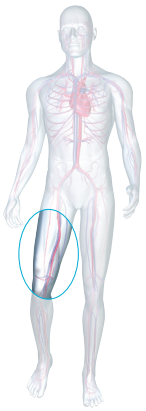
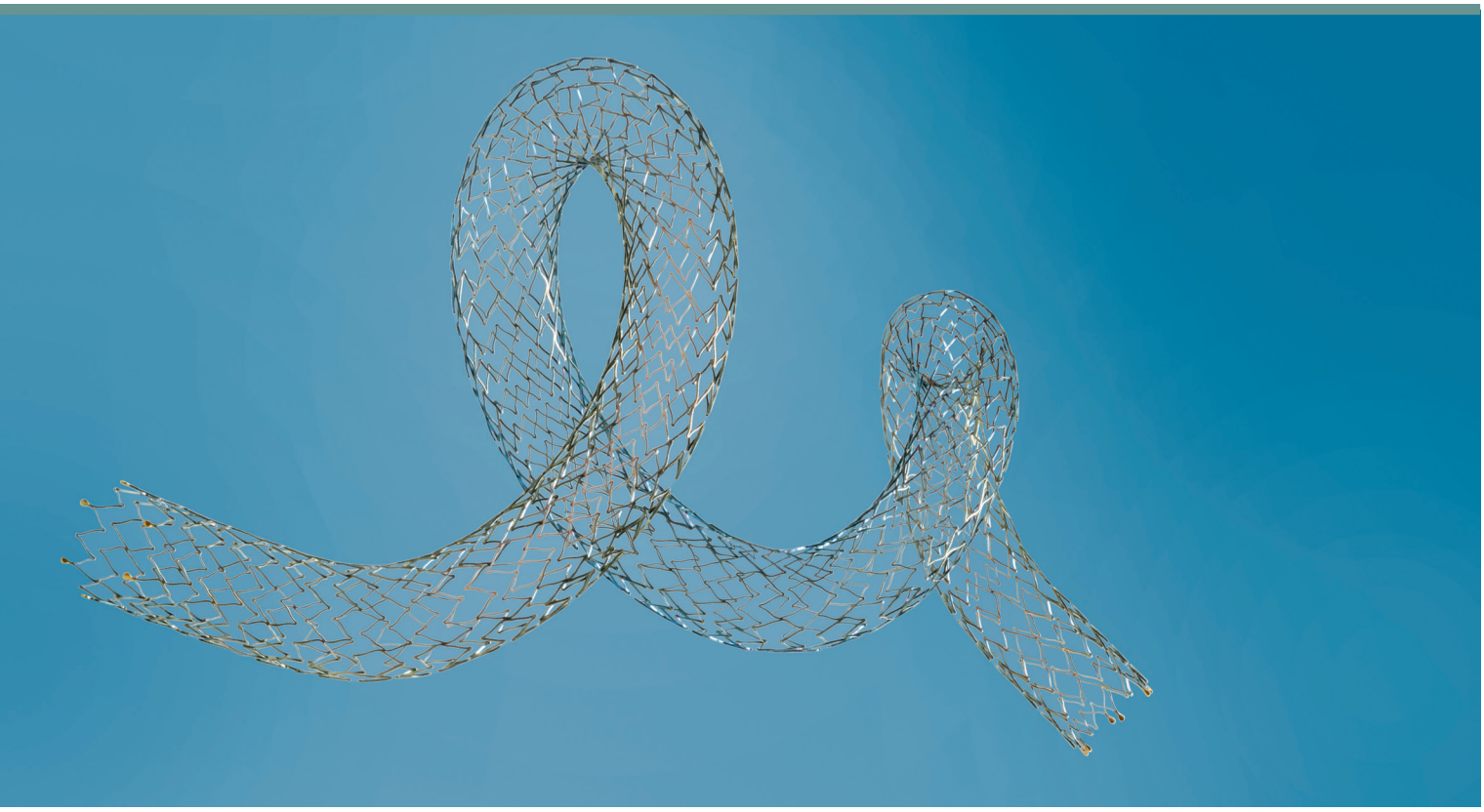
Pulsar-35

Self-expanding stent/0.035"/OTW
Indicated for femoral and proximal popliteal arteries





