

# Embosphere® MICROSPHERES



PREDICTABLE.  
TARGETED.  
ESTABLISHED.™



## PREDICTABLE

Embosphere Microspheres temporarily compress up to 33% for smooth microcatheter passage. Once through the microcatheter, they return to their original spherical shape and stated diameter for predictable, reliable delivery.<sup>1</sup>

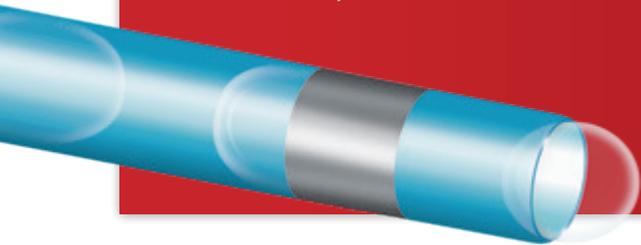
## TARGETED

Embosphere Microspheres show a direct correlation between the level of arterial occlusion and the size of the particles used, allowing for consistent and reliable targeted occlusion.<sup>2</sup>

## ESTABLISHED

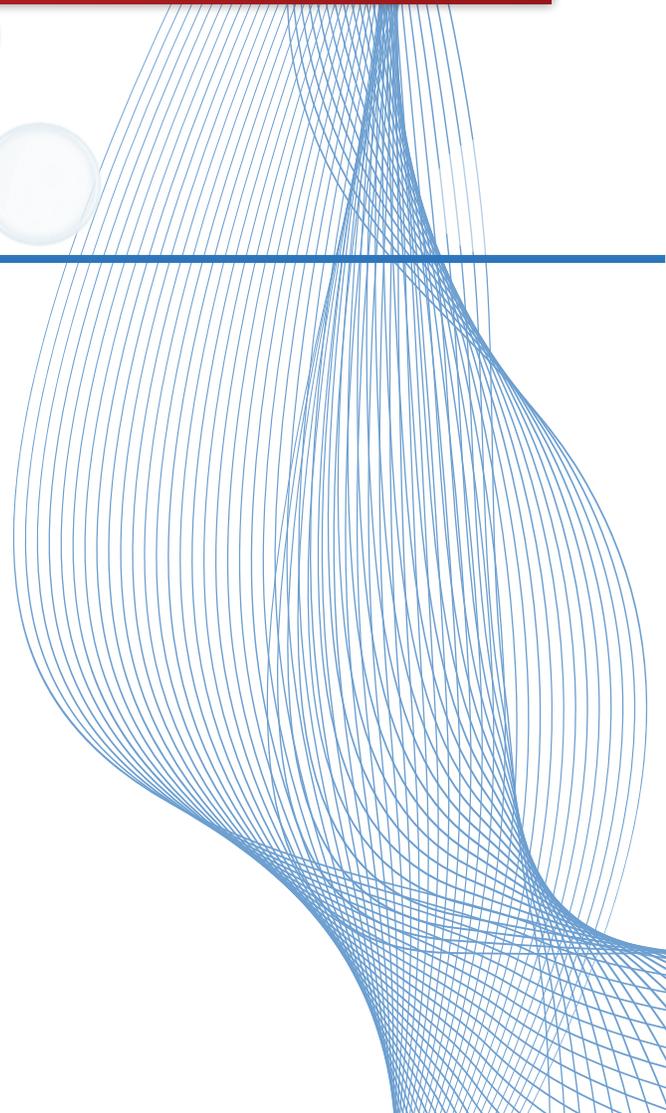
Embosphere Microspheres have been proven:

- in over 25 years of clinical experience, treating more than 800,000 patients worldwide<sup>4</sup>
- in over 8,000 procedures reported in clinical studies<sup>4</sup>
- in more than 135 pivotal articles<sup>4</sup>



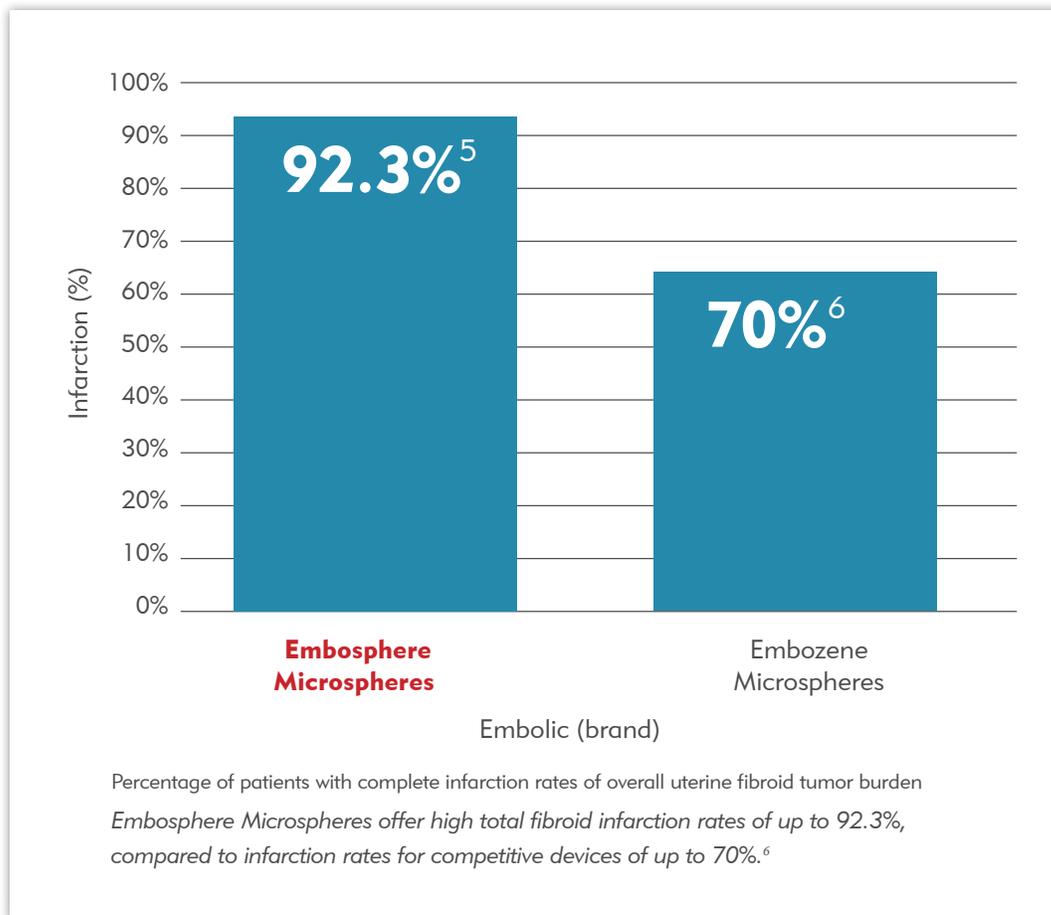
## NON-AGGREGATING PROPERTIES

The hydrophilic surface and spherical shape of Embosphere Microspheres prevent aggregation in the catheter lumen and vasculature.<sup>1</sup>



