



**CARDIAC  
PRODUCT CATALOG**

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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.

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## Cardiac Product Catalog INDEX

- **InVAD** Ventricular Assist Device
- **Extender** Coronary
- **Extender** Aortic Balloon
- **Atlas** Coronary Stent System
- **Atlas** Stent Aortic
- **TorCATH** CTO Device
- **AngioHAND** Thrombus Removal System
- **Mantis Curve** OTW Directional Thrombectomy
- **Viper** Ultrasonic Infusion Therapy
- **Viper** Infusion Therapy

- **WaterJET** Thombus Management
- **Dovi** Aspiration Device And Catheter
- **Guide-X**
- **AngioCATH** Guiding Catheter
- **AngioTEN** Vascular Closure Device
- **InWIRE** Hydrophilic Guidewire
- **InWIRE** PTFE Coated Guidewire
- **InWIRE** Guidewire CTO
- **Invaducer** Introducer Sheath



# InVAD

## VENTRICULAR ASSISTING

- System inlet pressure: 40 mm-Hg
- System Outlet Pressure: 1000 mm-Hg (2)
- The finite element analysis was performed according to the constant input pressure of 5500 rpm.

### Pump Drive Motor Power Equation

- $V = 12$  volts
- $I = 1.2$  A
- $P_m = 14.4$  watts (maximum  $P_m$  value)
- DC motor efficiency = 80%
- $P_m = 14.4 * 0.80 = 11.5$  watts

InVAD is a continuous-flow, centrifugal type rotary blood pump that is placed outside the body. The continuous flow design means that the patient may not have a pulse.

Can be used as a solution for acute heart failure while longer time options are considered.

- 5L / min flow rate with maximum 5500 rpm
- 8x8 Magnetically bearing turbine
- Middle chamber for laminar flow
- Internal volume 19.82 ml
- Design for Short Term
- BLDC motor direct torque coupling design (1:1 torque transfer)
- Contact surface is kept minimal to reduce tear stress
- Moving Contact Area:  $870 \text{ mm}^2$

## HEART FAILURE MANAGEMENT



Dead space is designed at the impeller inlet (rotation axis) in order to prevent the laminar flow.

In this way, hydrodynamic levitation of impes (effect of buoyancy) is provided.



In lack of electricity InVAD is still be able to be used manually with manpower

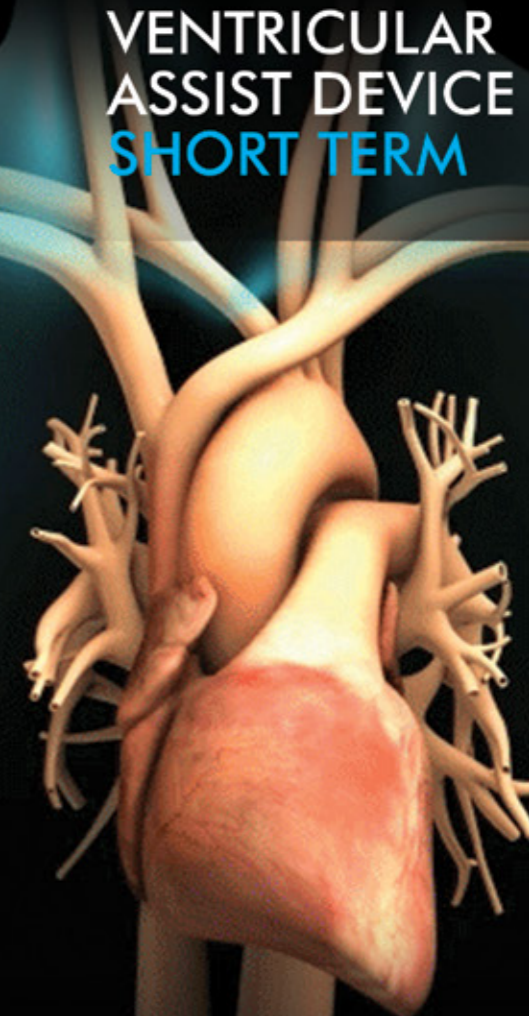
## VENTRICULAR ASSIST DEVICE (VAD) SHORT TERM

InVAD ventricular assist system is a magnetically levitated centrifugal-flow pump that can be applied rapidly in the operating room. By providing flows of up to 5 L/min, this pump can safely support a patient's circulation for 2 weeks or longer.

The system comprised of console, a pump motor driver, a flow probe and a flat screen control monitor.

Providing a contact-free, friction-free environment, technology can result in 10% low haemolysis, 5% low device-related thrombosis and, improved end-organ function. This technique may facilitate ambulation and recovery in selected patients.

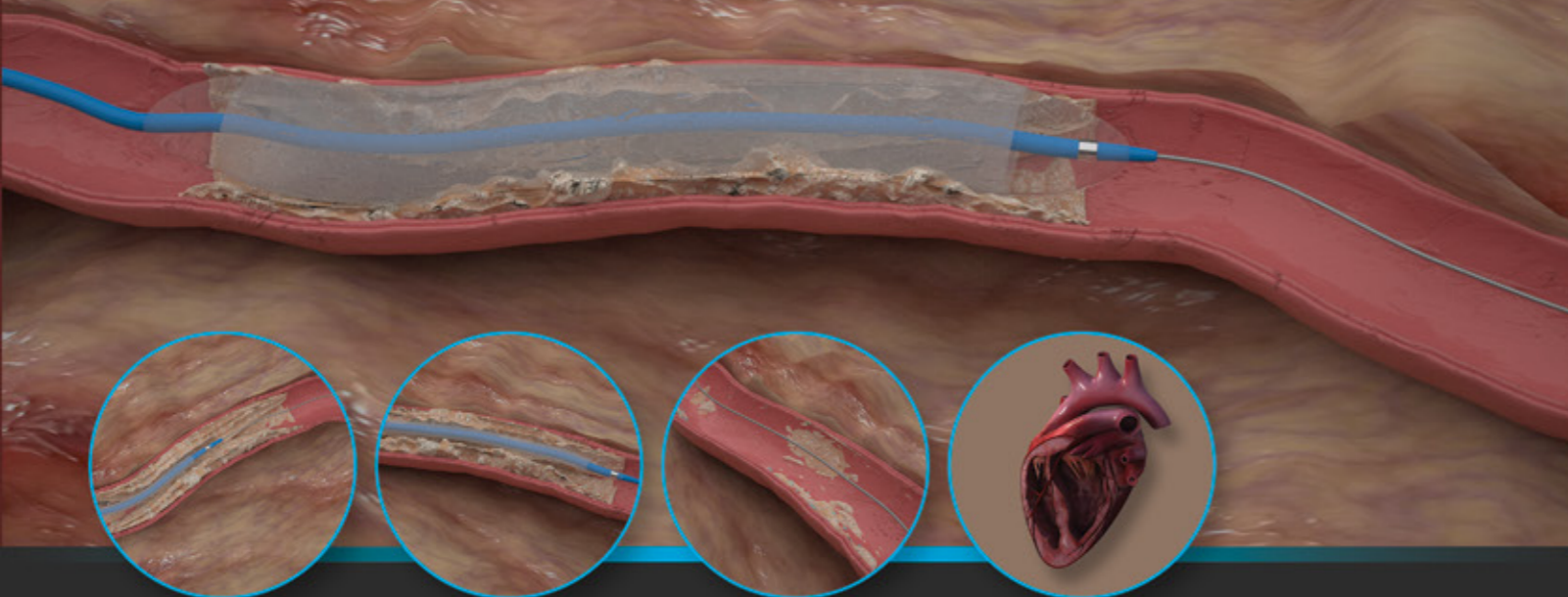
InVAD left ventricular assist device system can be used for perioperative or postcardiotomy circulatory support of the failing heart. The device resides at the patient's bedside, and the cannulae are usually inserted through a midline sternotomy, with the inflow cannula in the left ventricle or right superior pulmonary vein and the outflow cannula in the aorta.





