



**ARTERIAL
PRODUCT CATALOG**

www.piartmedikal.com

For more information about
our other therapeutic areas:

Arterial Products Catalog,
Venous Products Catalog,
Cardiac Products Catalog,
Neurovascular Products Catalog,
General Surgery Catalog,
Oncology Products Catalog.

Contact Sales & Medical Department.

info@piartmedikal.com

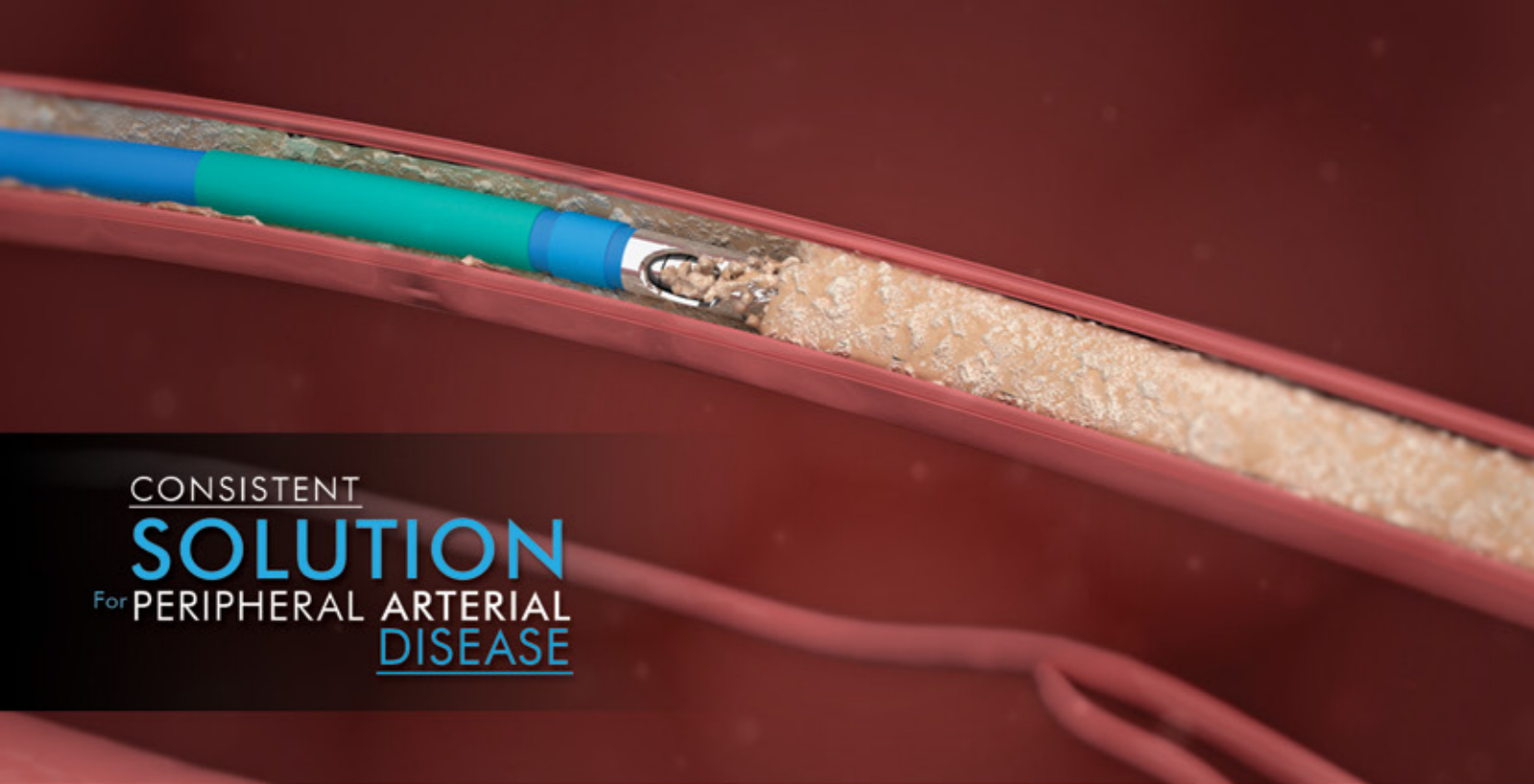


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Arterial Product Catalog INDEX

- **TemREN** Atherectomy
- **Atlas** Stent Peripheral
- **Atlas** Stent Aortic
- **Extender** Peripheral
- **Extender** Aortic
- **Jaguar** Long Sheath
- **Dolphin^{XC}** Support Catheter
- **Dolphin^{XR}** Support Catheter
- **Dolphin^{XS}** Support Catheter
- **Guide-X** Guide Extension Catheter
- **AngioHAND** Thrombus Removal System
- **EmboGUARD** Embolic Protection System
- **Keeper** Retriever Snare System

- **WaterJET** Thombus Management
- **Viper** Ultrasonic Infusion Therapy
- **Viper** Infusion Therapy
- **Filler** Embolization Agent
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- **Pars Peripheral** Embolization Catheter
- **SteerCATH** Catheter
- **AngioCATH** Guiding Catheter
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- **InWIRE** PTFE Coated Guidewire
- **InWIRE** Guidewire CTO
- **AngioTEN** Vascular Closure Device
- **Invaducer** Introducer Sheath



CONSISTENT
SOLUTION
For PERIPHERAL ARTERIAL
DISEASE

Treatment of peripheral artery disease (PAD) and critical extremity ischemia (CEI)

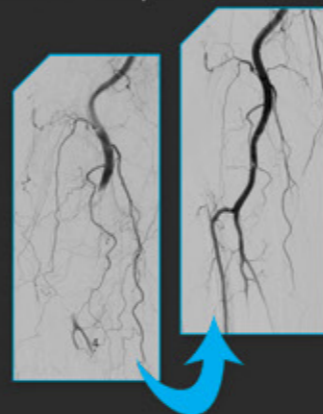
TemREN is used to prepare the lesion area for balloon angioplasty and to relieve heavy plaque burden from atherosclerotic lesions.

TemREN is usually made up of arteries that are difficult to treat with plaque burden by angioplasty and have chronic total occlusions and severe calcification lesions.

TemREN helps to achieve maximal lumen diameter for stent and balloon procedures.

- ✓ Atraumatic rotational distal tip allows reliable operation
- ✓ Allows movement over 0.014" guidewire
- ✓ TemREN transfers torque in the ratio of 1:1 (distal/proximal) by the help of its flexible helical internal structure
- ✓ Internal helix aspirates disintegrated atherosclerotic media by Archimedes Principle

Model Diameter	5F	6F	7F
Vessel Diameter (mm)	2.0-4.0	3.0-7.0	3.5-7.0
Sheath Compatibility (Fr)	5	6	7
Crossing Profile (mm)	1,8	2,1	2,4
Working Length (cm)	90,135,150	90,135,150	90,110,135,150
Guidewire Compatibility	0,014"	0,014"	0,014"-0,018"
Packing Device	X	X	X
Catheter Inner Layer	PTFE	PTFE	PTFE
Structure of the Catheter	PE/PEBAX	PE/PEBAX	PE/PEBAX



TemREN

ATHERECTOMY

- ✓ Ready to use set content provides a practical application option
- ✓ No additional installation equipment required before the process
- ✓ Rotation speed can be adjusted easily and provide safe space to surgeon



Braided Radiopaque Catheter

CAPTURE AND CLEAR

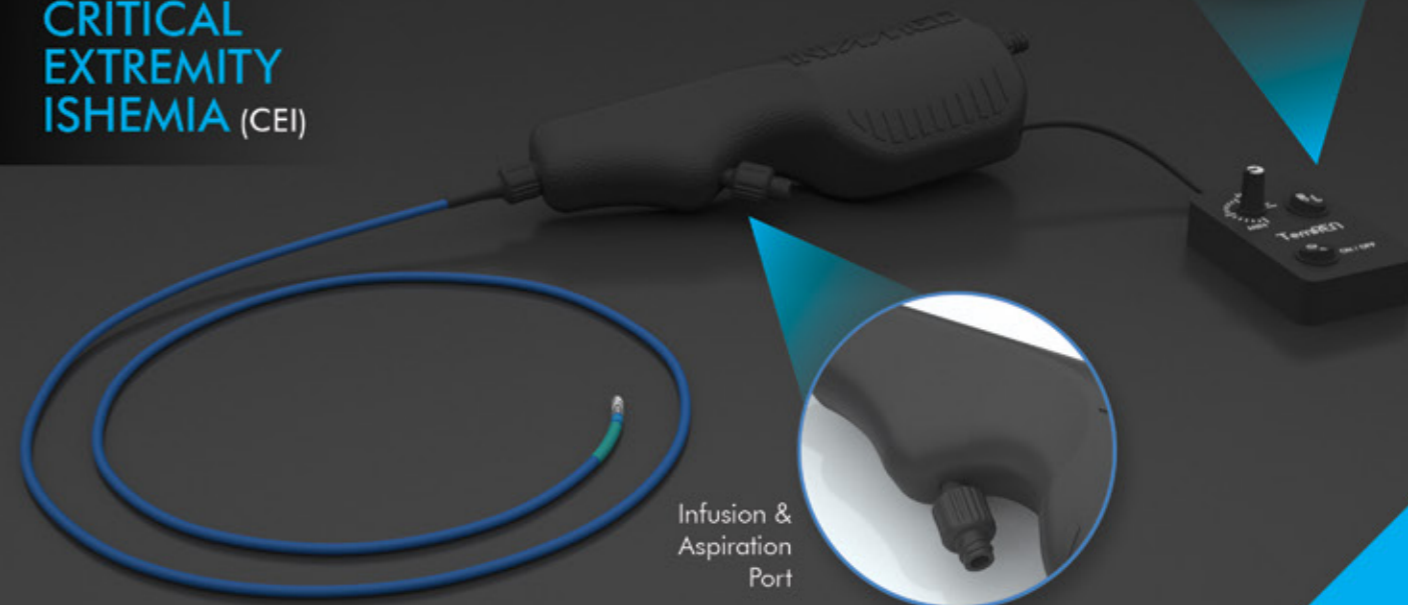
Single Handed Easy procedure Control with Adjustable Rotation Speed



TREATMENT OF PERIPHERAL ARTERY DISEASE (PAD) AND CRITICAL EXTREMITY ISHEMIA (CEI)

CUT AND TAILOR

Optional Rotation Direction (R/L)



Infusion & Aspiration Port

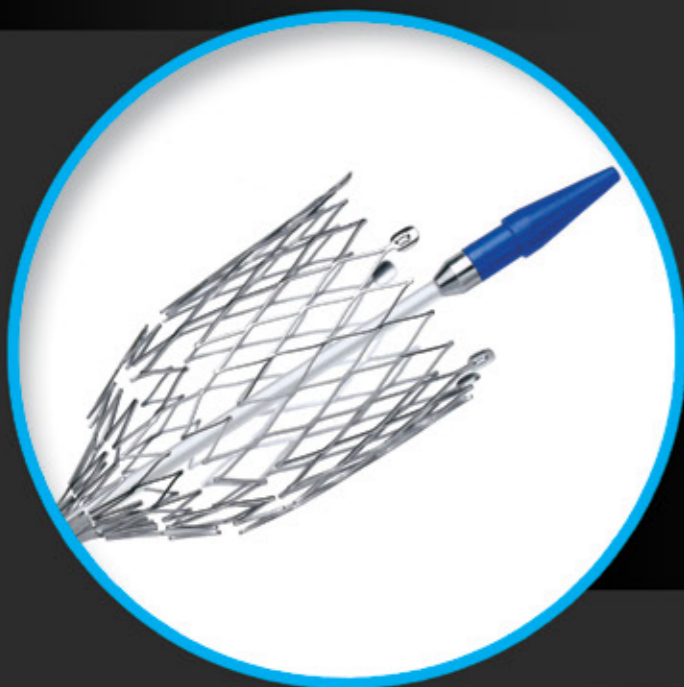


Atlas

AORTIC

Self-expandable Aortic Nitinol Stent

Our new an endoluminal stent prosthesis for the aorta is available in a unique range of different stent diameters and lengths that is unrivaled anywhere in the world.



