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Princeton Medical Scientific Co.,Ltd
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Company >>>

Princeton Medical Scientific is a rapidly growing manufacturer of minimally invasive medical devices, with QMS standard certified by ISO13485:2003.

Established in 2011, Princeton Medical Scientific offers a comprehensive portfolio of coronary and peripheral dilatation balloon catheters, braided/coiled tubes as well as other OEM/ODM products and services to prestigious clients, who have placed their trust in our expertise and quality products.



OEM



OEM Product and Service

OEM PRODUCT AND SERVICE

Princeton Medical Scientific is an ISO13485:2003 certified, and full-service OEM / ODM Contract Manufacturer of minimally invasive interventional medical devices.

We can take your products from concept through the phases of design and development, prototyping and testing all the way to production, packaging and sterilization of semi or fully finished products that meet the requirements under ISO standards and Good Manufacturing Practices (GMP).

OUR FULLY INTEGRATED MANUFACTURING PLANT OFFERS

- Class 10,000 and 100,000 Clean Rooms
- Research & Development
- EtO Sterilization
- Quality Control
- Quality Assurance
- Functional Quality Control testing Laboratories
- Microbiological / Biological Analysis Laboratories

OEM Product and Service

Your best business partner in cost management

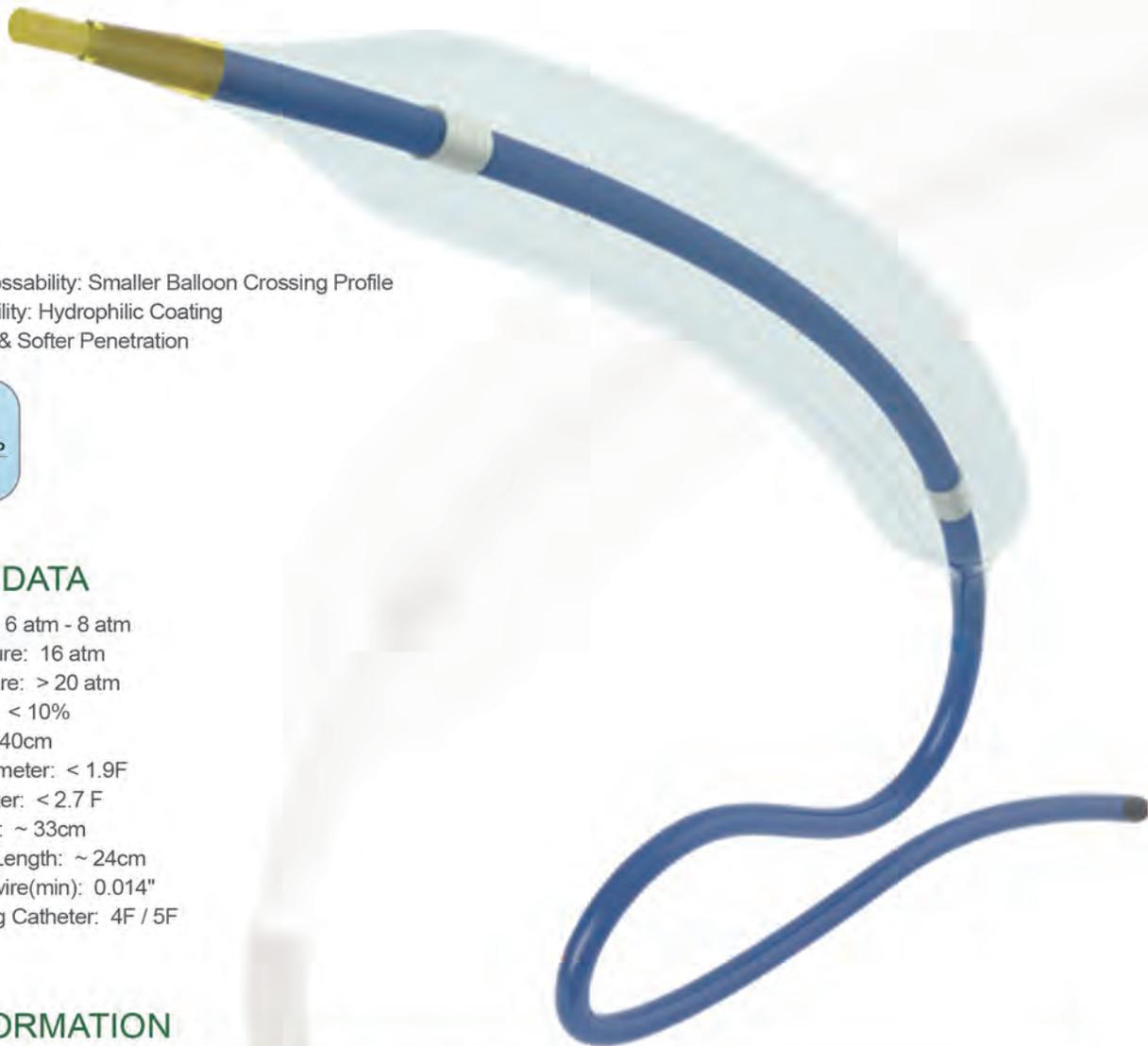
- Stent delivery system
- Stent graft
- EP catheter
- Balloon Catheter
- Interventional Sheath