## PREDICTABLE AND TARGETED DELIVERY

Embosphere Microspheres' rebound capabilities help maintain a spherical shape for predictable distribution and occlusion.<sup>1,3</sup> In contrast, Embozene<sup>®</sup> Microspheres show a higher degree of in vivo deformation, resulting in unpredictable occlusion.<sup>3</sup>



UFE rates are defined differently; results are from different studies and may vary in head-to-head comparison. Graphics are for illustration purposes only.

Based on the clinical evidence reported in published studies over the past 24 years, Embosphere Microspheres exhibit high efficacy rates in the treatment of uterine fibroids.



## SPECIFIC SIZE RANGES

Embosphere Microspheres are available in seven specific size ranges to allow for consistent and reliable occlusion<sup>2</sup>.

### ORDERING INFORMATION EMBOSPHERE MICROSPHERES IN A PREFILLED SYRINGE

Catalog Number 1-mL Syringe	Catalog Number 2-mL Syringe	Size Range	Packaging Color
----	S020GH	50–100 $\mu\text{m}$	Gray 
----	S120GH	40–120 $\mu\text{m}$	Orange 
S210GH	S220GH	100–300 $\mu\text{m}$	Yellow 
S410GH	S420GH	300–500 $\mu\text{m}$	Blue 
S610GH	S620GH	500–700 $\mu\text{m}$	Red 
S810GH	S820GH	700–900 $\mu\text{m}$	Green 
S1010GH	S1020GH	900–1200 $\mu\text{m}$	Purple 

Embosphere Microspheres are packaged with saline in an 20-mL syringe. Packaged 5 syringes per box.



### EMBOSPHERE MICROSPHERES IN A VIAL

Catalog Number 1-mL Vial	Catalog Number 2-mL Vial	Size Range	Packaging Color
V110GH	V120GH	40–120 $\mu\text{m}$	Orange 
V210GH	V220GH	100–300 $\mu\text{m}$	Yellow 
V410GH	V420GH	300–500 $\mu\text{m}$	Blue 
V610GH	V620GH	500–700 $\mu\text{m}$	Red 
V810GH	V820GH	700–900 $\mu\text{m}$	Green 
V1010GH	V1020GH	900–1200 $\mu\text{m}$	Purple 

Embosphere Microspheres are packaged with saline in a 8-mL vial. Packaged 5 vials per box.



#### REFERENCES

- Laurent et al. 1996. "Trisacryl Gelatin Microspheres for Therapeutic Embolization, I: Development and In Vitro Evaluation." *Am J Neuroradiol* 17, no. 3 (Mar): 533–40.
- Pelage et al. 2002. "Uterine Artery Embolization in Sheep: Comparison of Acute Effects with Polyvinyl Alcohol Particles and Calibrated Microspheres." *Radiology* 224, no. 2 (Aug): 436–45. doi: 10.1148/radiol.2242010847.
- Verret et al. 2011. "The Arterial Distribution of Embosphere and Embosphere Microspheres in Sheep Kidney and Uterus Embolization Models." *J Vasc Interv Radiol* 22, no. 2 (Feb): 220–8. doi: 10.1016/j.jvir.2010.10.021.
- Data on file.
- Siskin et al. 2008. "Leiomyoma Infarction After Uterine Artery Embolization: A Prospective Randomized Study Comparing Tris-Acryl Gelatin Microspheres Versus Polyvinyl Alcohol Microspheres." *J Vasc Interv Radiol* 19, no. 1 (Jan): 42–46. doi: 10.1016/j.jvir.2007.08.034.
- Maclean et al. 2021. "A Comprehensive Cohort Study Comparing a Novel, Spherical, Resorbable Particle Against Five Established Embolic Agents for Uterine Fibroid Embolisation." *Clin Radiol* 76, no. 6 (June) 452–57. Accessed February 07, 2025. doi: 10.1016/j.crad.2021.01.012. Epub 2021 Feb 23.

Before using refer to Instructions for Use for indications, contraindications, warnings, precautions, and directions for use.



Understand. Innovate. Deliver.™

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# HepaSphere<sup>TM</sup>

Microspheres

EXPERIENCE A DRUG-ELUTING  
MICROSPHERE WITH THE  
POWER OF CONFORMABILITY<sup>1,4</sup>  
FOR TACE FOR HCC.



# HepaSphere™

Microspheres



## FAST LOADING

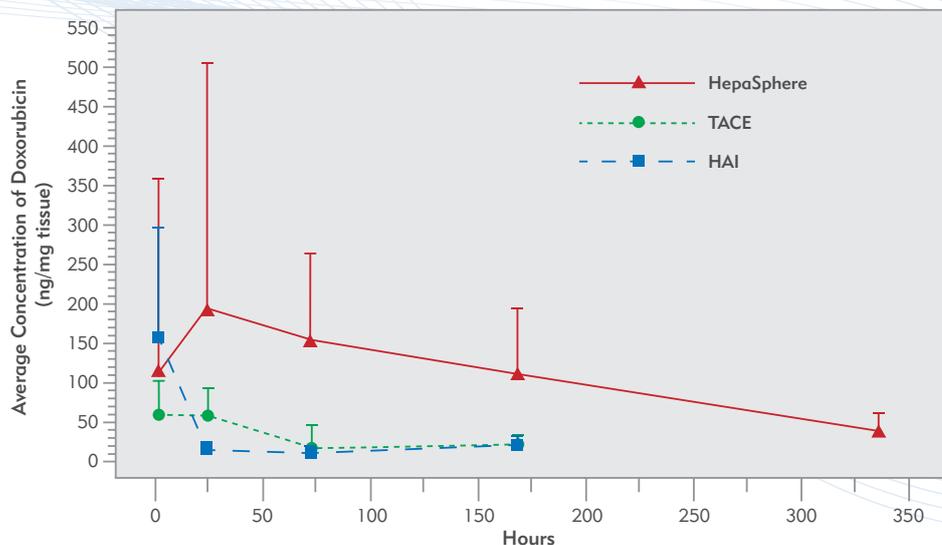
HepaSphere, also known as superabsorbent polymer (SAP) microsphere, is the only microsphere that:

- Is packaged dry and ready for reconstitution
- Works like a sponge and loads the drug throughout the microsphere
- Loads  $\geq 90\%$  of 50mg Doxorubicin (powder prepared with normal saline) in  $<15$  minutes<sup>\*,8</sup>
- Has a 15-day storage and stability lifetime once loaded with Doxorubicin<sup>\*\*</sup>,<sup>8</sup>
- Once reconstituted, swells to approximately 4x the size printed on the product label<sup>8</sup>
- Can absorb fluids up to 64x its dry-state volume<sup>5</sup>

## THOROUGH LOADING<sup>8</sup> & SUSTAINED ELUTION<sup>2</sup>

Doxorubicin is loaded throughout HepaSphere Microspheres and is retained by an ionic bond, providing a sustained release over 14 days<sup>2</sup>, with peak intratumoral concentration of doxorubicin observed at 3 days.<sup>2,3</sup>

## DELIVER MORE DRUG DIRECTLY TO THE TUMOR FOR LONGER<sup>2</sup>



*In the hepatic arterial infusion (HAI) and transarterial chemoembolization (TACE) groups, intratumoral doxorubicin levels declined to negligible levels at 1 and 3 days after treatment, while in the HepaSpheres group, the intratumoral doxorubicin level was still detectable at 14 days after treatment and was higher than that in the other groups at 1, 3, and 7 days.*

\*Recommended loading time is 60 minutes for all sizes of HepaSpheres Microspheres.

\*\*Loaded with lyophilized doxorubicin HCl reconstituted with preservative-free 0.9% sodium chloride and stored at 2-8°C.

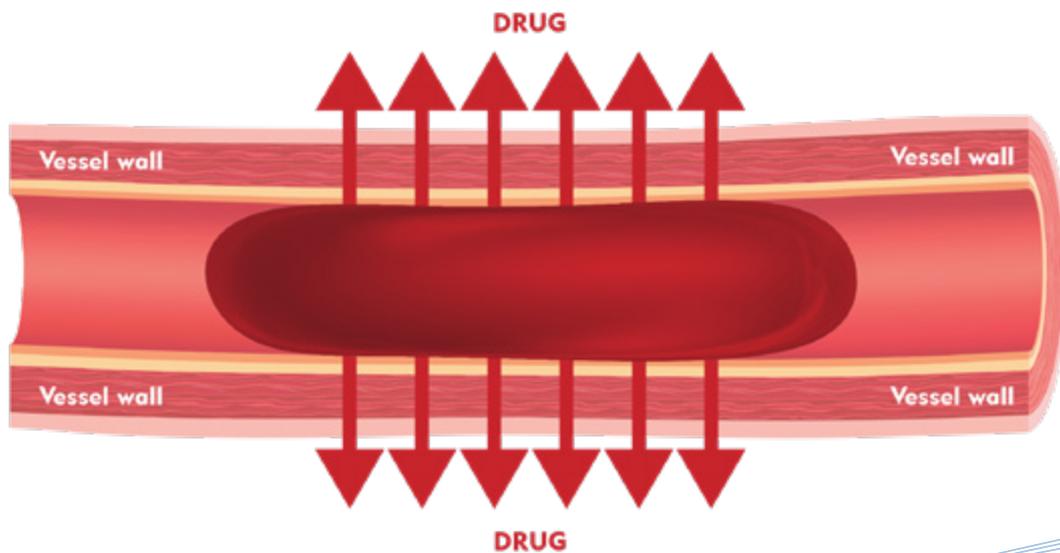
## EXPERIENCE THE POWER OF CONFORMABILITY<sup>1,4</sup>

HepaSpheres are drug-eluting microspheres that conform to the vasculature for complete occlusion<sup>1,4</sup>:

- Providing optimal contact between the microsphere surface and vessel wall, enabling high drug diffusion into the tumor and optimal embolization<sup>3,5,6</sup>
- Enabling increased tumor necrosis<sup>3</sup>
- Decreasing the risk of vessel recanalisation<sup>1,4</sup>
- Reducing the amount of product needed to reach embolisation endpoint<sup>4,7</sup>

## HIGH DRUG DIFFUSION

Because of its high conformability<sup>1,4</sup>, HepaSpheres provides optimal contact between the microsphere surface and vessel wall, enabling high drug diffusion into the tumor<sup>3,5,6</sup>



# HepaSphere™

## Microspheres

### TRUSTED & ESTABLISHED

HepaSphere Microspheres are supported by extensive research:

- with more than 25 peer-reviewed publications<sup>8</sup>
- over 1,173 patients treated<sup>8</sup>, and
- 20+ years of clinical use<sup>8</sup>



### ORDERING INFORMATION

	Q <sup>2</sup>	HepaSphere Microspheres	
Dry Size (µm)	20-40	30-60	50-100
Hydrated Size (µm)	80-160	120-240	200-400
Colour Code	● Grey	● Orange	● Yellow
Order Number	<b>V125HS</b>	<b>V225HS</b>	<b>V325HS</b>

HepaSphere Microspheres are packaged dry; 25mg per vial; 1 vial per box. Must be reconstituted before use.