AORTIC SELF-EXPANDABLE

Stent Material	Nitinol alloy
Stent Diameter	14 mm – 40 mm
Stent Length	70 mm – 100 mm – 130 mm
Delivery Catheter Structure	Over The Wire System
Guidewire Compatibility	0.035" (0.89 mm)
Delivery System	12 Fr , 14Fr , 16 Fr
Usable Length of Catheter	100 cm

Stent Size

	20mm	30mm	40mm	60mm	80mm	100mm	120mm	150mm	200mm
20mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
100mm	✓	✓	✓	✓	✓	✓	✓	✓	✓
130mm				✓	✓	✓	✓	✓	✓

Advantages

- ✓ Made of nitinol laser cutting
- ✓ (NiTi) – material with higher biocompatibility level and corrosion resistance than medical AISI 316L stainless steel
- ✓ Increased conformability within unique open-cell design technology
- ✓ Excellent radial force
- ✓ High flexibility of the Atlas™ Aortic stent effects in excellent adaptation to vessel curvature
- ✓ Special construction of the stent provides a good adhere to the vessel wall
- ✓ Radiopaque markers on the stent endings which allow precise implantation
- ✓ Special construction of the delivery system make to correction of stent position inside a vessel possible even after the partial stent release.
- ✓ Precise deployment with simplified single-operator system
- ✓ Coaxial pull back system for safety and easy use
- ✓ Delivery system for smooth gliding characteristics
- ✓ Radiopaque markers on the inner catheter
- ✓ For exact stent placement
- ✓ 100 cm working length
- ✓ OTW design with 0,035" guidewire
- ✓ Self-expanding nitinol stent
- ✓ Flexible stent design
- ✓ Closed-cell structure for optimal stent fixation
- ✓ Open-cell structure for high flexibility
- ✓ 5 intergrades laser-welded tantalum markers at proximal and distal end

EXCELLENT PRECISION & FLEXIBILITY

Atlas™ Aortic is indicated for:

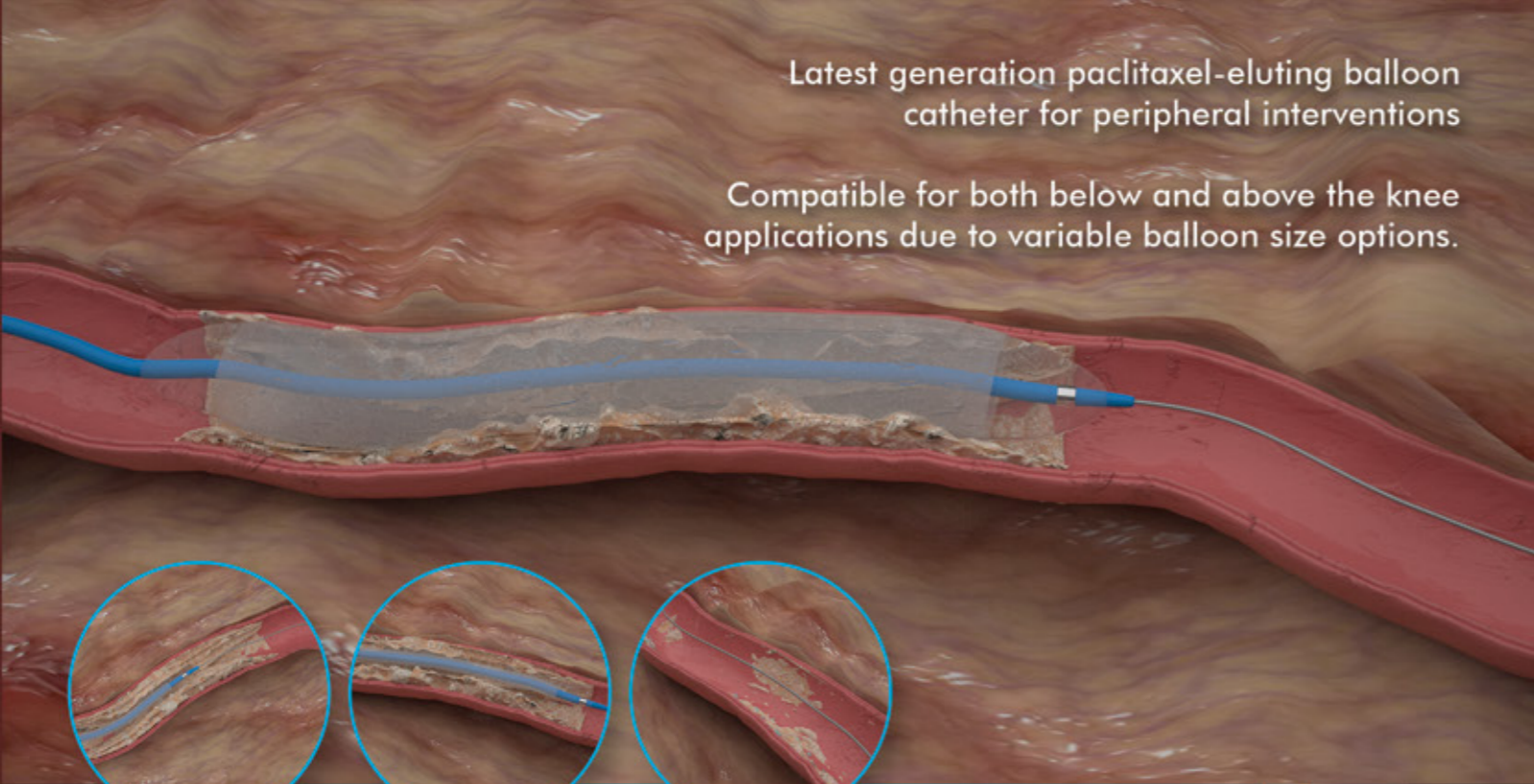
- Vena cava syndrome
- Obstructions of the vena cava
- Stenoses and dissections of the aorta
- Endoleak type 1a and 1b



COAXIAL PULL BACK SYSTEM
FOR SAFETY AND EASY TO USE

Latest generation paclitaxel-eluting balloon catheter for peripheral interventions

Compatible for both below and above the knee applications due to variable balloon size options.



OUTSTANDING CLINICAL PERFORMANCE and EXCELLENT LONG-TERM PATIENT RESULTS.

Mode of Action

With balloon dilatation, the injuries to the arterial wall initiate an inflammatory reaction with an excretion of growth factors which trigger the onset of cell division and smooth muscle cell migration.

Advantages

- ✓ Excellent pushability
- ✓ Targeted drug delivery into the vascular wall
- ✓ Single shot, short-term Paclitaxel delivery for long-term vessel patency
- ✓ Homogeneous and complete polymer-free drug release
- ✓ Low profile tip and balloon design for reduced friction and advanced crossing performance
- ✓ Homogeneous drug delivery
- ✓ Effectively inhibiting proliferation

Indicated for:

- De-novo lesions
- Restenosis after realisation of balloon and /or stent PTA
- Pre-and post-dilatation in case of peripheral stent implantation



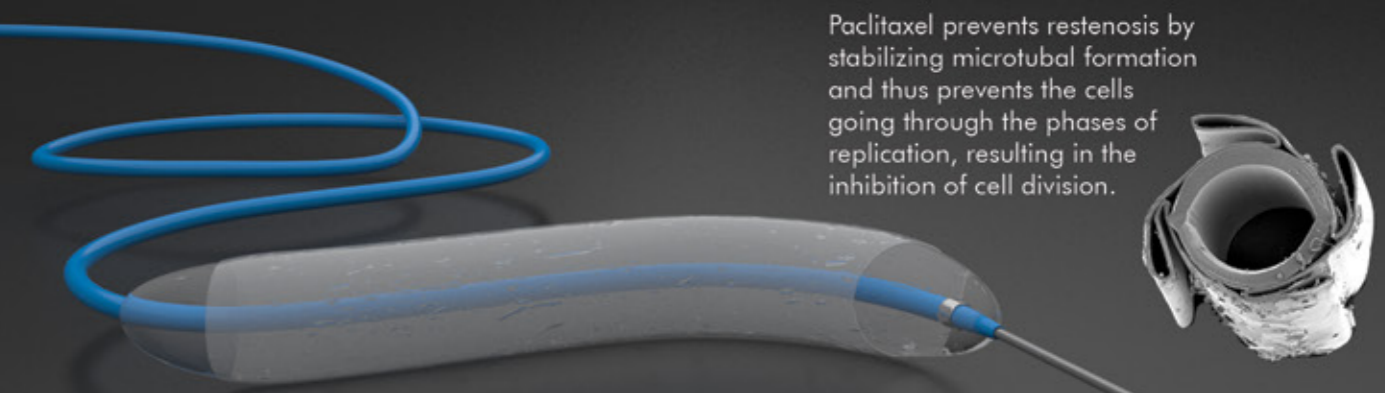
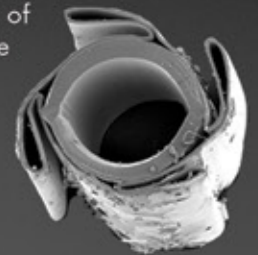
Extender
DRUG ELUTING BALLOON

- ✓ 3µg / mm² drug dosage
- ✓ <2µm particles
- ✓ Contrast Medis as a drug carrier
- ✓ Minimum drug loose during delivery
- ✓ <90% drug transfer to the target lesion

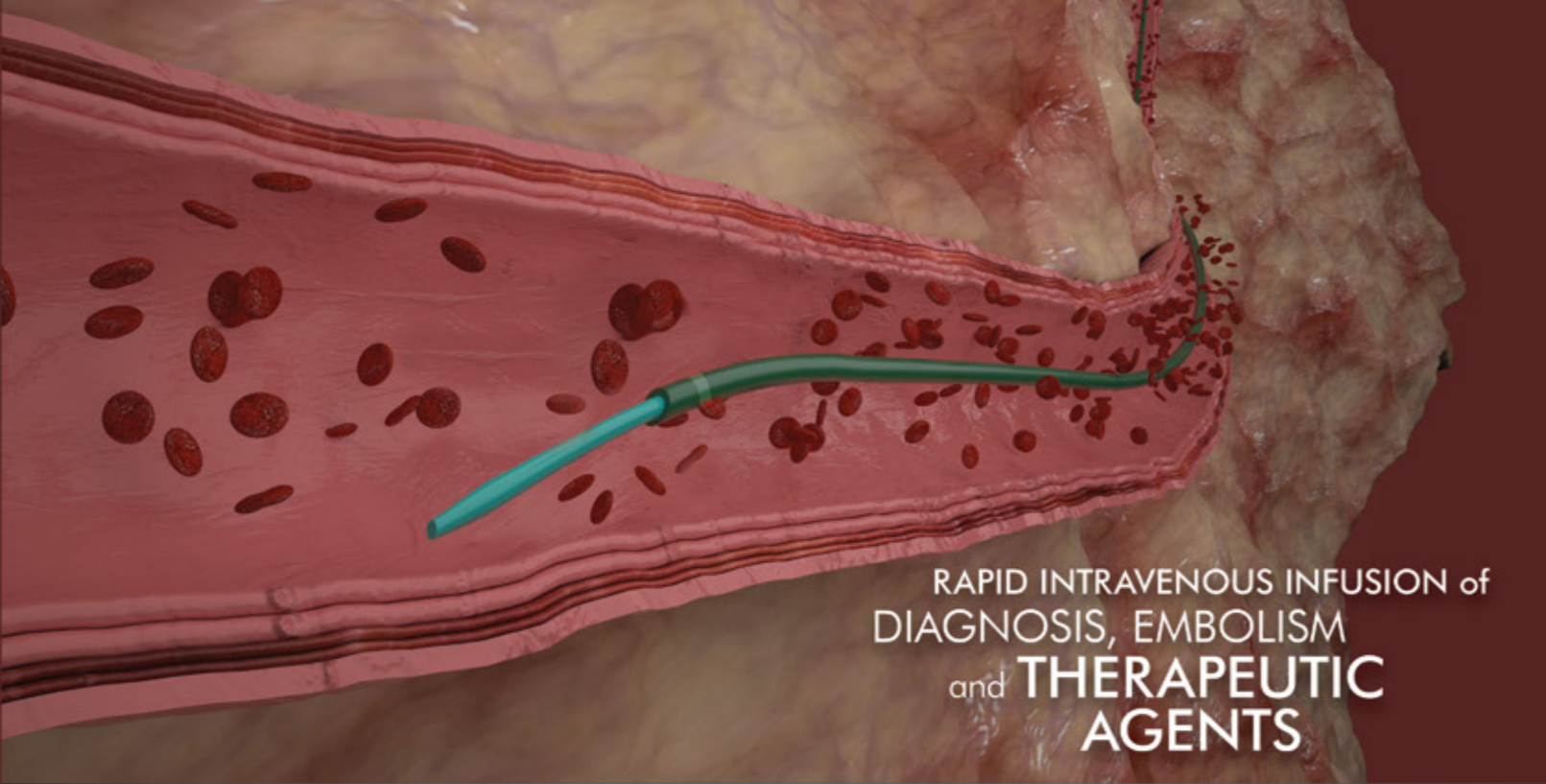
CONSISTENT TREATMENT OF PERIPHERAL ARTERIAL & VENOUS DISEASES

Paclitaxel Drug Dose	3.0-3.5 µg/mm ²
Excipient	Iopromid
Balloon Diameter	2.0 mm to 10 mm
Guiding Catheter Profile	5F, 6F, 7F
Balloon Length	15, 20, 40, 60, 80, 100, 120, 150, 220 mm
Balloon Fold Configuration	2.0 to 4.0 mm: 3 folds; 4.0 to 10 mm: 6 folds
Radiopacity	Pt-Ir Ring marker
Guidewire Compatible	0,014", 0,018", 0,025"
Catheter Design	Over the wire (OTW)
Catheter Length	80cm, 90cm, 120cm, 135 cm, 150 cm
Structure of the Catheter	PA/PEBAX

Paclitaxel prevents restenosis by stabilizing microtubul formation and thus prevents the cells going through the phases of replication, resulting in the inhibition of cell division.



