm x 75 mm	AP08075T
10 mm x 75 mm	AP10075T

Rectangular



AlboSure Polyester Vascular Patches Rectangular Sizes

Dimension	Model # REF
20 mm x 90 mm	AP20090R
10 mm x 100 mm	AP10100R
10 mm x 150 mm	AP10150R

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XenoSure® Biologic Patches

The Bovine Pericardial Alternative to Alloplastic Materials

- Vascular & cardiac repair and reconstruction
- Suture line reinforcement
- Soft tissue deficiency repair
- Dura repair

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XenoSure® Biologic Patches

Exceptionally Strong, Uniform and Easy to Suture

The XenoSure® Biologic Patch is a high-quality bovine pericardium patch used for vascular and cardiovascular reconstructions, suture line reinforcement, soft tissue deficiency repair or dura repair. Using the same tissue technology developed for heartvalves, the XenoSure patch is exceptionally strong, uniform, easy to handle and suture. The patch material is sourced from the USA or Australia/New Zealand (countries according to OIE-World Organisation for Animal Health classification: “negligible BSE risk”).

TECHNICAL DATA

Material:	Bovine Pericardium
Source:	USA or Australia/New Zealand (lowest BSE risk category “negligible BSE risk”)
Nominal Thickness:	0.6BV8, 0.8BV8, 1BV6 and 2BV9: 0.45 mm + 0.15/-0.10 mm All other larger patches: 0.55 mm +/- 0.20 mm
Storage Conditions:	Stored in a sterile phosphate buffered saline solution containing 0.2% glutaraldehyde. Rinsing in saline solution prior to use is required.
Storage Conditions:	Store in locations above 0°C (32°F), refrigeration is not required. Avoid locations where extreme temperature fluctuations may occure; for example near steam or hot water pipes, air conditioning ducts or in direct sunlight
Shelf Life:	6 years
• Do not expose the XenoSure Biologic Patch to temperatures below 0°C (32°F). Freezing will seriously damage the product. **• Packaging includes 1 freeze indicator (< 0°C).**	

TYPICAL APPLICATIONS:

- Carotid endarterectomy
- Femoral, iliac, renal and tibial patching
- Profundaplasty
- Arteriovenous access revisions
- Suture line reinforcement

- Reconstruction of large vessels
- Pericardial and ASD / VSD closure
- Cardiac repair procedures
- Heart valve reconstructions
- Soft tissue deficiency

- Dura closure during neuro-surgical procedures

Dimension	Model # REF	Rinse Procedure*
6 mm x 80 mm	0.6BV8	500 ml for 2 minutes
8 mm x 80 mm	0.8BV8	
10 mm x 60 mm	1BV6	
10 mm x 100 mm	1BV10	
10 mm x 140 mm	1BV14	
15 mm x 100 mm	1.5BV10	
20 mm x 90 mm	2BV9	
25 mm x 150 mm	2.5BV15	
40 mm x 40 mm	4BV4	
40 mm x 60 mm	4BV6	
50 mm x 100 mm	5BV10	1000 ml for 3 minutes
60 mm x 80 mm	6BV8	
80 mm x 140 mm	8BV14	
100 mm x 160 mm	10BV16	
120 mm x 250 mm	12BV25	

HANDLING:

- Similar to autologous tissue
- Excellent handling characteristics
- Easily trimmed to desired shape or size

BENEFITS:

- Biocompatible
- Exceptional tensile and suture retention strength**
- Does not require special sutures
- Uniform collagen thickness results in easier suturing

* please consult the actual Instruction For Use (IFU) on our website.
** data on file at LeMaitre Vascular

eifu.LeMaitre.com

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XenoSure Rinse Procedures**

0.6BV8, 0.8BV8, 1BV6, 1BV10, 1.5BV10, 2BV9, 1BV14, 4BV4, 4BV6 or any custom made size less or equal to 37.5 cm²

• 2 minutes in 500 ml saline solution**

1. Fill basin with 500 ml sterile saline
2. Remove patch with atraumatic forceps
3. Gently agitate patch in saline for 2 min.
4. Leave in saline until required by surgeon

2.5BV15, 5BV10, 6BV8, 8BV14, 10BV16, 12BV25 or any custom made size greater than 37.5 cm²

• 3 minutes in 1000 ml saline solution**

1. Fill basin with 1000 ml sterile saline
2. Remove patch with atraumatic forceps
3. Gently agitate patch in saline for 3 min.
4. Leave in saline until required by surgeon

Antibiotics in Rinse solution*

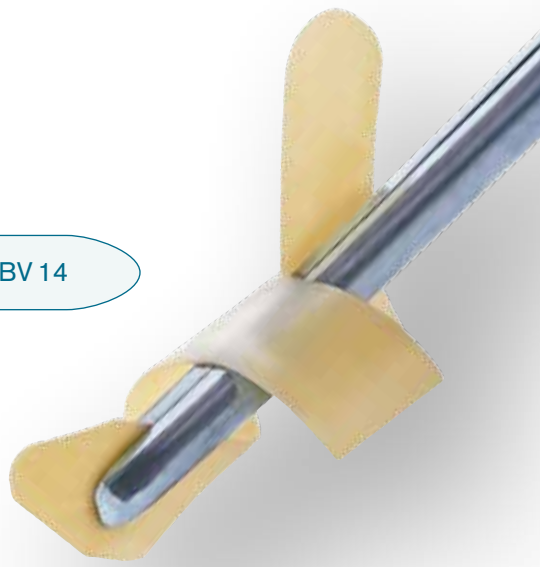
At the surgeon's discretion the rinse solution may contain bacitracin (500 U/mL) or cephalexin (10 mg/mL), as testing has shown that the XenoSure® bovine pericardial patch material is not adversely affected by treatment with those antibiotics. The effects of other antibiotics or the long term effects of these antibiotics on the XenoSure® bovine pericardial patch material have not been tested. Use antibiotics only as indicated by the antibiotics manufacturer.

* please consult the actual Instruction For Use (IFU) on our website. eifu.LeMaitre.com

** data on file at LeMaitre Vascular

Available Sizes in 1:1

0.6 cm x 8 cm	0.6 BV 8
0.8 cm x 8 cm	0.8 BV 8
1 cm x 6 cm	1 BV 6
1 cm x 10 cm	1 BV 10
1 cm x 14 cm	1 BV 14
1.5 cm x 10 cm	1.5 BV 10
2 cm x 9 cm	2 BV 9
2.5 cm x 15 cm	2.5 BV 15



More sizes on next page.

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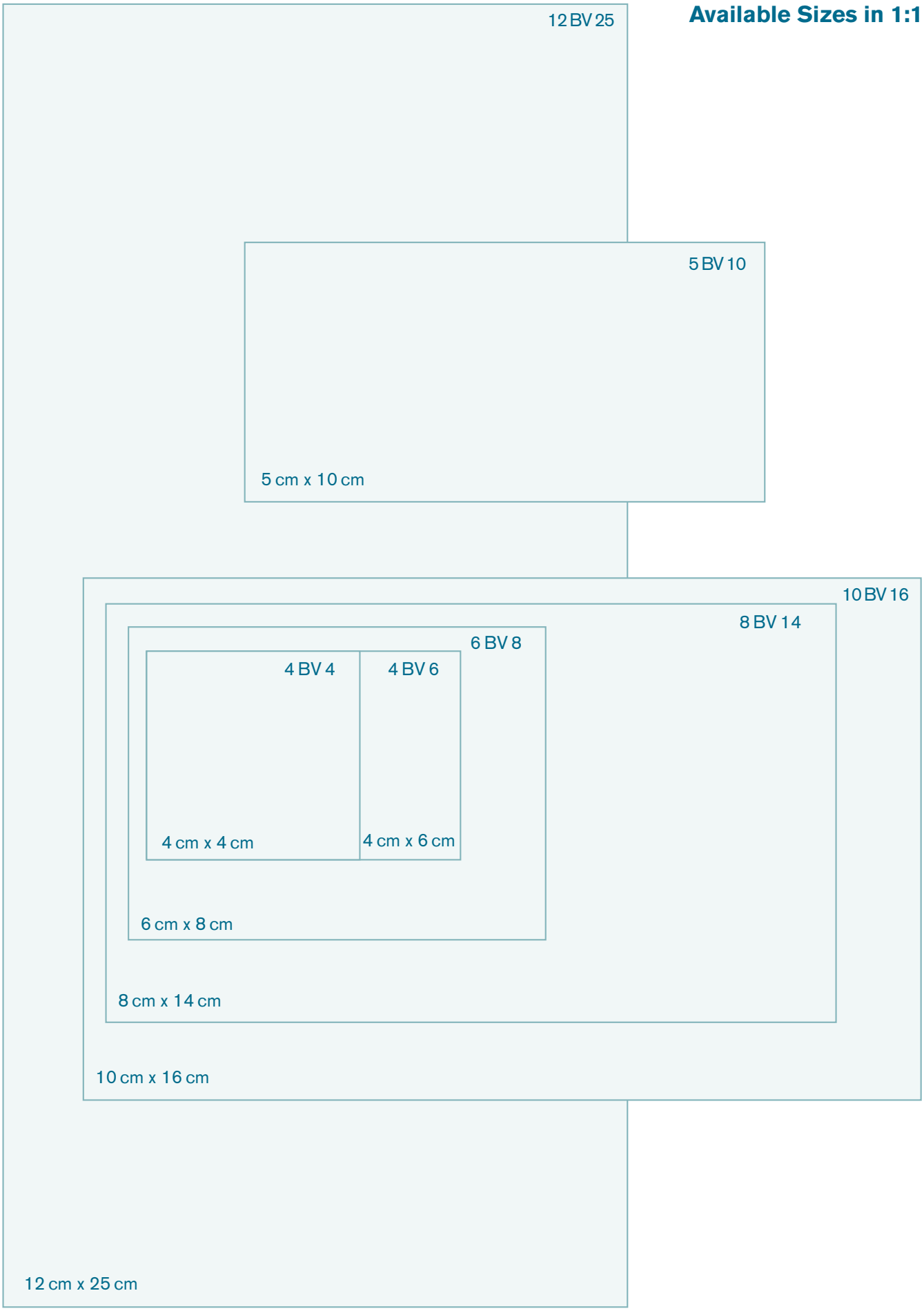
XenoSure® Biologic Patches

