

## PTCA and PTA Balloon Catheters

The VASMED range of

PTCA & PTA Interventional Balloon Catheters:

**Fast Track** - PTCA Rapid Exchange Pre-dilation Catheter

**Hightrack** - PTCA Rapid Exchange Post-dilation Catheter

**Vastrack** - Stent delivery system

**Indigo RX** - PTA Rapid Exchange Balloon Catheter

**Indigo OTW** - PTA Over-the-Wire Balloon Catheter

### **OEM and OBL Services**

As an established manufacturer of vascular interventional products, with own research and development team, VASMED provides all our branded products on

#### **OEM and OBL basis to our partners**

In addition, we provide

- Customised Balloon Catheters, for dilatation and as a platform for stent & drug delivery
- Multiple-option Balloons (design support, materials & surface treatment)

#### **Our design services include**

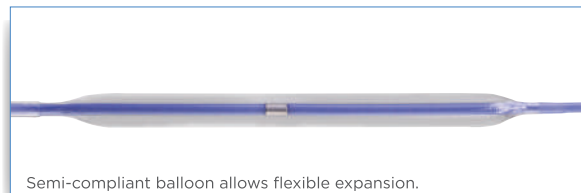
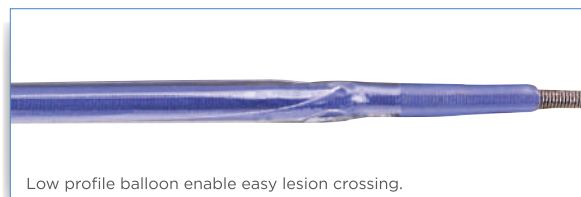
- Design of innovative products based on state-of-the-art technology
- Innovative product concepts marketed in real time
- Brainstorming new ideas, expanding portfolios
- Proprietary patent development
- Extensive regulatory support



## Fastrack

PTCA Rapid Exchange  
Pre-dilation Catheter

**Fastrack** Dilation PTCA Balloon Catheters are designed with a low entry profile of 0.017” and a unique tapered distal shaft that enable easy lesion crossing during pre-dilation and for total chronic occlusion interventions. The inner lumen made of tri-layer material with HDPE inner-layer and nylon outer-layer material minimises friction without compromising stiffness. Together with the unique hypotube design and the kink resistant strain-relief, it ensures excellent pushability and trackability.



Fast Track is designed with a long entry tip (4.0mm) to enable easy crossing of the lesion prior to stent placement. Also, the tri-fold balloon ensures low crossing profile and the semi-compliant balloon material provides a flexible, controlled expansion at the lesion. Hydrophilic coating of the distal shaft is available as an option.

### Size sheet

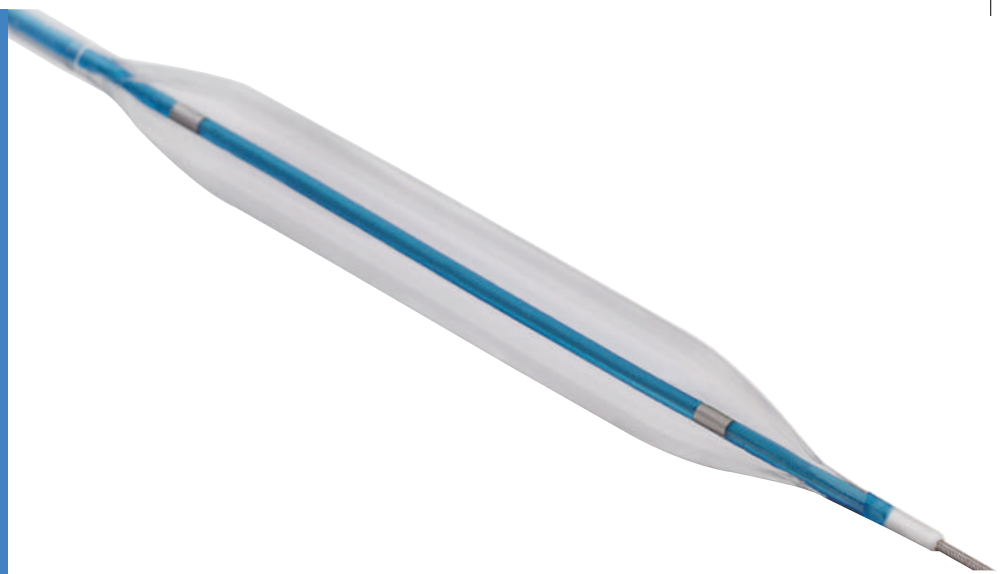
<b>Diameters (Φ)</b>	1.5, 2.0 mm
<b>Length</b>	10, 15, 20, 30 mm

*CE marked*  
Available in custom sizes, and on OEM and OBL basis.