- One-handed stent release for accurate stent deployment
- Tri-axial shaft for a stable delivery system during stent deployment
- S-articulating connecting bars and peak-to-valley design for multi-directional flexibility
- Segmented stent design with thin struts for lower restenosis rates

6F Solutions

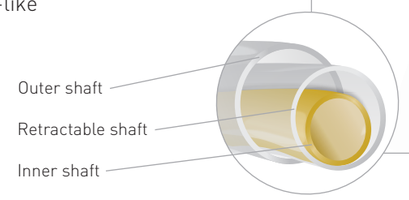
BIOTRONIK
excellence for life

Pulsar-35
Deliverability where it matters

Being a relatively mobile artery, the SFA requires a stent that conforms to the natural vessel movement and provides sufficient support in complex, long lesions that are often difficult to cross. Pulsar-35 is a stent designed for SFA with high multi-directional flexibility on a tri-axial delivery system.

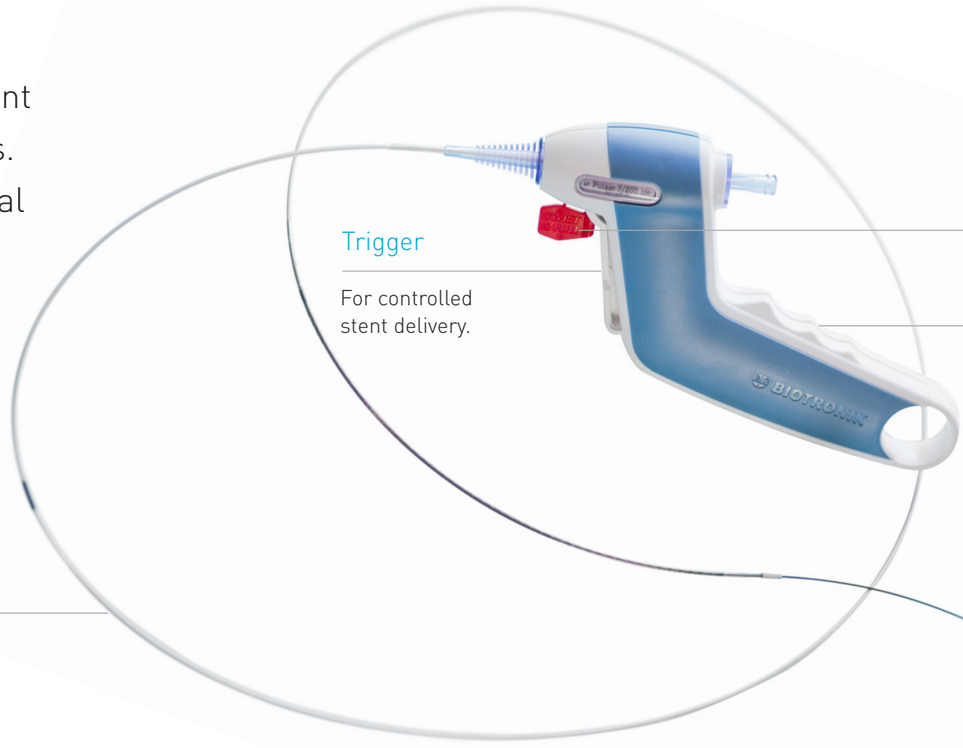
Tri-axial outer shaft

Isolates retractable shaft from friction caused by introducer valve, aimed at ensuring precision-like implantation accuracy.



Tri-axial catheter shaft

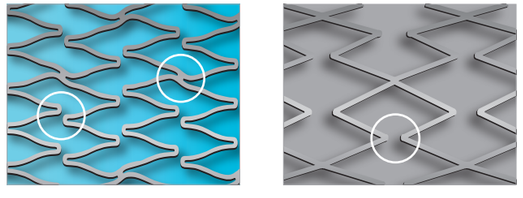
Stent designed to achieve radial force and flexibility required by SFA



Stent designed for SFA

- Peak-to-valley design and S-articulating connecting bars provide multi-directional flexibility and avoid fish-scaling in mobile vessel architecture.
- A segmented design with thin struts provides low Chronic Outward Force (COF)[1] sufficient to maintain vessel scaffolding even in calcified lesions (4EVER study[2]). High COF has been shown to result in higher rates of neointimal hyperplasia[3].
- Stent lengths up to 170 mm for covering long lesions with a single stent.