#### References

1. De Luis E, Bilbao JI, de Círcolas JA, Martínez-Cuesta A, de Martino Rodríguez A, Lozano MD. (2008). In vivo evaluation of a new embolic spherical particle (HepaSphere) in a kidney animal model. *Cardiovasc Intervent Radiol*, 2008 Mar-Apr;31(2):367-76.
2. Gupta S, Wright KC, Ensor J, et al. (2011). Hepatic arterial embolization with doxorubicin-loaded superabsorbent polymer microspheres in a rabbit liver tumor model. *Cardiovasc Intervent Radiol*, Oct;34(5):1021-30.
3. Lee KH, Liapi E, Cornell C, et al. (2010). Doxorubicin-loaded QuadraSphere microspheres: plasma pharmacokinetics and intratumoral drug concentration in an animal model of liver cancer. *Cardiovasc Intervent Radiol*, Jun;33(3):576-82.
4. Bilbao JI, de Luis E, García de Jalón JA, et al. (2008). Comparative study of four different spherical embolic particles in an animal model: a morphologic and histologic evaluation. *J Vasc Interv Radiol*, Nov;19(11):1625-38.
5. van Malenstein H, Maleux G, Vandecaveye V, et al. (2011). A randomized phase II study of drug-eluting beads versus transarterial chemoembolization for unresectable hepatocellular carcinoma. *Onkologie*, Jul;34:368-376.
6. Wang YXJ, De Baere, Idée JM, et al. (2015). Transcatheter embolization therapy in liver cancer: an update of clinical evidences. *Chin J Cancer Res*, 27(2):96-121.
7. Grosso M, Vignali C, Quaretti P, et al. (2008). Transarterial chemoembolization for hepatocellular carcinoma with drug-eluting microspheres; preliminary results from an Italian multicentre study. *Cardiovasc Intervent Radiol*, Nov-Dec;31(6):1141-9.
8. Data on file.

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BIOPSY POSSIBILITIES

# LOOK AND DISCOVER



SOFT TISSUE BIOPSY

## BUILT FOR BETTER BIOPSY

The TEMNO Elite™ Biopsy System offers the reliability you expect with new features designed to provide superior soft tissue samples and total procedure control. An added patient-safety option minimizes the risk of complications, particularly during lung biopsies.<sup>2</sup> By listening to your feedback, Merit has modernized biopsy procedures with the TEMNO Elite—a device built for better biopsy.

### Sharp Biopsy Needle

Designed to minimize tissue insertion force.

### Sample Assist™ Feature

Reduces cumbersome sample retrieval with tweezers or a scalpel!

**72%**  
**LARGER**  
 SAMPLES

### Adjustable Throw

(10 mm or 20 mm)  
 Provides precise sampling for a variety of procedural situations.

### Versatility for Your Procedures

14G	●	Breast
16G	●	Liver, kidney, soft tissue masses
18G	●	Liver, kidney, thyroid, soft tissue masses
20G	●	Lung, thyroid, soft tissue masses

Available in 6–20 cm lengths



**SUPERIOR SAMPLES**

**Total Core™ Biopsy Technology**  
Average 72% larger than competitor side-notch, semi-automatic devices!



**PROCEDURE CONTROL**

**Sample Assist**  
“Hands-free” feature retrieves full tissue samples with a push of a button!



**PATIENT SAFETY**

**Valved Coaxial Introducer**  
Intended to minimize the risk of air entering the pleural space and fluid leakage<sup>2</sup>

Visit [merit.com/TemnoElite](http://merit.com/TemnoElite) for product demonstration and ordering information.

## TEMNOELITE™ ORDERING INFORMATION

Needle Gauge	Standalone Biopsy Needle	Biopsy Needle Size	Bundled Biopsy Needle with Valved Coaxial Introducer	Bundled Biopsy Needle with Non-valved Coaxial Introducer	Introducer Needle Size	Compatible Valved Coaxial Introducer	Compatible Non-valved Coaxial Introducer
14G ●	TE1406	14G x 6 cm	-	-		-	-
	TE1410	14G x 10 cm	TEVC1410	TEC1410	13G x 5.3 cm	VC1410	CX1410
	TE1415	14G x 15 cm	TEVC1415	TEC1415	13G x 10.3 cm	VC1415	CX1415
16G ●	TE1606	16G x 6 cm	-	-		-	-
	TE1610	16G x 10 cm	TEVC1610	TEC1610	15G x 5.3 cm	VC1610	CX1610
	TE1615	16G x 15 cm	TEVC1615	TEC1615	15G x 10.3 cm	VC1615	CX1615
18G ●	TE1806	18G x 6 cm	-	-		-	-
	TE1810	18G x 10 cm	TEVC1810	TEC1810	17G x 5.3 cm	VC1810	CX1810
	TE1815	18G x 15 cm	TEVC1815	TEC1815	17G x 10.3 cm	VC1815	CX1815
	TE1820	18G x 20 cm	TEVC1820	TEC1820	17G x 15.3 cm	VC1820	CX1820
20G ●	TE2006	20G x 6 cm	-	-		-	-
	TE2010	20G x 10 cm	TEVC2010	TEC2010	19G x 5.4 cm	VC2010	CX2010
	TE2015	20G x 15 cm	TEVC2015	TEC2015	19G x 10.4 cm	VC2015	CX2015
	TE2020	20G x 20 cm	TEVC2020	TEC2020	19G x 15.4 cm	VC2020	CX2020

For single use only. Five devices per case.

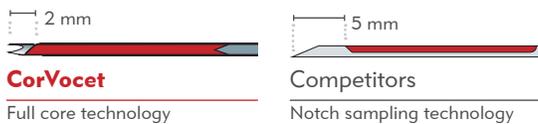
**REFERENCES:** 1. Internal testing with 18G. Data on File. Marketing Claims for the TEMNO Elite Device (ECN147270, ECN152582). 2. Internal Testing. Data on File. Validated with data from Valved One-Step™ Centesis Catheter. See product brochure (401273001/C, ECN98478).

## PRECISE & PREDICTABLE THROW ADJUSTABILITY, FULL-CORE SPECIMENS, TRUE ONE-HANDED OPERATION

The CorVocet Biopsy System is designed to capture a **full core** of tissue, providing **large specimens** for pathological examination. Its sleek lines, light weight, and **ergonomic grip** help facilitate one-handed arming, positioning, and firing, which is especially beneficial during image-guided procedures.