Technical Specifications	
Entry Profile	0.017”
Crossing Profile	0.026”
Balloon Material	PEBAX
Balloon Material Type	Semi Compliant (SC)
Proximal Shaft	2.2 Fr Skived Over Extruded Hypotube
Distal Shaft	2.4 Fr, tapered design (PEBAX material)
Balloon Folding	Tri fold
Inflation/Deflation time	< 10 Seconds
Radiopaque Markers	1 (Central to balloon)
Marked Bands	80 cm and 100cm from tip

# Vastrack

## Stent Delivery System

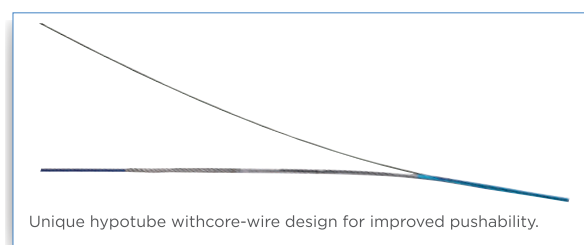
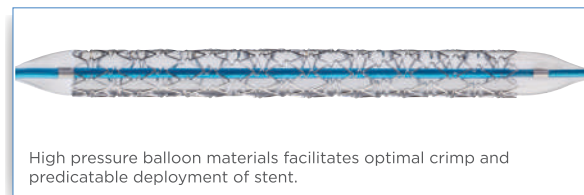
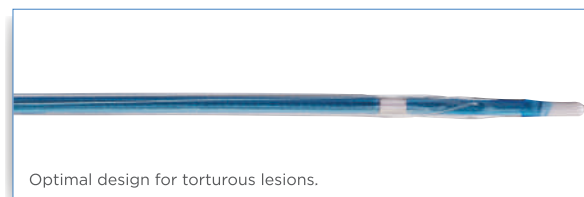


**Vastrack** - Stent Delivery System is designed for PTCA procedures that demand high pushability and crossability from the balloon catheter, and also as a reliable stent delivery system. Vastrack encompasses a low compliant, high pressure, tri-fold balloon ensuring a predictable deployment of the stent. The unique CW Hypotube with a tapered wire running through the transition into the distal shaft facilitates extra support, improved pushability and crossability even when traversing through extremely tight radius.

High pressure balloon material facilitates optimal crimp and predictable deployment of stents. The less compliant nature of the balloon allows uniform expansion of the stent with the balloon.

Vastrack is available in custom sizes suiting the stent dimensions.

Technical Specifications	
Entry Profile	0.017"
Crossing Profile	0.026"
Balloon Material	Nylon 12
Balloon Material Type	Low compliant
Proximal Shaft	2.2 Fr. Skived Over Extruded Hypotube
Distal Shaft	2.4 Fr. tapered design (PEBAX material)
Balloon Folding	Tri fold
Inflation/Deflation time	< 10 Seconds
Guidewire diameter	0.014"
Radiopaque Markers	2
Marked Bands	80 cm and 100 cm from tip



### Size sheet

<b>Diameters (Φ)</b>	2.5, 2.75, 3.0, 3.25, 3.5, 3.75, 4.0 mm
<b>Length</b>	10, 15, 20, 25, 30, 32, 34, 38, 42 mm

*CE marked  
Available in custom sizes, and on OEM and OBL basis.*



## Hightrack

PTCA Rapid Exchange  
Post-dilation Catheter

**Hightrack** is designed for use in highly calcified lesions or for post dilation of stents. High Track provides advantage over the PET balloons with a balloon wall more resistant to puncture and burst, especially with highly calcified lesions. The unique SPV material based hypotube facilitate easy transfer of torque and enhanced pushability.