PRESSURE	BALLOON DIAMETERS										NP
	2.00mm	2.50mm	3.00mm	3.50mm	4.00mm	5.00mm	6.00mm	7.00mm	8.00mm	9.00mm	10.00mm
6atm	1.84	2.09	2.41	3.03	3.78		5.84	6.74	7.63	8.74	9.94
7atm	1.92	2.16	2.54	3.14	3.89	4.84	6.00	7.00	8.00	9.00	10.00
8atm	1.98	2.25	2.78	3.30	4.00	5.00	6.22	7.14	8.24	9.22	10.24
10atm	2.00	2.50	3.00	3.50	4.11	5.11	6.29	7.26	8.38	9.38	10.38
											RBP
22atm	2.14	2.54	3.14	3.57	4.26	5.26	6.35	7.38	8.52	9.57	10.50
23atm	2.20	2.58	3.28	3.64	4.35	5.34	6.48	7.50	8.60	9.80	
24atm	2.26	2.62	2.33	3.71	4.48	5.41	6.60				
25atm	2.32	2.80	3.41	3.78	4.56						
27atm	2.40	3.01	3.47	3.82	4.40						



RAPID INTRAVENOUS INFUSION of
DIAGNOSIS, EMBOLISM
and THERAPEUTIC
AGENTS

DESIGNED to WORK WITH TemREN and Extender

The exact proper of the dilator in the sheath allows for simultaneous motion of both dilator and sheath. The shape of the dilator compliments the shape of the sheath. The radiopacity of the dilator has been greatly enhanced to increase the visibility. The distal segment of the dilator has been minimized to extend approximately 2 cm beyond the tip of the sheath.

Jaguar Catheter is designed to perform as a guiding catheter and an introducer sheath.

Jaguar Catheter is designed to be used for the introduction of interventional and diagnostic devices into the human vasculature, including but not limited to the lower extremities, renal arteries, and carotid arteries.

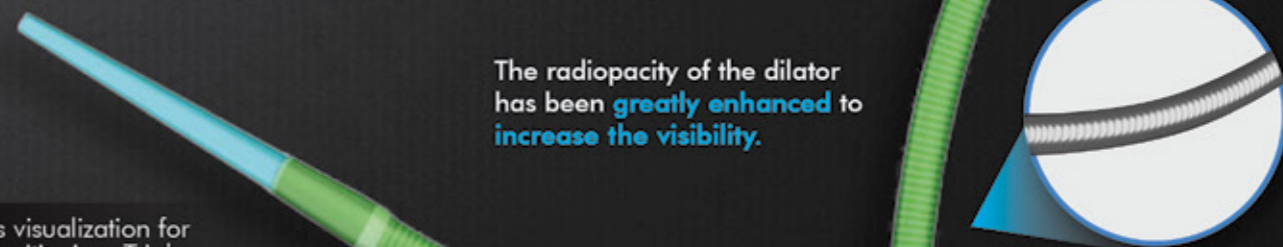
- Highly flexible
- Kink Resistance
- It incorporates a radiopaque marker located approximately 5mm proximal to the tip.
- Atraumatic tip
- Hydrophilically coated.

Jaguar

CATHETER LONG SHEATH

- Maintains shape and positioning: Outstanding durability, even in the longest procedures
- Resists kinking: Stainless steel coil for consistent reliability
- Allows easy penetration and smooth transition.
- Atraumatic tip: Minimizes potential for vessel damage
- Smooth transitions: Guidewire-to-dilator-to sheath
- Provides lesion access: Exceptional trackability, even in the most challenging anatomy

ALLOWS for
SIMULTANEOUS MOTION
of BOTH DILATOR
and SHEATH

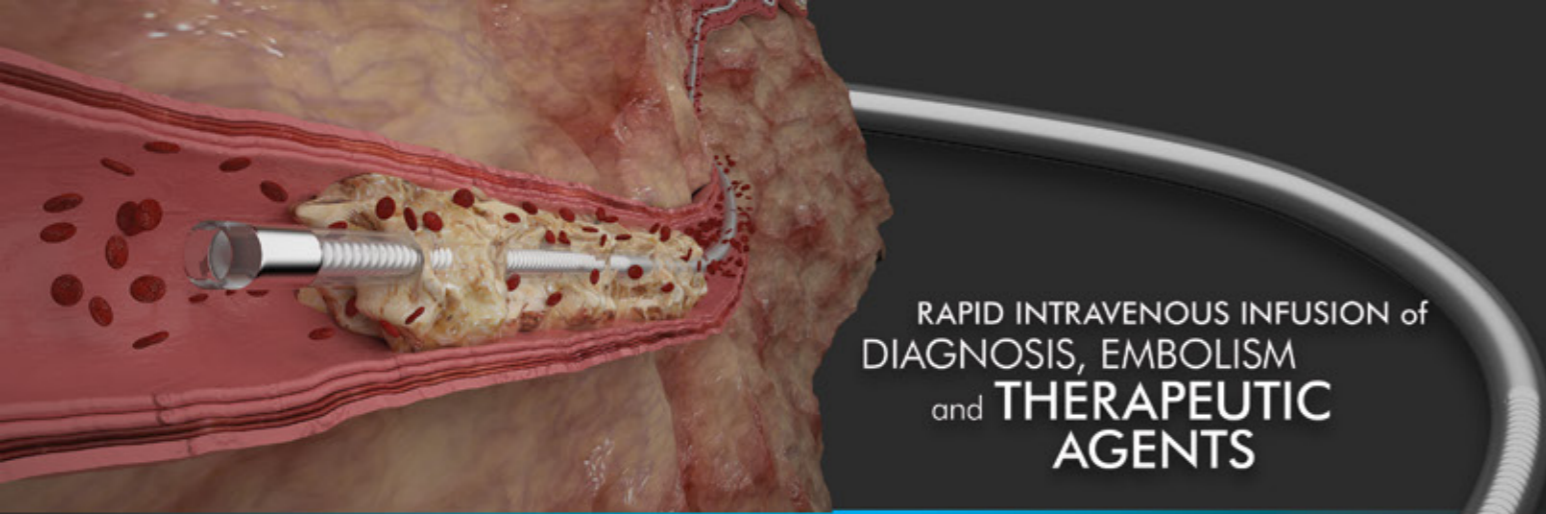


The radiopacity of the dilator has been greatly enhanced to increase the visibility.

Radiopaque
Coil Design

- Enhances visualization for precise positioning: Triple radiopacity (sheath, dilator and coil marker)
- Provides smooth movement: Coil reinforced tubing and PTFE inner layer that minimizes friction
- Shapes and sizes to meet your peripheral challenges

Design	SS Spiral Coil Design
Catheter Length	45 cm, 65 cm, 90 cm, 110 cm
Catheter Profile	4F-5F-6F-7F-8F-9F-10F
Radiopaque Markers	PT-IR
Hydrophilic	Polymer Jacket
Coating	Hydrophilic
Tip Crossing Profile	Angled, Straight



RAPID INTRAVENOUS INFUSION of
DIAGNOSIS, EMBOLISM
and THERAPEUTIC
AGENTS

Dolphin^{XC}

CROSS OVER SUPPORT CATHETER

Dolphin^{XC} Crossing Catheter is used with steerable guidewires to access veins and arteries not in the chest or abdomen. It may be used to assist with the placement and exchange of guidewires and other interventional devices and administer drugs or fluids into blood vessels.

- Polymer Jacket
- Polymeric Liner
- Marker
- Tip Tube Micro-coil

Dolphin^{XC} is intended for use in small vessel or superselective anatomy for diagnostic and interventional procedures, including peripheral use.

Dolphin^{XC} with hydrophilic coating is a braided, kink-resistant catheter designed to facilitate wire guide exchange, infusion, and wire guide support.

Design	SS Spiral Micro-Coil Design
Guidewire Compatibility	0,014"
Catheter Length	65 cm, 90 cm, 135 cm, 150 cm
Catheter Profile	2F, 3F, 4F, 5F, 6F
Radiopaque Markers	PT-IR
Coating Zone	40 cm
Crossing Profile	0,66mm 2F

EXCEPTIONAL PUSHABILITY

- Stainless steel design provides additional strength for exceptional pushability
- Spiral micro-coil design with smooth flexible transition allows for optimal force transfer and trackability
- Proprietary hydrophilic coating on distal 40 cm allows for smooth tracking through challenging vasculature.

Dolphin^{XR}

SUB INTIMAL SUPPORT CATHETER

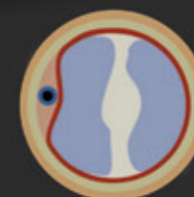
EASY & FAST
PASSAGE IN
NON-PERMEABLE
VESSEL SEGMENTS

Pivot^{XR} Re-entry Catheter System, designed for intuitive true lumen re-entry from subintimal space of the artery, is the best graceful dual-component solution for challenging lesions that creating a path for the Micro-Catheter to re-enter the vessel with precision and ease.

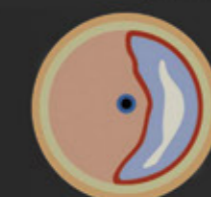
Dolphin^{XR} Re-entry Catheter enter true lumen from subintimal space when combined with a guidewire in chronic total occlusions. The integrated re-entry system can be used to access and bypass lesions above or below the knee.