Available Sizes in 1:1



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LeMaitre® VASCULAR
Your Peripheral Vision™

XenoSure® Biologic Pledgets

The Bovine Pericardial Alternative to Synthetic Pledgets

- General, Vascular & Cardiac Surgery
- Surgical Pledget Material
- Secure and Support Sutures
- Aid in Suture Buttressing

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XenoSure® Biologic Pledgets

The Bovine Pericardial Alternative to Synthetic Pledgets

The XenoSure® Biologic Pledgets are made from high-quality bovine pericardium and are intended for use as a surgical pledget material to secure and support sutures and to aid in suture buttressing during general, vascular and cardiac surgery. The XenoSure® Biologic Pledget tissue is treated with a glutaraldehyde process which crosslinks the collagen fibers and minimizes antigenicity. The XenoSure® Biologic Pledgets are liquid chemical sterilized, packaged in a plastic jar and stored in a sterile phosphate buffered saline solution containing 0.2% glutaraldehyde. The bovine pledget material is sourced from the USA or Australia/New Zealand (countries according to OIE-World Organisation for Animal Health classification: "negligible BSE risk").

TECHNICAL DATA

Material:	Bovine Pericardium
Source:	USA or Australia/New Zealand (lowest BSE risk category "negligible BSE risk")
Nominal Thickness:	0.55 mm +/- 0.20 mm
Suture Retention:	630 gr. +/- 165 gr. (mean std. def.)***
Storage Container:	Plastic jar (177ml / 6oz) with floating basket (to transfer pledgets into rinse solution)
Storage Solution:	Stored in a sterile phosphate buffered saline solution containing 0.2% glutaraldehyde. Rinsing in saline solution prior to use is required.
Storage Conditions:	Store in locations above 0°C (32°F), refrigeration is not required. Avoid locations where extreme temperature fluctuations may occur; for example near steam or hot water pipes, air conditioning ducts or in direct sunlight
Shelf Life:	6 years

• Do not expose the XenoSure Biologic Patch to temperatures below 0°C (32°F). Freezing will seriously damage the product.
• Packaging includes 1 freeze indicator (< 0°C).

XenoSure Pledgets Rinse Procedure*

- **2 minutes in 500 ml saline****

1. Fill basin with 500 ml sterile saline
2. Open the jar and remove the cap. The central post of the floating basket rises slowly after opening the jar (it takes approx. 10-15 sec for the basket to rise completely).
3. Remove the pledgets with the floating basket from the jar and transfer them into the basin
4. Gently agitate the pledgets in saline for 2 min.
5. Leave in saline until required by the surgeon

Antibiotics in Rinse solution**

At the surgeon's discretion the rinse solution may contain bacitracin (500 U/mL) or cephalexin (10 mg/mL), as testing has shown that the XenoSure® bovine pericardial pledget material is not adversely affected by treatment with those antibiotics. The effects of other antibiotics or the long term effects of these antibiotics on the XenoSure® bovine pericardial pledget material have not been tested. Use antibiotics only as indicated by the antibiotics manufacturer.

Available Sizes in 1:1

PL0307R25

3 mm x 7 mm

PL0506R25

5 mm x 6 mm

PL0510R25

5 mm x 10 mm

Size	Shape	Quality	Number of pledgets per jar	Model # REF	Rinse procedure*
3 x 7 mm	rectangular	soft	25	PL0307R25	Minimum: 500ml/2min.
5 x 6 mm	rectangular	soft	25	PL0506R25	
5 x 10 mm	rectangular	soft	25	PL0510R25	

All XenoSure Biologic Pledgets have a thickness of 0.55 mm +/- 0.20 mm

* please consult Instruction For Use (IFU) of the actual product for further details
eifu.LeMaitre.com
** sterile physiological saline solution (e.g. 0.9% NaCl)
*** data on file

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Flexcel Carotid Shunts

Increased Flexibility and Flow[1]

- Atraumatic tips
- Pre-attached tether
- Flexible material

1 vs competitor device. Data on file at LeMaitre Vascular, Inc.

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Flexcel Carotid Shunts

Increased Flexibility and Flow

The Flexcel Carotid Shunt is made of a flexible polyurethane material with atraumatic tips which helps to minimize intimal trauma. The pre-attached tether aids in removal of the shunt. The centimeter markings span length of the shunt with a bar denoting center point for easier identification of placement in the carotid artery.

TECHNICAL DATA

Material:	Polyurethane
Length:	14.5 cm
Shelf Life:	7 years
• Atraumatic tips **• Pre-attached tether** **• Centimeter markings** **• Center bar** **• Increased flow volume***	

Flexcel Carotid Shunts (Inlying) Set	Length	Model # REF
One set includes 4 shunts (1x8F, 1x10F, 1x12F, 1x14F each)		
Packing with 5 sets of 4 shunts as above	14.5 cm	2020-05

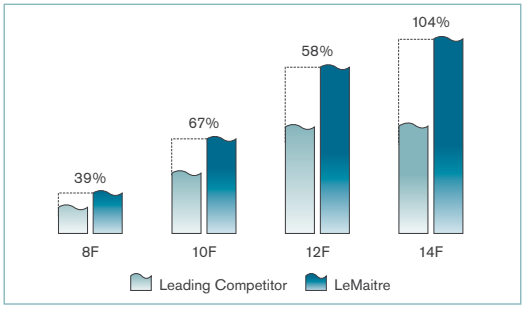
Flexcel Carotid Shunts (Inlying)	Length	Model # REF
Single Unit Packing		
8F - packing with 5x1 unit 8F shunt	14.5 cm	2020-15
10F - packing with 5x1 unit 10F shunt	14.5 cm	2020-25
12F - packing with 5x1 unit 12F shunt	14.5 cm	2020-35
14F - packing with 5x1 unit 14F shunt	14.5 cm	2020-45

FLEXCEL FLOW COMPARISON

Demonstration of relative flow improvement of Flexcel vs. the leading competitor.*

Test conducted at body temperature at constant pressure using the Flexcel inlying shunt.

*Data on file at LeMaitre Vascular, Inc.



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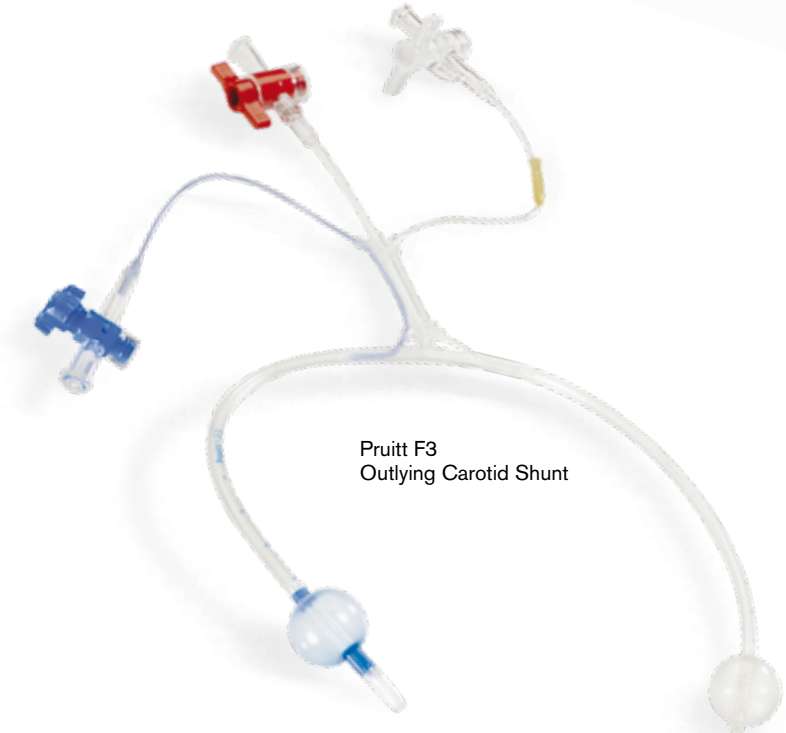
LeMaitre® VASCULAR
Your Peripheral Vision™

Pruitt F3® and Pruitt F3®-S Carotid Shunts

The Next Generation Balloon Shunts

- Atraumatic dual balloon occlusion
- Increased flow rate*
- Flexible and resistant to kinking
- Colour-coded blue common carotid artery balloon
- Colour-coded blue common carotid artery inflation lumen
- Depth markings
- **NEW** Pruitt F3-S Polyurethane Shunt - Does not contain Latex

Pruitt F3
Inlying Carotid Shunt



Pruitt F3
Outlying Carotid Shunt

Pruitt F3-S Polyurethane
Outlying Carotid Shunt

* Data on file

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Pruitt F3® Carotid Shunts

The Next Generation Balloon Shunt

The Pruitt F3 Carotid Shunt is made of a flexible polyurethane material that is also more resistant to kinking*. The inflation lumen and the common carotid balloon are color-coded (blue) for easy identification. The Pruitt F3 Carotid Shunt has a 10% increased flow over the original Pruitt-Inahara Carotid Shunt.*

