Pinnacle®

Introducer Sheaths

IMPROVE OUTCOMES AND REDUCE COMPLICATIONS

A comprehensive line of uniquely-designed products

TERUMO
INTERVENTIONAL SYSTEMS

Pinnacle®
Introducer Sheaths

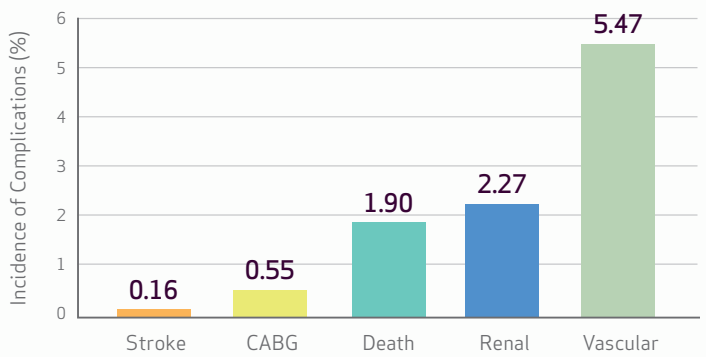
AIM TO **IMPROVE** CLINICAL AND OPERATIONAL **OUTCOMES**

Femoral access site bleeding is the #1 complication in percutaneous coronary intervention (PCI)[1]

The average femoral bleeding complication can lead to:

- Additional 2-6 days in hospital[2]
- Incurred cost of $6,377 for major and minor bleeding[1]

Complications in Femoral Access Procedures[1]



Vascular complications occur more often than all other complications combined in femoral access procedures.

MicroAccess

Pinnacle® Precision

Standard Sheaths

Pinnacle®
Pinnacle® TIF TIP™

PUSHING BOUNDARIES

Terumo Interventional Systems is **committed to your success** with innovative procedural solutions and ongoing support for your most challenging cases.

We are relentlessly seeking new ways to help you apply effective solutions and achieve **better outcomes for more patients.**

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RX ONLY. Refer to the product labels and package insert for complete warnings, precautions, potential complications, and instructions for use.

References:

1. Kugelmass AD, Cohen DJ, Brown PP, et al. *Am J Cardiol*. 2006;97(3):322-327. **2.** Aguirre FV, Gill JB. *J Invasive Cardiol*. 2002;14(suppl B):48B-54B. **3.** Pinto DS, Stone GW, Shi C, et al. *J Am Coll Cardiol*. 2008;52(22):1758-1768. **4.** Criado FJ. *Vasc Dis Manage*. 2009;6(1):28-29. **5.** Data on file. MAK Design Verification Report #20110024 5/23/11. **6.** Data on file. Pinnacle Precision Access System Competitor Evaluation Report #20170018. **7.** Data on file. Pinnacle and Pinnacle TIF Tip Competitor Evaluation Report #20170019. **8.** Data on file. Pinnacle R/O II Competitor Evaluation Report #20170020. **9.** Data on file. Pinnacle R/OII HiFlo Competitor Evaluation Report #20170021.

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TERUMO INTERVENTIONAL SYSTEMS