Re-entry Catheter System provides an operating channel for angioplasty and stent placement within the sub intimal space of the vessel wall

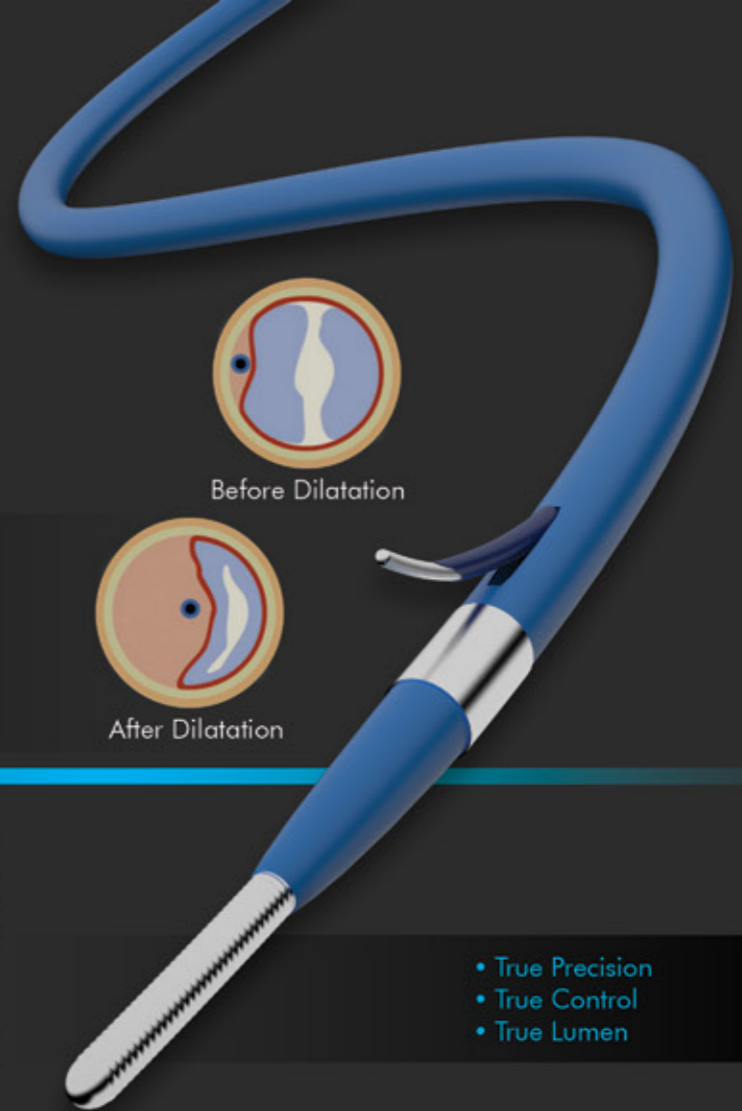
Radiopaque Marker	Radiopaque marker (at 5 mm from the distal tip of the sheath)
Catheter Inner Layer	PTFE polytetrafluoroethylene
Structure of the Catheter	PE/PEBAX
Catheter Diameter	3F, 4F, 5F, 6F
Length	90 cm, 150 cm
Sheath Compatibility	5F, 6F
Guidewire	<0,018"
Average Usage Time (min)	8
Average Total Fluoroscopy Time (min)	17
Device Technical Success Defined as Placement of a Guidewire in the True Lumen Distal to a CTO as Confirmed by the Angiography Core Lab	Technical success: 95%



Before Dilatation

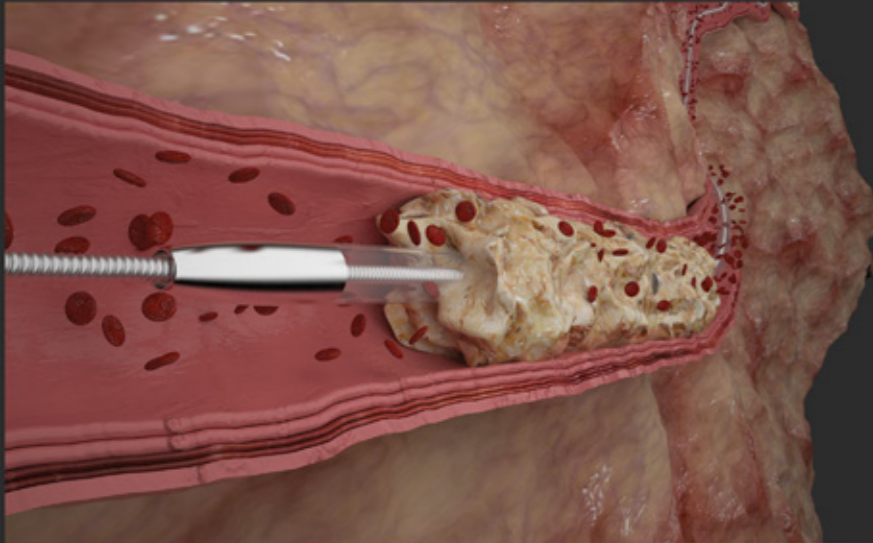


After Dilatation



- True Precision
- True Control
- True Lumen

- Braided catheter shaft provides effective torque control it provides easy and quick positioning to the target re-entry area.
- OTW 0.014 "and 0.018" guide wire compatibility Minimizes guide wire exchange with flexibility structure
- Ergonomic construction for perfect control
- Fluoroscopy adjustment of traditional guidewire techniques helps reduce the time of adjustment



- ✓ High bending resistance with excellent torque control
- ✓ Optimum push through from proximal shaft to distal end
- ✓ Small Pass Profile and Tapered Tip
- ✓ Provides continuous guide wire-catheter passage for high support and successful lesion passage.
- ✓ Powerful next-generation distal tip for superior thrust, with an ultra-low lesion entry profile,
- ✓ Three radiopaque markers, it is designed for perfect crossover, giving you every advantage in combating challenging lesions.

Dolphin^{XS}

DIRECTIONAL SUPPORT CATHETER

Dolphin^{XS} Support Catheter is used to switch from Occlusion to true lumen. It is dedicated to reaching and overcoming complex lesions of the difficult anatomy during femoro-popliteal and below-knee interventions.

EASY & FAST
PASSAGE IN
**NON-PERMEABLE
VESSEL SEGMENTS**

- Ultra low 0.018" lesion entry profile
- Increases lesion access and entry
- Delivered and replaced with 0.014" guide wires
- Hydrophilic M Coat™ 40 cm Distally
- Ensures best-in-class trackability in challenging anatomy and provides best-in-class traceability and excellent crossability of complex lesions in challenging anatomy.
- Provides improved delivery and access to distal lesions and complex and small vessels.

Guidewire Compability	0.014", 0.018", 0.035"
Radiopaque Marker	Silver special tip design and 2 Radiopaque marker at 40 mm from the distal tip of the sheath
Catheter Inner Layer	PTFE polytetrafluoroethylene
Catheter Length	90-135cm
Structure of the Catheter	PE/PEBAX
Catheter Diameter	4F, 5F, 6F, 7F, 8F, 9F

Guide^X

ACCESS DISCRETE REGIONS

Guide^X Catheter is intended to be used in conjunction with guide catheters to access discrete regions of the coronary and/or peripheral vasculature, and to facilitate placement of interventional devices.

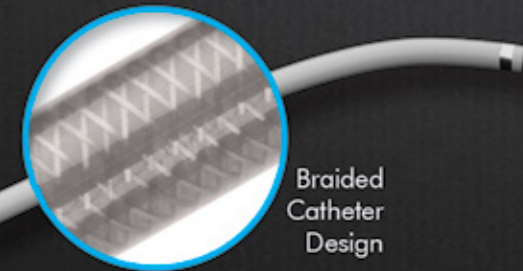
TO ACCESS
**DISCRETE REGIONS
OF THE CORONARY AND/OR
PERIPHERAL
VASCULATURE**

HYDROPHILIC COATING DISTAL
Increases trackability through tortuous anatomy

FLEXIBLE DISTAL REGION
Design for atraumatic vessel entry

BRAIDING TIP
Braiding distal tip provides excellent pushability, trackability and kink recovery when crossing small tortuous vessels.

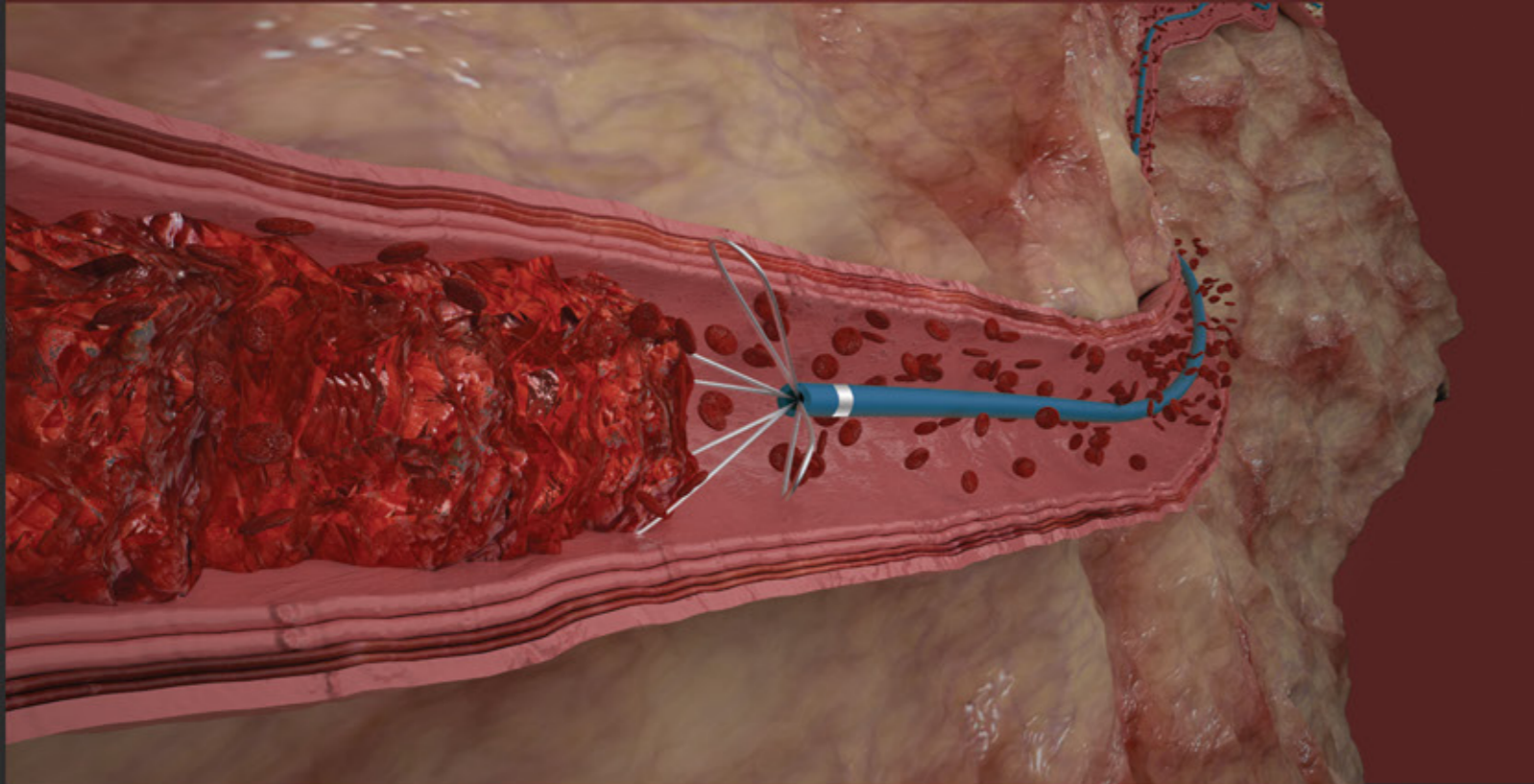
Guide^X Guide Extension Catheter creates a smooth pathway for balloon and/or stent delivery by providing greater flexibility and a smooth surface. This is important with complex lesions, calcium, tortuous vessels, and distal lesions.



Braided Catheter Design

Sizes	6F, 7F, 8F
Guide Segment	25 cm on 6F, 7F, 8F
Working Length	150 cm
Collar	Stainless Steel
Coating	Hydrophilic
Radiopaque	Distal Marker Band Radiopaque Collar

By supporting the delivery of the interventional devices that are necessary to complete the procedure, **Guide^X** Extension Catheter can benefit the patient and hospital by turning an unsuccessful PCI into a successful PCI.



AngioHAND

THROMBUS REMOVAL SYSTEM

The catheter is designed for and proven to resolve small, fresh thrombus in arterial and peripheral veins.