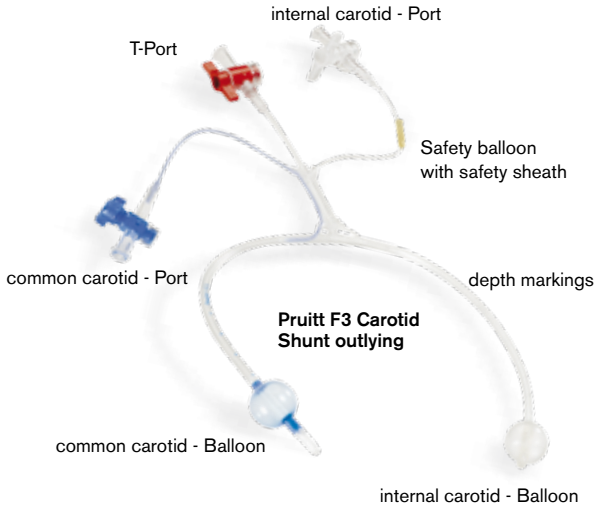
Atraumatic Dual Balloon Occlusion: No Clamping

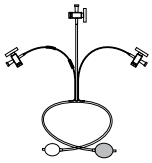
Dual-balloon design for fast, easy insertion and atraumatic no-clamp occlusion of internal and common carotid arteries. Smaller incision, less dissection and shorter arteriotomy. The balloons hold the artery open for better visualization of plaque end points.

TECHNICAL DATA

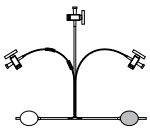
Balloon Material:	Latex
Shunt Material:	Polyurethane
Length:	15 cm or 31 cm
Shelf Life:	5 years

- **T-port with stopcock (red)**
- **Color coded stopcocks**
- **Color coded common carotid balloon (blue)**
- **Color coded inflation lumen (blue, clear)**
- **Centimeter depth markings**
- **Safety sheath**
- **Safety balloon**





Pruitt F3 Outlying Carotid Shunts	Length	Pack size	Model # REF
8F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2013-10
9F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2012-10
10F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2011-10



Pruitt F3 Inlying Carotid Shunts	Length	Pack size	Model # REF
9F Pruitt F3 Shunt with T-Port	15 cm	1 unit per pack	2012-12
10F Pruitt F3 Shunt with T-Port	15 cm	1 unit per pack	2011-12

* Data on file at LeMaitre Vascular, Inc.

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Pruitt F3®-S Polyurethane Carotid Shunts

The Simplified Carotid Shunt Version in Polyurethane

The Pruitt F3-S Carotid Shunt is made of a flexible polyurethane material that is also more resistant to kinking*. The inflation lumen and the common carotid balloon are color-coded for easy identification. The Pruitt F3-S Carotid Shunt has a 10% increased flow over the original Pruitt-Inahara Carotid Shunt.*

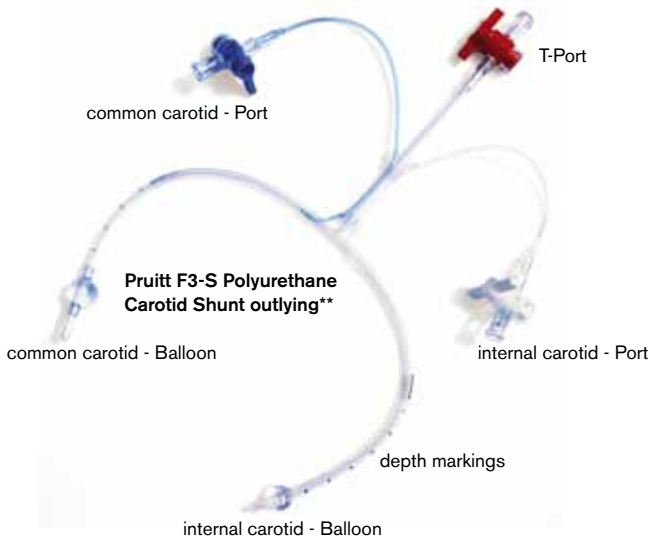
Atraumatic Dual Balloon Occlusion: No Clamping

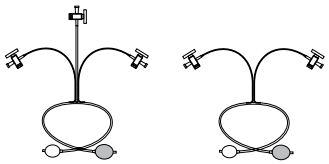
Dual-balloon design made of Polyurethane for fast, easy insertion and atraumatic no-clamp occlusion of internal and common carotid arteries. Smaller incision, less dissection and shorter arteriotomy. The balloons hold the artery open for better visualization of plaque end points. The Pruitt F3-S Polyurethane Shunt models do not include a safety balloon. Some models are without a T-Port.

TECHNICAL DATA

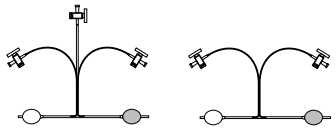
Balloon Material:	Polyurethane
Shunt Material:	Polyurethane
Length:	15 cm or 31 cm
Shelf Life:	2 years (extended shelf life testing on going)

- **T-Port with stopcock (red), some models without T-Port**
- **Color coded stopcocks**
- **Color coded common carotid balloon (blue)**
- **Color coded inflation lumen (blue, clear)**
- **Centimeter depth markings**
- **No safety balloon**





Pruitt F3-S Outlying Carotid Shunts**	Length	Pack size	Model # REF
8F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2015-10
9F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2014-10
9F Pruitt F3 Shunt *without* T-Port	31 cm	1 unit per pack	2014-11
10F Pruitt F3 Shunt with T-Port	31 cm	1 unit per pack	2016-10



Pruitt F3-S Inlying Carotid Shunts**	Length	Pack size	Model # REF
9F Pruitt F3 Shunt with T-Port	15 cm	1 unit per pack	2014-12
9F Pruitt F3 Shunt *without* T-Port	15 cm	1 unit per pack	2014-13
10F Pruitt F3 Shunt *without* T-Port	15 cm	1 unit per pack	2016-11

* Data on file at LeMaitre Vascular, Inc.
** Pruitt F3-S Polyurethane shunt models do not include a safety balloon

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Notes

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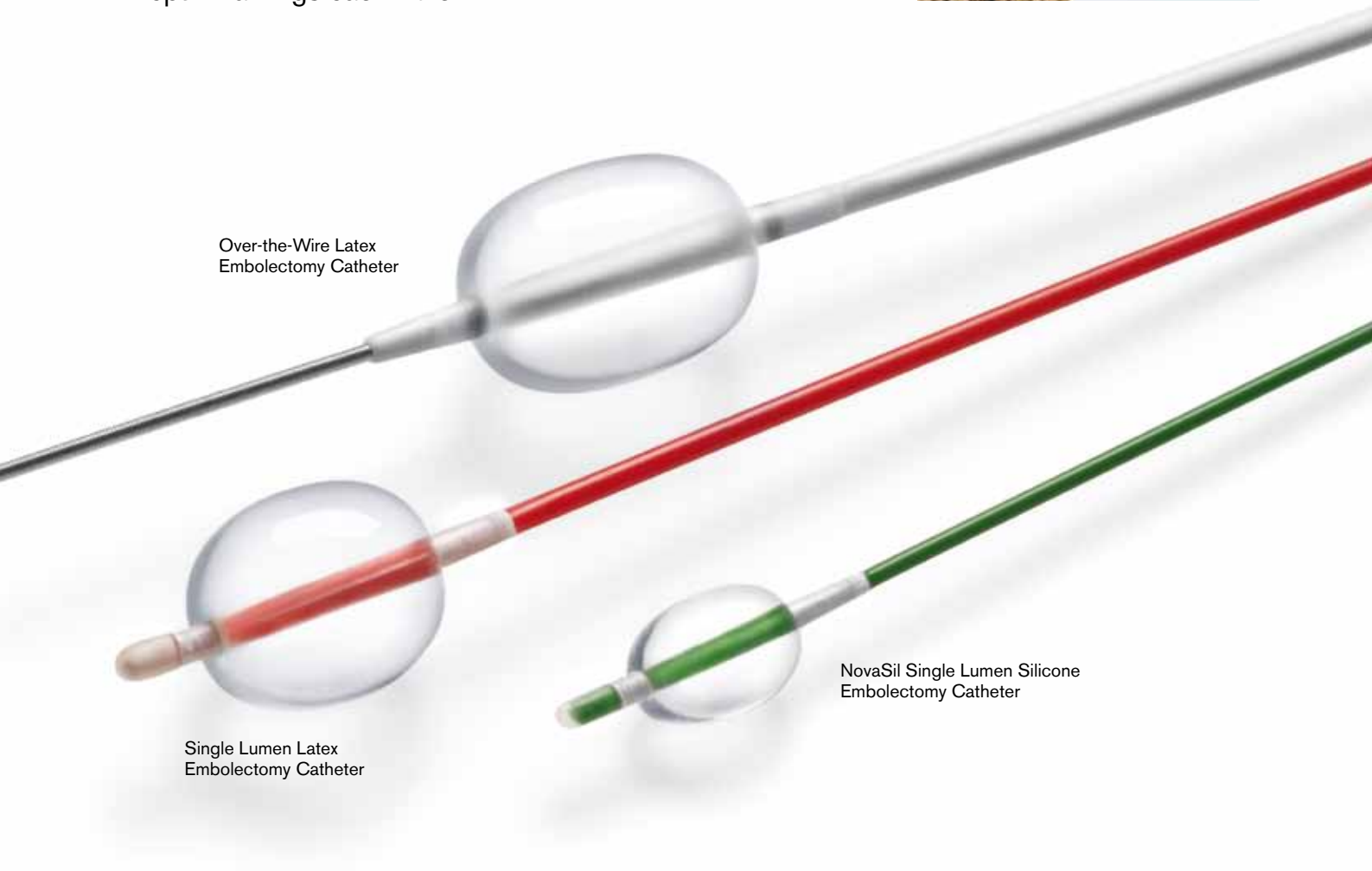
LeMaitre® VASCULAR
Your Peripheral Vision™

LeMaitre® Embolectomy Catheters

A Broad Range of Premium Quality Embolectomy Catheters

- Sold internationally for more than 20 years
- Used in over 1 million procedures
- Highly rupture-resistant balloons
- Up to 60% stronger balloons than leading competitor*
- Up to 80% stronger bonds than leading competitor*
- Concentric balloons with progressive Inflation
- Radiopaque catheter shaft
- French size color coding
- Depth markings each 10 cm



* Data on file at LeMaitre Vascular, Inc.