Precedent™

Rx Pre-dilatation PTCA Balloon Catheter

Designed for all the lesions



FEATURES

- Higher Level of Crossability: Smaller Balloon Crossing Profile
- Enhanced Trackability: Hydrophilic Coating
- Soft Tip: Ultra Low & Softer Penetration



TECHNICAL DATA

- Nominal Pressure: 6 atm - 8 atm
- Rated Burst Pressure: 16 atm
- Mean Burst Pressure: > 20 atm
- Mean Compliance: < 10%
- Effective Length: 140cm
- Proximal Shaft Diameter: < 1.9F
- Distal Shaft Diameter: < 2.7 F
- Distal Shaft Length: ~ 33cm
- Guidewire Lumen Length: ~ 24cm
- Compatible Guidewire(min): 0.014"
- Compatible Guiding Catheter: 4F / 5F
- Balloon Fold: 3

ORDER INFORMATION

Precedent™ Rx Pre-dilatation PTCA Balloon Catheter							
Balloon Diameter(mm)	Balloon Length(mm)						
	9	12	14	16	20	24	30
1.0	6401009	6401012	6401014	6401016	6401020	-	-
1.5	6401509	6401512	6401514	6401516	6401520	-	-
2.0	6402009	6402012	6402014	6402016	6402020	-	-
2.5	6402509	6402512	6402514	6402516	6402520	6402524	6402530
2.75	6427509	6427512	6427514	6427516	6427520	6427524	6427530
3.0	6403009	6403012	6403014	6403016	6403020	6403024	6403030
3.5	6403509	6403512	6403514	6403516	6403520	6403524	6403530
4.0	6404009	6404012	6404014	6404016	6404020	6404024	6404030

Principal™

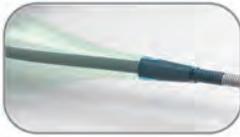


OTW & Rx PTA Balloon Catheter

The effective solution to leg ischemia

FEATURES

- Soft and Tapered tip: Easy Navigation to All the Stenotic sites
- Excellent Crossability: 0.014" guidewire compatibility
- Excellent Pushability: OTW design
- Wide range of selection: 1.5 mm - 4.0 mm in Diameter and 20 mm - 210 mm in Length



TECHNICAL DATA

- Nominal Pressure: 6 atm
- Rated Burst Pressure: 16 atm
- Mean Compliance: < 10%
- Compatible Guidewire: 0.014" / 0.018" / 0.035"
- Compatible Guiding Catheter: 4F / 5F / 6F
- Balloon Fold: 3 / 5 / 6