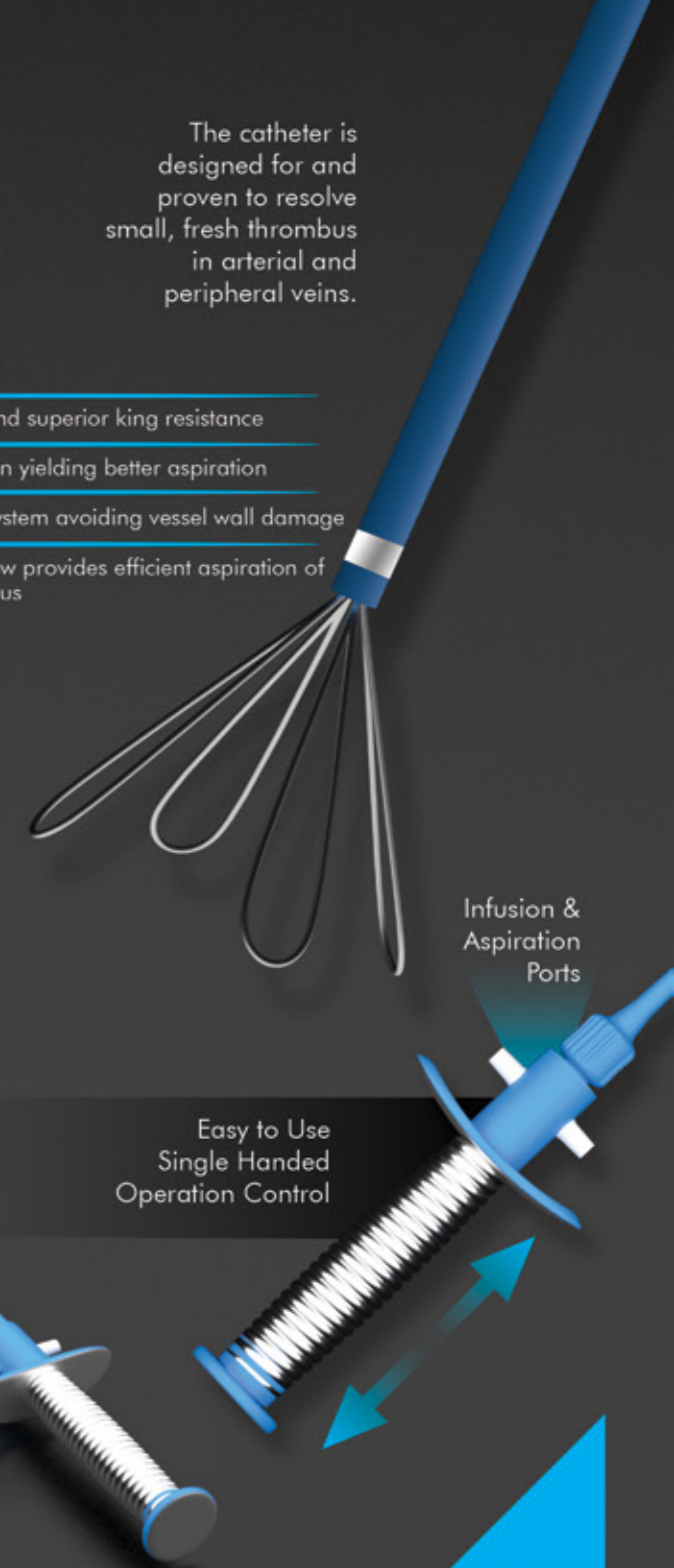
Advantages

- ✓ Optimized tip design
- ✓ Powerful aspiration and superior kink resistance
- ✓ Large extraction lumen yielding better aspiration
- ✓ Over the guidewire system avoiding vessel wall damage
- ✓ Side aspiration window provides efficient aspiration of wall adherent thrombus

Thanks to nitinol's special material properties, the flexible handles loop re-assumes its original shape after exiting the catheter. The **AngioHAND** has a different diameter with a variable snare cross section on its position when it is pushed out of the introducer.

Designed to remove thrombus from the vasculature using special design handles tip and continuous aspiration.

It targets aspiration from the pump directly to the thrombus. The handles could be used to clear the lumen of the vessel should it become blocked with thrombus.



Easy to Use
Single Handed
Operation Control

Advantages

- ✓ For the removal of fresh, soft emboli and thrombus from vessels in the coronary and peripheral vasculature.
- ✓ **AngioHAND** is a fully-integrated system designed specifically for mechanical thrombectomy by aspiration.
- ✓ Includes special four loop handles design catch system for thrombus with aspiration catheter and delivers high vacuum with Invamed Aspiration Pump.
- ✓ **AngioHAND** System is engineered to maximise aspiration power for clot removal.

DESIGNED AND PROVEN TO RESOLVE SMALL, FRESH THROMBUS IN ARTERIAL AND PERIPHERAL VEINS

Catheter diameter	3F, 4F, 5F, 6F, 7F, 8F, 9F, 10F
Catheter Length	90 cm, 120 cm, 150 cm
Useable Introducer Sheath	3F, 4F, 5F, 6F, 7F, 8F, 9F, 10F
Diameter of effect area:	3mm- 30 mm
Side Port	Infusion/Aspiration

AngioHAND System is a Mechanical Thrombectomy catheter that is intended for use with our Continuous Aspiration Machine. The **AngioHAND** System is indicated to aid in the removal of clot from the body.

AngioHAND System is indicated for use in the revascularization of patients with pulmonary embolism and deep vein thrombosis.

SELF CENTERING



PROTECTION SYSTEM DEVELOPED FOR TEMPORARY PERCUTANEOUS TRANSLUMINAL FILTRATION SYSTEM

The **EmboGUARD** Embolic Protection System is a temporary percutaneous transluminal filtration system designed to be used as a guide wire and to capture embolic material released during an angioplasty and stent procedure within a saphenous vein bypass graft or a carotid artery.

EMBOLIC PROTECTION SYSTEM

EmboGUARD device is the only embolic protection device that can be delivered through any 0.035" catheter.

Design	Nitinol Innovative Design
Length	150, 180cm
Filter Diameter	4, 5, 6, 7, 8mm
Recommended Vessel Diameter	3-8mm
Usable Diameter	0.014", 0.018"

EmboGUARD

EMBOLIC PROTECTION

The System Consists of the Following Components
Over the wire distal protection system is used to seize embolic material during performance of angioplasty procedure on carotid artery and during stent implementation in carotid arteries.

EXCELLENT PUSHABILITY

EmboGUARD device is used to capture and remove debris that becomes dislodged during an interventional procedure.

NITINOL SHAPE-MEMORY
VISIBLE UNDER
X-RAY RADIATION.

Advantages

- ✓ 100% Retrievable
- ✓ Self – Centering
- ✓ Innovative Design
- ✓ No securement Hooks
- ✓ Minimized risk of fracture
- ✓ No risk Migration
- ✓ Maintains shape and positioning: Outstanding durability, even in the longest procedures
- ✓ Allows easy penetration and smooth transition.
- ✓ Provides lesion access: Exceptional trackability, even in the most challenging anatomy
- ✓ Enhances visualization for precise positioning
- ✓ Provides smooth movement: Coil reinforced tubing and PTFE inner layer that minimizes friction

ESPECIALLY DESIGNED TO MEET
THE HIGH REQUIREMENTS
DURING EXTRACTION

Keeper

RETRIVER SNARE KIT

Keeper Retrieval Technology is your first choice safety device when it comes to successful retrieval.

High degree of vessel coverage within a wide range of vessel sizes 5mm to 35mm, and is available in lengths of 65, 125, and 150 cm. With extra high pulling forces of up to 5.5kg.

Have been especially designed to meet the high requirements during extraction.

Keeper Retrieval Technology is your first choice safety device when it comes to successful retrieval.

Keeper retrieval device allows simplified retrieval of foreign bodies like lost catheters, guidewires, stents, as well as coil manipulation Vena Cava Filter retrieval in small to extra large vessels.

Advantages

- ✓ Keeper is a real emergency tool for every Interventional Radiologist
- ✓ Atraumatic Nitinol loop
- ✓ Ultimately save valuable time
- ✓ Avoid unnecessary X-Ray exposure
- ✓ Avoid major open surgery procedures
- ✓ Open loop nitinol wire
- ✓ Design with extra high pulling forces
- ✓ 1:1 torque capabilities
- ✓ Small size introducer sheath 4F & 5F,
- ✓ High visibility
- ✓ Excellent kink-resistant
- ✓ Over-the-wire 0,018", 0,035"
- ✓ Enhancing stability and trackability
- ✓ Real 3-dimensional retrieval
- ✓ Radiopaque platinum inner Marker Ring ensures near

for Large Vessels

Diameter	5, 10, 15, 20, 25, 30, 35
Vessels	3-5 mm, 6-10mm, 11-15mm, 16-20mm, 21-25mm, 26-30mm, 31-35mm
Length	120
Introducer Sheath	4F, 5F
Catheter	110 cm
Guidewire Compatibility	0.035"

for Small Vessels

Diameter	2, 4, 7, 20, 25, 30, 35
Vessels	1-2 mm, 3-4mm, 5-7mm
Length	175
Introducer Sheath	2.3F, 3F
Catheter	150 cm
Guidewire Compatibility	0.018"

The high upstanding force plus a 1:1 torque and loop diameters ranging from 5 to 35 mm together with a pre-shaped and shapeable delivery sheath catheter of 4 and 5F makes it the emergency device of choice.

4-9F WIDE ASPIRATION LUMEN



WaterJET THROMBUS MANAGEMENT

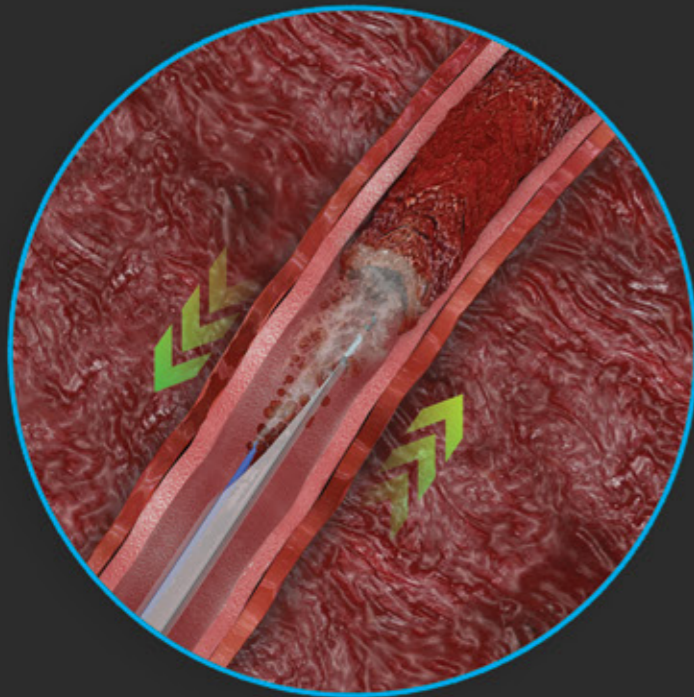
- Allows easy penetration and smooth transition.
- Provides lesion access: Exceptional trackability, even in the most challenging anatomy
- Shapes and sizes to meet your peripheral challenges

WaterJET can move towards to thrombus with precise jet directed to the front of the aspiration lumen. Continuous aspiration retrieves fractured lesions into a collection bag. Precise Jet effects hard lesions while preserving soft vessel tissue

Move Beyond Standart Thrombus Management Treatments

WaterJET Thrombectomy System is designed for fragmentation and removal of thrombus from peripheral blood vessels.

It includes a high-pressure jet of sterile saline solution directed in front of a powerful aspiration.



Dominate Thrombus Management

OTW 0.014" RAPID EXCHANGE LUMEN

Advantages

- ✓ Vessels < 1.8 mm in diameter as for ELT6FGC,
- ✓ < 2.05 mm in diameter as for ELT7FGC, and
- ✓ < 2.2 mm in diameter as for ELT8FGC
- ✓ Innovative Design
- ✓ No securement Hooks
- ✓ Minimized risk of fracture
- ✓ No risk Migration

ADJUSTABLE ASPIRATION & JET SPEED

Design	RX Design
Sheath Length	135 cm, 150 cm
Catheter Profile	5F- 6F -7F
Hydrophilic Aspiration Part	5 cm
Radiopacity	Ring marker from distal tip to 3mm
Guidewire Compatible	0,014"
Catheter Inner Layer	PTFE
Structure of the Catheter	PE/PEBAX

Viper^{Ultra}sonic

INFUSION THERAPY

ALLOWS SAFE ACCESS

Viper Thrombolysis Catheter is designed for controlled ultrasonic infusion therapy of tPA along with mechanical US vibrations.

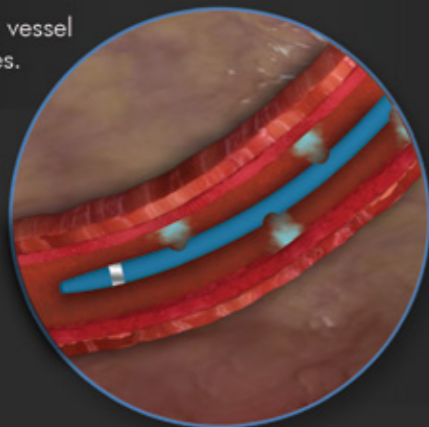
It increases the effects of tPA by thinning the fibrin and increasing porosity.

tPA can be pushed deeper inside the thrombus, increasing the drugs effectivity.

