

Inert Peripheral Balloon

Expandable Stent System

TECHNICAL SPECIFICATIONS

Stent Material	Carbon-ion Inert Stainless Steel
Recommended Guidewire	0.035" (0.89 mm)
Nominal Pressure	6 bar
Rated Burst Pressure (RBP)	10 bar to 15 bar, depending on diameter
Entry Tip Profile	min 1.20 mm (0.047")
Crossover Profile	min 1.97 mm (0.078")
Balloon Characteristic	Semi-compliant
Balloon Material	Lubricant free PA-Co-polymer
X-ray marker	One marker at each balloon end, proximal and distal
Stent Design	Multi cellular laser cut (slotted tube) electro polished
Foreshortening	As low as 3.6%
Recoil	As low as 1.4%

ORDER INFORMATION

Usable catheter length **75 cm**

Diameter (mm)	Stent Length (mm) Balloon Length (mm)				
	18 20	28 30	38 40	48 50	58 60
5.00	07PBX05018	07PBX05028	07PBX05038	07PBX05048	07PBX05058
6.00	07PBX06018	07PBX06028	07PBX06038	07PBX06048	07PBX06058
7.00	07PBX07018	07PBX07028	07PBX07038	07PBX07048	07PBX07058
8.00	07PBX08018	07PBX08028	07PBX08038	07PBX08048	07PBX08058
9.00	07PBX09018	07PBX09028	07PBX09038	07PBX09048	07PBX09058
10.00	07PBX10018	07PBX10028	07PBX10038	07PBX10048	07PBX10058
12.00	07PBX12018	07PBX12028	07PBX12038	07PBX12048	07PBX12058

Usable catheter length **115 cm**

Diameter (mm)	Stent Length (mm) Balloon Length (mm)				
	18 20	28 30	38 40	48 50	58 60
5.00	11PBX05018	11PBX05028	11PBX05038	11PBX05048	11PBX05058
6.00	11PBX06018	11PBX06028	11PBX06038	11PBX06048	11PBX06058
7.00	11PBX07018	11PBX07028	11PBX07038	11PBX07048	11PBX07058
8.00	11PBX08018	11PBX08028	11PBX08038	11PBX08048	11PBX08058
9.00	11PBX09018	11PBX09028	11PBX09038	11PBX09048	11PBX09058
10.00	11PBX10018	11PBX10028	11PBX10038	11PBX10048	11PBX10058
12.00	11PBX12018	11PBX12028	11PBX12038	11PBX12048	11PBX12058

Usable catheter length **150 cm**

Diameter (mm)	Stent Length (mm) Balloon Length (mm)				
	18 20	28 30	38 40	48 50	58 60
5.00	15PBX05018	15PBX05028	15PBX05038	15PBX05048	15PBX05058
6.00	15PBX06018	15PBX06028	15PBX06038	15PBX06048	15PBX06058
7.00	15PBX07018	15PBX07028	15PBX07038	15PBX07048	15PBX07058
8.00	15PBX08018	15PBX08028	15PBX08038	15PBX08048	15PBX08058
9.00	15PBX09018	15PBX09028	15PBX09038	15PBX09048	15PBX09058
10.00	15PBX10018	15PBX10028	15PBX10038	15PBX10048	15PBX10058
12.00	15PBX12018	15PBX12028	15PBX12038	15PBX12048	15PBX12058



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BRO_ IPB Rev A

Peripheral Vascular

Inert Peripheral Balloon

Expandable Stent System

Inert Carbon Technology
Femoral, Iliac and Renal Arteries

Regulatory Status
CE Mark Approved

Inert Peripheral Balloon

Expandable Stent System

The Inert Peripheral Balloon Expandable Stent System is indicated for the treatment of peripheral arteries with diameter between 5.0 mm - 12 mm.

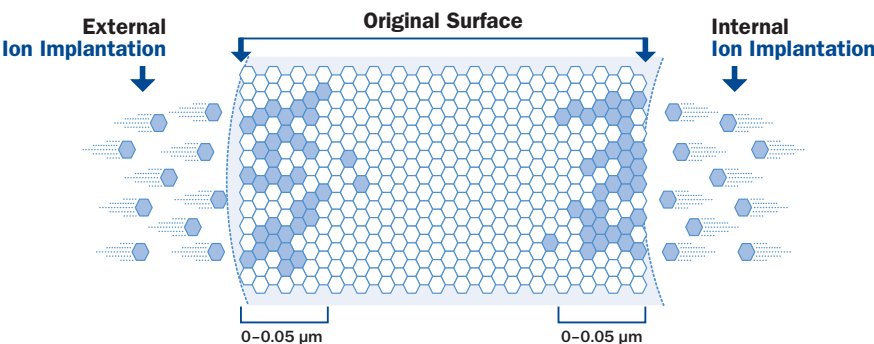
De novo and restenotic peripheral arteries e.g. External iliac, internal iliac, common iliac, superficial femoral, deep femoral profunda and renal arteries.

BENEFITS

- > Precision and ease of use
- > Flexible stent design
- > High radial strength
- > Soft, tapered balloon tip for less trauma
- > Good accessibility and high pushability across the lesion

INERT CARBON TECHNOLOGY

High speed bombardment of C⁺-ions under vacuum onto alloy's surface



Under vacuum conditions carbon ions are shot with high load of energy on the stent surface, so that the ions are implanted within the metal lattice under the alloy's surface.

COMPLIANCE TABLE

Pressure (bar)	Balloon Diameter (mm)						
	5.00	6.00	7.00	8.00	9.00	10.00	12.00
4	4.85	5.75	6.80	7.75	8.60	9.65	11.60
5	4.95	5.90	6.90	7.85	8.80	9.85	11.80
6	5.00	6.00	7.00	8.00	9.00	10.00	12.00
7	5.10	6.10	7.10	8.15	9.20	10.15	12.20
8	5.20	6.25	7.20	8.25	9.40	10.35	12.40
9	5.30	6.35	7.35	8.40	9.60	10.50	12.60
10	5.40	6.45	7.45	8.50	9.80	10.65	12.80
11	5.50	6.60	7.55	8.65	10.00	10.85	13.05
12	5.60	6.70	7.65	8.80	10.20	11.00	13.25
13	5.70	6.80	7.75	8.90	10.40	11.15	-
14	5.80	6.95	7.90	9.05	10.60	11.35	-
15	5.85	7.05	8.00	9.20	10.75	-	-
16	5.95	7.15	-	-	-	-	-
17	6.05	-	-	-	-	-	-
Nominal pressure	6	6	6	6	6	6	6
RBP	15	14	13	13	13	12	10
Minimum sheath (ID)	6 F	6 F	7 F	7 F	8 F	8 F	8 F

Carbon ions are shot with high energy under vacuum onto the stent's surface with subsequent penetration. This means carbon ions take free places or displace heavy metal ions like molybdenum or nickel within the lattice.

Since carbon is the most abounded element and physically incorporated within each body cell it makes up a high degree of bio-compatibility and consequently confers this feature to the alloy. The penetrating depth of the carbon is max. 50 nm.