The ultra-high pressure, low compliant balloon material allows for controlled dilation post stent placement. The High Track balloon catheters are available in varying diameters, and lengths.

Custom sizes available on request.

### Size sheet

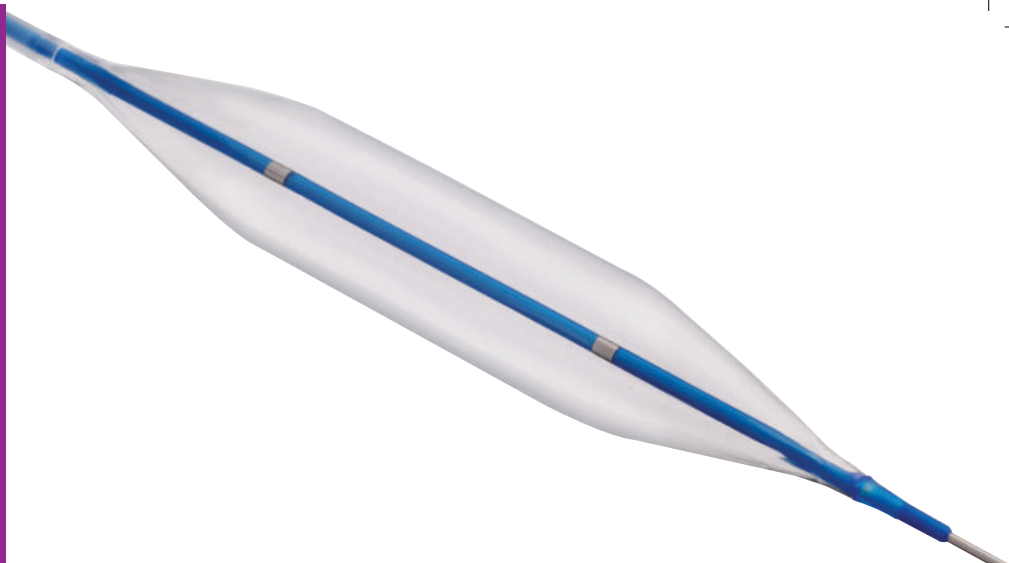
<b>Diameters (Φ)</b>	1.5, 2.0, 2.5, 2.75, 3.0, 3.25, 3.5, 3.75, 4.0 mm
<b>Length</b>	10, 15, 20,30 mm

Technical Specifications	
Entry Profile	0.017"
Crossing Profile	0.032"
Balloon Material	Polyamide
Balloon Material Type	Ultra high pressure low compliant
Proximal Shaft	2.3 Fr. SPV Hypotube
Distal Shaft	2.6 Fr. PEBAX material
Balloon Folding	3 fold
Inflation/Deflation time	< 10 Seconds
Minimum Guiding Catheter	5 Fr.
Guidewire diameter	0.014"
Radiopaque Markers	2
Marked Bands	80 cm and 100 cm from tip

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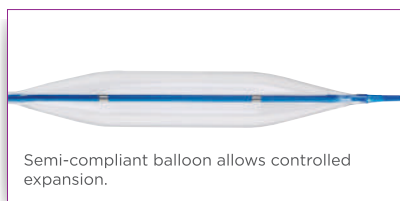
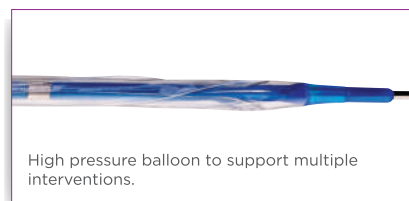
# Indigo

## PTA Rapid Exchange Balloon Catheter



**Indigo RX** - PTA Rapid Exchange Balloon Catheter is a single use, double lumen dilation balloon catheter for peripheral interventions. The device incorporates the flexibility of rapid exchange design with high burst balloons, multiple working lengths and balloon sizes to facilitate usage in most peripheral intervention requirements.

**Indigo OTW** - Over-the-Wire Balloon Catheter incorporates the rigidity of over-the-wire design and high pressure balloon to allow clinicians a device for optimal balloon performance during peripheral interventions.