Over the guide wire system and 90, 135, 150 and 200 cm catheter lenght.

Allows safe acces to the clotted target vessel including pulmonary artery in PE cases.

- ✓ Peripheral Veins
- ✓ Pulmonary Artery
- ✓ IVC



- The lumen is used to facilitate passage of a guide wire which is allow 0,035" (0,36 mm) in diameter.
- Viper Ultrasonic Infusion Therapy, also can be use Vein / Pulmonary Artery.
- During the application of tPa , pharmacomechanical thrombolytic therapy is performed with the help of these micropores in the contents of the catheters.
- Totally includes 30 micropores (10 micron) both side at the distal tip of 20 cm.

4F-10F

90-150cm

Model Diameter	5F	6F	7F
Vessel Diameter (mm)	2.0-4.0	3.0-7.0	3.5-7.0
Pores (Pcs)	20, 30, 40	20, 30, 40	20, 30, 40
Sheath Compatibility (Fr)	5	6	7
Crossing Profile (mm)	90,135,150	90,135,	150 90,110,135,150
Guidewire Compatibility	0,014"	0,014"	0,014"-0,018"
Catheter Inner Layer	PTFE	PTFE	PTFE
Structure of the Catheter	PE/PEBAX	PE/PEBAX	PE/PEBAX

Viper

INFUSION THERAPY

ALLOWS SAFE ACCESS

Viper Thrombolysis Catheter is designed for controlled infusion therapy of tPA along with mechanical vibrations.

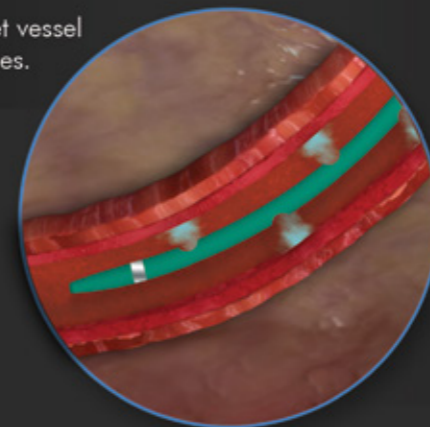
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Sheath Compatibility (Fr)	5	6	7
Crossing Profile (mm)	90,135,150	90,135,	150 90,110,135,150
Guidewire Compatibility	0,014"	0,014"	0,014"-0,018"
Catheter Inner Layer	PTFE	PTFE	PTFE
Structure of the Catheter	PE/PEBAX	PE/PEBAX	PE/PEBAX

Filler

NON-ADHESIVE

Filler is non-adhesive liquid embolic agent comprised of n butyl polymer dissolved in DMSO.

Embolization of lesions in the peripheral and neurovasculature, including arteriovenous malformations and hypervascular tumors.

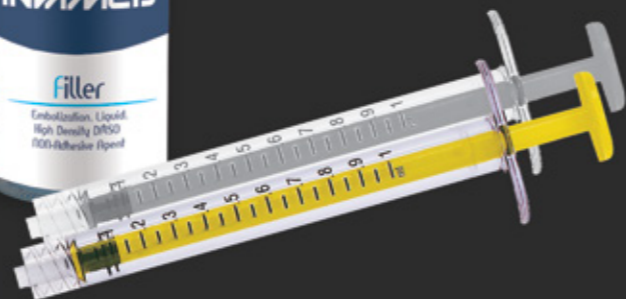
Filler is non-adhesive, the micro catheter can be left in place while slow, controlled injections are performed. Post embolization angiography can be conducted with the delivery micro catheter in place, enabling the physician to make additional injections through the same micro catheter, if necessary.

Filler is delivered through a micro catheter into the AVM under fluoroscopic control. The DMSO solvent dissipates into the blood and interstitial fluids.

- Neuro Aneurysms and AVM's
- Abdominal Aneurysms, Endoleaks
- Neurovascular & Peripheral Aneurysms and AVM's
- Short procedure time.
- Mix with lipiodol (1:1) for radiopacity



ONE
CHOICE
FOR MULTIPLE
ANEURYSMS

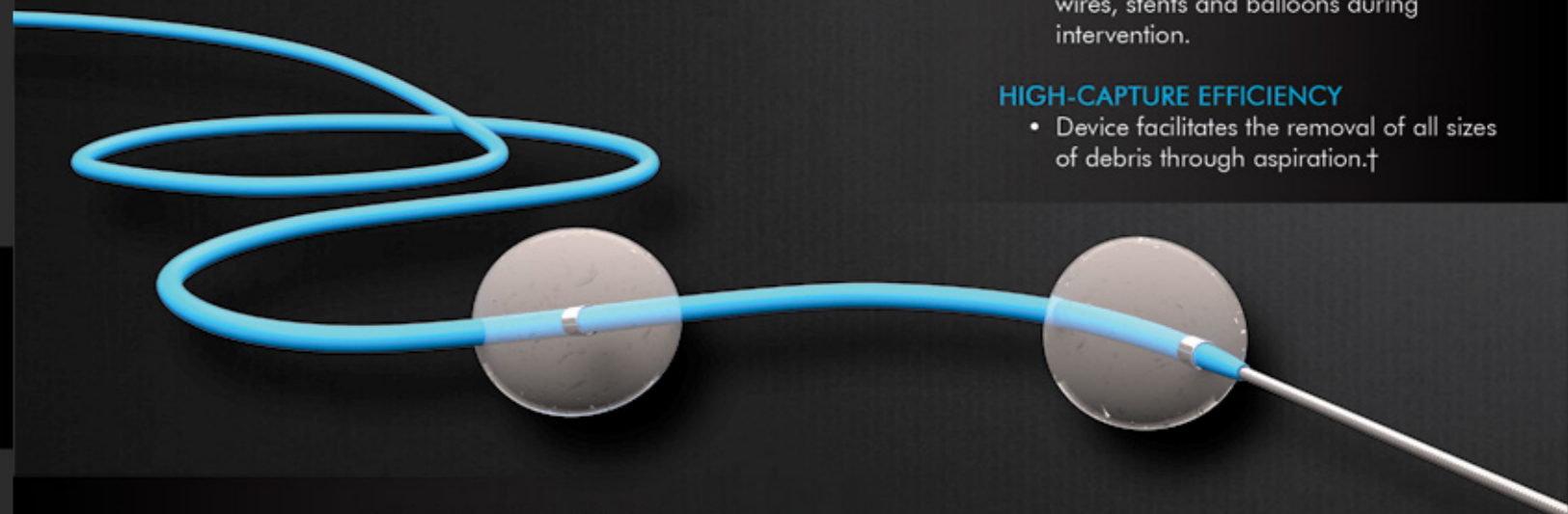


EmboGUARD BALLOON

EMBOLIC PROTECTION

Advantages

- ✓ Utilizes highly compliant
- ✓ Provides excellent trackability
- ✓ Support and stability for ease of lesion crossing



WORKING CHANNEL EXIT PORT DISTAL TO CCA BALLOON

- Provides lesion access and effective, efficient aspiration of debris.

RADIOPAQUE MARKERS

- Markers are centrally located in each balloon for precise positioning and orientation.

OPTIMAL DEVICE SELECTION

- Device allows for selection of preferred wires, stents and balloons during intervention.

HIGH-CAPTURE EFFICIENCY

- Device facilitates the removal of all sizes of debris through aspiration.†

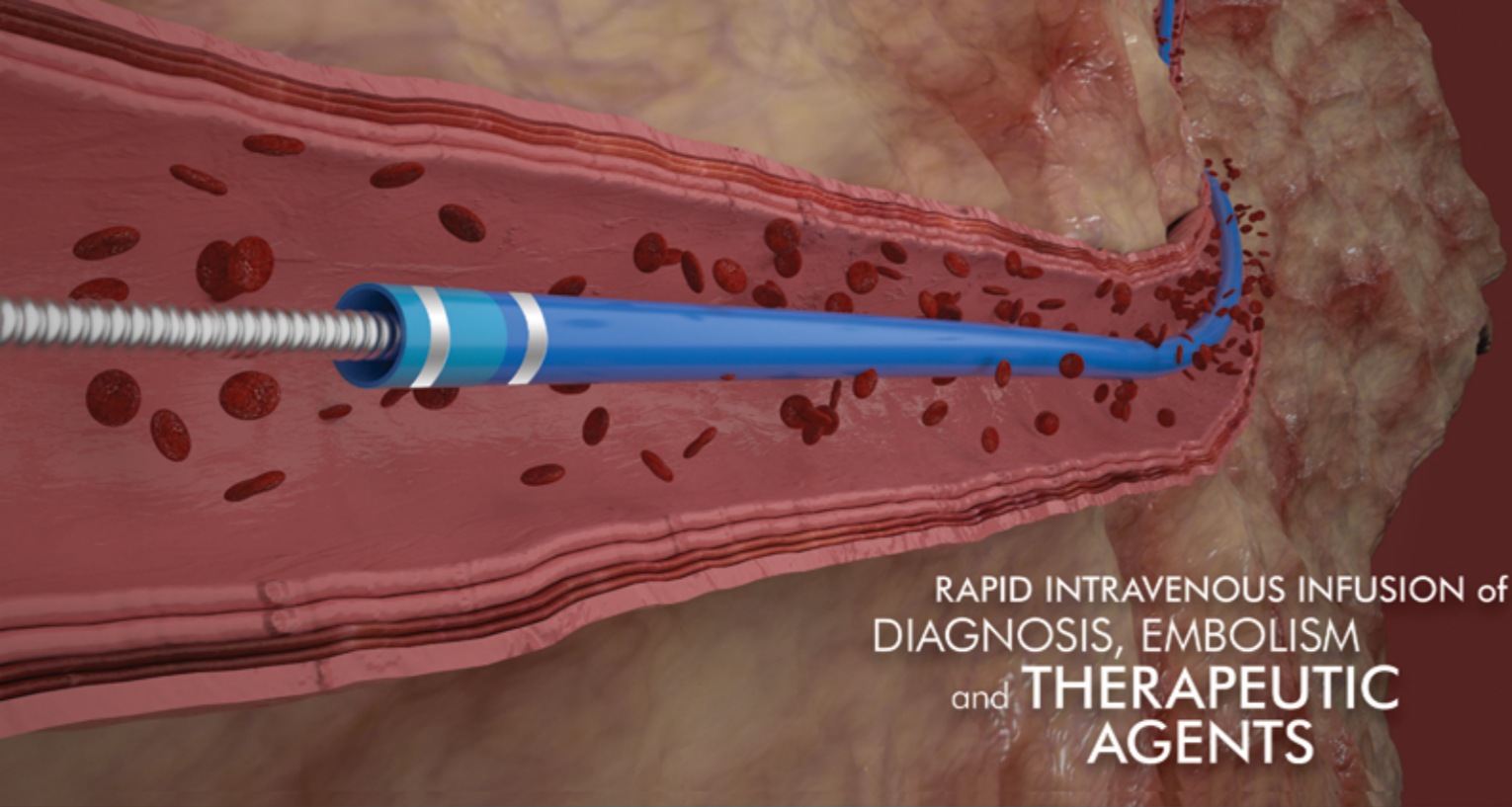
DEVELOPED FOR EMBOLIC PROTECTION SYSTEM

EmboGUARD embolic protection device to contain and remove all sizes of thrombus performing angioplasty and stenting procedures involving lesions of the internal artery and ven bifurcation.

Device include with double-occlusion balloon system allows for embolic protection to be established prior to crossing a carotid lesion.

Double occlusion elastomeric balloons that provide atraumatic flow suspension and stability.