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LeMaitre® Embolectomy Catheters

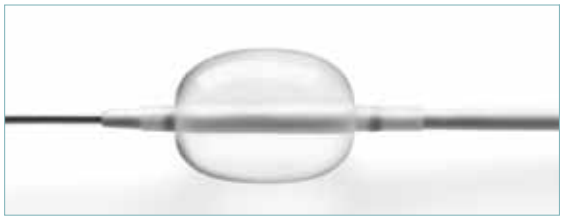
A Complete Range of Premium Quality Catheters

LeMaitre offers an expanded line of premium quality balloon catheters for rapid removal of emboli and thrombi. Available in Single Lumen, Over-the-Wire, and Silicone balloon models. LeMaitre Embolectomy Catheters have been sold internationally for over 20 years and have been used in over 1 million procedures.

TECHNICAL DATA

Balloon Material:	Latex
Catheter Material:	PEBAX (Polyether Block Amide)
Shelf Life:	Single Lumen Catheter 6 years
	Over-the-Wire Catheter 6 years

- **Highly rupture-resistant balloons**
- **Up to 60% stronger balloons than leading competitor***
- **Up to 80% stronger bonds than leading competitor***
- **Concentric balloons with progressive inflation**
- **Radiopaque catheter shaft**
- **French size color coding**
- **Depth markings each 10 cm**



5.5F Over-the-Wire Embolectomy Catheter
- Two radiopaque bands at proximal and distal ends of balloon for enhanced visibility under fluoroscopy
- Compatible with 0.035˝ guidewire and 6F introducer

Embolectomy Catheters, single lumen
Significantly stronger than leading competitor*. It features stronger bonds which allow to apply more force with less risk of balloon detachment from the catheter and a stronger balloon to yield greater burst strength and reducing the risk of balloon rupture in even challenging situations. 6 years shelf life.

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Model # REF
4.5 mm	0.05 ml	2F		40 cm	1601–24
4.5 mm	0.05 ml	2F		60 cm	1601–26
4.5 mm	0.05 ml	2F		80 cm	1601–28
8.0 mm	0.20 ml	3F		40 cm	1601–34
8.0 mm	0.20 ml	3F		80 cm	1601–38
10.5 mm	0.75 ml	4F		40 cm	1601–44
10.5 mm	0.75 ml	4F		80 cm	1601–48
13.0 mm	1.50 ml	5F		40 cm	1601–54
13.0 mm	1.50 ml	5F		80 cm	1601–58
13.5 mm	1.60 ml	6F		80 cm	1601–68
14.0 mm	1.75 ml	7F		80 cm	1601–78

Over-the-Wire Embolectomy Catheters, double lumen
Highly rupture resistant balloon. Compatible with guidewire sizes as below. Facilitates dye enhancement and irrigation option (e.g. heparin saline solution, thrombolysis, etc.). Detachable stopcocks and syringe included. 6 years shelf life.

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Compatible Guidewire	Model # REF
6 mm	0.20 ml	3F		40 cm	0.018”	1651–34
6 mm	0.20 ml	3F		80 cm	0.018”	1651–38
10 mm	0.75 ml	4F		40 cm	0.025”	1651–44
10 mm	0.75 ml	4F		80 cm	0.025”	1651–48
12 mm	1.50 ml	5.5F		40 cm	0.035”	1651–84
12 mm	1.50 ml	5.5F		80 cm	0.035”	1651–88
13 mm	1.60 ml	6F		40 cm	0.035”	1651–64
13 mm	1.60 ml	6F		80 cm	0.035”	1651–68
14 mm	1.75 ml	7F		80 cm	0.038”	1651–78

* Data on file at LeMaitre Vascular, Inc.

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NovaSil Silicone Embolectomy Catheters

TECHNICAL DATA

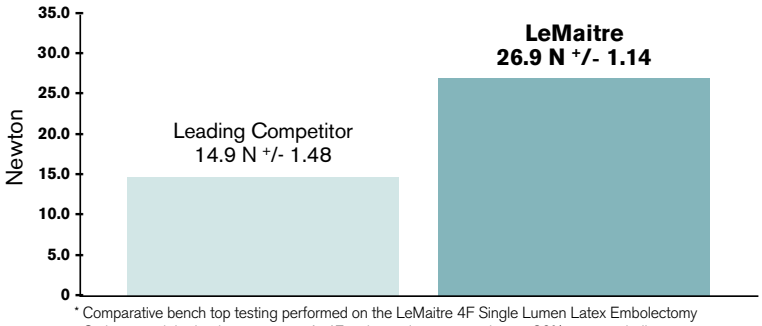
Balloon Material:	Silicone
Catheter Material:	PEBAX (Polyether Block Amide)
Shelf Life:	5 years
Not made with natural rubber latex	
• Catheter radiopaque **• French size color coding** **• Depth markings each 10 cm** **• Concentric balloons with progressive inflation**	

NovaSil Silicone Embolectomy Catheters, single lumen
The NovaSil Silicone balloon catheter provides a viable option for patients and nurses with latex sensitivity.
5 years shelf life.

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Model # REF
4 mm	0.05 ml	2F		60 cm	1801–26
6 mm	0.20 ml	3F		40 cm	1801–34
6 mm	0.20 ml	3F		80 cm	1801–38
9 mm	0.60 ml	4F		40 cm	1801–44
9 mm	0.60 ml	4F		80 cm	1801–48
11 mm	1.00 ml	5F		40 cm	1801–54
11 mm	1.00 ml	5F		80 cm	1801–58
13 mm	1.60 ml	6F		80 cm	1801–68
14 mm	1.75 ml	7F		80 cm	1801–78

STRONGER BOND TEST RESULTS*

N = Force in Newton
Mean Bond Strength in N +/- Standard Deviation



* Comparative bench top testing performed on the LeMaitre 4F Single Lumen Latex Embolectomy Catheter and the leading competitor's 4F catheter demonstrated up to 80% stronger balloon bonds and up to 60% stronger balloons.

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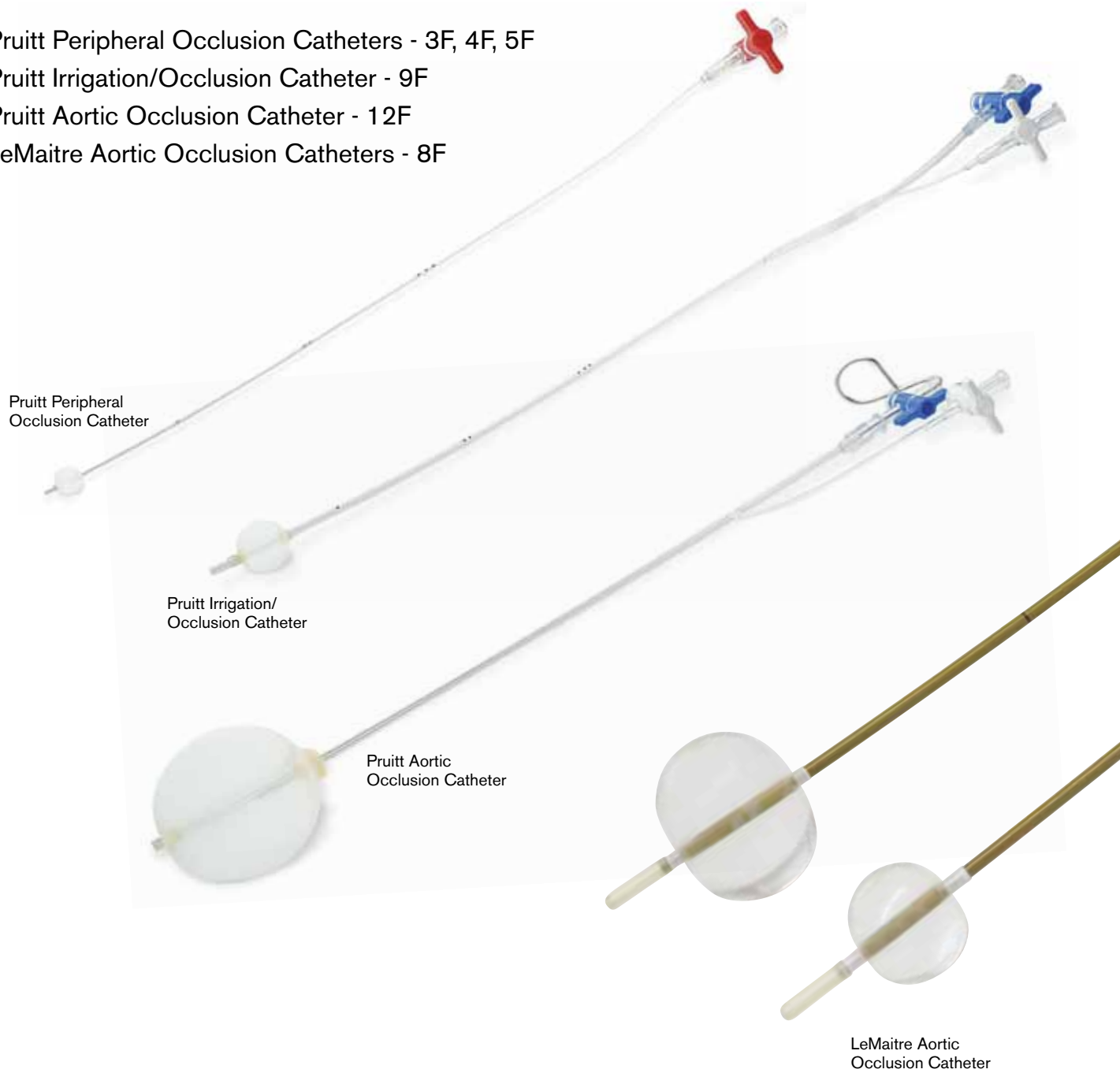
LeMaitre® VASCULAR
Your Peripheral Vision™