ORDER INFORMATION

Principal™ PTA Balloon Catheter (Above the Knee -80cm Shaft Length)					
Balloon Diameter(mm)	Balloon Length(mm)				
	20	40	80	120	150
3.0	65030020081	65030040081	65030080081	65030120081	65030150081
3.5	65035020081	65035040081	65035080081	65035120081	65035150081
4.0	65040020081	65040040081	65040080081	65040120081	65040150081
5.0	65050020081	65050040081	65050080081	65050120081	65050150081
6.0	65060020081	65060040081	65060080081	65060120081	65060150081
7.0	65070020081	65070040081	65070080081	-	-
8.0	65080020081	65080040081	65080080081	-	-
9.0	65090020081	65090040081	65090080081	-	-
10.0	65100020081	65100040081	65100080081	-	-

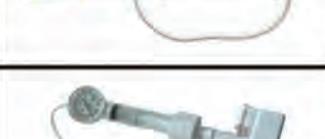
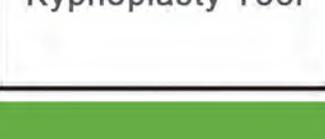
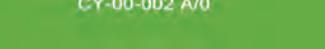
Principal™ PTA Balloon Catheter (Above the Knee -130cm Shaft Length)					
Balloon Diameter(mm)	Balloon Length(mm)				
	20	40	80	120	150
3.0	65030020131	65030040131	65030080131	65030120131	65030150131
3.5	65035020131	65035040131	65035080131	65035120131	65035150131
4.0	65040020131	65040040131	65040080131	65040120131	65040150131
5.0	65050020131	65050040131	65050080131	65050120131	65050150131
6.0	65060020131	65060040131	65060080131	65060120131	65060150131
7.0	65070020131	65070040131	65070080131	-	-
8.0	65080020131	65080040131	65080080131	-	-
9.0	65090020131	65090040131	65090080131	-	-
10.0	65100020131	65100040131	65100080131	-	-

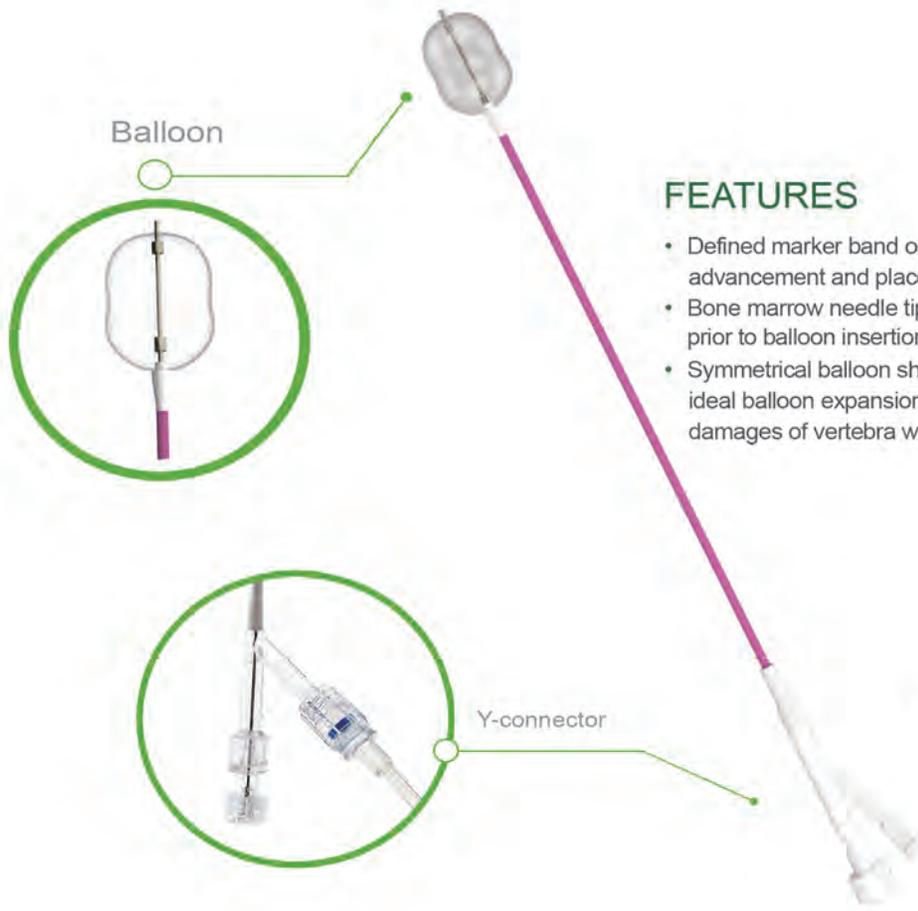
Principal™ OTW/ Rx PTA Balloon Catheter (Below the Knee- 120cm Shaft Length)					
Balloon Diameter(mm)	Balloon Length(mm)				
	20	40	80	120	150
1.5	66015020121/2	-	-	-	-
2.0	-	66020040121/2	66020080121/2	66020120121/2	66020150121/2
2.5	-	66025040121/2	66025080121/2	66025120121/2	66025150121/2
3.0	-	66030040121/2	66030080121/2	66030120121/2	66030150121/2
4.0	-	66040040121/2	66040080121/2	66040120121/2	66040150121/2