Latest generation paclitaxel-eluting balloon catheter for coronary interventions

Compatible for variable balloon size options.



### Advantages

- ✓ Excellent pushability
- ✓ Targeted drug delivery into the vascular wall
- ✓ Single shot, short-term Paclitaxel delivery for long-term vessel patency
- ✓ Homogeneous and complete drug release
- ✓ Low profile tip and balloon design for reduced friction and advanced crossing performance
- ✓ Homogeneous drug delivery
- ✓ Effectively inhibiting proliferation
- ✓ No airborne particles at any time and no premature release of Paclitaxel
- ✓ Hydrophilic coating delivers Paclitaxel homogeneous to the vessel wall instantaneously upon contact
- ✓ Hydrophilic coating delivers Paclitaxel without any negative side effects or inflammation
- ✓ Load secured to achieve the therapeutic window within 30 seconds inflation time

**Extender** is a drug-eluting balloon dilatation catheter designed for percutaneous transluminal coronary angioplasty (PTCA) and has been optimized for the treatment of patients with coronary arterial disease.

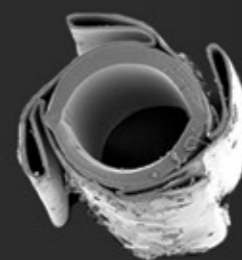
**Extender** PTCA catheter is indicated for the dilatation of the affected segments of a coronary artery or a coronary bypass in order to enhance myocardial perfusion. This paclitaxel-eluting balloon feature a proper coating technology which consistently delivers paclitaxel, an anti restenotic drug during very brief inflation times, while also minimizing washout of the drug during delivery and placement of the drug-eluting balloon.

Balloon catheter offer excellent pushability, trackability and crossability due to a low balloon profile, low tip entry profile and hydrophilic coating on the distal shaft of the catheter.

Paclitaxel eluting coronary balloon catheter is especially indicated for the treatment of coronary in-stent restenosis.

# Extender

## CORONARY



OUTSTANDING  
CLINICAL  
PERFORMANCE  
and EXCELLENT  
LONG-TERM  
PATIENT RESULTS.

## CONSISTENT TREATMENT OF CORONARY ARTERIAL DISEASES

### 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.

- ✓✓ 3µg / mm<sup>2</sup> drug dosage
- ✓✓ <2µm particles
- ✓✓ Contrast Medis as a drug carrier
- ✓✓ Minimum drug loose during delivery
- ✓✓ Available in Non-Compliant version
- ✓✓ <90% drug transfer to the target lesion

Paclitaxel Drug Dose	3.0-3.5 µg/mm <sup>2</sup>
Excipient	Iopromid
Balloon Diameter	1.5 mm to 4 mm
Guiding Catheter Profile	4F (1.5- 6mm), 5F (7- 10 mm), 6F (12- 14mm)
Balloon Length	10- 250 mm
NP / RBP	6 atm / 14 atm
Balloon Fold Configuration	1.5 to 4.0 mm: 3 folds; 4.0 to 14 mm: 6 folds
Radiopacity	Pt-Ir Ring marker
Guidewire Compatible	0,014", 0,018", 0,025"
Catheter Design	Over the wire (OTW)
Catheter Length	120cm, 135 cm, 150 cm
Structure of the Catheter	PA/PEBAX

### BALLOON DIAMETERS

	2.00mm	2.25mm	2.50mm	2.75mm	3.00mm	3.25mm	3.50mm	3.75mm	4.00mm	4.50mm		
PRESSURE	4atm	1.84	2.09	2.31	2.56	2.78	3.02	3.25	3.51	3.74	4.51	Nominal Pressure
	5atm	1.92	2.16	2.41	2.67	2.89	3.13	3.38	3.62	3.87	4.91	
	6atm	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	5.00	
	10atm	2.07	2.32	2.59	2.86	3.11	3.36	3.61	3.89	4.14	5.22	
	12atm	2.14	2.41	2.66	2.93	3.21	3.46	3.73	4.02	4.29	5.41	
	14atm	2.20	2.48	2.75	3.03	3.30	3.58	3.85	4.13	4.40	5.50	Rated Burst Pressure