### Full Core Specimens

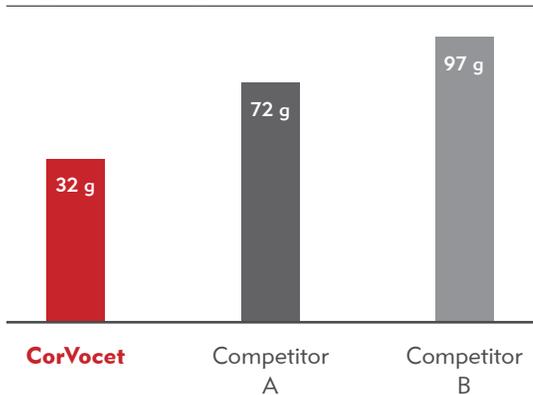
Provides more tissue than notch sampling for improved pathological examination.



### Lightweight Design

Minimizes movement of needle when left in patient during imaging. **CorVocet is 55% lighter** than competitor A and **67% lighter** than competitor B.

Weight in Grams (g)

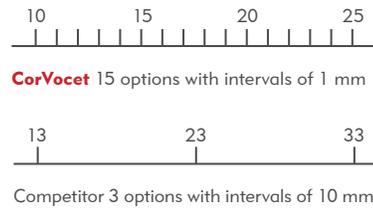


### Echo-Enhanced Tip

Provides visualization during image-guided procedures

### Precise Throw Length

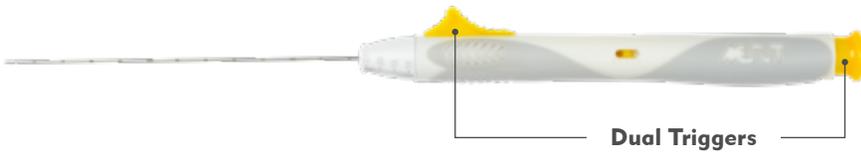
Provides more **accuracy** and **precision** than the competitors with its unique adjustability, allowing users to maximize target tissue sampling and minimize healthy tissue trauma.



Centimeter Depth Markings

**True One-handed Arming and Firing**





**Quiet Firing Action**

Approximately 33% quieter than the competition for an improved patient experience.

**Adjustable Depth Stop**



**Blunt Stylet Option (18G & 20G only)**

May be used to minimize damage to soft tissue, vasculature, and organs.



**CorVocet Coaxial Introducer**

With its unique quick release technology, the inner stylet can be removed with a pinch and pull rather than twisting and torquing.



Broad range of gauge sizes and lengths to meet procedural needs

**CORVOCET® ORDERING INFORMATION**

Needle Gauge	Standalone Biopsy Needle	Standalone Biopsy Needle with Safety Lock	Biopsy Needle Size	Bundled Biopsy Needle with Coaxial Introducer	Bundled Biopsy Needle with Coaxial Introducer with Safety Lock	Introducer Needle Size	Compatible Coaxial Introducer Needle Only
14G ●	CORA1410	CORA1410S	14G x 10 cm	CORCA1410	CORCA1410S	13G x 4.4 cm	CORC1410
	CORA1415	CORA1415S	14G x 15 cm	CORCA1415	CORCA1415S	13G x 9.4 cm	CORC1415
16G ●	CORA1610	CORA1610S	16G x 10 cm	CORCA1610	CORCA1610S	15G x 4.5 cm	CORC1610
	CORA1615	CORA1615S	16G x 15 cm	CORCA1615	CORCA1615S	15G x 9.5 cm	CORC1615
18G ●	CORA1810	CORA1810S	18G x 10 cm	CORCA1810B	CORCA1810SB	17G x 4.5 cm	CORC1810B
	CORA1815	CORA1815S	18G x 15 cm	CORCA1815B	CORCA1815SB	17G x 9.5 cm	CORC1815B
	CORA1820	CORA1820S	18G x 20 cm	CORCA1820B	CORCA1820SB	17G x 14.5 cm	CORC1820B
	CORA1825	CORA1825S	18G x 25 cm	CORCA1825B	CORCA1825SB	17G x 19.5 cm	CORC1825B
20G ●	CORA2010	CORA2010S	20G x 10 cm	CORCA2010B	CORCA2010SB	19G x 4.6 cm	CORC2010B
	CORA2015	CORA2015S	20G x 15 cm	CORCA2015B	CORCA2015SB	19G x 9.6 cm	CORC2015B
	CORA2020	CORA2020S	20G x 20 cm	CORCA2020B	CORCA2020SB	19G x 14.6 cm	CORC2020B

## SPRING-LOADED ACTION FOR FAST, ACCURATE PENETRATION

The Achieve programmable automatic biopsy systems a strong solution for your soft tissue biopsy needs. This lightweight, automated system offers spring-loaded action for fast, accurate penetration and gives you the precise control and quality sampling capability you need when working with calcified or fibrous lesions. Available with or without a coaxial introducer needle.