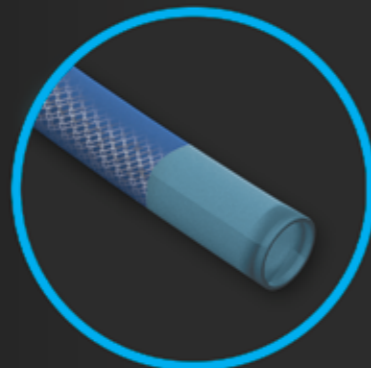
Balloon material	Compliant elastomeric rubber
Balloon marker distance	6 cm
Recommended guidewire	0.035" (0.89 mm)
Balloon occlusion range	5-13 mm diameter (CCA prox. balloon) 3-6 mm diameter (ECA dist. balloon)



RAPID INTRAVENOUS INFUSION of
DIAGNOSIS, EMBOLISM
and THERAPEUTIC
AGENTS

Advantages

- ✓ Excellent kink resistance and Proximal pushability with Stainless steel coil design shaft
- ✓ Dedicated tip design with radiopaque marker
- ✓ Excellent crossability
- ✓ Ensures reliable fluoroscopic visibility
- ✓ Optimized tip design
- ✓ High compressive strength
- ✓ Low profile
- ✓ DMSO compatibility
- ✓ Embolizing agent compliance
- ✓ Over the guidewire (0.014") system avoiding vessel w



Pars offers the user the lowest available tip profile while providing unmatched burst and tensile strength, making it the ideal catheter for the treatment of AVMs.

Pars Embolization Catheter is the peripheral intervention that use for the controlled selective infusion of physician-specified therapeutic agents such as embolization materials and of diagnostic materials such as contrast media to treat vascular diseases of the brain.

Pars Embolisation Catheter is a single-lumen, endhole catheter designed for the subselective infusion of physician-specified therapeutic agents such as embolization materials and diagnostic materials such as contrast media in tortuous, distal vessels.

Pars PERIPHERAL

EMBOLIZATION CATHETER

PERIPHERAL INTERVENTION
THAT USE FOR THE CONTROLLED
SELECTIVE INFUSION

The catheter has a semi-rigid proximal shaft and a highly flexible distal shaft to facilitate the advancement of the catheter in the anatomy.

The proximal end of the catheter incorporates a standard luer adapter which is compatible with **DMSO** to facilitate the attachment of accessories.

The catheter has a radiopaque marker at the distal end to facilitate fluoroscopic visualization.

The outer surfaces of the catheter are coated to increase lubricity.

Compatible Embolizing Agents

- NBCA
- Ethanol
- Lipiodol
- Microspheres
- PVA Particles
- Chemoembolization Agents
- Contrast media

PERIPHERAL EMBOLIZATION

Usable length	90 cm, 150 cm
Tip Shape	Straight tip
Catheter Profile Proximal	2.5F, 2.7F, 3.0F
Catheter Profile Distal	1.3F, 1.5F, 1.8F
Radiopaque Marker	1 mm located at 2 mm from the tip
Guidewire Compatibility	Maximum diameter 0.014"
Coating	Hydrophilic
Structure of the Catheter	PE/PEBAX

The catheter is used to increase the rigidity of the distal section during introduction into the guiding catheter.

Pars is the micro catheter with a strong resistance to pressure and total DMSO compatibility.

The catheters are the only real flow dependant catheters, meaning that their progression through the system is facilitated by the blood flow. This characteristic is achieved thanks to an extreme suppleness of the tubes which allows a fast and non traumatic progression of the catheter inside the blood vessels.

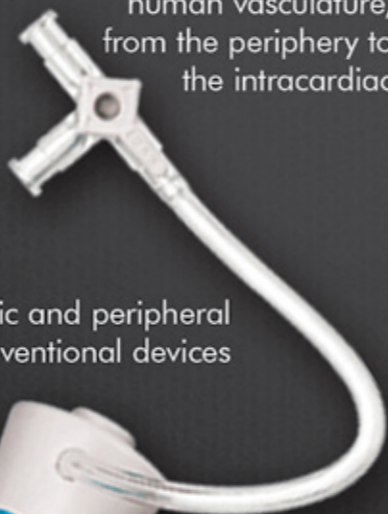
SteerCATH

CORONARY & PERIPHERAL

Accurately Mentor
Your Next Treatment

Quickly Access
Indicated Anatomy
with the Steerable
Catheter

SteerCATH improves
access to
hard-to-reach sites
with wide variety of
applications within the
human vasculature,
from the periphery to
the intracardiac



Use with aortic and peripheral
interventional devices

- Eliminates need to change directive to reach desired position
- Conformability
- Curve retention
- Radiopaque tip
- Hydrophobic coated
- Up to 180 degree Control
- Precise deflection using the self-locking rotating knob allows you to maintain control of the full procedure
- Adjustable Tip Deflection
- Make certain kink resistance
- Torque control

Inner Diameter	6.5F / 7F / 8.5F
Usable Length	45, 55, 90cm
Deflection Length	9, 17, 22mm

AngioCATH

GUIDING CATHETER

Advantages

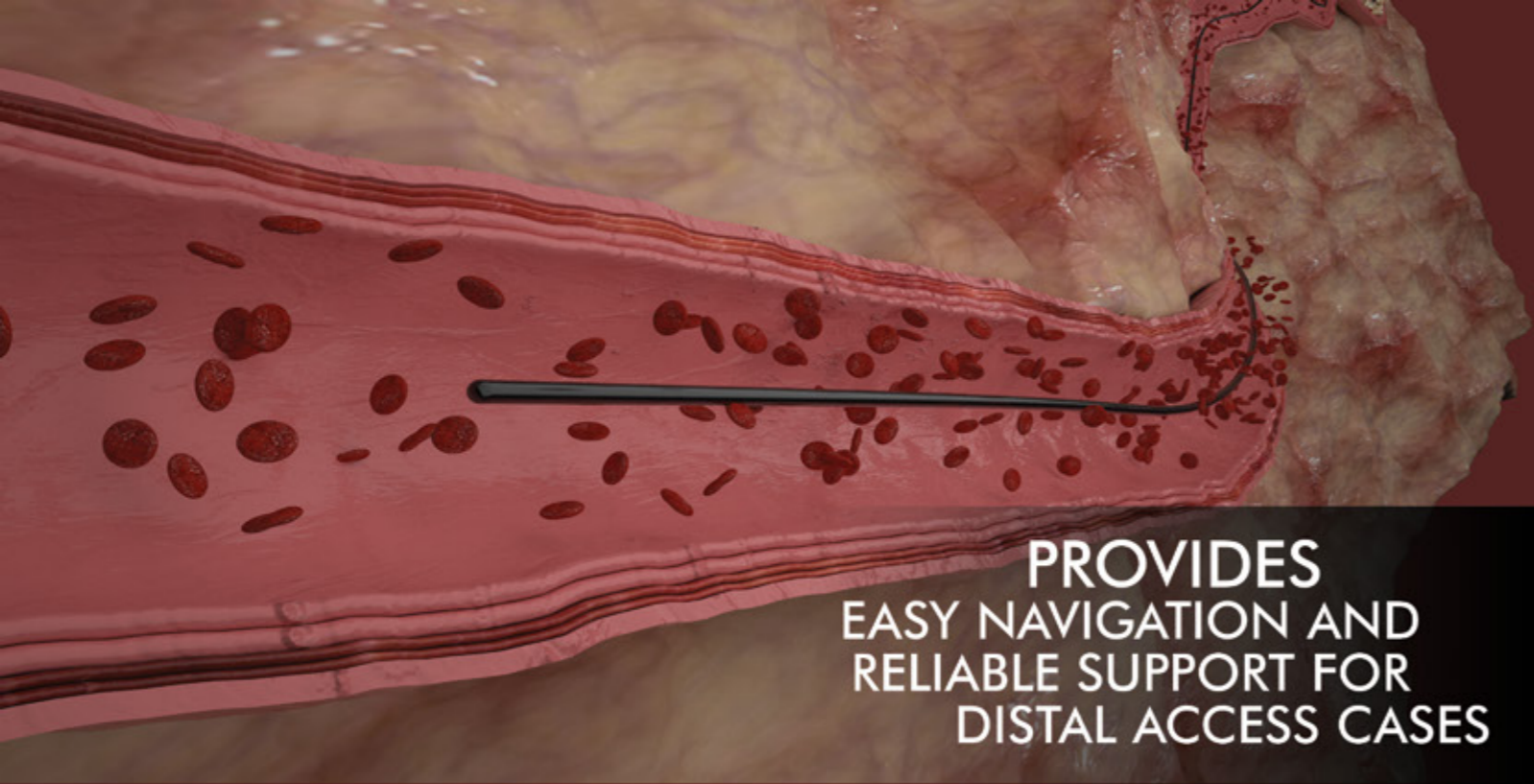
- ✓ Workhorse construction suitable for various anatomies
- ✓ Flexible distal segment enables you to engage for backup support
- ✓ Supportive secondary curve for backup support and curve retention
- ✓ Thinner walls without compromising support
- ✓ Larger lumens to maximize contrast flow for enhanced visualization
- ✓ Radiopaque marker and PTFE-nylon shaft

AngioCATH is intended for
use for intravascular
introduction of
interventional/diagnostic
devices into the coronary or
peripheral vascular systems

High flexibility, support and
visualization, the capability
you need to respond to your
challenging cases.

Catheter Material	PEBAX/PA
Catheter Outer Diameter	4F, 5F, 6F, 7F, 8F, 9F, 10F
Catheter Inner Diameter	0,043", 0,058", 0,071", 0,081", 0,090", 0,108", 0,117"
Catheter Length	90 cm
Tip Style	Straight, Left, Right
Coating	PTFE

THINNER WALLS
without
COMPROMISING
SUPPORT



**PROVIDES
EASY NAVIGATION AND
RELIABLE SUPPORT FOR
DISTAL ACCESS CASES**

InWIRE Guide WIRE
HYDROPHILIC

Guidewire Material	Nitinol
Guidewire Diameter	0.018", 0.032", 0.035", 0.038"
Guidewire Length	150 cm, 180 cm, 260cm, 290 cm
Core Material	Super Elastic Nitinol Core
Covers	Polymer Cover
Coating	Full Hydrophilic
Tip Style	Straight, Angled, Long Taper
Shaft	Standart, Stiff

Designed to direct a catheter to the desired anatomical location during diagnostic or interventional procedures.

Excellent Torque Control

Nitinol wire and elastic hydrophilic polymer coating, integrated design allow a 1:1 torque response to deliver the guidewire into the target vessel quickly.

Durable and Lubricant Performance

Hydrophilic coating offers a durable and smooth approach in tortuous vessels. Extra visualization

Small Pass Profile and Tapered Tip

Provides continuous guide wire-catheter passage for high support and successful lesion passage.



**EXCELLENT
STEERING
AND
TRACKING**

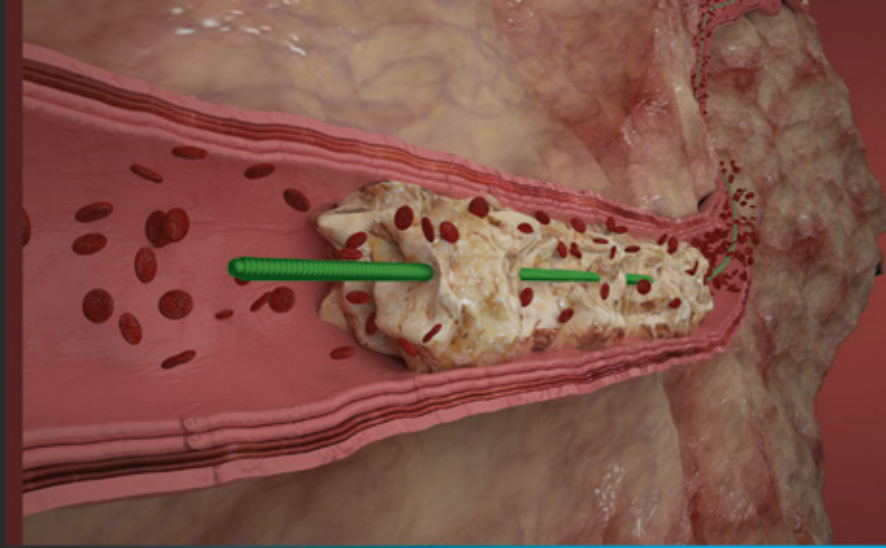
High bending resistance with excellent torque control and optimum push through from proximal shaft to distal end

- Good flexibility
- Excellent steering and tracking
- Easy steerability
- Straight, configurable tip structure
- Hydrophilic polymer coating provide lubricity
- Radio-opaque tip
- Torque capability
- Straight - angled and tapered tip