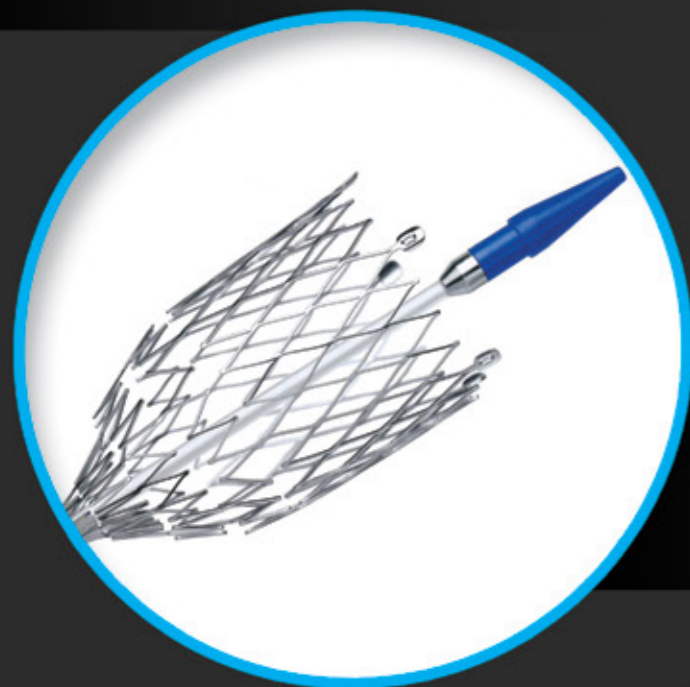
# Atlas

## AORTIC

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

### 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 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

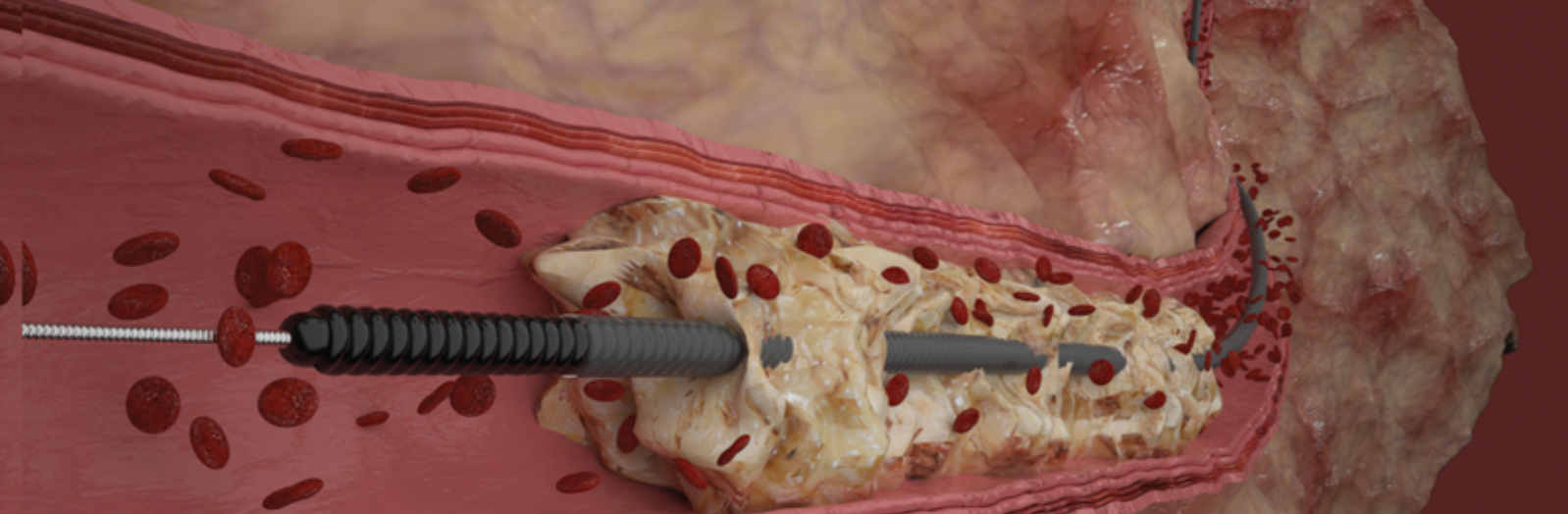
### Atlas™ Aortic is indicated for:

- 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**





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

# TorCATH

CTO DEVICE

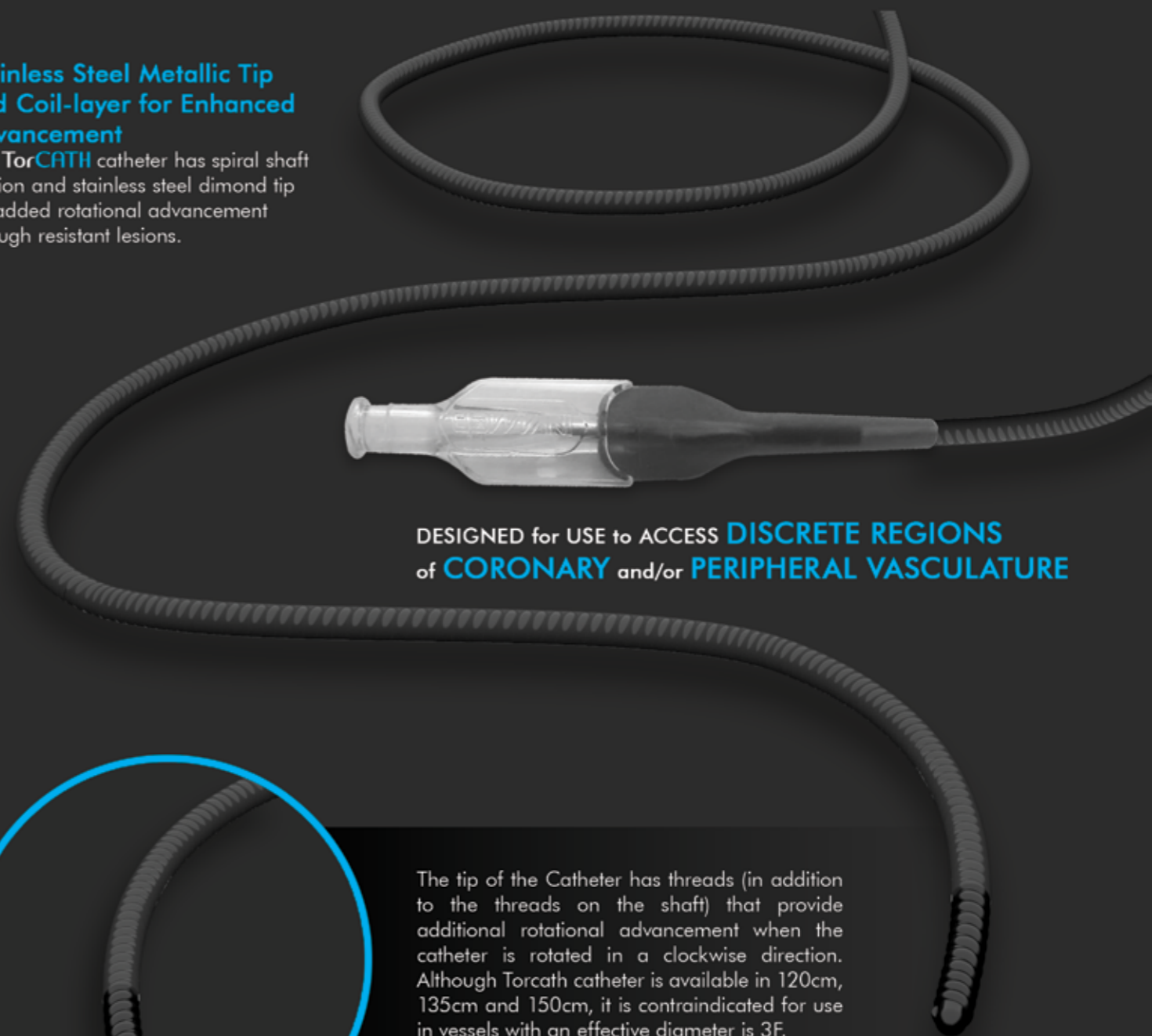
Usable length	120cm, 135cm, 150cm
Tip Length (cm)	1.5cm
Tip Shape	Stainless Steel Diamond tip
Catheter Profile	3F
Radiopaque Marker	Coil Design
Guidewire Compatibility	Diameter 0.014"
Coating	Hydrophilic
Structure of the Catheter	PE/PEBAX

The catheter's shafts are constructed of polymer layers that encapsulate a special design coil layer. The catheter has a hydrophilic coating.

