

***Pinnacle®***

Introducer Sheaths

# IMPROVE OUTCOMES AND REDUCE COMPLICATIONS

A comprehensive line of  
uniquely-designed products



**TERUMO**  
INTERVENTIONAL  
SYSTEMS

# **Pinnacle<sup>®</sup>**

Introducer Sheaths

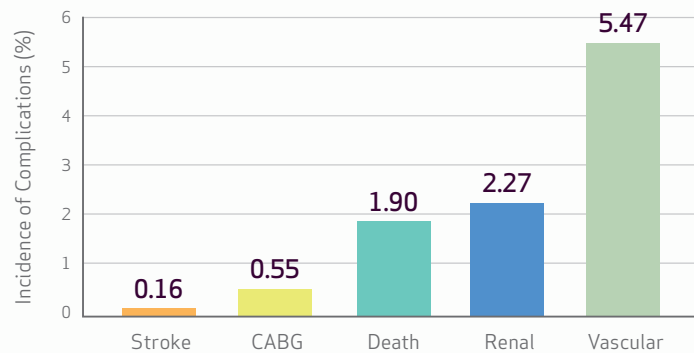
## AIM TO **IMPROVE** CLINICAL AND OPERATIONAL **OUTCOMES**

**Femoral access site bleeding is the #1 complication in percutaneous coronary intervention (PCI)<sup>1</sup>**

**The average femoral bleeding complication can lead to:**

- Additional 2-6 days in hospital<sup>2</sup>
- Incurred cost of \$6,377 for major and minor bleeding<sup>1</sup>

### Complications in Femoral Access Procedures<sup>1</sup>



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

#### MicroAccess

***Pinnacle<sup>®</sup> Precision***

#### Standard Sheaths

***Pinnacle<sup>®</sup>***  
***Pinnacle<sup>®</sup> TIF TIP<sup>™</sup>***



# 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.**

**FIND OUT MORE** ☎ Phone: 800.888.3786 🌐 [terumo.com](https://www.terumo.com)

**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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INTERVENTIONAL  
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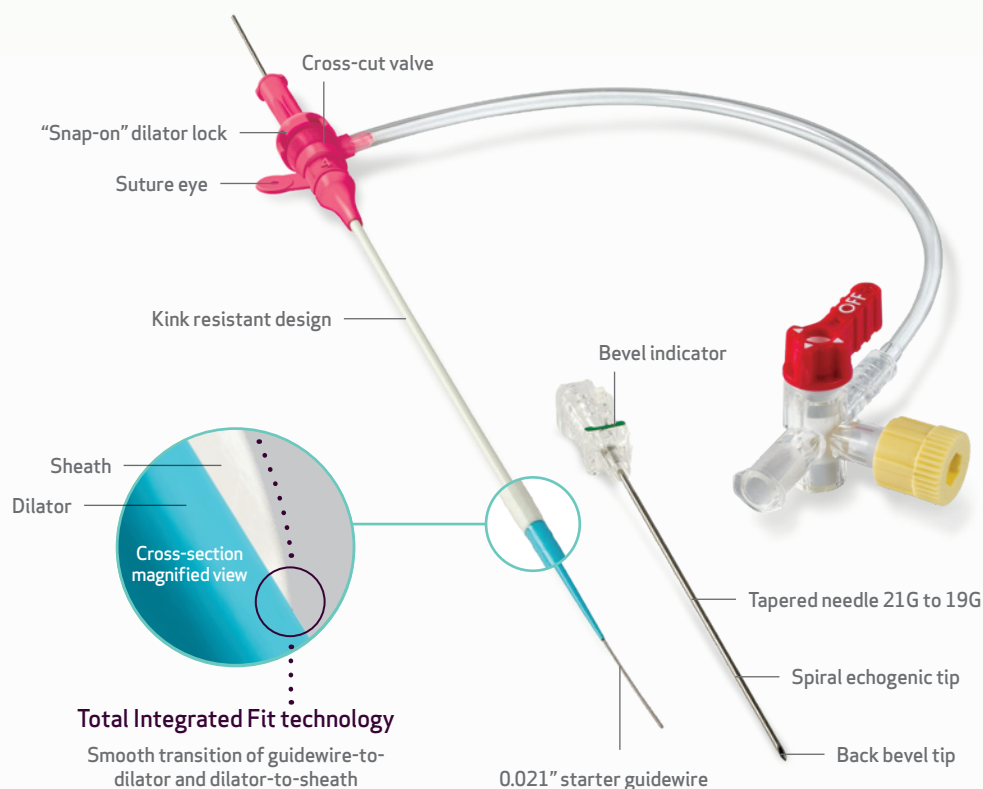
# *Pinnacle® Precision*