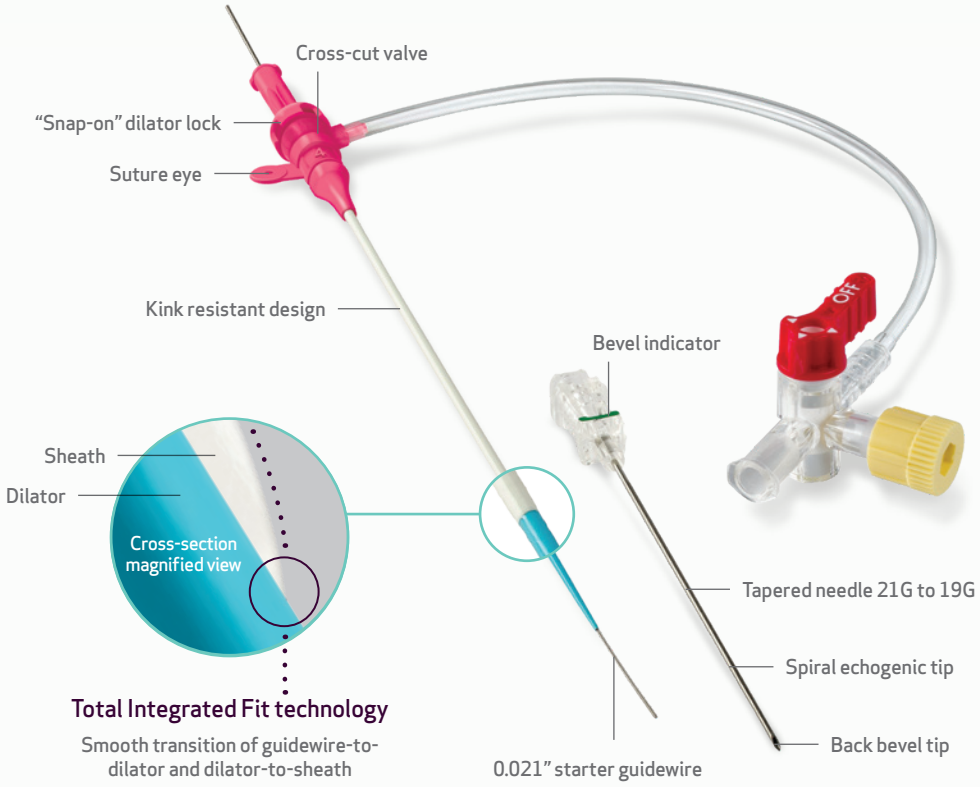
Pinnacle® Precision

Access System

Help achieve smooth atraumatic vascular access through calcified or scarred arteries[5]

Competitive sheath requires 77% higher insertion force than Total Integrated Fit (TIF) technology[6]

- Tapered needle enables transitions from 21G tip to 19G shaft for better blood return
- Back bevel cuts help to facilitate a straighter entry[5]
- Greater rail strength to prevent buckling with the only 0.021" wire on the market[6]
- Seamless guidewire-to-dilator and dilator-to-sheath transition for challenging access situations[6]
- Highly flexible design resists kinking and helps reduce complications[6]



PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

TERUMO INTERVENTIONAL SYSTEMS

Pinnacle® Precision
Access System

ORDERING INFORMATION

Packed 10 per box and includes dilator. All dilators are 0.021" wire compatible.

PINNACLE® PRECISION ACCESS SYSTEM® Sheath			
CODE	SHEATH SIZE (Fr)	WIRE	NEEDLE
70-4160	4	Nitinol	Echogenic
70-4130	4	Stainless Steel	Echogenic
70-5160	5	Nitinol	Echogenic
70-5130	5	Stainless Steel	Echogenic
70-6160	6	Nitinol	Echogenic
70-6130	6	Stainless Steel	Echogenic
70-7160	7	Nitinol	Echogenic
70-7130	7	Stainless Steel	Echogenic
70-8160	8	Nitinol	Echogenic
70-8130	8	Stainless Steel	Echogenic
70-4165	4 Stiff*	Nitinol	Echogenic
70-4135	4 Stiff*	Stainless Steel	Echogenic
70-5165	5 Stiff*	Nitinol	Echogenic
70-5135	5 Stiff*	Stainless Steel	Echogenic