The **TorCATH** catheters are single lumen catheters designed for use to access discrete regions of coronary and/or peripheral vasculature. They may be used to facilitate placement and exchange of guidewires and to subselectively infuse/deliver diagnostic and therapeutic agents.

## Stainless Steel Metallic Tip and Coil-layer for Enhanced Advancement

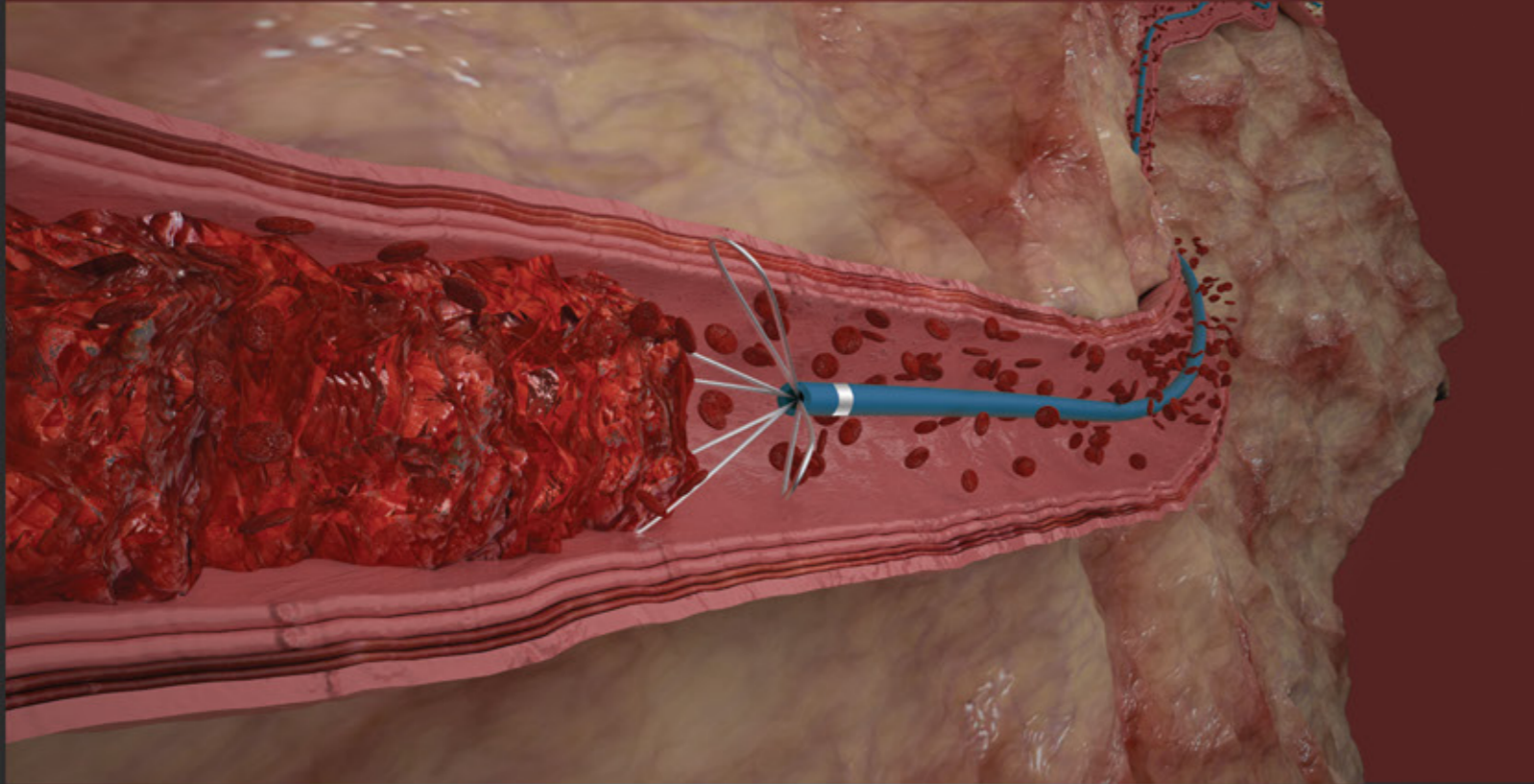
The **TorCATH** catheter has spiral shaft version and stainless steel diamond tip for added rotational advancement through resistant lesions.



DESIGNED for USE to ACCESS **DISCRETE REGIONS** of **CORONARY** and/or **PERIPHERAL VASCULATURE**

The tip of the Catheter has threads (in addition to the threads on the shaft) that provide additional rotational advancement when the catheter is rotated in a clockwise direction. Although Torcath catheter is available in 120cm, 135cm and 150cm, it is contraindicated for use in vessels with an effective diameter is 3F.