Access System

Help achieve smooth atraumatic vascular access through calcified or scarred arteries<sup>5</sup>

Competitive sheath requires 77% higher insertion force than Total Integrated Fit (TIF) technology<sup>6</sup>

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



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

# 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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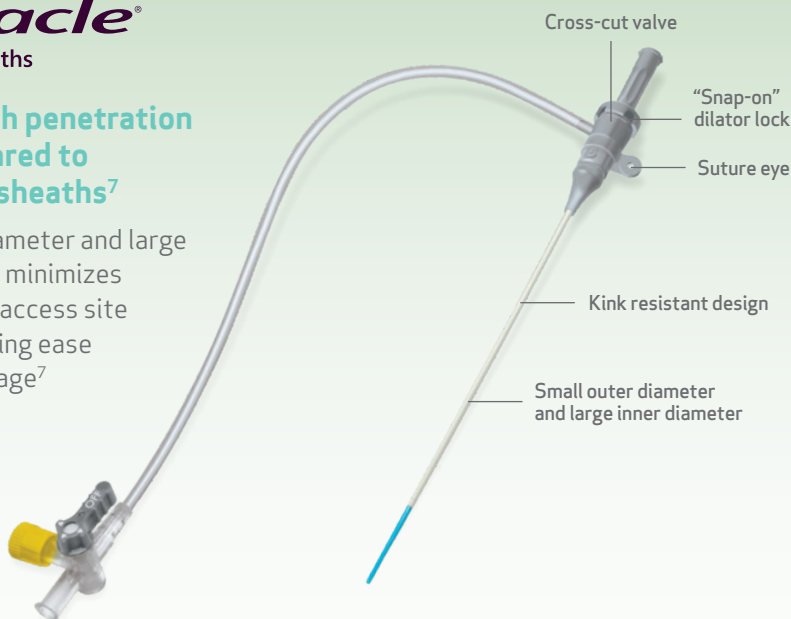


## Pinnacle®

### Introducer Sheaths

#### Lower sheath penetration force compared to competitor sheaths<sup>7</sup>

Small outer diameter and large inner diameter minimizes the size of the access site while maintaining ease of device passage<sup>7</sup>