Principal™ OTW/ Rx PTA Balloon Catheter (Below the Knee -150cm Shaft Length)					
Balloon Diameter(mm)	Balloon Length(mm)				
	20	40	80	120	150
1.5	66015020121/2	-	-	-	-
2.0	-	66020040151/2	66020080151/2	66020120151/2	66020150151/2
2.5	-	66025040151/2	66025080151/2	66025120151/2	66025150151/2
3.0	-	66030040151/2	66030080151/2	66030120151/2	66030150151/2
4.0	-	66040040151/2	66040080151/2	66040120151/2	66040150151/2

Principal™ OTW/ Rx PTA Balloon Catheter (Below the Knee -120cm Shaft Length & Tapered Tip)	
Balloon Diameter(mm)	Balloon Length(mm)
1.5/2.0	66152210121/2
2.0/2.5	66225210121/2
2.5/3.0	66253210121/2
3.0/3.5	66335210121/2
3.5/3.0	66353210121/2

[[Remarks]] Please note OTW or Rx when place the order.

	FA0851	Bone Filler I Flat Tip Φ3.5mm		FA0841	Puncture Needle I Diamond Tip Φ3.0mm
	FA0852	Bone Filler II Bevel Tip Φ3.5mm		FA0842	Puncture Needle II Diamond Tip Φ4.2mm
	FA0853	Bone Filler III Groove Tip Φ3.5mm		FA0843	Puncture Needle III Straight Tip Φ4.2mm
	FA0854	Bone Filler IV One Side Groove Tip Φ3.5mm		FA0844	Puncture Needle IV Bevel Tip Φ4.2mm
	FA0831	Kyphoplasty Tool Kit 1*Dilator 1 1*Working Cannula I		FA0831	Kyphoplasty Tool Kit 1*Dilator 1 1*Working Cannula I
	FA0832	Kyphoplasty Tool Kit 1*Dilator 1 1*Working Cannula II		FA0832	Kyphoplasty Tool Kit 1*Dilator 1 1*Working Cannula II
	FA0811	Guide Wire System Round Wire System Φ1.6mm		FA03001-01	Balloon Catheter Φ14mm Balloon length=10mm Pressure 300psi VOL4ml
	FA0812	Guide Wire System Diamond Wire System Φ1.6mm		FA03001-02	Balloon Catheter Φ14mm Balloon length=15mm Pressure 300psi VOL4ml
	FA08121	Bone Drill Φ3.6mm		FA03001-03	Balloon Catheter Φ16mm Balloon length=20mm Pressure 300psi VOL6ml
	FA08503	Bone Filler V Zigzag Tip Φ3.5mm		FA10001	Inflation Device 30ATM 20ml
One-Step Kyphoplasty Tool	FA0801	1*Bone Drill 2*Puncture Needle II 4*Bone Filler And Bone Filler Pusher	Two-Step Kyphoplasty Tool	FA0801	1*Bone Drill 2*Puncture Needle I 6*Bone Filler And Bone Filler Pusher 1*Guidewire(Roundtip) 1*Guidewire(trocartip) 2*Working Cannula I