# AngioHAND

## THROMBUS REMOVAL SYSTEM

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

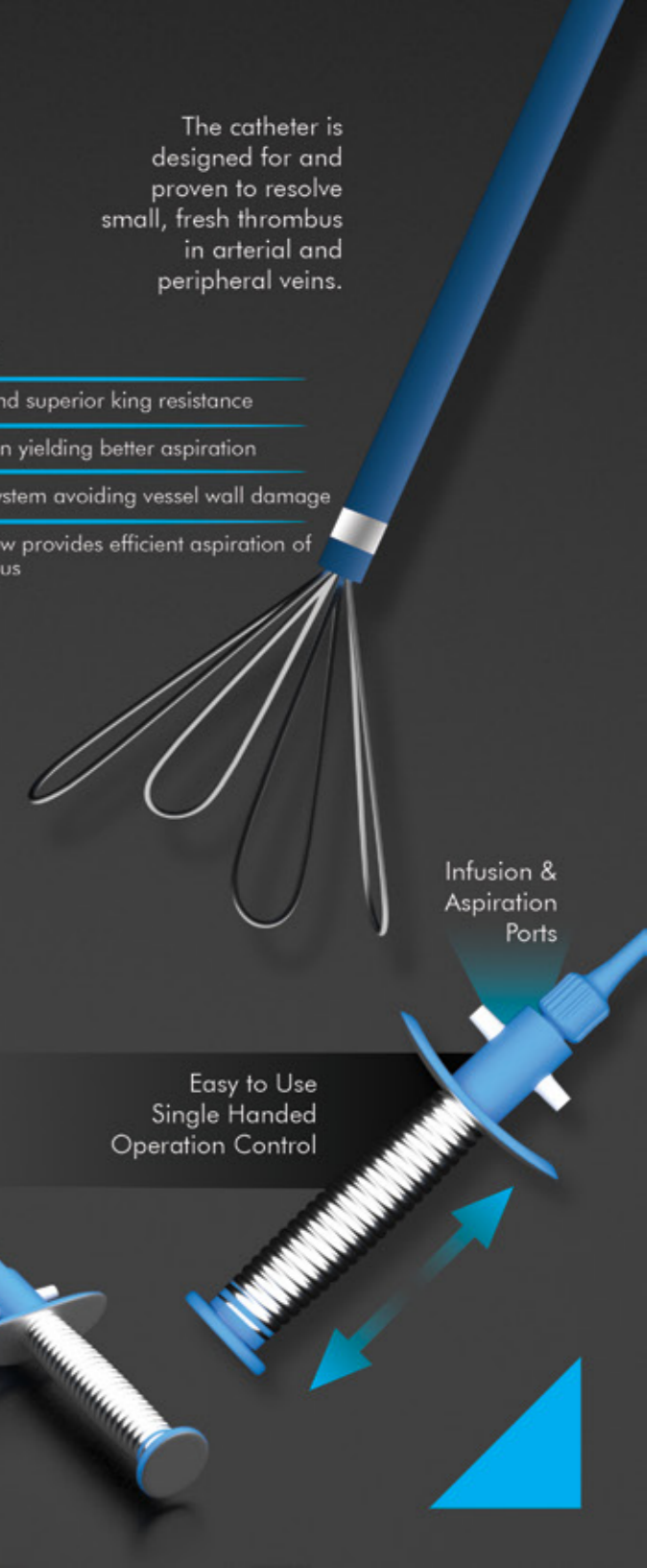
### Advantages

- ✓ 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 dependent 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.



### 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

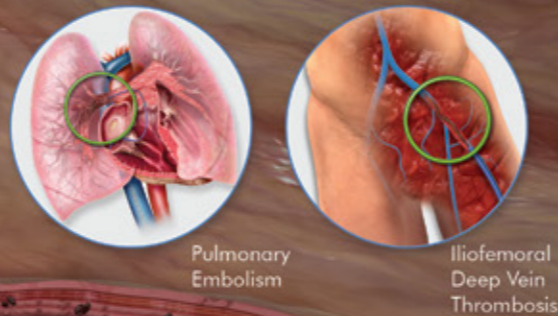
**AngioHAND** System is a Mechanical Thrombectomy catheter that is intended for use with our Continuous Aspiration Machine. The **AngioHAND** System is indicated to aid in the removal of clot from the body.

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



## Indicated Vessels

Peripheral Veins  
Pulmonary Artery  
Inferior Vena Cava  
Subclavian Vein  
Hepatic Vein



Pulmonary Embolism

Iliofemoral Deep Vein Thrombosis

## THROMBOLYSIS CATHETER WITH EXCELLENT STEERABILITY

### Advantages

- ✓ Sinusoidal wave shaped tip design
- ✓ Contacts whole vessel lumen and effects wall adherent thrombus
- ✓ Allows movement over 0.035" guidewire
- ✓ Creates vortex effect and macerates thrombus with TPA while preventing distal embolism
- ✓ Active tip
- ✓ Preserves vessel wall
- ✓ Excellent steerability
- ✓ Built-in infusion port allows infusion of TPA and contrast media
- ✓ Tip diameter size ranging from 150 mm
- ✓ Allows physician to perform treatment depending on application area and vessel size
- ✓ Decreases thrombolytic treatment dose significantly
- ✓ Prevents post-thrombolytic syndrome significantly
- ✓ Decreases length of stay in hospital
- ✓ Quick Setup

## OTW ROTATIONAL, DIRECTIONAL PHARMACOMECHANICAL THROMBECTOMY CATHETER

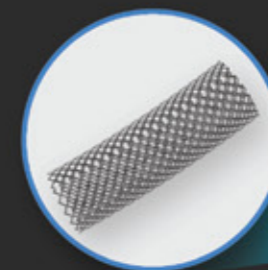
This over-the-wire rheolytic thrombectomy device uses the Venturi effect to create a hydrodynamic vortex that draws in and fragments the surrounding thrombus. The system requires use of a specialized system that creates rotational vortex effect prevents embolism and macerates thrombus with TPA while preventing distal embolism.

<b>Design</b>	Coil design and Sinusoidal wave shape
<b>Guidewire Compatibility</b>	0,014"/0,035"
<b>Catheter Length</b>	90 cm, 110 cm, 120cm, 135cm, 150 cm
<b>Catheter Profile</b>	5.0F - 6.0F - 7.0F - 8.0F
<b>Radiopacity</b>	Coil design and Sinusoidal wave shape is visible from the distal tip to proximal shaft
<b>Active Zone</b>	15 cm
<b>Catheter Inner Layer</b>	PTFE
<b>Structure of the Catheter</b>	Stainless steel coil, PA/PEBAX

# Mantis CURVE

## THROMBECTOMY

5F-8F  
90cm / 150cm



Braided Radiopaque Support Catheter with Guidewire

- ✓ Atraumatic rotational distal tip allows reliable operation
- ✓ Allows movement over 0.035" guidewire
- ✓ Mantis Curve transfers torque in the ratio of 1:1 (distal/proximal) by the help of its flexible helical internal structure.
- ✓ Treat severely thrombus up to 2 times more effectively.
- ✓ 15000 RPM
- ✓ The device is available in multiple sizes, including 5, 6, 7 and 8 Fr.

Sinusoidal TIP Design

Optional Rotation Direction (R/L)

## PASS THROUGH THE LESSIONS EASILY

## FIRST OVER THE WIRE MECHANICAL THROMBECTOMY CATHETER

Indications  
Deep Vein Thrombosis  
Pulmonary Embolism



Infusion & Aspiration Port



# Viper

## INFUSION THERAPY

### ALLOWS SAFE ACCESS

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

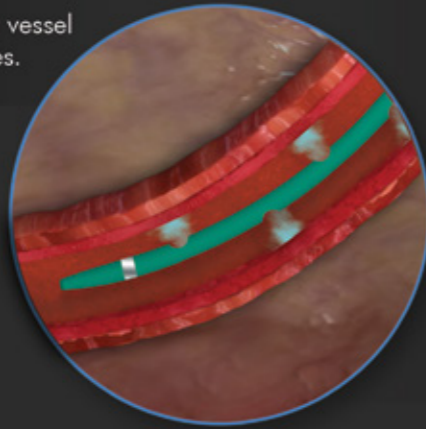
It increases the effects of tPA by thinning the fibrin and increasing porosity.