Pulsar Peak-to-Valley vs. Competitive Peak-to-Peak



Peak-to-Valley S-articulating

Peak-to-Peak

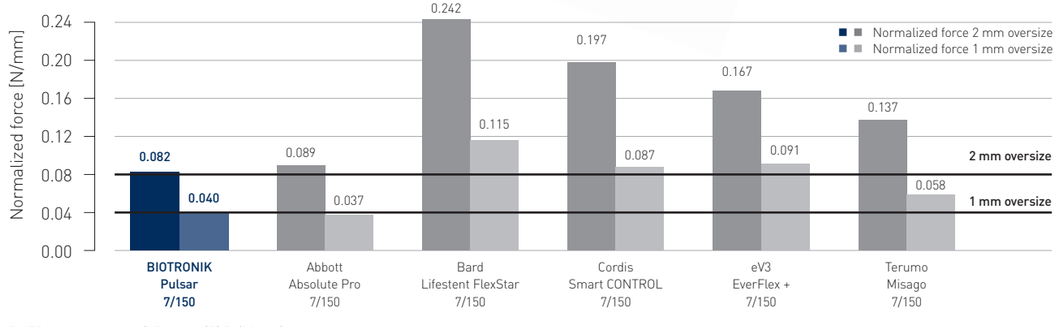
[1] BIOTRONIK data on file (IIB report (P) 71/2011-1)

[2] 4EVER study. Bosiers. M. 24m results presented CIRSE 2013; Deloose K. 24m results presented LINC 2014

[3] ▪ Ballyk PD. Intramural stress increases exponentially with stent diameter: a stress threshold for neointimal hyperplasia. J Vasc Interv Radiol. 2006 Jul; 17(7): 1139-45.
▪ Freeman JW, Snowhill PB, Nosher JL. A link between stent radial forces and vascular wall remodeling: the discovery of an optimal stent radial force for minimal vessel restenosis. Connect Tissue Res. 2010 Aug; 51(4): 314-26.
▪ Zhao HQ, Nikanorov A, Virmani R, Jones R, Pacheco E, Schwartz LB. Late stent expansion and neointimal proliferation of oversized Nitinol stents in peripheral arteries. Cardiovasc Intervent Radiol. 2009 Jul; 32(4): 720-6.

Low chronic outward force

Low Chronic Outward Force (COF)[1] sufficient to maintain vessel scaffolding even in calcified lesions (4EVER study[2]). As shown below, COF of Pulsar stents increases less than many competitor stents when oversized, thus potentially reducing inflammatory response and restenosis[3].



BIOTRONIK data on file (IIB report (P) 71/2011-1)

Pulsar-35

Self-expanding stent/0.035"/OTW

Technical Data

Stent	
Catheter type	OTW
Recommended guide wire	0.035"
Stent material	Nitinol
Strut thickness	140 µm
Strut width	85 µm
Stent coating	**proBIO** (Amorphous Silicon Carbide)
Stent markers	6 gold markers each end
Sizes	ø 5.0 - 7.0 mm; L: 30 - 170 mm
Proximal shaft	6F, hydrophobic coating
Usable length	90 and 135 cm

Ordering Information

Stent ø (mm)	Catheter length 90 cm Stent length (mm)							
	30	**40**	**60**	**80**	**100**	**120**	**150**	**170**
5.0	379878	379879	379880	379881	379917	379918	379919	379920
6F **6.0**	379883	379884	379885	379886	379922	379923	379924	379925
7.0	379888	379889	379890	379891	379927	379928	379929	379930

Stent ø (mm)	Catheter length 135 cm Stent length (mm)							
	30	**40**	**60**	**80**	**100**	**120**	**150**	**170**
5.0	379898	379899	379900	379901	379937	379938	379939	379940
6F **6.0**	379903	379904	379905	379906	379942	379943	379944	379945
7.0	379908	379909	379910	379911	379947	379948	379949	379950

Pulsar-35 is part of the BIOTRONIK 6F Solutions portfolio, including:
■ Introducer Sheath: **Fortress** ■ Balloons: **Passeo-35, Passeo-35 HP, AngioSculpt** ■ Stents: **Dynamic, Astron**

For ordering please contact your local sales representative

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