Pruitt® Occlusion Catheters
LeMaitre® Aortic Occlusion Catheters

Temporary Atraumatic Vessel Occlusion and Safe, Rapid Control of Bleeding

- Pruitt Peripheral Occlusion Catheters - 3F, 4F, 5F
- Pruitt Irrigation/Occlusion Catheter - 9F
- Pruitt Aortic Occlusion Catheter - 12F
- LeMaitre Aortic Occlusion Catheters - 8F



Pruitt Peripheral Occlusion Catheter

Pruitt Irrigation/ Occlusion Catheter

Pruitt Aortic Occlusion Catheter

LeMaitre Aortic Occlusion Catheter

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Pruitt® Occlusion Catheters

The Option for Safe, Effective Vessel Occlusion

LeMaitre offers an expanded family of Pruitt Occlusion Catheters for a wide range of vessels and procedures where safe and effective vessel occlusion is essential. The Pruitt Irrigation/Occlusion Catheter features an irrigation option. The Pruitt Aortic Occlusion Catheter features a malable stylet and an irrigation option.

TECHNICAL DATA

Balloon Material:	Latex
Catheter Material:	Polyurethane

- **Stopcock French size color coding for Pruitt Peripheral Occlusion Catheter**
- **Depth markings each 5 cm**
- **Luer Lock syringes included**
- **Malleable stainless steel stylet for Pruitt Aortic Occlusion Catheter**

Shelf Life:	Pruitt Peripheral Occlusion Catheter	5 years
	Pruitt Irrigation/Occlusion Catheter	5 years
	Pruitt Aortic Occlusion Catheter	5 years

Pruitt Peripheral Occlusion Catheters - 3F, 4F, 5F

For smaller vessels, this soft, pliable balloon catheter provides atraumatic vessel occlusion without clamps or ties. The Pruitt Peripheral Occlusion Catheters are ideal for controlling venous and arterial bleeding in smaller vessels, including tibials, carotids, popliteals, lumbars, celiacs and occluding vessels during aneurysm repair.

Pruitt Occlusion Catheters

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Model # REF
7 mm	0.5 ml	3F		27 cm	2103-36
9 mm	0.75 ml	4F		27 cm	2103-46
11 mm	1.0 ml	5F		27 cm	2103-56

1 unit per pack
Luer Lock syringe 3 ml included

Pruitt Irrigation/Occlusion Catheter - 9F

Designed for use in iliac, femoral, and popliteal arteries, this catheter provides effective intraluminal occlusion plus an irrigation option.

Pruitt Irrigation/Occlusion Catheter

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Model # REF
18 mm	4.0 ml	9F	clear	23 cm	2102-09

1 unit per pack
Luer Lock syringe 5 ml included

Pruitt Aortic Occlusion Catheter - 12F

Control ruptured or acutely leaking abdominal aneurysms with a large balloon for positive, secure occlusion. This catheter is ideal when dissecting and cross-clamping are difficult or time-consuming, the aneurysm is difficult to reach or the aorta is calcified, making clamping undesirable. The Pruitt Aortic Occlusion Catheter includes a malleable stainless steel stylet and an irrigation option.

Pruitt Aortic Occlusion Catheter

Balloon Diameter	Balloon Volume	Diameter	Color	Length	Model # REF
43 mm	50 ml	12F	clear	24 cm	2100-12

Luer Lock syringes 30 ml + 5 ml included

New: 1 unit per pack

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Temporary Aortic Intraluminal Occlusion

In addition to the 12F Pruitt Aortic Occlusion Catheter, LeMaitre Vascular also offers an 8F Aortic Occlusion Catheter line. The 8F / 80 cm catheter is suited for temporary intraluminal balloon occlusion of the aorta or large iliac arteries whenever an atraumatic occlusion method is indicated or to rapidly control aortic hemorrhage. The catheter is also very useful in operations when an extensive dissection is undesirable. The radiopaque PEBAX shaft allows visibility of the catheter and proper balloon positioning under X-Ray. The fluted balloon design supports a fast inflation and deflation time and optimizes the balloon shape for effective aortic occlusion.

TECHNICAL DATA

Balloon Material:	Latex
Catheter Material:	PEBAX (Polyether Block Amide)
Shelf Life:	5 years

- **Fluted balloon design**
- **Fast inflation and deflation time**
- **Atraumatic, smooth radiused tip design**
- **Radiopaque catheter shaft**
- **French size color coding - brown**
- **Depth markings each 10 cm**
- **2-way stop cock**

LeMaitre Aortic Occlusion Catheters

Balloon Diameter	Balloon Volume	Catheter Shaft Diameter	Max. Diameter (F) of deflated Balloon	Color	Length	Model # REF
28 mm	15 ml	8F	14F		80 cm	2107-80
45 mm	50 ml	8F	22F		80 cm	2107-81

1 unit per pack

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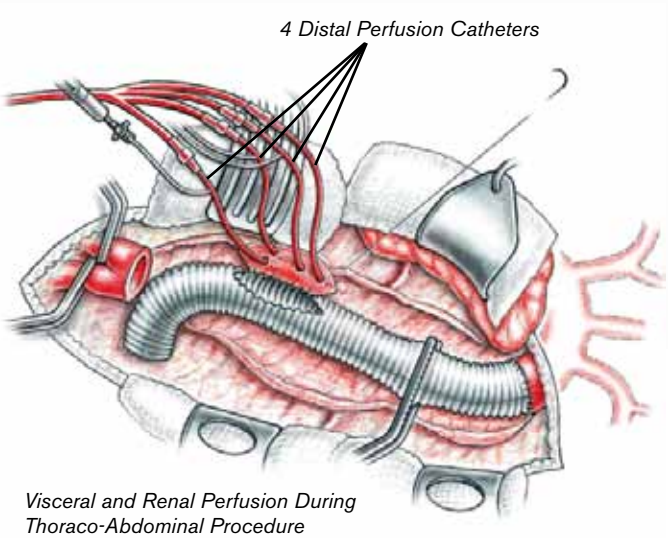
LeMaitre® VASCULAR
Your Peripheral Vision™

Distal Perfusion Catheter

For Organ Perfusion During Open Aortic Repair Procedures



Visceral and Renal Perfusion During Thoraco-Abdominal Procedure

Pictures courtesy of Prof. Dr. Jürg Schmidli, Bern Universityhospital, Dept. for Cardiac and Vascular Surgery, Inselspital, 3010 Bern, Switzerland

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Distal Perfusion Catheter

LeMaitre's Distal Perfusion Catheter is the ideal choice for renal and visceral perfusion during open TAAA or AAA procedures. Attach the catheter to an external or internal blood circuit and insert balloon end into recipient vessel.

TECHNICAL DATA

Balloon Material:	Latex
Catheter Material:	Polyurethane
Shelf Life:	5 years
Balloon Length:	1.5 cm
Catheter Diameter:	12F
Catheter Length:	24 cm
• Blue stopcock detachable for increased flow	
• High flow volume	
• Balloon design optimized for distal arteries	

Aditional connective material like "perfusion lines", "octopus devider", "cannulas" available from other suppliers

FLOW OVERVIEW*

Flow Volume	Blue Stopcock deatached	Blue Stopcock attached
Vol. max.	**294 ml**	**279 ml**
Vol. min.	**282 ml**	**265 ml**

* Simulated testing conducted at 120/80 mmHg.
Data on file at LeMaitre Vascular, Inc.

Distal Perfusion Catheter

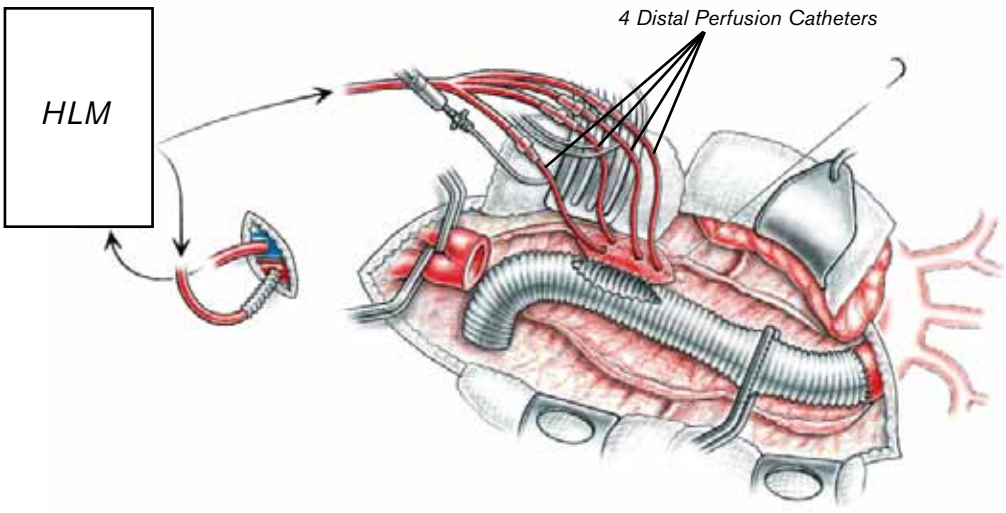
Balloon Diameter	Balloon Length	Balloon Volume	Diameter	Color	Length	Model # REF
18 mm	1.5 cm	3.4 ml	12F	clear	24 cm	2105-15

Luer Lock syringe 5 ml included

New: 1 unit per pack.