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 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<sup>Ultra</sup>SONIC

## INFUSION THERAPY

### ALLOWS SAFE ACCESS

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

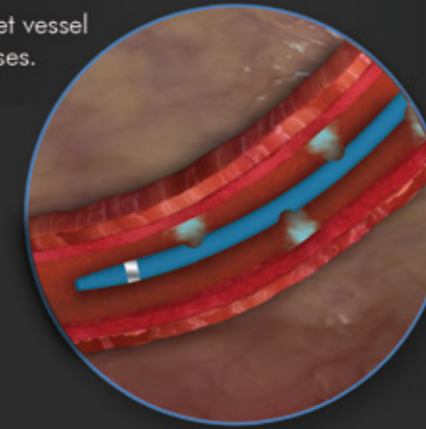
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## 4F-10F

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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



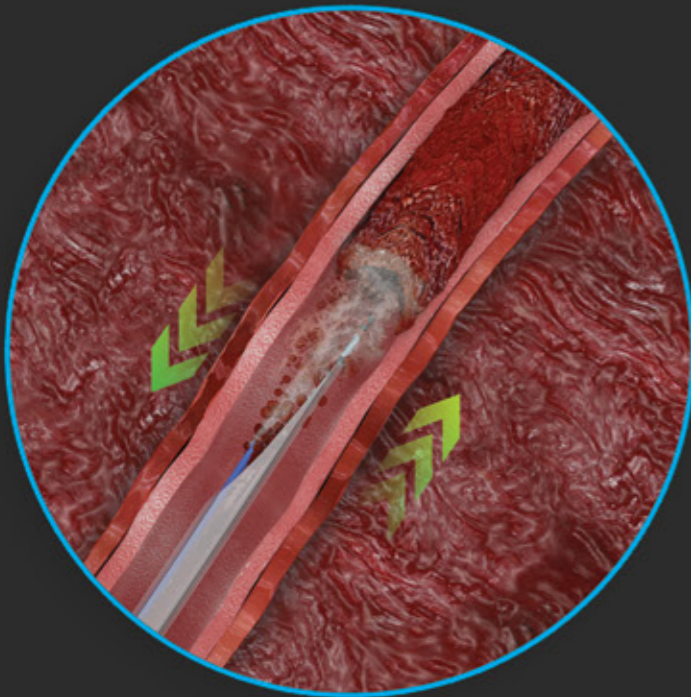
**4-9F**  
**WIDE**  
**ASPIRATION**  
**LUMEN**



**Move Beyond**  
**Standart Thrombus Management Treatments**

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

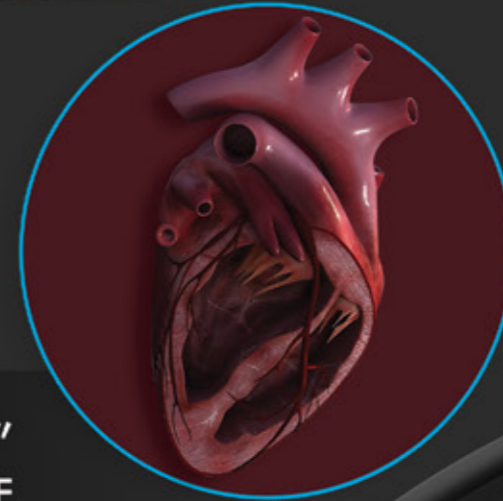
It includes a high-pressure jet of sterile saline solution directed in front of a powerful aspiration.



**Dominate**  
**Thrombus**  
**Management**

**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

**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

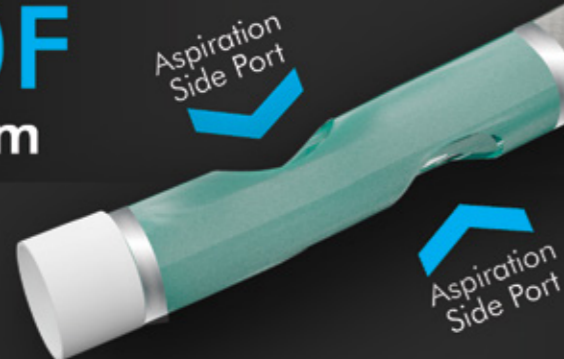


# Dovi

ASPIRATION SYSTEM

## ASPIRATION THROMBECTOMY SYSTEM

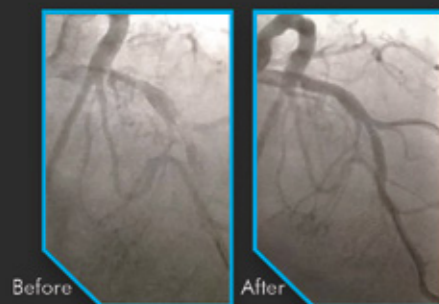
**4F-10F**  
90-150cm



Radioopaque

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

Dovi is an innovative aspiration catheter designed to offer a balance between crossing performance, kink resistance and thrombus-aspiration capability.



Before

After

### Indicated Vessels

Peripheral Veins  
Pulmonary Artery  
Inferior Vena Cava  
Subclavian Vein  
Hepatic Vein

### 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.
- ✓ Hydrophilic coating.
- ✓ Excellent kink resistance and pushability.
- ✓ Easy navigation through tortuous anatomies.
- ✓ Dedicated tip design with radiopaque marker.
- ✓ Excellent crossability while providing atraumatic and effective aspiration.
- ✓ Ensures reliable fluoroscopic visibility.
- ✓ Large Extraction Area.
- ✓ Constant, high-performance aspiration throughout the procedure.
- ✓ Choice of different catheter sizes (5Fr, 6Fr, 7Fr and 8Fr guide catheter compatibility) for different coronary and peripheral applications

Usable length	90 cm, 120 cm, 135 cm
Distal tip hole length	4 mm for 2,3,4 and 5 Fr, 7 mm for 6,7 and 8 Fr
Catheter Profile	2F, 3F, 4F, 5F, 6F, 7F, 8F
Radiopaque marker	1 mm located at 3 mm from the tip
Guidewire compatibility	Maximum diameter 0.035" (0.87 mm)
Coating	Hydrophilic
Structure of the Catheter	PE/PEBAX

# GuideX

ACCESS DISCRETE REGIONS

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

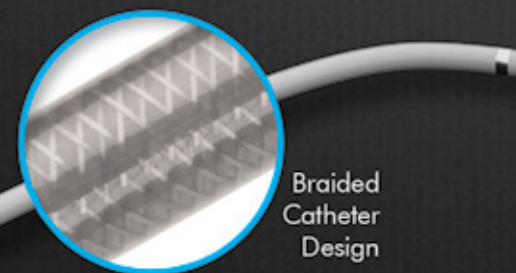
GuideX Catheter is intended to be used in conjunction with guide catheters to access discrete regions of the coronary and/or peripheral vasculature, and to facilitate placement of interventional devices.

**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.

GuideX 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, GuideX Extension Catheter can benefit the patient and hospital by turning an unsuccessful PCI into a successful PCI.