### Precision

Three programmable firing modes

- Automatic mode
- Delay mode
- Zero-throw mode

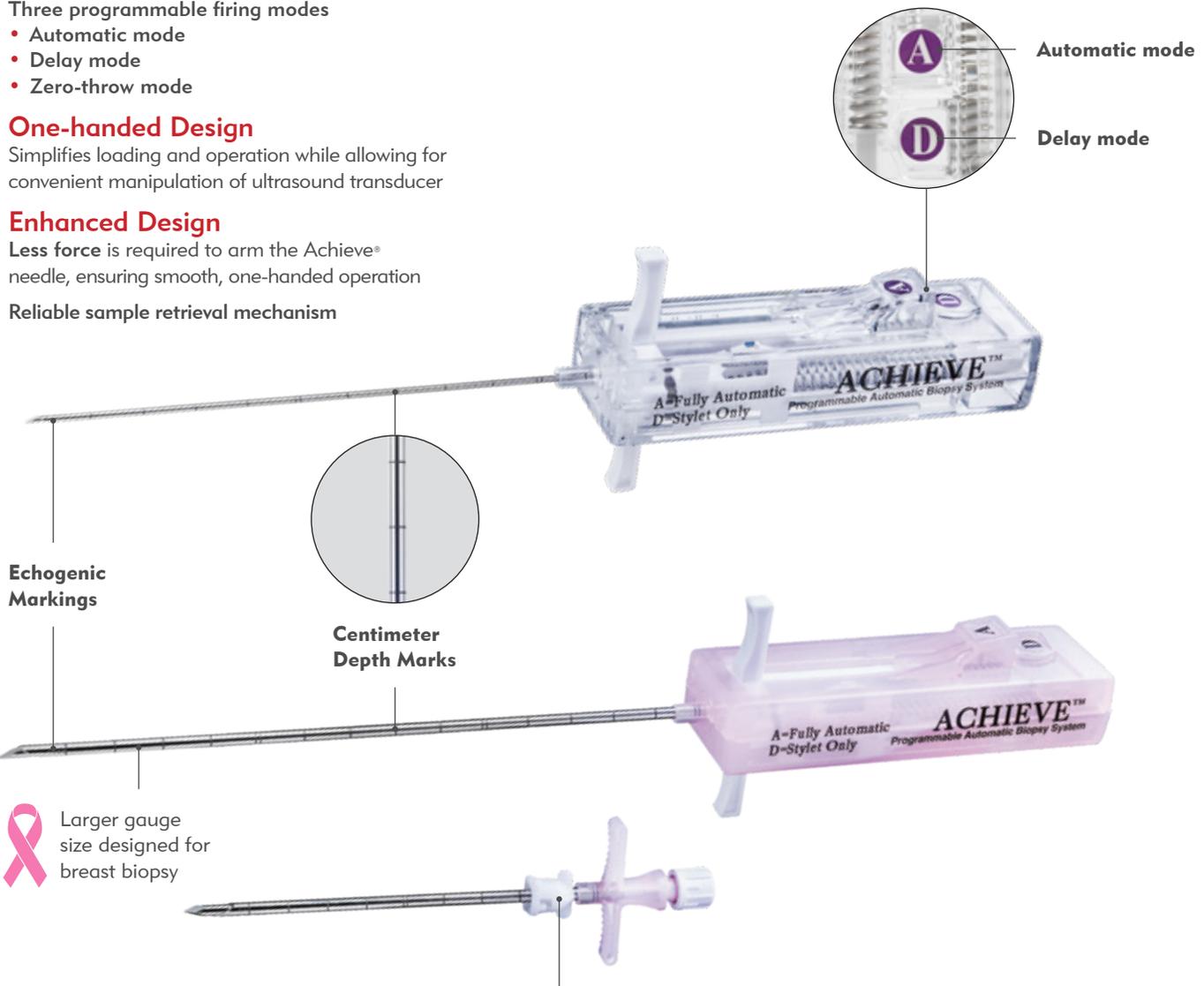
### One-handed Design

Simplifies loading and operation while allowing for convenient manipulation of ultrasound transducer

### Enhanced Design

Less force is required to arm the Achieve® needle, ensuring smooth, one-handed operation

Reliable sample retrieval mechanism



### 10 G Coaxial Introducer

Only available with the 12G Pink Achieve needle and is not sold separately. Features include: a wing grip, a trocar stylet, a bevel cannula, centimeter depth marks and a luer lock hub.

### PINK ACHIEVE™ ORDERING INFORMATION

The Pink Achieve biopsy device is commonly used for the following biopsy procedure: • Breast

Needle Gauge	Standalone Biopsy Needle	Biopsy Needle Size	Bundled Biopsy Needle with Coaxial Introducer	Introducer Needle Size
12G	BA129	12G x 9 cm	–	–
	BA1211	12G x 11 cm	BCA1211	10G x 6 cm
	BA1215	12G x 15 cm	BCA1215	10G x 10 cm
14G	BA149	14G x 9 cm	–	–
	BA1411	14G x 11 cm	BCA1411	13.5G x 6 cm

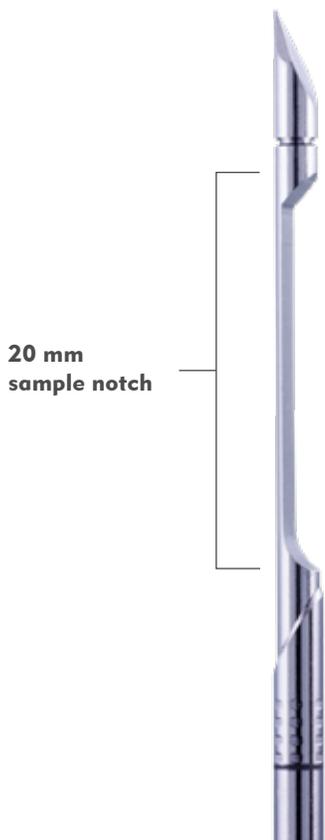
For single patient use only. Five devices per case.

### ACHIEVE® ORDERING INFORMATION

The Achieve biopsy device is commonly used for the following biopsy procedures: • Kidney • Liver • Prostate

Needle Gauge	Standalone Biopsy Needle	Biopsy Needle Size	Bundled Biopsy Needle with Coaxial Introducer	Introducer Needle Size
14G	A146	14G x 6 cm	–	–
	A149	14G x 9 cm	–	–
	A1411	14G x 11 cm	CA1411	13.5G x 6 cm
	A1415	14G x 15 cm	CA1415	13.5G x 10 cm
	A1420	14G x 20 cm	CA1420	13.5G x 15 cm
16G	A166	16G x 6 cm	–	–
	A169	16G x 9 cm	–	–
	A1611	16G x 11 cm	CA1611	15G x 6 cm
	A1615	16G x 15 cm	CA1615	15G x 10 cm
	A1620	16G x 20 cm	CA1620	15G x 15 cm
18G	A186	18G x 6 cm	–	–
	A189	18G x 9 cm	–	–
	A1811	18G x 11 cm	CA1811	17G x 6 cm
	A1815	18G x 15 cm	CA1815	17G x 10 cm
	A1820	18G x 20 cm	CA1820	17G x 15 cm
	A1825	18G x 25 cm	–	–
20G	A206	20G x 6 cm	–	–
	A209	20G x 9 cm	–	–
	A2011	20G x 11 cm	CA2011	19G x 6 cm
	A2015	20G x 15 cm	CA2015	19G x 10 cm
	A2020	20G x 20 cm	CA2020	19G x 15 cm

For single patient use only. Five devices per case.



