VAS TRACK
Rapid Exchange PTCA Balloon Catheter

VASMED

Technical Specifications

Catheter Type	:	Rapid Exchange (RX)
Compliance Type	:	Semi-Compliant
Balloon Folding	:	Tri-Fold
Total Working Length	:	142 cm
Balloon Lengths (mm)	:	10 mm – 42 mm (10, 15, 20, 25, 30, 32,34, 36 ,38 and 42 mm)
Balloon Diameters (mm)	:	1 mm – 4.0 mm (1.00, 1.25, 1.50, 2.00, 2.50, 2.75, 3.00 ,3.25, 3.50, 3.75)
Distal Shaft Diameter	:	2.3 Fr (1.00 to 2.00 mm) 2.6 Fr (2.50 to 4.00 mm)
Proximal Shaft Diameter	:	1.9 Fr
Nominal Pressure (NP)	:	8 atm
Rated Burst Pressure (RBP)	:	16 atm

Balloon Crossing Profile:

1.00 to 1.25 mm	≤ 0.024" (≤ 0.5842mm)
1.50 - 2.00 mm	≤ 0.025" (≤ 0.635 mm)
2.50 - 3.00 mm	≤ 0.030" (≤ 0.762 mm)
3.25 - 3.50 mm	≤ 0.031" (≤ 0.787 mm)
3.75 mm	≤ 0.034" (≤ 0.864 mm)
4.00 mm	≤ 0.036" (≤ 0.914 mm)

Balloon Material	:	Nylon
Marker Material	:	Platinum-Iridium
Radiopaque Markers		
Single Marker and Double Markers	:	1.0mm to 2.0mm
Double Markers	:	2.5 to 4.00 mm
Tip Length	:	4 mm
Tip Entry Profile	:	0.019"
Distal Coating	:	Hydrophilic
Minimum Guiding Catheter ID	:	5 Fr
Maximum Guide Wire Compatibility	:	0.014"
Inflation Time	:	<10 sec
Deflation Time	:	<25 sec
Shelf Life	:	36 months

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Compliance Chart
Balloon Compliance

Balloon Diameter (mm)	Inflation Pressure (atm)								
	4 atm	6 atm	8 atm	10 atm	12 atm	14 atm	16 atm	18 atm	20 atm
1.00	0.84	0.92	0.97	1.01	1.03	1.10	1.15	1.23	1.33
1.25	1.01	1.10	1.16	1.25	1.33	1.43	1.54	1.65	1.79
1.50	1.30	1.43	1.52	1.59	1.66	1.72	1.77	1.82	1.87
2.00	1.68	1.83	1.95	2.04	2.11	2.17	2.22	2.28	2.32
2.50	2.08	2.30	2.46	2.52	2.57	2.61	2.66	2.71	2.77
2.75	2.38	2.61	2.72	2.79	2.85	2.91	2.97	3.02	3.09
3.00	2.62	2.83	2.97	3.06	3.13	3.19	3.25	3.32	3.39
3.25	2.95	3.11	3.22	3.29	3.36	3.42	3.46	3.52	3.58
3.50	3.13	3.23	3.46	3.53	3.58	3.65	3.71	3.78	3.85
3.75	3.30	3.53	3.72	3.78	3.84	3.90	3.96	4.00	4.07
4.00	3.57	3.77	3.97	4.05	4.12	4.20	4.27	4.34	4.41
	Nominal Pressure			Rated Burst Pressure					

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20 | YEARS OF PROVEN RESULTS

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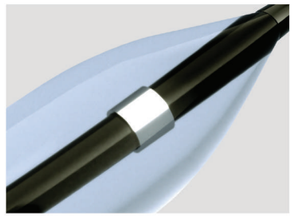
Designed for precision, performance, and reliability in complex PCI



VasTrack: Workhorse Semi-Compliant Balloon Catheter

Vas Track semi-compliant workhorse balloon catheter is engineered to deliver exceptional pushability, trackability, and crossability, making it ideal for challenging coronary interventions. Specifically designed for pre-dilation in de novo and restenotic lesions, as well as for normal balloon angioplasty.