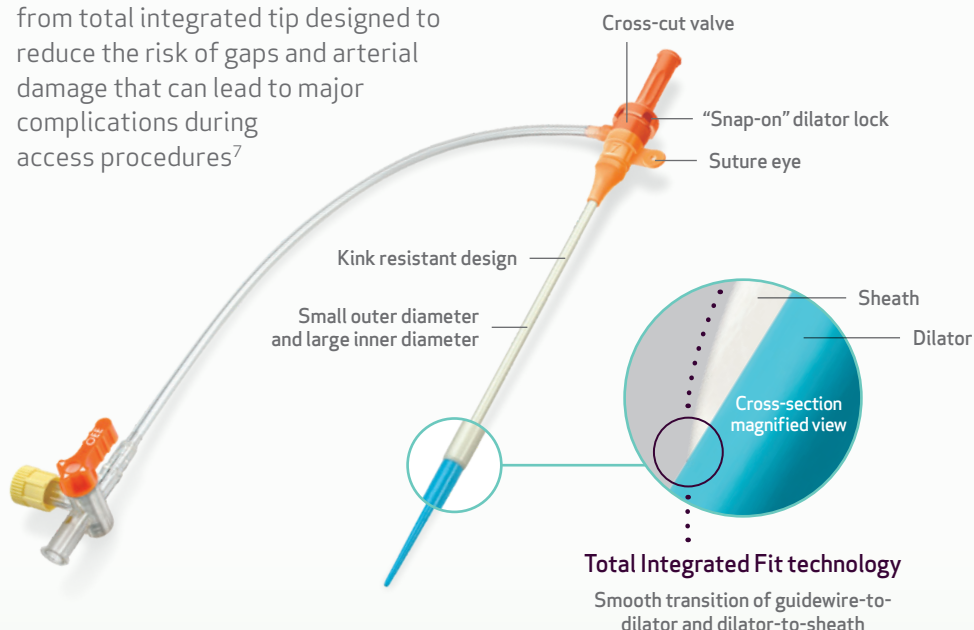


## Pinnacle® TIF TIP™

### Introducer Sheaths

#### Total Integrated Fit (TIF) technology requires less penetration force than comparable sheaths<sup>7</sup>

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<sup>7</sup>



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

**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<br>Coronary Applications |                |                   |                               |                             |
|-------------------------------------------------------|----------------|-------------------|-------------------------------|-----------------------------|
| CODE                                                  | LENGTH<br>(cm) | INNER<br>DIAMETER | MINI<br>GUIDEWIRE<br>DIAMETER | MINI<br>GUIDEWIRE<br>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<br>Peripheral Applications |                |                   |                               |                             |
|---------------------------------------------------------|----------------|-------------------|-------------------------------|-----------------------------|
| CODE                                                    | LENGTH<br>(cm) | INNER<br>DIAMETER | MINI<br>GUIDEWIRE<br>DIAMETER | MINI<br>GUIDEWIRE<br>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<br>(cm) | FRENCH<br>SIZE | MINI GUIDEWIRE<br>DIAMETER (in) | CODE    | LENGTH<br>(cm) | FRENCH<br>SIZE | MINI GUIDEWIRE<br>DIAMETER (in) |
| 10-2031                              | 10             | 5              | 0.035                           | 10-2531 | 10             | 5              | 0.038                           |
| 10-2032                              | 10             | 6              | 0.035                           | 10-2532 | 10             | 6              | 0.038                           |
| 10-2033                              | 10             | 7              | 0.035                           | 10-2533 | 10             | 7              | 0.038                           |
| 10-2034                              | 10             | 8              | 0.035                           | 10-2534 | 10             | 8              | 0.038                           |

Dilator Protuding Length = 2.5 cm

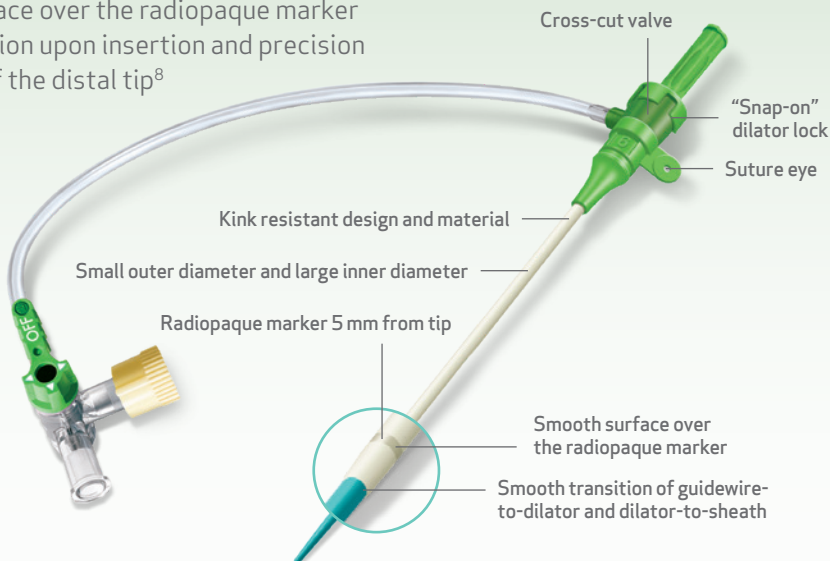
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## ***Pinnacle® R/O II***

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<sup>8</sup>

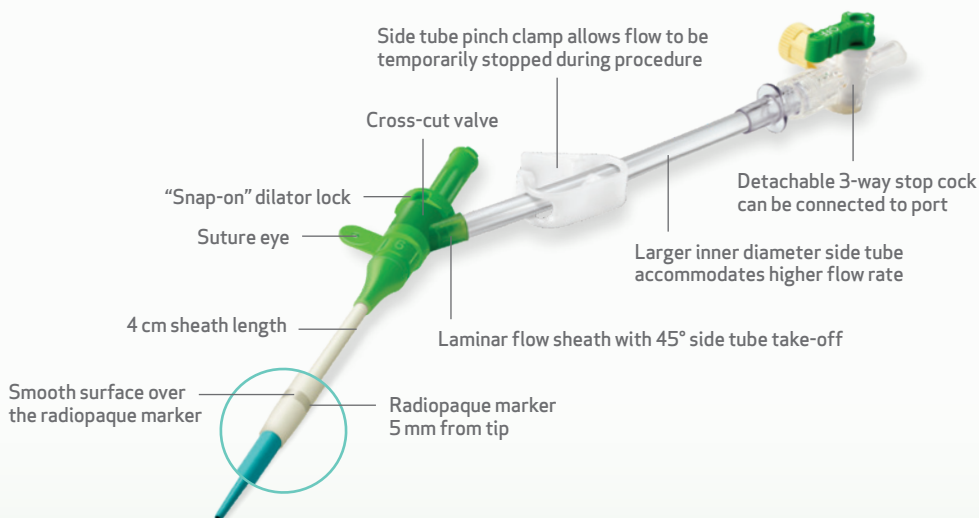


## ***Pinnacle® R/O II HiFlo***

Radiopaque Marker Introducer Sheaths

### Higher flow rates with 45° side tube take-off provides smooth flow dynamic within the sheath<sup>9</sup>

Shorter 4 cm sheath and stiff dilator enhances pushability for easier and more efficient superficial access procedures<sup>9</sup>