## TEMNO Evolution Biopsy Device

Temno Evolution biopsy devices offer many of the same features that made our Temno biopsy device a leading seller, while setting the standard for procedural flexibility and performance.



**Tactile-enhanced Plunger**  
Ergonomic control

**Pliable Finger Grips**  
Provides increased comfort

**Centimeter Depth Marks**

### Variable Notch Size

Two notch sizes, 10 mm or 20 mm, provide precise sampling.

### Available with Coaxial Introducer

This option allows multiple sampling from one percutaneous puncture with minimal damage to surrounding tissue.

See page 12 for more details.

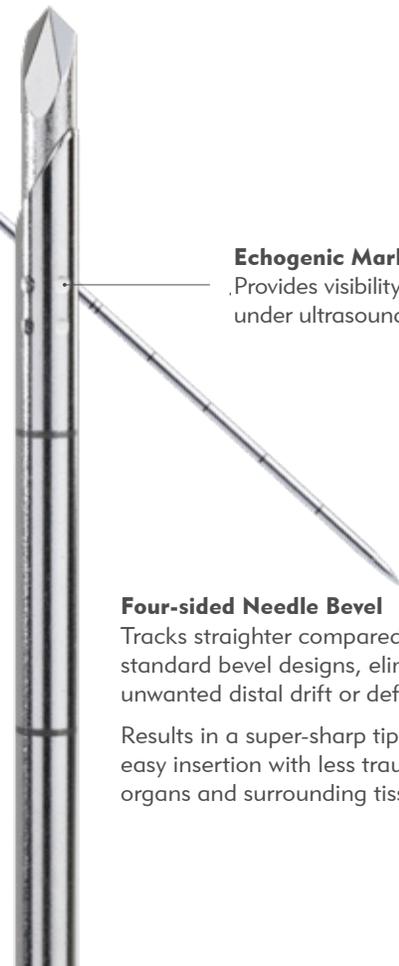
### Compact, Ergonomic Design

The compact body and shorter handle design of the Temno Evolution allows easy passage through a CT gantry.

## TEMNOEVOLUTION® ORDERING INFORMATION

Needle Gauge	Standalone Biopsy Needle	Biopsy Needle Size	Bundled Biopsy Needle with Coaxial Introducer	Introducer Needle Size
14G	TT146	14G x 6 cm	–	–
	TT1411	14G x 11 cm	CTT1411	13.5G x 6 cm
	TT1415	14G x 15 cm	CTT1415	13.5G x 10 cm
	TT1420	14G x 20 cm	CTT1420	13.5G x 15 cm
16G	TT166	16G x 6 cm	–	–
	TT1611	16G x 11 cm	CTT1611	15G x 6 cm
	TT1615	16G x 15 cm	CTT1615	15G x 10 cm
	TT1620	16G x 20 cm	CTT1620	15G x 15 cm
18G	TT186	18G x 6 cm	–	–
	TT1811	18G x 11 cm	CTT1811	17G x 6 cm
	TT1815	18G x 15 cm	CTT1815	17G x 10 cm
	TT1820	18G x 20 cm	CTT1820	17G x 15 cm
20G	TT206	20G x 6 cm	–	–
	TT2011	20G x 11 cm	CTT2011	19G x 6 cm
	TT2015	20G x 15 cm	CTT2015	19G x 10 cm
	TT2020	20G x 20 cm	CTT2020	19G x 15 cm

For single use only. Five devices per case.



**Echogenic Marks**  
Provides visibility under ultrasound

### Four-sided Needle Bevel

Tracks straighter compared to standard bevel designs, eliminating unwanted distal drift or deflection.

Results in a super-sharp tip for quick, easy insertion with less trauma to organs and surrounding tissue.

## Adjustable Coaxial TEMNO (ACT) Biopsy Device

The ACT biopsy device combines the quality and reliability of the Temno brand with innovative technology.

### Compact, Lightweight Design

The enhanced design of the ACT device allows easy passage through a CT gantry.

### Enhanced Throw Adjustability

The device lets you manipulate the sample notch size from 9 to 19 mm for precise control with small lesions and peace of mind in vascular areas.

**Tactile-enhanced Plunger**  
Ergonomic control

**Smooth Charging**  
and advancement  
of stylet

### Universal Coaxial Introducer

Required for use with  
Adjustable Coaxial Bolt.

See page 12 for more details.

**Adjustable Coaxial Bolt**  
and corresponding  
measurement indicator  
allow accurate notch size  
and throw configuration.

**Centimeter  
Depth Marks**

### Echogenic Marks

Provides visibility  
under ultrasound.

## ADJUSTABLE COAXIAL TEMNO® (ACT) ORDERING INFORMATION

Needle Gauge	Bundled Biopsy Needle with Coaxial Introducer	Biopsy Needle Size	Introducer Needle Size
14G	ACT1415	14G x 15 cm	13.5G x 10 cm
	ACT1811	18G x 11 cm	17G x 6 cm
18G	ACT1815	18G x 15 cm	17G x 10 cm
	ACT1820	18G x 20 cm	17G x 15 cm
20G	ACT2011	20G x 11 cm	19G x 6 cm
	ACT2015	20G x 15 cm	19G x 10 cm
	ACT2020	20G x 20 cm	19G x 15 cm
22G	ACT2211	22G x 11 cm	20G x 6 cm
	ACT2215	22G x 15 cm	20G x 10 cm

For single use only. Five devices per case.

## TEMNO Biopsy Device

The Temno biopsy device is easy to use, offering simplicity, reliability and precision you can count on. It features a 20 mm sample notch and a lightweight, compact design. Available with or without a coaxial introducer needle.

### Quality Samples

The system features a 20 mm sample notch.

### Flexible Sizing

The device comes in a wide range of gauges and lengths including 14 G to 22 G and 6 cm to 20 cm.