**Includes a stiff dilator for greater pushability*

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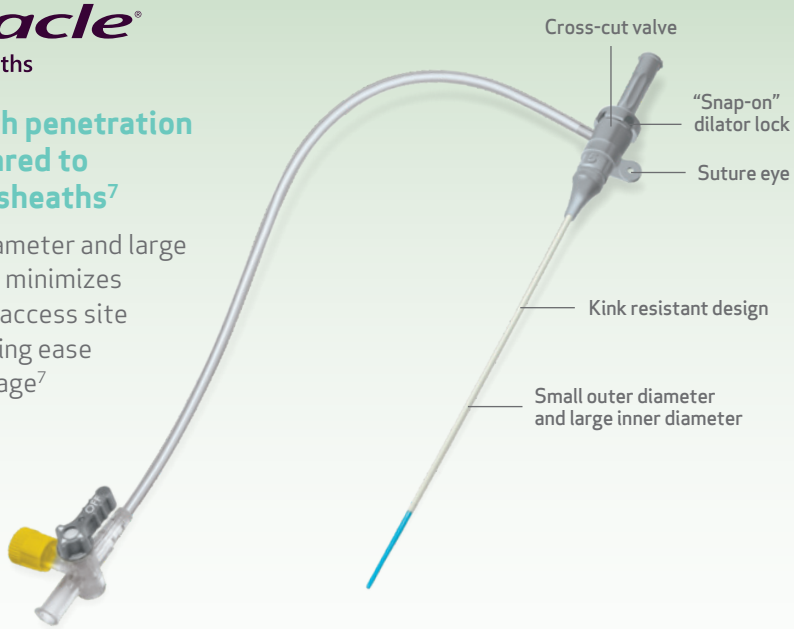
Pinnacle®
Introducer Sheaths

Lower sheath penetration force compared to competitor sheaths[7]

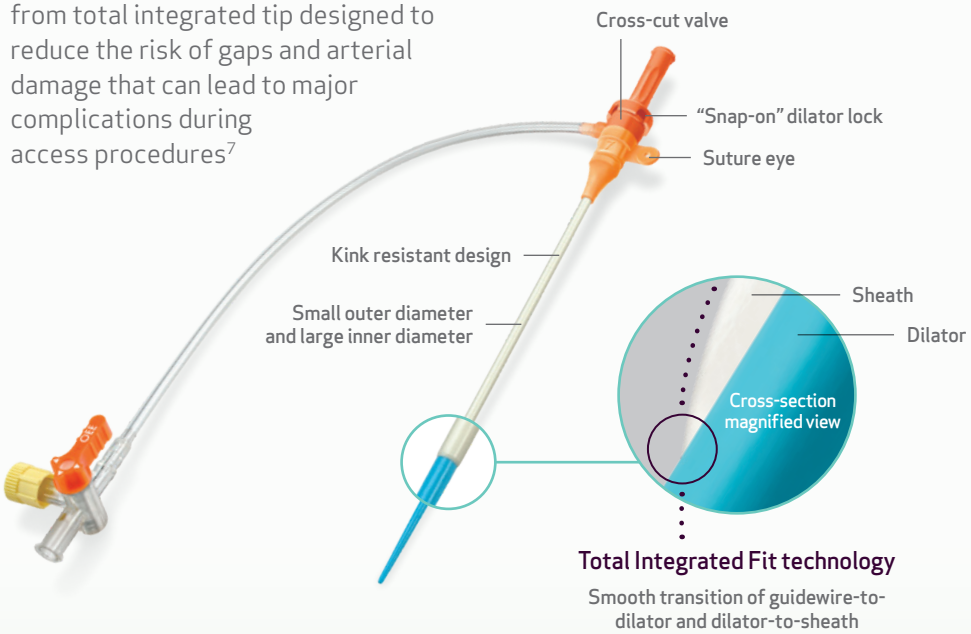
Small outer diameter and large inner diameter minimizes the size of the access site while maintaining ease of device passage[7]



Pinnacle® TIF TIP™
Introducer Sheaths

Total Integrated Fit (TIF) technology requires less penetration force than comparable sheaths[7]

TIF technology provides smooth transitions from total integrated tip designed to reduce the risk of gaps and arterial damage that can lead to major complications during access procedures[7]



PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

TERUMO INTERVENTIONAL SYSTEMS

Pinnacle® Introducer Sheaths

Pinnacle® TIF TIP™ Introducer Sheaths

ORDERING INFORMATION

Packed 10 per box and includes dilator. All dilators are 0.038" wire compatible.