Typical Application of Distal Perfusion Catheters

Setup of a complete thoraco-abdominal aortic reconstruction with sequential replantation of the spinal and visceral arteries. The supra-aortic branches are perfused during the complete procedure under beating heart. The lower extremities are perfused through a heart-lung machine (HLM) (white box) which is taking venous blood from the femoral cannula and providing arterial blood in an femoral conduit. While completing the proximal anastomosis the aorta is clamped above the visceral arteries and the HLM can reach the visceral organs and the opposite side. The visceral and renal arteries are perfused via the distal perfusion catheters via an octopus connector.



Picture courtesy of Prof. Dr. Jürg Schmidli, Bern Universityhospital, Dept. for Cardiac and Vascular Surgery, Inselspital, 3010 Bern, Switzerland

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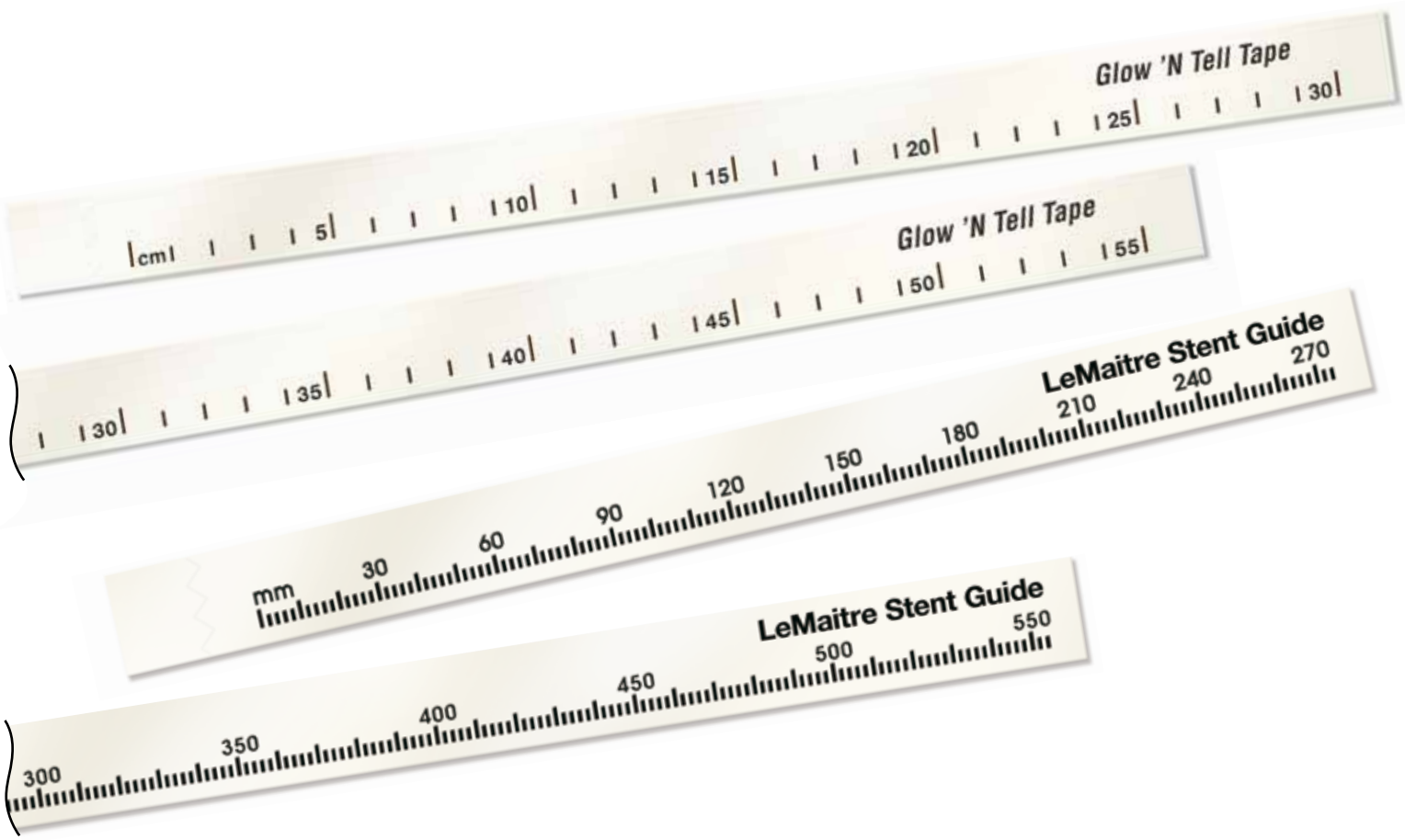
VascuTape®

Radiopaque Tape Precision in Vascular Imaging

- Flexible and self-adhesive
- Easy-to-use
- Faster procedure time
- Reduced exposure to contrast medium



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VascuTape®

Precise Vascular Imaging for Accuracy and Ease

VascuTape - the radiopaque marking tape from LeMaitre Vascular - provides pinpoint precision during vascular procedures. Stent and stent graft placements, PTA, plaque excision, and other endovascular procedures are all made more simple and accurate through the use of these innovative imaging tapes.

Choose VascuTape to Facilitate:

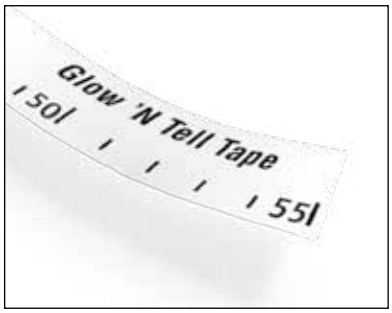
- Stent placement
- Balloon angioplasty
- Vena cava filter placement
- Stent Grafting
- Atherectomy plaque excision
- In situ bypass grafting

Key Benefits

- Flexible and adhesive
- Easy-to-use
- Faster procedure time
- Reduced exposure to contrast medium

TECHNICAL DATA

Tape Material:	Latex-Free
Radiopaque Scale:	cm or mm
Shelf Life:	5 years
Tape Length:	30 cm
	55 cm
	270 mm
	550 mm
• Flexible and self-adhesive	



Glow 'N Tell® Tape, 30 cm, cm-Scale	Usable Length	Model # REF
Glow 'N Tell Tape 30 cm	20 units per pack	30 cm	1100-20*

** The models containing 20 single units (# 1100-01) per pack, each unit single sterile packed*

Glow 'N Tell® Tape, 55 cm, cm-Scale	Usable Length	Model # REF
Glow 'N Tell Tape 55 cm	20 units per pack	55 cm	1108-20*

** The model contains 20 single units (# 1108-01) per pack, each unit single sterile packed*

LeMaitre® Stent Guide, 270 mm, mm-Scale	Usable Length	Model # REF
LeMaitre Stent Guide 270 mm	20 units per pack	270 mm	1102-20*

** The models containing 20 single units (# 1102-01) per pack, each unit single sterile packed*

LeMaitre® Stent Guide, 550 mm, mm-Scale	Usable Length	Model # REF
LeMaitre Stent Guide 550 mm	20 units per pack	550 mm	1109-20*

** The model contains 20 single units (# 1109-01) per pack, each unit single sterile packed*

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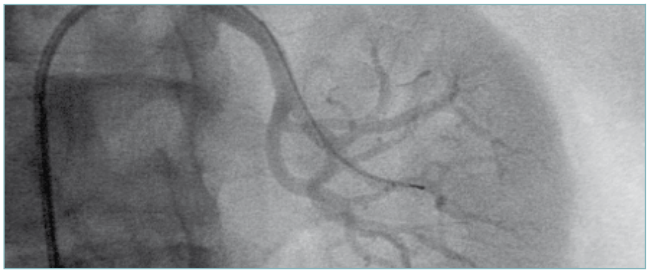
LeMaitre® VASCULAR
Your Peripheral Vision™

LeverEdge® Contrast Injector

Controlled Contrast Delivery

- Sterile and disposable
- Results in significant contrast savings[1]
- Injects from 0.1 to 32 ml of contrast
- Delivering pressures 6-times greater than standard manual syringes[2]



1 Akhtar S, Johnson KB, Dalton R, et al. The use of a new mechanically advantaged syringe for performing coronary intervention. J Invasive Cardiol 1999; 11: 656-60.
2 Akhtar S, Johnson KB, Dalton R, et al. OZ Power Syringe: A New Tool for the Cardiac Cath Lab. Cath-Lab Digest 1999; 7.