FEATURES

- Defined marker band on the shaft can help to identify the proper advancement and placement of the balloon
- Bone marrow needle tip is designed for accurate channel creation prior to balloon insertion
- Symmetrical balloon shape and atraumatic tip contribute to ideal balloon expansion and cavity formation to avoid consequent damages of vertebra wall

TECHNICAL DATA

- Balloon Diameter: 6mm
- Balloon Length: 10mm/15mm/20mm
- Psi Rating: 300psi
- Working Cannula Diameter (Max): 4.2mm



Step1: Balloon insertion



Step2: Balloon inflation



Step3: Cavity creation



Step4: Filling the cavity with bone cement

ORDER INFORMATION

Balloon Catheter						
Model	Type	Balloon Length (±0.5mm)	Balloon Diameter (±0.5mm)	Usable Length (±5mm)	Marker Position (±3mm)	Maximum Volume (ml)
FA03001-01	6mm×10mm	10mm	6mm	220mm	160	4
FA03001-02	6mm×15mm	15mm	6mm	220mm	160	4
FA03001-03	6mm×20mm	20mm	6mm	220mm	160	6

Braided/Coiled Tubing

The tubing professional to meet all your demands

APPLICATIONS

- Angiography catheters
- Electrophysiology catheters
- Delivery catheters
- Stent catheters
- Steering mechanism assemblies
- PTCA/PTA guiding catheters
- High-pressure injection lines
- Kink resistant sheaths

DIMENSIONS

- OD range: 2 Fr (0.026", 0.66mm) through 30 Fr (0.315", 8.00mm)
- Wall thickness: 0.005" (0.13mm) - 0.038" (0.97mm)

FILLERS

- Barium sulfate ($BaSO_4$)
- Bismuth trioxide (Bi_2O_3)
- Bismuth subcarbonate (Bi_2CO_3)
- Tungsten (W)

FILLER LOADING

- Highest 80% (Tungsten)

BRAID CONSTRUCTION

- Reinforcement Types:
 - 304 Stainless Steel
 - 316 Stainless Steel
 - MP-35
 - Polyester
 - Nylon
 - Nitinol
 - Peek
- Wire Pattern:
 - Maximum PPI: 250
- Wire size:
 - Round: 0.001" (0.025mm) - 0.004" (0.10mm)
 - Flat: 0.0005" x 0.003" (0.013mm x 0.08mm) - 0.002" x 0.007" (0.05mm x 0.18mm)
- Tensile Strength:
 - As specified by customer

BRAIDED CATHETER SHAFT DESIGN

- Fluoropolymer-Lined, Braid-Reinforced Catheter Shaft Design



VALUE-ADDED CAPABILITIES

- Thermal tip stem bonding
- Insert molding
- Tip bonding
- Drilling

BRAID PATTERNS

- Regular Braid Pattern
- Diamond Braid Pattern
- Diamond Braid Pattern, Half Load

OEM

Interventional Sheath

Aid to fast and smooth enter into all lesions



Technical Data

Sheath OD (outside diameter)	3Fr~24Fr
Tolerance of inner and outer diameter	+/-0.01~0.05
Maximum length of sheath	2600mm
Tensile strength of sheath	30N~300N
Torsional performance	80%~100%
Minimum radius of curvature	10mm
Elongation	0~5%
Hardness	40D~72D
Developing materials	PtIr、Ta、BaSO ₄ 、W、Bi ₂ O ₃
Tube material	PTFE/Pebax/PE/Nylon/PU/SUS/PtIr
Strengthen the structure	Coil /Braided/Nylon wire
Surface treatment	Hydrophilic coating
Product Categories	Vascular sheath/ Urethral sheath/ Guiding catheter/ Microcatheter