PINNACLE® Introducer Sheaths Coronary Applications

CODE	LENGTH (cm)	INNER DIAMETER	MINI GUIDEWIRE DIAMETER	MINI GUIDEWIRE LENGTH
RSS402	10	4	.035*	45
RSS502	10	5	.038*	45
RSS602	10	6	.038*	45
RSS702	10	7	.038*	45
RSS802	10	8	.038*	45
RSS902	10	9	.038*	45
RSS002	10	10	.038*	45
RSS102	10	11	.038*	45
RSS404	10	4	—	—
RSS504	10	5	—	—
RSS604	10	6	—	—
RSS704	10	7	—	—
RSS804	10	8	—	—
RSS904	10	9	—	—
RSS004	10	10	—	—
RSS104	10	11	—	—
RSS506	25	5	—	—
RSS606	25	6	—	—
RSS706	25	7	—	—
RSS806	25	8	—	—
RSS906	25	9	—	—
RSS006	25	10	—	—
RSS106	25	11	—	—

PINNACLE® Introducer Sheaths Peripheral Applications

CODE	LENGTH (cm)	INNER DIAMETER	MINI GUIDEWIRE DIAMETER	MINI GUIDEWIRE LENGTH
RSS401	10	4	.035*	45
RSS501	10	5	.035*	45
RSS601	10	6	.035*	45
RSS701	10	7	.035*	45
RSS801	10	8	.035*	45
RSS901	10	9	.035*	45
RSS001	10	10	.035*	45
RSS101	10	11	.035*	45
RSS403	10	4	—	—
RSS503	10	5	—	—
RSS603	10	6	—	—
RSS703	10	7	—	—
RSS803	10	8	—	—
RSS903	10	9	—	—
RSS003	10	10	—	—
RSS103	10	11	—	—
RSS505	25	5	—	—
RSS605	25	6	—	—
RSS705	25	7	—	—
RSS805	25	8	—	—
RSS905	25	9	—	—
RSS005	25	10	—	—
RSS105	25	11	—	—

Dilator Protuding Length = 2.5 cm

*Mini stainless steel spring coil guidewire included. Maximum guidewire compatible size: 0.035" for 4 Fr, 0.038" for all others

PINNACLE® TIF TIP™ Introducer Sheath

CODE	LENGTH (cm)	FRENCH SIZE	MINI GUIDEWIRE DIAMETER (in)
10-2031	10	5	0.035
10-2032	10	6	0.035
10-2033	10	7	0.035
10-2034	10	8	0.035

CODE	LENGTH (cm)	FRENCH SIZE	MINI GUIDEWIRE DIAMETER (in)
10-2531	10	5	0.038
10-2532	10	6	0.038
10-2533	10	7	0.038
10-2534	10	8	0.038

Dilator Protuding Length = 2.5 cm

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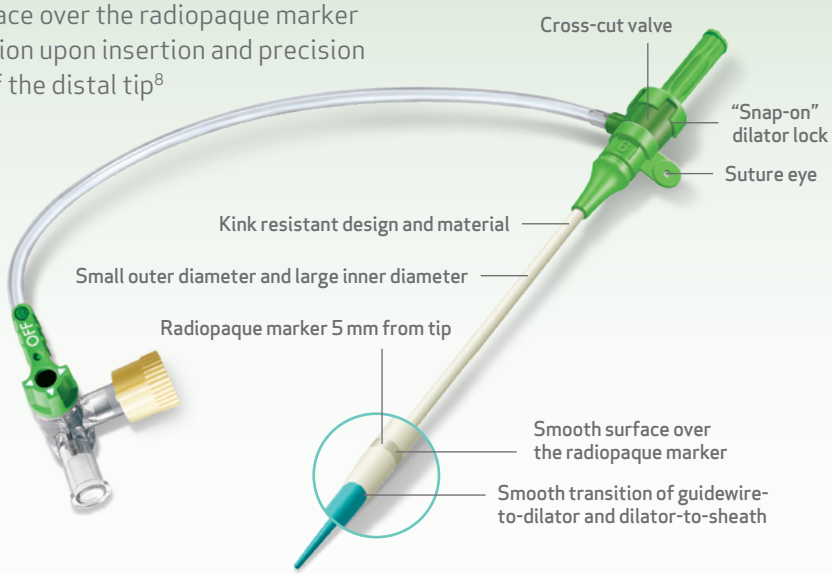
Pinnacle® R/O II