Targets pre-dilation in de novo, restenotic lesions with a reference vessel diameter of 1.00 mm to 4.00mm and length ≤ 42 mm.

Key System Attributes:

- **Superior Crossability & Trackability:**
  A combination of low-profile tip design, optimized shaft construction, and hydrophilic coating enable smooth navigation through tortuous anatomy, enhances push force transmission, ensuring reliable lesion access.
- **Enhanced Procedural Control:**
  The unique stainless steel hypo tube construction ensures outstanding torque response, push ability, and trackability, giving the operator precise control from the guide catheter to the lesion.
- **High Pressure Dilation:**
  Semi-complaint balloon with lowered wall thickness enables better adaptation to the structure of lesions without compromising safety, and provides controlled expansion with balanced compliance. Controlled expansion up to a Rated Burst Pressure (RPB) of 16 atm.
- **Superior Visibility:**
  Dual platinum-iridium marker bands offer excellent radiopacity for clear, unambiguous positioning under fluoroscopy.

Advanced Engineering for Clinical Excellence

This page details the core technical features of the Catheter system and their direct clinical benefits during an angioplasty procedure.

1. Lesion Crossing & System Deliverability

Feature	Technical Detail	Clinical Benefit
Tapered Tip Design	4 mm tapered tip length with a leading entry profile of **0.019″**.	Provides an atraumatic, low-profile leading edge for effortless crossing of occluded lesions.
Optimized Balloon Fold	Tri-fold balloon technology results in a minimal crossing profile, ranging from **≤ 0.024″** to **≤ 0.036″.**	Ensures the smallest possible profile for navigating occluded lesions, then re-folds uniformly for smooth withdrawal.
Hydrophilic Coating	The distal outer shaft is coated with a medical-grade hydrophilic layer.	Reduces friction against vessel walls and device lumens, enhancing catheter advancement and trackability.
Advanced Shaft Construction	A unique stainless steel 304 hypotube transitions to a flexible distal shaft **(2.3Fr to 2.6Fr).**	Facilitates a seamless transfer of force from the operator's hand, providing superior push ability for precise maneuverability through complex vasculature.

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2. Controlled & Powerful Dilation

Feature	Technical Detail	Clinical Benefit
Semi-Compliant Balloon	Fabricated from a pressure, puncture-resistant nylon material (USP Class VI).	Delivers predictable, uniform dilation at high pressures (up to **16 atm RBP**), ensuring full lesion expansion for pre-dilation procedures in calcified and fibrotic tissue while minimizing the risk of "dog-boning"
High-Pressure Capability	Nominal Pressure (NP) of **8 atm** and a Rated Burst Pressure (RBP) of **16 atm.**	Provides the necessary force to effectively dilate lesions, in preparation for stent deployment and/or standard predilation.
Optimized Inflation	The **2.3 to 2.6 Fr** distal shaft diameter is engineered for efficient lumen flow.	Facilitates rapid and uniform balloon inflation (**<10** seconds) for reduced procedure time and patient discomfort.

3. Enhanced Visualization & Usability

Feature	Technical Detail	Clinical Benefit
High-Definition Markers	Dual **Platinum-Iridium** radiopaque marker bands are embedded at the balloon shoulders.	Offers exceptional radiopacity for clear and precise visualization under fluoroscopy, ensuring accurate balloon placement relative to the lesion and stent.
Rapid Exchange System	Industry-standard Workhorse design with a **142 cm** total working length.	Enables single-operator use, simplifies wire management, and allows for faster catheter exchanges, improving overall procedural efficiency.

Compliance Chart

This chart illustrates the semi-compliant nature of the Vastrack balloon, showing minimal diameter growth from Nominal to Rated Burst Pressure, ensuring predictable and controlled dilation