

PRO-Kinetic Energy Explorer

Balloon-Expandable Cobalt Chromium Stent/0.014"/Rx
Indicated for infrapopliteal arteries



- Double helix stent design for excellent flexibility
- Versatile stent material allowing for optimal radial strength characteristics with ultra-thin struts structure
- **proBIO** coating for improved stent surface biocompatibility¹
- Trusted balloon technology ensuring first class trackability and pushability

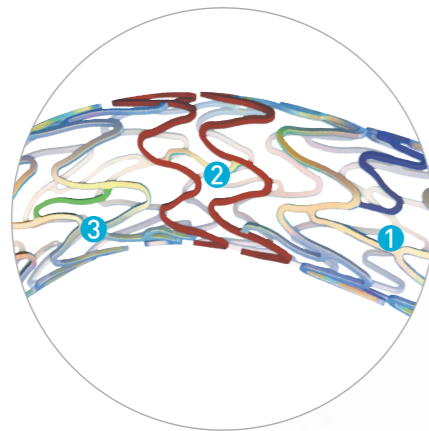
¹ Rzany A, Schaldach M. 2001. Progress in Biomedical Research 2001 May: 182-194.

PRO-Kinetic Energy Explorer

Excellence in material and stent design

The PRO-Kinetic Energy Explorer stent offers exceptional bending flexibility without compromising scaffolding or fatigue resistance. The advanced double helix design creates a smooth outer contour during bending without ridged transition zones. Every element of the design contributes to the stent's excellent performance:

- 1 Wedge-shaped transitions** at the stent ends allow for consistent scaffolding throughout the entire length of the stent.
- 2 Helical meanders** give flexibility to the stent for excellent delivery while leaving a smooth crimped profile.
- 3 Longitudinal connectors** provide stability for optimal scaffolding and support without sacrificing flexibility.



Thermal crimping technology

Thermal crimping techniques have been developed to ensure secure stent retention forces as well as a smooth, low crossing profile.



Ultra thin struts design

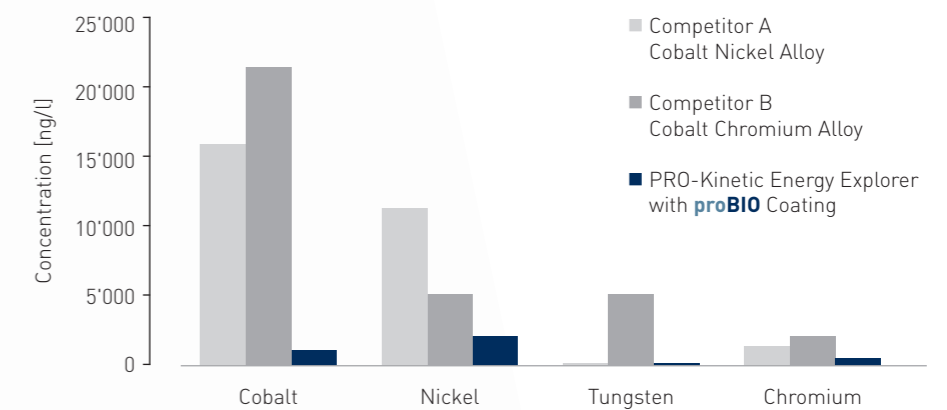
Struts of only 60 µm² result in exceptional flexibility and deliverability of the stent in even the most challenging anatomy.

Engineered in every detail

Improved stent surface biocompatibility

proBIO silicon carbide coating acts as a diffusion barrier, sealing the bare metal surface and reducing ion release. In vitro studies have shown up to a 96 % reduction of allergenic metal ions³ when the stent surface is coated with silicon carbide.

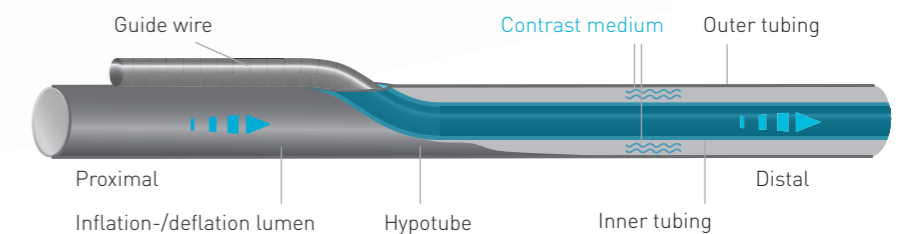
By providing a barrier against ion release, the silicon carbide coating creates a surface that reduces platelet aggregation while facilitating endothelialization.⁴



Innovative stent delivery system

The stent delivery system is built on trusted balloon technologies and provides excellent deliverability and placement accuracy. The soft tapered balloon tip eases crossing lesions and 1 mm balloon markers enable precise stent placement. Furthermore the Enhanced Force Transmission Shaft (EFT) adds pushability and kink resistance.

EFT shaft construction



² 2.0 mm - 3.0 mm stents

³ BIOTRONIK data on file; ⁴ Rzany A, Schalldach M. 2001. Progress in Biomedical Research 2001 May; 182-194.

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Technical Data		Stent	
Stent		Balloon-expandable	
Stent material		Cobalt Chromium (L605)	
Strut thickness		ø 2.0 - 3.0 mm: 60 µm (0.0024"); ø 3.5 - 4.0 mm: 80 µm (0.0031"); ø 4.5 - 5.0 mm: 120 µm (0.0047")	
Stent coating		proBIO (Amorphous Silicon Carbide)	
Sizes		ø 2.0 - 5.0 mm; L: 9 - 15 - 20 - 30 - 40 mm	
		Delivery system	
Catheter type		Rapid exchange (Rx)	
Recommended guide wire		0.014"	
Tip		Soft, tapered, colored	
Balloon markers		2 swaged markers	
Shaft		Hydrophilic coating (distal shaft)	
Usable length		140 cm	
Nominal pressure (NP)		9 atm	
Rated burst pressure (RBP)		16 atm (2.0 - 4.0 mm); 14 atm (4.5 - 5.0 mm)	

Compliance Chart		Balloon diameter x length (mm)						
		ø 2.0 x 9-20	ø 2.5 x 9-20	ø 3.0 x 9-30	ø 3.5 x 9-30	ø 4.0 x 9-30	ø 4.5 x 15-40	ø 5.0 x 15-40
Nominal Pressure (NP)	atm*	9	9	9	9	9	9	9
	ø (mm)	2.00	2.50	3.00	3.50	4.00	4.50	5.00
Rated Burst Pressure (RBP)	atm*	16	16	16	16	16	14	14
	ø (mm)	2.33	2.83	3.42	4.07	4.65	5.11	5.63

* 1 atm = 1.013 bar

Ordering Information	Stent ø (mm)	Catheter length 140 cm Stent length (mm)				
		9	15	20	30	40
	2.00	371436	371452	371470	-	-
	2.50	371438	371454	371472	-	-
	3.00	371440	371456	371474	371491	-
	3.50	371441	371457	371475	371492	-
	4.00	371442	371458	371476	371493	-
	4.50	-	371459	371477	371494	371500
	5.00	-	371460	371478	371495	371501

4F

PRO-Kinetic Energy Explorer is part of the BIOTRONIK **4F** Solutions portfolio, including:

- Introducer Sheath: **Fortress** ■ Guide Wires: **Cruiser, Cruiser-18**
- Balloons: **Passeo-14, Passeo-18** ■ Stents: **Pulsar-18**

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