# 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.

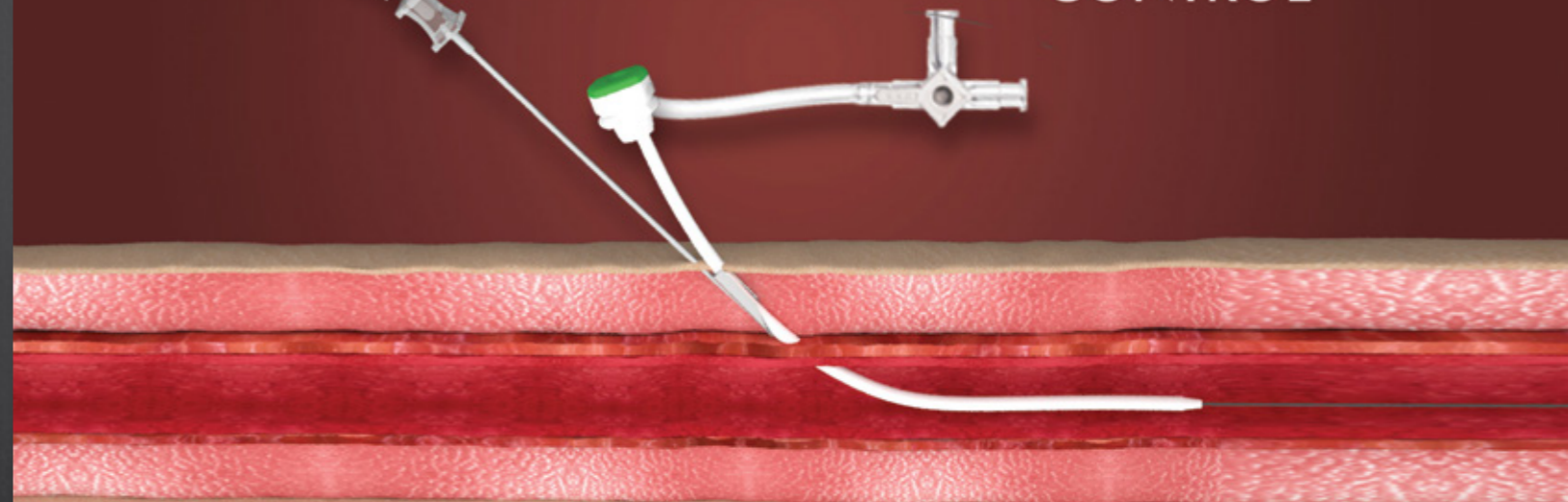
Catheter Material	PEBAX/PA
Catheter Outer Diameter	4F, 5F, 6F, 7F, 8F, 9F, 10F
Catheter Inner Diameter	0,043", 0,058", 0,071", 0,081", 0,090", 0,108", 0,117"
Catheter Length	90 cm
Tip Style	Straight, Left, Right
Coating	PTFE

**THINNER WALLS**  
without  
**COMPROMISING**  
**SUPPORT**



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

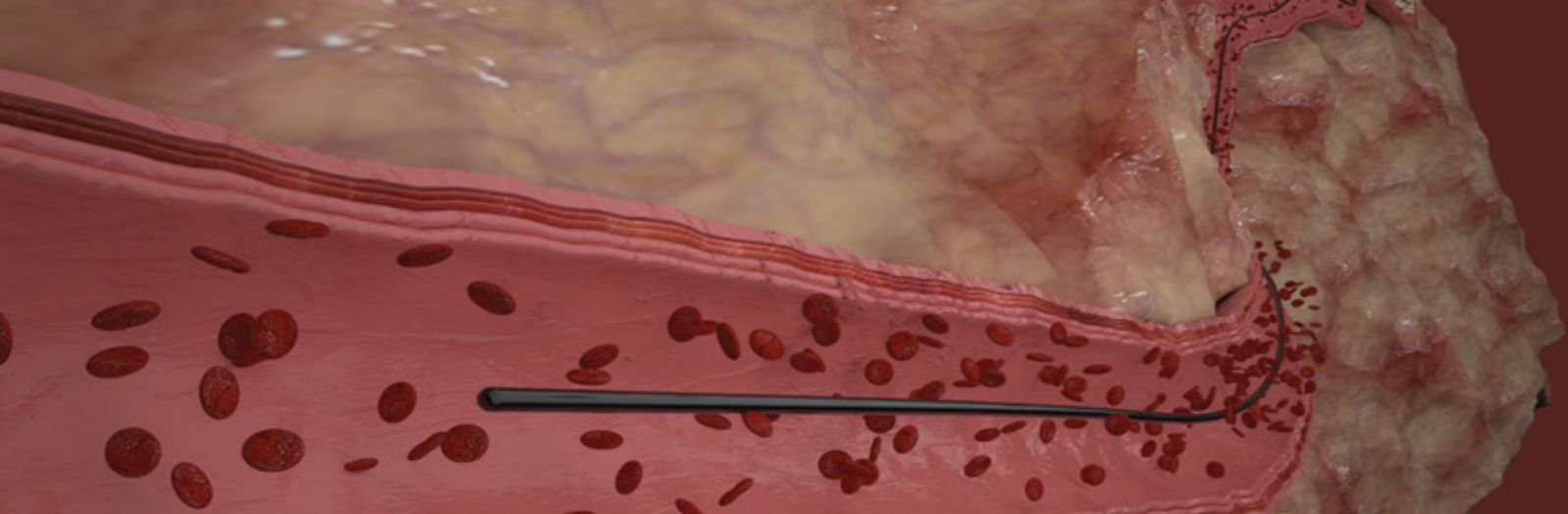
Special designed delivery sheath allows system to detect artery easily and deliver polymer compound over adventitia of the artery safety.



- ✓ 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





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

# InWIRE<sup>Guide</sup> 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

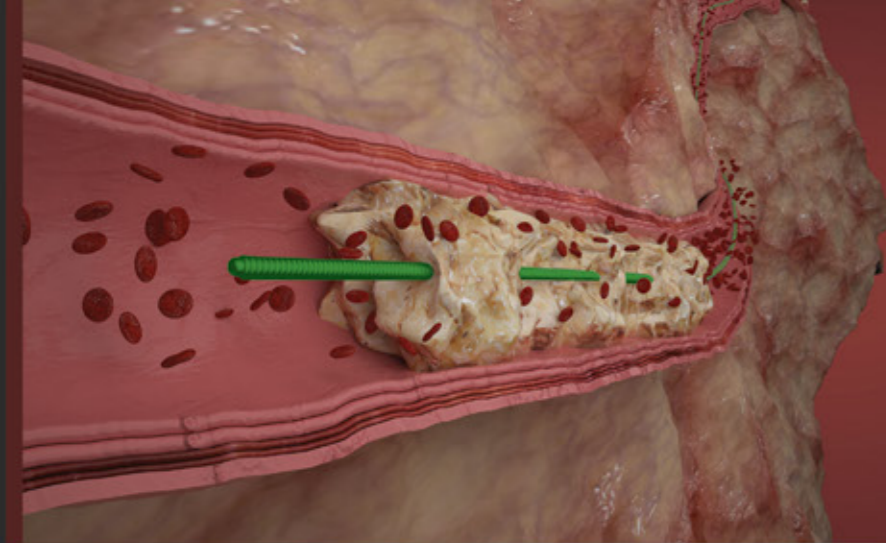
- Good flexibility
- Excellent steering and tracking
- Easy steerability
- Straight, configurable tip structure
- Hydrophilic polymer coating provide lubricity
- Radio-opaque tip
- Torque capability
- Straight - angled and tapered tip