Radiopaque Marker Introducer Sheaths

Platinum/iridium radiopaque marker band is designed to enhance visibility

Smooth surface over the radiopaque marker reduces friction upon insertion and precision placement of the distal tip[8]

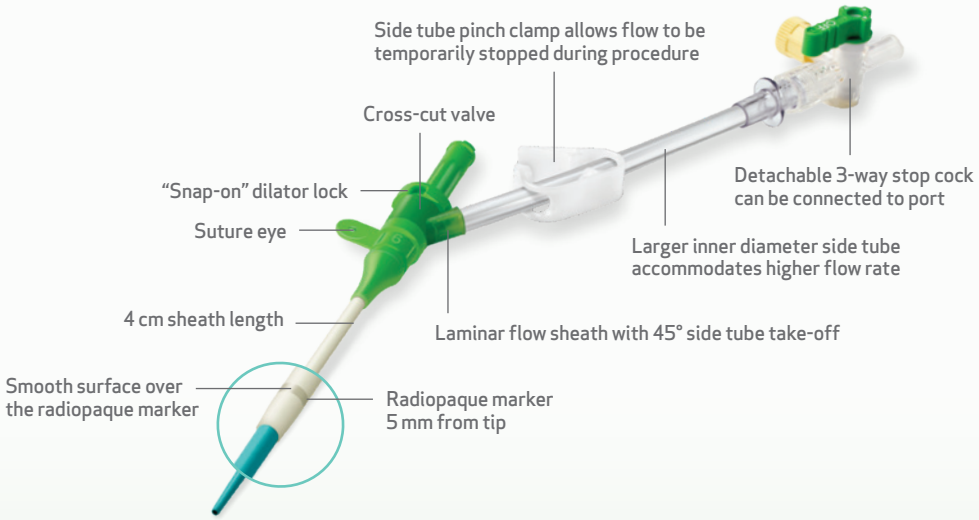


Pinnacle® R/O II HiFlo

Radiopaque Marker Introducer Sheaths

Higher flow rates with 45° side tube take-off provides smooth flow dynamic within the sheath[9]

Shorter 4 cm sheath and stiff dilator enhances pushability for easier and more efficient superficial access procedures[9]



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Pinnacle® R/O II
Radiopaque Marker Introducer Sheaths

Pinnacle® R/O II HiFlo
Radiopaque Marker Introducer Sheaths

ORDERING INFORMATION

Packed 10 per box and includes dilator. All dilators are 0.038" wire compatible.

PINNACLE® R/O II Radiopaque Marker Introducer Sheath

CODE	LENGTH (cm)	INNER DIAMETER (Fr)	DILATOR PROTRUDING LENGTH (cm)	MINI GUIDEWIRE DIAMETER (in)
RSB401	6	4	2.5	—
RSB501	6	5	2.5	—
RSB601	6	6	2.5	—
RSB701	6	7	2.5	—
RSB801	6	8	2.5	—
RSB901	6	9	2.5	—
RSB402	10	4	2.5	—
RSB502	10	5	2.5	—
RSB602	10	6	2.5	—
RSB702	10	7	2.5	—
RSB802	10	8	2.5	—
RSB902	10	9	2.5	—
RSB403	25	4	2.5	—
RSB503	25	5	2.5	—
RSB603	25	6	2.5	—
RSB703	25	7	2.5	—
RSB803	25	8	2.5	—
RSB903	25	9	2.5	—
RSB411	6	4	2.5	0.035
RSB511	6	5	2.5	0.038
RSB611	6	6	2.5	0.038
RSB711	6	7	2.5	0.038
RSB811	6	8	2.5	0.038
RSB911	6	9	2.5	0.038
RSB412	10	4	2.5	0.035
RSB512	10	5	2.5	0.038
RSB612	10	6	2.5	0.038
RSB712	10	7	2.5	0.038
RSB812	10	8	2.5	0.038
RSB912	10	9	2.5	0.038