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



**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<sup>10</sup>**

## **Specially designed atraumatic tip**

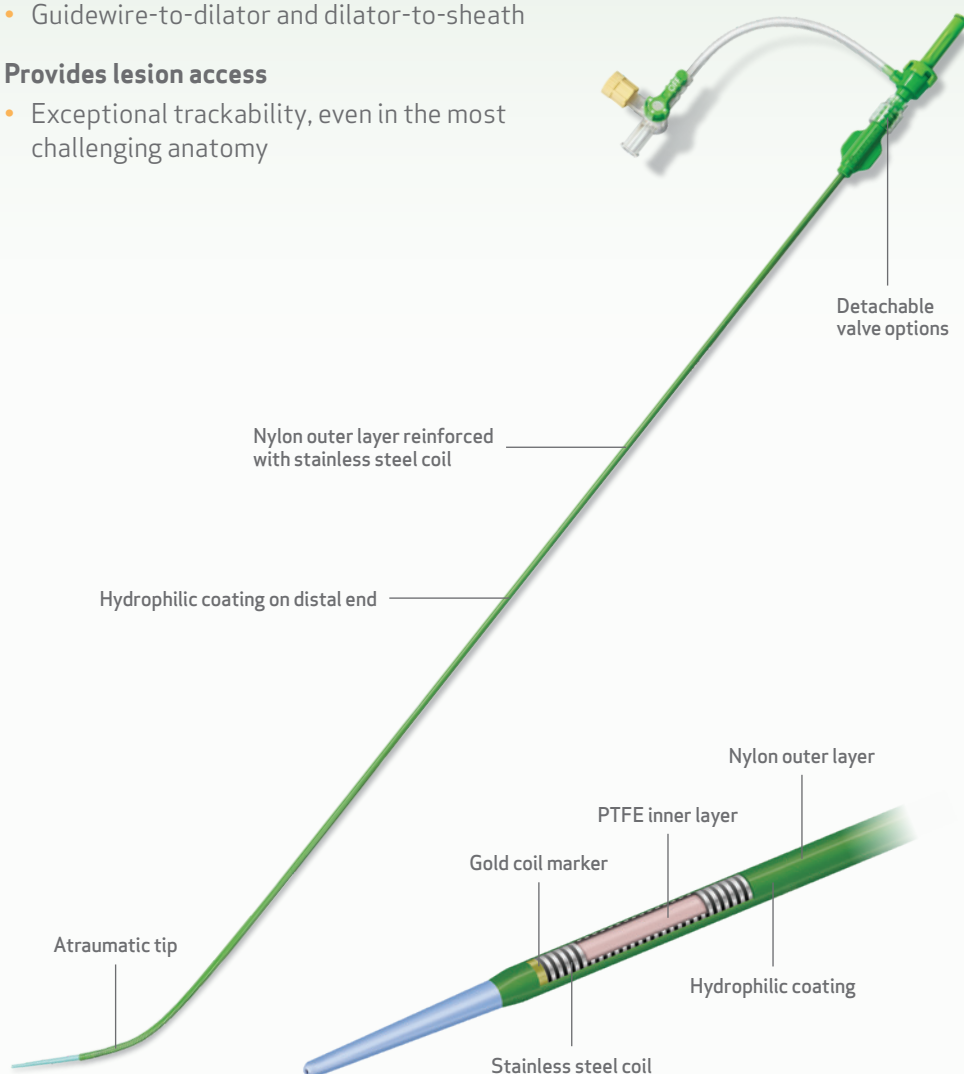
- Minimizes potential for vessel damage

## **Smooth transitions**

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

## **Provides lesion access**

- Exceptional trackability, even in the most challenging anatomy



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

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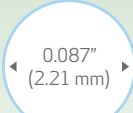
Pinnacle® Destination®

Guiding Sheath

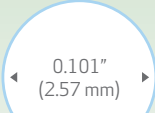
5 Fr



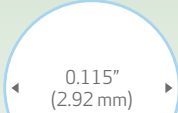
6 Fr



7 Fr



8 Fr



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 |             |
| 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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