Technical Specifications		
	Indigo Rx	Indigo OTW
Balloon Material	Pebax	Pebax
Balloon Material Type	High pressure Semi compliant	High pressure Semi compliant
Balloon Folding	Tri fold	Quad fold
Inflation/Deflation time	< 10 Seconds	-
Minimum Guiding Catheter	5Fr. for 4.5 mm, 5 mm $\Phi$ 6Fr. for 6.0 mm, 10 mm $\Phi$	5Fr for 4.5 mm, 5 mm $\Phi$ 6Fr for 6.0mm, 10mm $\Phi$
Maximum Guidewire	0.018"	0.035"
Radiopaque Markers	2	2
Size - Length	20, 40, 60, 80 mm	20, 40, 60, 80mm
Diameter ( $\Phi$ )	4.5, 5.0, 6.0, 7.0 mm	4.5, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm

CE marked  
Available in custom sizes, and on OEM and OBL basis

## Compliance Charts

### Fastrack - Pre-dilation Catheter

Diameter mm	2 atm	4 atm	6 atm	8 atm	10 atm	12 atm	14 atm	16 atm	18 atm
1.50	1.24	1.45	1.50	1.67	1.76	1.86	1.97	2.07	2.20
2.00	1.56	1.82	2.00	2.10	2.20	2.30	2.37	2.48	2.64
Nominal Pressure				Rated Burst Pressure					

### Vastrack - PTCA Catheter and Stent delivery system

Diameter mm	2 atm	4 atm	6 atm	8 atm	10 atm	12 atm	14 atm	16 atm	18 atm	20 atm
2.50	2.10	2.29	2.45	2.50	2.62	2.65	2.72	2.77	2.81	2.86
2.75	2.41	2.63	2.69	2.75	2.82	2.90	2.94	2.98	3.01	3.05
3.00	2.40	2.67	2.84	3.00	3.03	3.06	3.10	3.14	3.19	3.21
3.25	2.83	3.08	3.19	3.25	3.33	3.37	3.41	3.45	3.49	3.54
3.50	3.12	3.37	3.46	3.50	3.59	3.64	3.68	3.72	3.76	3.81
3.75	3.33	3.60	3.69	3.75	3.84	3.89	3.93	3.98	4.02	4.06
4.00	3.63	3.84	3.99	4.00	4.13	4.18	4.23	4.28	4.33	4.38
Nominal Pressure					Rated Burst Pressure					

### Hightrack - Post-dilation Catheter

Diameter mm	6 atm	8 atm	10 atm	12 atm	14 atm	16 atm	18 atm	20 atm	22 atm	24 atm
2.50	2.40	2.50	2.61	2.66	2.70	2.74	2.79	2.84	2.89	2.95
2.75	2.69	2.75	2.86	2.91	2.95	3.00	3.04	3.08	3.14	3.20
3.00	2.90	3.00	3.15	3.20	3.25	3.31	3.38	3.45	3.53	3.61
3.25	3.19	3.25	3.32	3.37	3.41	3.46	3.51	3.55	3.59	3.66
3.50	3.47	3.50	3.63	3.67	3.72	3.77	3.81	3.86	3.93	4.02
3.75	3.68	3.75	3.86	3.92	3.97	4.03	4.08	4.13	4.19	4.23
4.00	3.92	4.00	4.06	4.10	4.15	4.19	4.24	4.28	4.34	4.39
Nominal Pressure					Rated Burst Pressure					

### Indigo - PTA Balloon Catheter

Diameter mm	2 atm	4 atm	6 atm	7 atm	8 atm	10 atm	12 atm	14 atm
4.50	3.90	4.25	4.45	4.65	4.75	4.85	2.72	2.77
5.00	4.40	4.70	5.00	5.15	5.20	5.30	5.40	5.50
6.00	5.30	5.70	6.00	6.20	6.40	6.65	7.00	7.10
7.00	6.20	6.65	7.00	7.20	7.40	7.60	7.80	8.10
8.00	6.60	7.15	7.70	8.00	8.20	8.30	8.70	9.10
9.00	7.65	8.20	8.80	9.00	9.25	9.60	10.00	10.40
10.00	8.31	9.13	9.82	10.00	10.32	10.71	11.06	11.47
Nominal Pressure					Rated Burst Pressure			

# VASMED



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Avery label J8162, 63 (9.91 x 3.81 cm)