Hydrophilic Coating

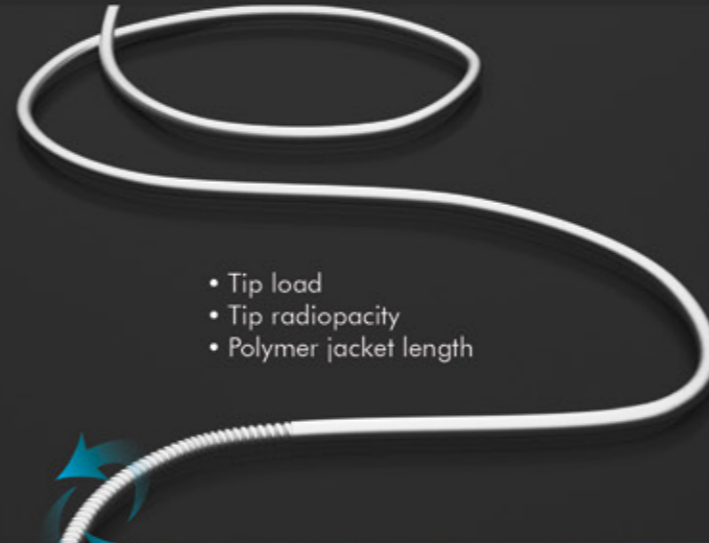
Elastic Radioopaque Tip

PTFE Coated Nitinol Core Structure

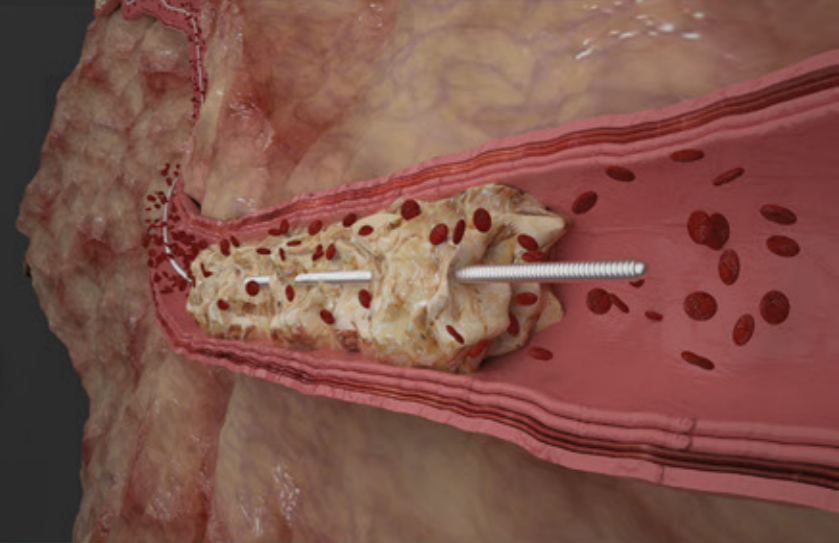




**PROVIDES  
EASY NAVIGATION AND  
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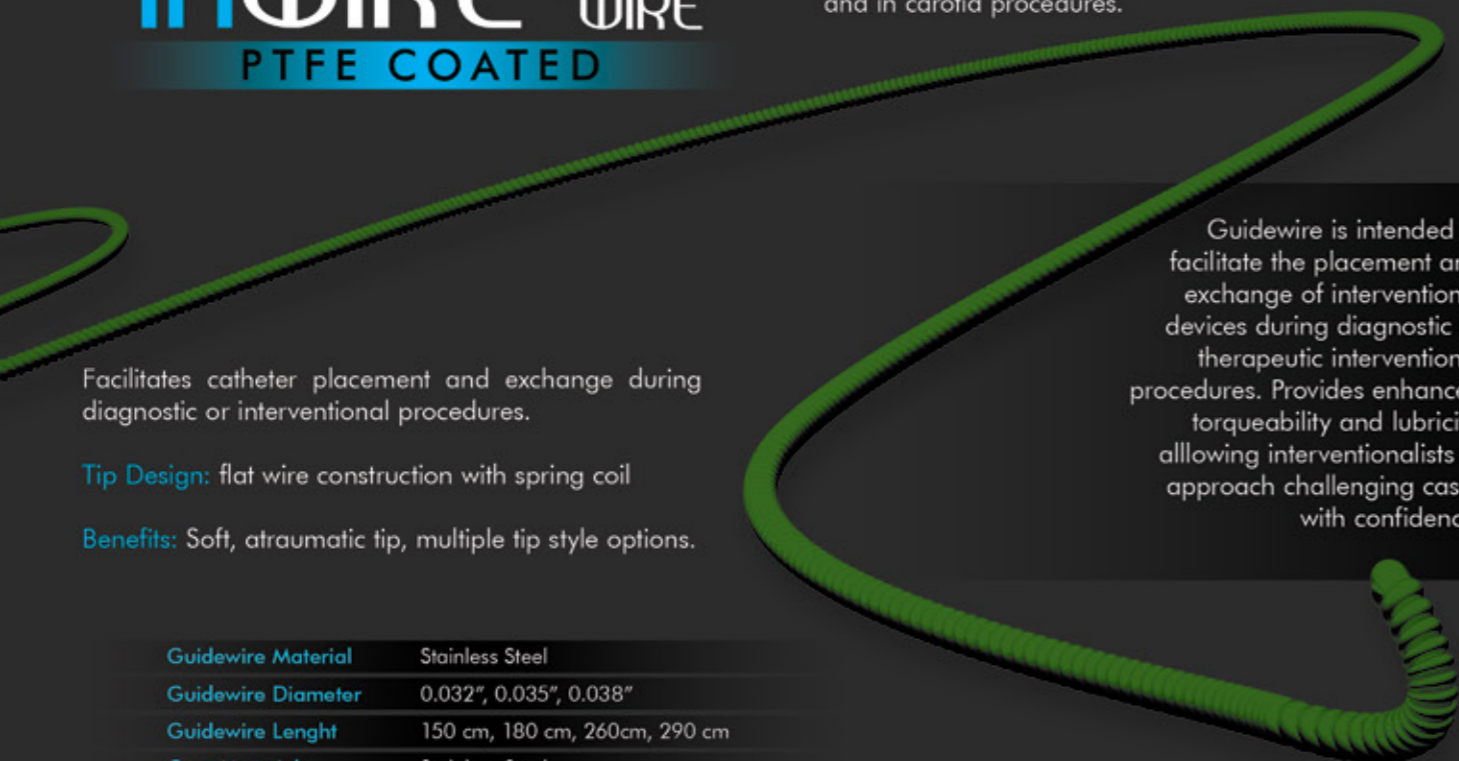
- Tip load
- Tip radiopacity
- Polymer jacket length



## InWIRE<sup>Guide</sup> 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<sup>Guide</sup> 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

**HIGH TENSILE STRENGTH  
STAINLESS STEEL  
CORE MATERIAL**

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



# 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