PINNACLE® R/O II HiFlo Introducer Sheath

CODE	SHEATH SIZE (Fr)	SHEATH LENGTH (cm)	MAX GUIDEWIRE COMPATIBLE	SHORT GUIDEWIRE
RSB604H	6	4	0.038"	Spring 0.035''/40cm
RSB704H	7	4	0.038"	Spring 0.035''/40cm
RSB804H	8	4	0.038"	Spring 0.035''/40cm
RSB605H	6	4	0.038"	No Wire
RSB705H	7	4	0.038"	No Wire
RSB805H	8	4	0.038"	No Wire

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Pinnacle® Destination®

Guiding Sheath

Shapes and sizes to meet your diagnostic challenges[10]

Specially designed atraumatic tip

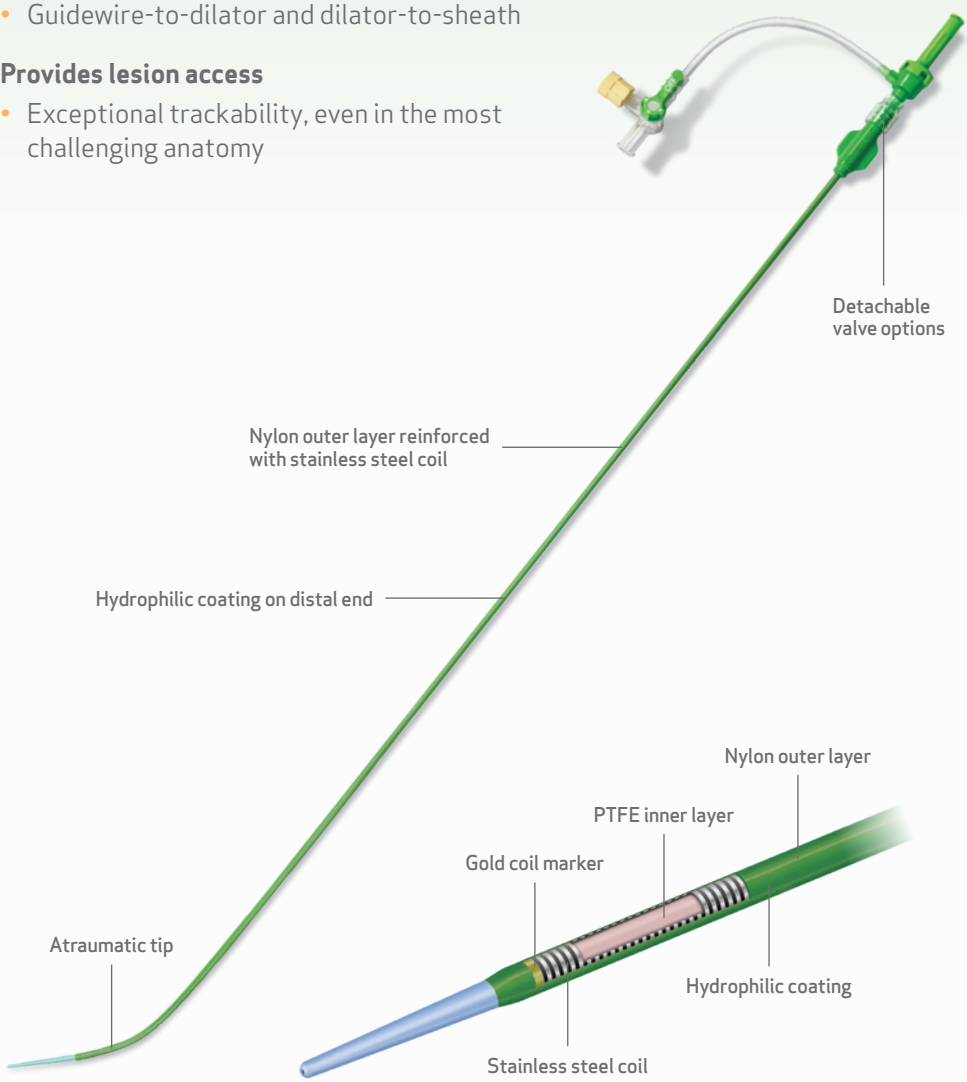
- Minimizes potential for vessel damage

Smooth transitions

- Guidewire-to-dilator and dilator-to-sheath

Provides lesion access

- Exceptional trackability, even in the most challenging anatomy



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Pinnacle® Destination®

Guiding Sheath

5 Fr	6 Fr	7 Fr	8 Fr
0.076" (1.92 mm)	0.087" (2.21 mm)	0.101" (2.57 mm)	0.115" (2.92 mm)

ORDERING INFORMATION

Packed 1 per box and includes dilator. All dilators are 0.038" wire compatible.

PINNACLE® DESTINATION Guiding Sheaths

FRENCH SIZE	PRODUCT CODE	LENGTH (cm)	HYDROPHILIC COATING LENGTH (cm)	VALVE TYPE	CURVE STYLE	CURVE SHAPE
5 Fr	54-54501	45	35	Cross-Cut	Straight	
	54-54502	45	5	Cross-Cut	Hockey Stick	
	54-54503	45	5	Cross-Cut	Multi-Purpose	
	54-54504	45	5	Cross-Cut	RDC	
6 Fr	54-64501	45	35	Cross-Cut	Straight	
	54-64506	45	35	Tuohy-Borst	Straight	
	RSR01	45	5	Cross-Cut	Straight	