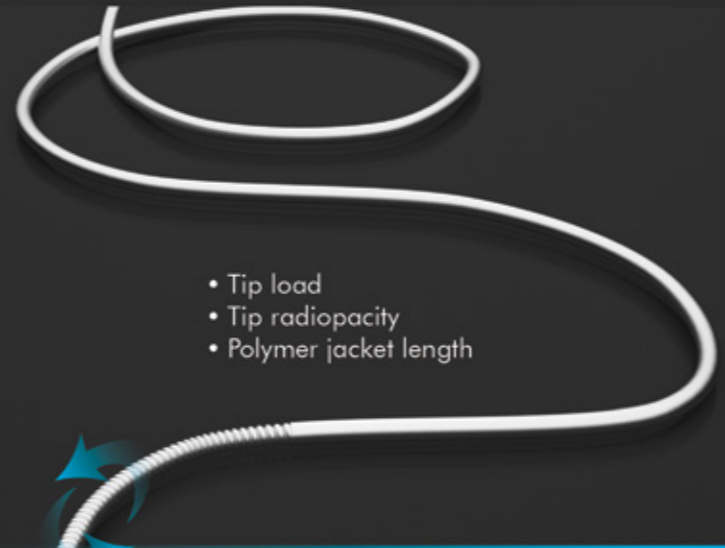
Hydrophilic Coating

Elastic Radioopaque Tip

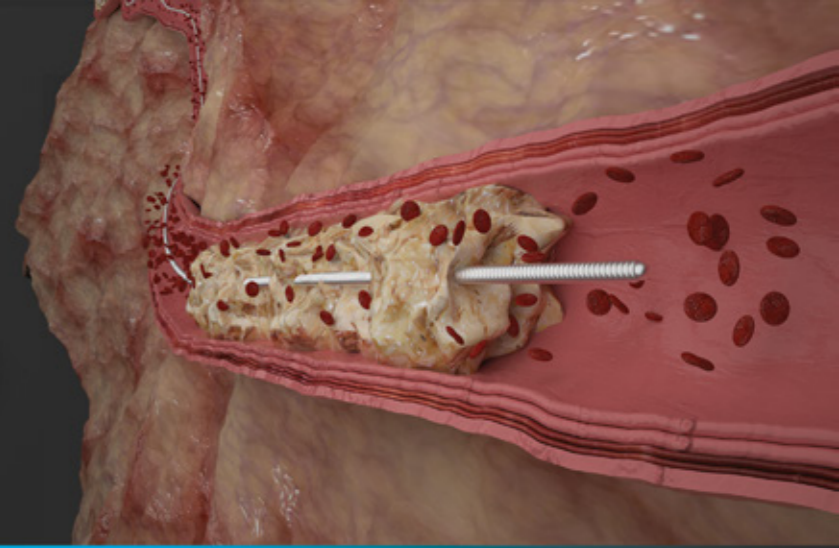
PTFE Coated Nitinol Core Structure



**PROVIDES
EASY NAVIGATION AND
RELIABLE SUPPORT FOR
DISTAL ACCESS CASES**

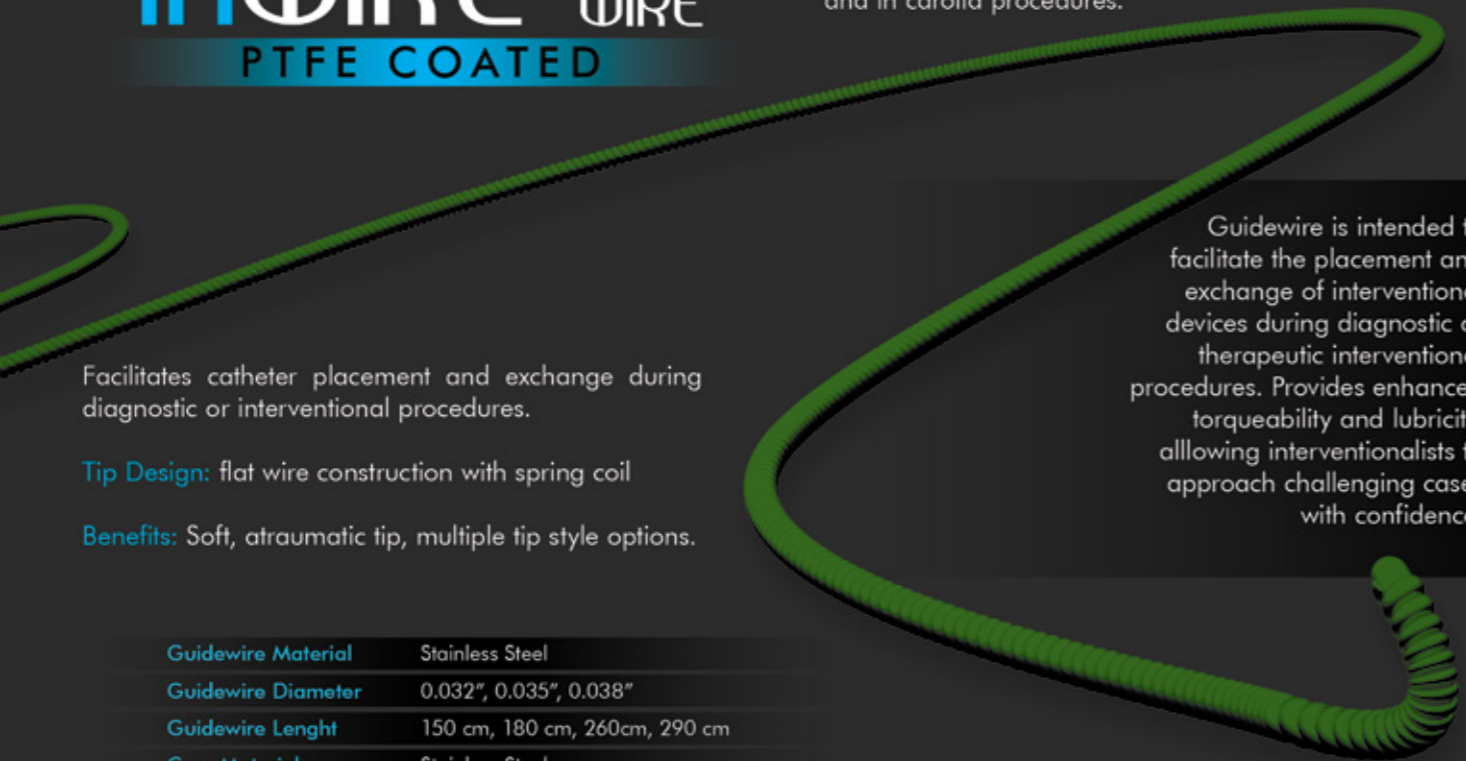


- Tip load
- Tip radiopacity
- Polymer jacket length



InWIRE Guide WIRE
PTFE COATED

Provides extra strength and stability during catheter placement and exchange during contralateral access and in carotid procedures.



Facilitates catheter placement and exchange during diagnostic or interventional procedures.

Tip Design: flat wire construction with spring coil

Benefits: Soft, atraumatic tip, multiple tip style options.

Guidewire is intended to facilitate the placement and exchange of interventional devices during diagnostic or therapeutic interventional procedures. Provides enhanced torqueability and lubricity, allowing interventionalists to approach challenging cases with confidence.

**PROVIDES
EXTRA STRENGTH
AND STABILITY**

Guidewire Material	Stainless Steel
Guidewire Diameter	0.032", 0.035", 0.038"
Guidewire Length	150 cm, 180 cm, 260cm, 290 cm
Core Material	Stainless Steel
Covers	PTFE Coated
Tip Style	Straight, Angled
Shaft	Standart, Stiff

InWIRE Guide WIRE
CRONIC TORAL OCLUSSION

- More durable than regular stainless steel
- Retains shape
- Good flexibility
- Excellent steering and tracking
- Easy steerability
- Straight, configurable tip structure
- Hydrophilic polymer coating provide lubricity
- Radio-opaque tip
- Torque capability
- Recanalization

InWire is use for PTCA and PTA and consists of an elastic stainless steel core wire. **InWire** platinum / iridium alloy coil provides radiopacity under high-resolution fluoroscopy at the distal end. The distal surface has a hydrophilic polymer coating that forms a high lubricity. It has a non-damaging flexible tip and slippery body structure. The distal tip is radiopaque. Fine control over challenging tortuous vessels and highly stenosed lesions. Polymer jacket provides advanced slip performance with superior torque and support. Can be used to enter and insert a diagnostic or interference device in the coronary vessels and is used to access and pass the lesion in a target lesion.

3cm Radioopaque Tip **Stainless Steel Core**



Super Elastic Platinum/Iridium Coil Structure

Guidewire Material	Stainless Steel
Guidewire Diameter	0,010", 0,012", 0,014", 0,018"
Guidewire Length	150 cm, 180 cm, 260cm, 300 cm
Core Material	Stainless Steel
Core Taper	Longer
Tip Sytle	Stiff / Intermediate / Floppy
Tip Length	1.5 cm- 10 cm
Spring Coils	Pt-Ir Coil Shape
Covers	Polymer Cover
Coating	Hydrophilic
Tip Load (g)	1-2, 3-6

**HIGH TENSILE STRENGTH
STAINLESS STEEL
CORE MATERIAL**



Indicated for use in closing and reducing time to hemostasis at the femoral arterial puncture site in patients useable minimal artery diameter of 4mm.

SINGLE HANDED
EASY
PROCEDURE
CONTROL

AngioTEN

VASCULAR CLOSURE



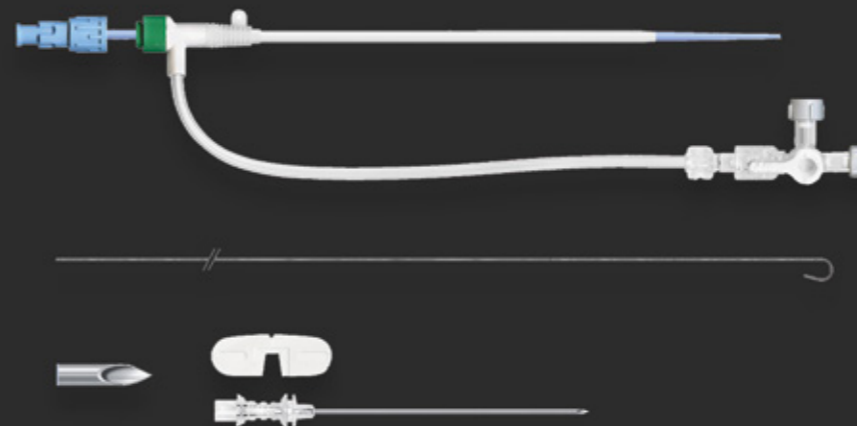
Special designed delivery sheath allows system to detect artery easily and deliver polymer compound over adventitia of the artery safety.

- ✓ Insertion Sheath
- ✓ Arteriotomy Locator
- ✓ 5F (2.0 mm) – 0.035 in. (0.89 mm) Guidewire with J-Straightener,
- 6F (2.0 mm) – 0.035 in. (0.89 mm) Guidewire with J-Straightener,
- 7F (2.0 mm) – 0.035 in. (0.89 mm) Guidewire with J-Straightener,
- 8F (2.7 mm) – 0.038 in. (0.96 mm) Guidewire with J-Straightener,
- 9F (2.7 mm) – 0.038 in. (0.96 mm) Guidewire with J-Straightener,
- 10F (3.3 mm) – 0.038 in. (0.96 mm) Guidewire with J-Straightener
- ✓ Single use, one year shelf life after sterilization
- ✓ Sterilized by Eto. Do not re-sterilize

AngioTEN, Vascular Closure Device developed for achieving rapid, reliable and safe homeostasis after diagnostic angiography procedures or interventional procedures

Invaducer

INTRADUCER SET



0.035" KIT
0.035"
J-tip guidewire

The **Invaducer** is intended to be inserted percutaneously into a vessel to facilitate the insertion of angiographic, electrode, balloon, or similar catheters.

Designed for Easy Insertion and for Patient Comfort

A percutaneous introducer is used to facilitate placing a catheter through the skin into a vein or artery. Percutaneous introducers are recommended for initial percutaneous introduction or the exchange of intravascular devices.

Diameter (F=French)	Excluded Lengths (cm)
4	11, 16
5	11, 16
6	11, 16
7	11, 16, 45, 64
8	11, 16, 45, 64
9	11, 16, 45, 64
10	11, 16, 45
11	11, 16, 45



Notes

A large white rectangular area with a blue border, containing 25 horizontal dotted lines for writing.

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