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LeverEdge® Contrast Injector

Controlled Contrast Delivery

The LeverEdge Contrast Injector provides a manual operator with complete control. Sterile and disposable, it can result in significant contrast savings[1], as compared to other manual and electrical injectors.
Its patented design injects from 0.1 to 32 ml of contrast, delivering pressures 6-times greater than standard manual syringes[2], enabling manual delivery through smaller catheter sizes.
By reducing the level of contrast exposure, the LeverEdge Contrast Injector lowers the risk of renal failure and reduces discomfort with all vascular angiograms. Using the LeverEdge Contrast Injector with smaller sized catheters promotes fewer groin complications and earlier ambulation. The LeverEdge Contrast Injector is ergonomically designed to reduce hand trauma compared to manual syringes.

TECHNICAL DATA

Fluid Delivery:	0.1 to 32 ml
Injection Pressure:	up to 6-times greater than manual syringes[1]
Shelf Life:	5 years
• Ergonomical Design	
• Latex-Free	

Reduced Patient Risk
- Lower risk of contrast induced renal failure
- Reduces discomfort
- Allows usage of smaller size catheters

Improved Cost Containment
- Reduces equipment expenses and power injector usage
- Less use of contrast
- Allows imaging right in the OR

Enhanced Operator Effectiveness
- Single use
- Maintains sterility of the field
- Increases control of larger volume application
- Easy to reload

Applications

- Diagnostic imaging in the operating room
- Iliac artery stenting
- Intraoperative imaging of bypass conduits
- Intraoperative imaging for aortic stent graft procedures
- Imaging for vena cava filter placement

	LeverEdge Contrast Injector	Model # REF
LeverEdge Contrast Injector	1 unit per pack	4100-00

1 Akhtar S, Johnson KB, Dalton R, et al. The use of a new mechanically advantaged syringe for performing coronary intervention. J Invasive Cardiol 1999; 11: 656-60.
2 Akhtar S, Johnson KB, Dalton R, et al. OZ Power Syringe: A New Tool for the Cardiac Cath Lab. Cath-Lab Digest 1999; 7.

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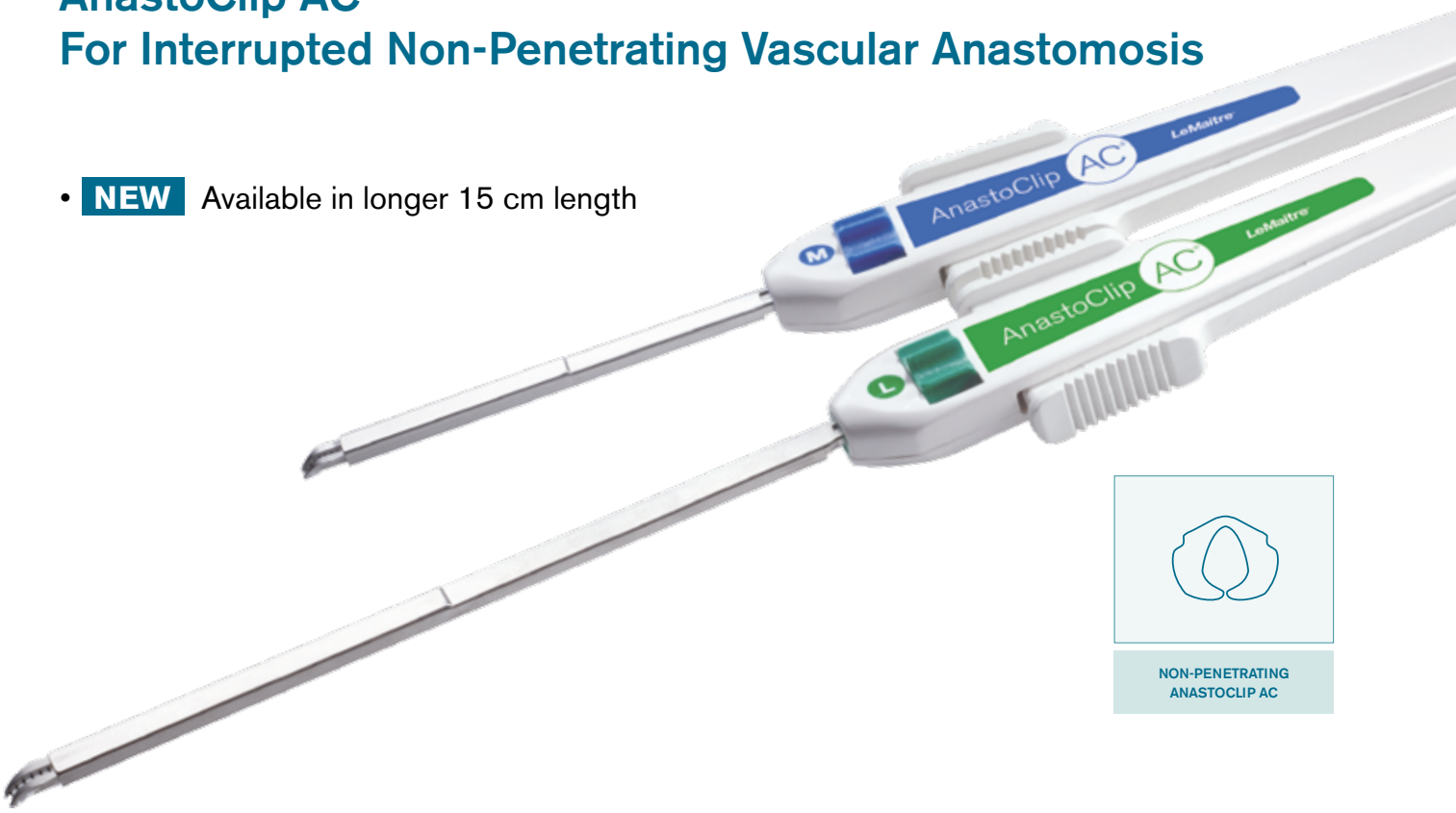
AnastoClip® Closure System

AnastoClip AC
For Interrupted Non-Penetrating Vascular Anastomosis

- **NEW** Available in longer 15 cm length



NON-PENETRATING
ANASTOCLIP AC

AnastoClip GC
For Interrupted Vascular Anastomosis

PENETRATING
ANASTOCLIP GC

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AnastoClip® AC Closure System

AnastoClip AC

The AnastoClip AC provides precise and rapid vascular anastomosis. AnastoClips, placed in an interrupted fashion, facilitate a compliant anastomosis without penetrating the vessel lumen. The anastomosis is allowed to contract and expand to accommodate pulsative flow due to interrupted AnastoClip placement. In addition, hemostatic anastomosis and faster clipping reduce OR time. An ergonomic handle with rotator provides for secure grip and easy maneuverability of device. Multiple sizes facilitate perfect sizing for a variety of applications. The AnastoClip Appliers are now available in 8 cm and new 15 cm length.

Key Benefits

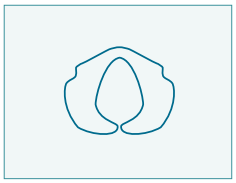
- 20% improved patency over two years[1]
- Interrupted, compliant anastomotic line
- No suture hole bleeding for immediate hemostasis
- Fewer revisions to maintain functional patency[1]
- Reduced procedure time[2]

Effective in Native Vessels and ePTFE:

- AV access grafting
- AV fistulas
- Peripheral bypass grafting
- Arteriotomy and venotomy
- Vessel repair

TECHNICAL DATA

Clip Material:	Titanium
Forceps Material:	Stainless Steel
Shelf Life:	5 years
• Ergonomic handle with rotator	
• Applier and Clip Remover Latex-Free	



NON-PENETRATING ANASTOCLIP AC

Non-penetrating AnastoClip AC

			Span Before Closure (Size)	Overall Length	# of Clips	Useable Length	Model # REF
Small	S	1.4 mm / 0.9 mm	1 unit per pack	0.9 mm	1.4 mm	40	5 cm	4000-05
Medium	M	2.3 mm / 1.4 mm	1 unit per pack	1.4 mm	2.3 mm	35	8 cm	e4000-06
Medium	M		1 unit per pack	1.4 mm	2.3 mm	35	***NEW*** 15 cm	4012-01
Large	L	3.3 mm / 2.0 mm	1 unit per pack	2.0 mm	3.3 mm	35	8 cm	e4000-07
Large	L		1 unit per pack	2.0 mm	3.3 mm	35	***NEW*** 15 cm	4012-02
Extra Large	XL	4.93 mm / 3.0 mm	1 unit per pack	3.0 mm	4.9 mm	25	8 cm	e4000-08
Extra Large	XL		1 unit per pack	3.0 mm	4.9 mm	25	***NEW*** 15 cm	4012-03

Forceps	Length	Model # REF
AnastoClip Reusable Atraumatic Forceps	18 cm	4001-06

Clip Remover	Length	Model # REF
AnastoClip Universal Clip Remover 6 units per pack	10 cm	4001-00
AnastoClip Universal Clip Remover 6 units per pack	***NEW*** 15 cm	4013-00

1 Shenoy S, Miller A, Petersen F, et al. A multicenter study of permanent hemodialysis access patency: Beneficial effect of clipped vascular anastomotic technique. J Vasc Surg 2003; 38: 229-35.
2 Baguneid MS, Goldner S, Fulford PE, et al. A comparison of para-anastomotic compliance profiles after vascular anastomosis: Nonpenetrating clips versus standard sutures. J Vasc Surg 2001; 33: 812-20.

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AnastoClip GC

AnastoClip GC Closure System is designed to create a more secure vascular anastomosis. AnastoClip GC Clips, placed in an interrupted fashion, facilitate a compliant anastomosis. The anastomosis is allowed to contract and expand to accommodate pulsatile flow due to interrupted AnastoClip GC Clip placement. In addition, faster clipping can reduce OR time. An ergonomic handle with rotator provides for secure grip and easy maneuverability of device. Multiple sizes facilitate perfect sizing for a variety of applications. The Appliers are now available in 8 cm and new 15 cm length.