	RSR02	45	5	Cross-Cut	Hockey Stick	
	RSR03	45	5	Cross-Cut	Multi-Purpose	
	RSR07	45	5	Tuohy-Borst	Straight	
	RSR08	45	5	Tuohy-Borst	Hockey Stick	
	RSR09	45	5	Tuohy-Borst	Multi-Purpose	
	RSR13	45	5	Cross-Cut	RDC	
	RSR14	45	5	Cross-Cut	LIMA	
	RSR17	45	5	Tuohy-Borst	RDC	
	RSR18	45	5	Tuohy-Borst	LIMA	
	RSP01	65	35	Cross-Cut	Straight	
	RSP03	65	35	Tuohy-Borst	Straight	
	RSC01	90	15	Tuohy-Borst	Straight	
	RSC03	90	15	Tuohy-Borst	Multi-Purpose	
	RSC05	90	15	Cross-Cut	Straight	
	RSC07	90	15	Cross-Cut	Multi-Purpose	
7 Fr	54-74501	45	35	Cross-Cut	Straight	
	54-74506	45	35	Tuohy-Borst	Straight	
	RSR04	45	5	Cross-Cut	Straight	
	RSR05	45	5	Cross-Cut	Hockey Stick	
	RSR06	45	5	Cross-Cut	Multi-Purpose	
	RSR10	45	5	Tuohy-Borst	Straight	
	RSR11	45	5	Tuohy-Borst	Hockey Stick	
	RSR12	45	5	Tuohy-Borst	Multi-Purpose	
	RSR15	45	5	Cross-Cut	RDC	
	RSR16	45	5	Cross-Cut	LIMA	
	RSR19	45	5	Tuohy-Borst	RDC	
	RSR20	45	5	Tuohy-Borst	LIMA	
	RSP02	65	35	Cross-Cut	Straight	
	RSP04	65	35	Tuohy-Borst	Straight	
	RSC02	90	15	Tuohy-Borst	Straight	
	RSC04	90	15	Tuohy-Borst	Multi-Purpose	
	RSC06	90	15	Cross-Cut	Straight	
	RSC08	90	15	Cross-Cut	Multi-Purpose	
8 Fr	54-84501	45	35	Cross-Cut	Straight	
	54-84506	45	35	Tuohy-Borst	Straight	
	54-86501	65	35	Cross-Cut	Straight	
	54-86506	65	35	Tuohy-Borst	Straight	
	54-89001	90	60	Cross-Cut	Straight	
	54-89006	90	60	Tuohy-Borst	Straight	

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