Key Benefits

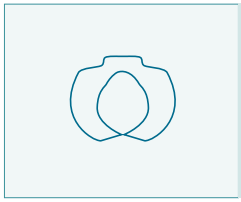
- Interrupted, compliant anastomotic line
- Securely grips by penetrating vessel walls
- Fewer revisions to maintain functional patency[1]
- Reduced procedure time[2]

Applications

- AV fistulas
- Peripheral bypass vein grafting
- Arteriotomy and venotomy
- Vessel repair

TECHNICAL DATA

Clip Material:	Titanium
Forceps Material:	Stainless Steel
Shelf Life:	5 years
• Ergonomic handle with rotator	
• Applier and Clip Remover Latex-Free	



"GRIPPIER" ANASTOCLIP GC clips are designed to penetrate the vessel wall to create a more secure anastomosis and make it easier to sucessfully apply clips.

Penetrating AnastoClip GC

			Span Before Closure (Size)	Overall Length	# of Clips	Useable Length	Model # REF
Medium	M	2.3 mm / 1.1 mm	1 unit per pack	1.1 mm	2.3 mm	35	8 cm	4009-06
Medium	M		1 unit per pack	1.1 mm	2.3 mm	35	***NEW*** 15 cm	4011-01
Large	L	3.3 mm / 1.7 mm	1 unit per pack	1.7 mm	3.3 mm	35	8 cm	4009-07
Large	L		1 unit per pack	1.7 mm	3.3 mm	35	***NEW*** 15 cm	4011-02
Extra Large	XL	4.93 mm / 2.5 mm	1 unit per pack	2.5 mm	4.9 mm	25	8 cm	4009-08
Extra Large	XL		1 unit per pack	2.5 mm	4.9 mm	25	***NEW*** 15 cm	4011-03

Forceps	Length	Model # REF
AnastoClip Reusable Atraumatic Forceps	18 cm	4001-06

Clip Remover	Length	Model # REF
AnastoClip Universal Clip Remover 6 units per pack	10 cm	4001-00
AnastoClip Universal Clip Remover 6 units per pack	***NEW*** 15 cm	4013-00

1 Shenoy S, Miller A, Petersen F, et al. A multicenter study of permanent hemodialysis access patency: Beneficial effect of clipped vascular anastomotic technique. J Vasc Surg 2003; 38: 229-35.
2 Baguneid MS, Goldner S, Fulford PE, et al. A comparison of para-anastomotic compliance profiles after vascular anastomosis: Nonpenetrating clips versus standard sutures. J Vasc Surg 2001; 33: 812-20.

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Notes

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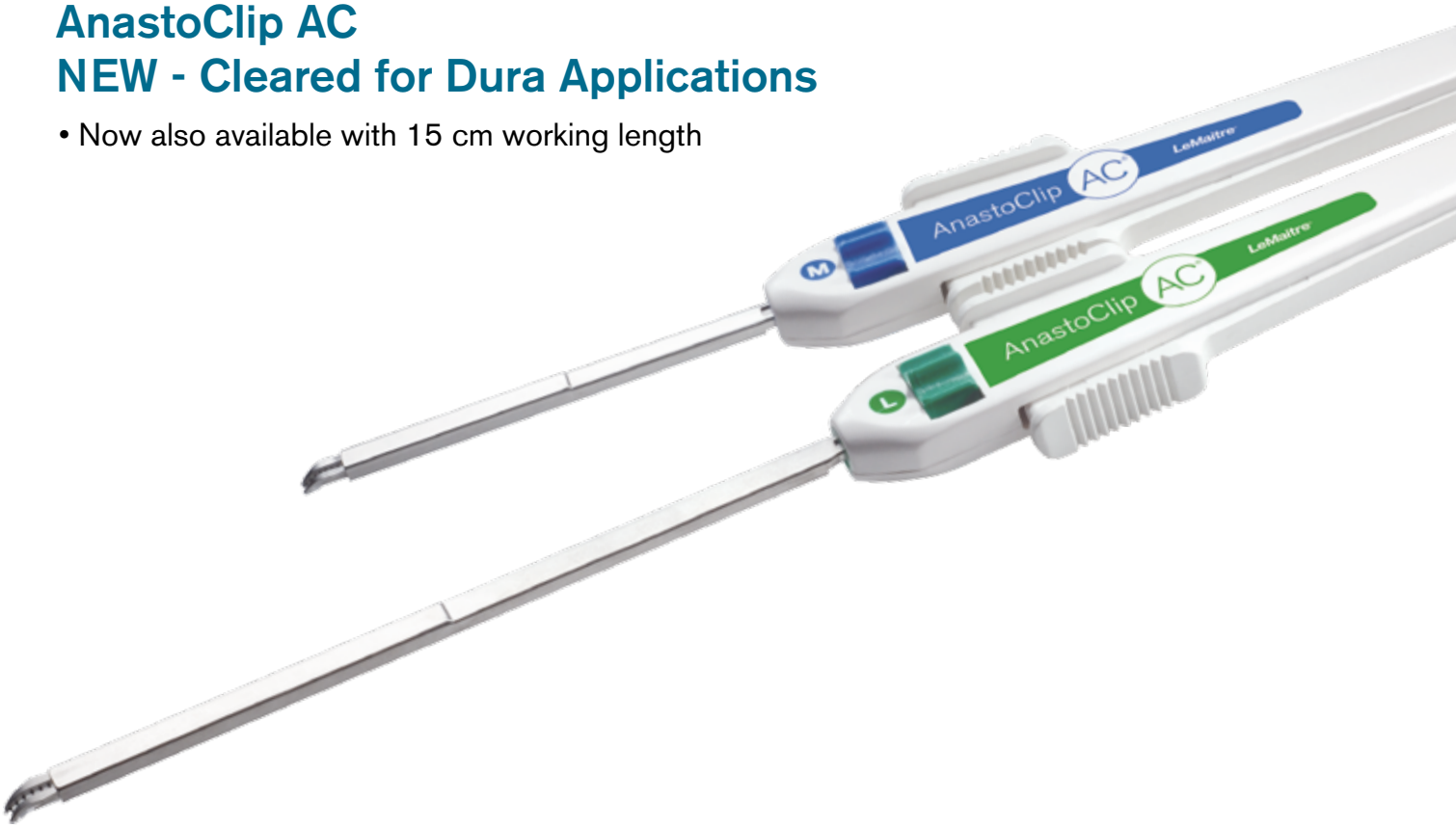
AnastoClip® AC Closure System
Dura Application

AnastoClip AC
NEW - Cleared for Dura Applications

• Now also available with 15 cm working length



AnastoClip AC dural closure after durotomy

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AnastoClip® AC Closure System

NEW 15 cm AnastoClip AC Closure System

AnastoClip AC Closure System with a new 15 cm length allows for better access in hard to reach anatomies. AnastoClips, placed in an interupted fashion, facilitates compliant dural closure without penetrating the dura. This eliminates CSF leakage from suture holes and allows for significantly reduced OR time.

Benefits

- Significantly reduced closure time[1,2]
- No CSF leakage from suture holes
- Immediate hydrostatic strength[2]
- Ease of use in anatomically restricted areas

Applications

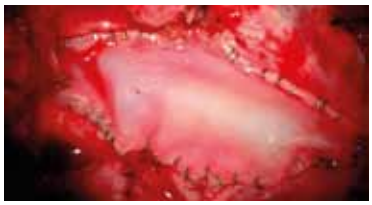
Use AnastoClip AC for approximation of dural tissue in a variety of Dural Applications

- Dural
- Hardware removal/revisions
- Spinal Trauma
- Spinal Meningioma
- Laminectomy
- Discectomy
- Craniotomy
- Chiari Malformation
- Pseudomeningocele
- Tethered Cord

TECHNICAL DATA

Clip Material:	Titanium
Forceps Material:	Stainless Steel
Shelf Life:	5 years
• Ergonomic handle with rotator	
• Applier and Clip Remover Latex-Free	

Clipped dural patch graft*



Bottom view in bovine dura*

Non-penetrating AnastoClip AC

			Span Before Closure (Size)	Overall Length	# of Clips	Useable Length	Model # REF
Medium	M	2.3 mm / 1.4 mm	1 unit per pack	1.4 mm	2.3 mm	35	8 cm	e4000-06
Medium	M		1 unit per pack	1.4 mm	2.3 mm	35	***NEW*** 15 cm	4012-01
Large	L	3.3 mm / 2.0 mm	1 unit per pack	2.0 mm	3.3 mm	35	8 cm	e4000-07
Large	L		1 unit per pack	2.0 mm	3.3 mm	35	***NEW*** 15 cm	4012-02
Extra Large	XL	4.93 mm / 3.0 mm	1 unit per pack	3.0 mm	4.9 mm	25	8 cm	e4000-08
Extra Large	XL		1 unit per pack	3.0 mm	4.9 mm	25	***NEW*** 15 cm	4012-03

Forceps	Length	Model # REF
AnastoClip Reusable Atraumatic Forceps	18 cm	4001-06

Clip Remover	Length	Model # REF
AnastoClip Universal Clip Remover 6 units per pack	10 cm	4001-00
AnastoClip Universal Clip Remover 6 units per pack	***NEW*** 15 cm	4013-00

1 Baguneid MS, Goldner S, Fulford PE, et al: A comparison of para-anastomotic compliance profiles after vascular anastomosis: Non-penetrating clips versus standard sutures. J Vasc Surg 2001; 33: 812-20.
2 Data on file LeMaitre Vascula.
* pictures LeMaitre Vascular with bovine dura during animal studies for approval process

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