## TEMNO® ORDERING INFORMATION

Needle Gauge	Standalone Biopsy Needle	Biopsy Needle Size	Bundled Biopsy Needle with Coaxial Introducer	Introducer Needle Size
14G	T146	14G x 6 cm	–	–
	T149	14G x 9 cm	–	–
	T1411	14G x 11 cm	CT1411	13.5G x 6 cm
	T1415	14G x 15 cm	CT1415	13.5G x 10 cm
	T1420	14G x 20 cm	CT1420	13.5G x 15 cm
16G	T166	16G x 6 cm	–	–
	T169	16G x 9 cm	–	–
	T1611	16G x 11 cm	CT1611	15G x 6 cm
	T1615	16G x 15 cm	CT1615	15G x 10 cm
	T1620	16G x 20 cm	CT1620	15G x 15 cm
18G	T186	18G x 6 cm	–	–
	T189	18G x 9 cm	–	–
	T1811	18G x 11 cm	CT1811	17G x 6 cm
	T1815	18G x 15 cm	CT1815	17G x 10 cm
	T1820	18G x 20 cm	CT1820	17G x 15 cm
20G	T206	20G x 6 cm	–	–
	T209	20G x 9 cm	–	–
	T2011	20G x 11 cm	CT2011	19G x 6 cm
	T2015	20G x 15 cm	CT2015	19G x 10 cm
	T2020	20G x 20 cm	CT2020	19G x 15 cm
22G	T226	22G x 6 cm	–	–
	T229	22G x 9 cm	–	–
	T2215	22G x 15 cm	CT2215	20G x 10 cm
	–	22G x 20 cm	CT2220	20G x 15 cm

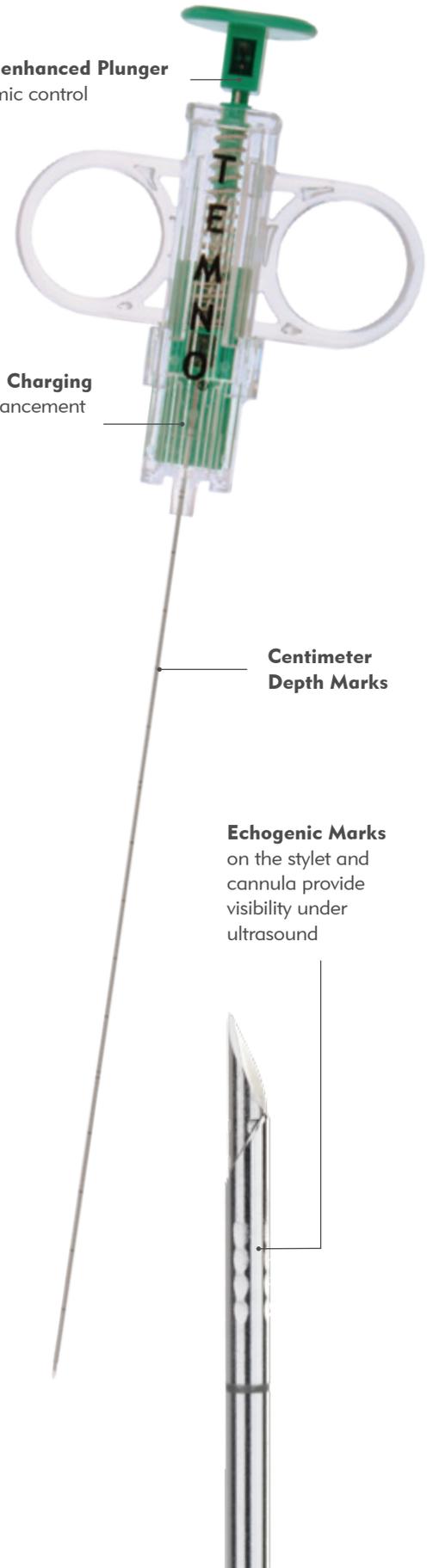
For single use only. Five devices per case.

**Tactile-enhanced Plunger**  
Ergonomic control

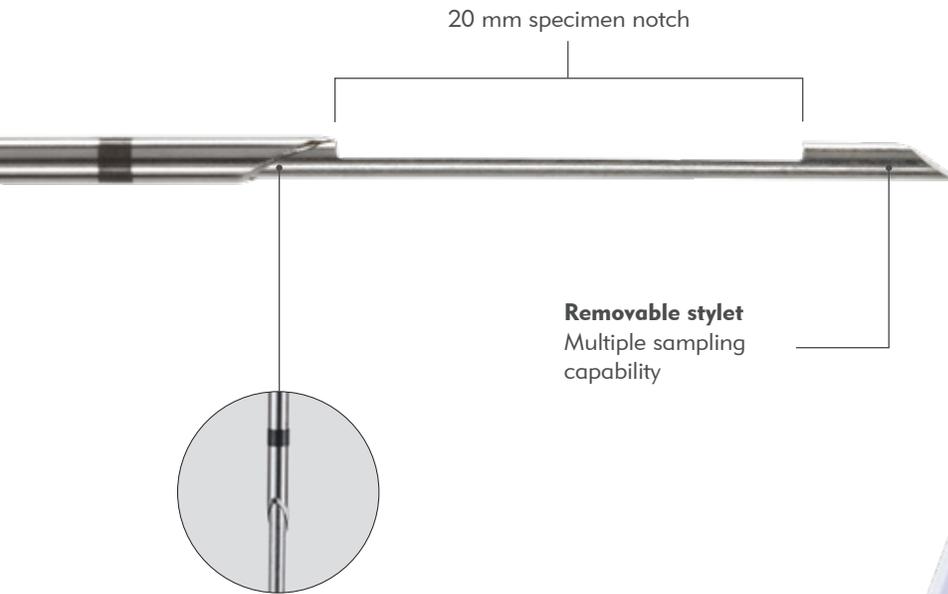
**Smooth Charging**  
and advancement  
of stylet

**Centimeter  
Depth Marks**

**Echogenic Marks**  
on the stylet and  
cannula provide  
visibility under  
ultrasound



The Tru-Cut biopsy needle is designed for manual capture of high-quality tissue samples with minimal trauma to the patient.



**Scalpel-sharp, surgical-steel cutting edge**

Retrieves cleanly cut, high-quality specimens



**Thin-wall needle**  
Yields a larger core

**Centimeter depth markings**  
Assists in needle placement

**TRU-CUT®  
ORDERING INFORMATION**

Gage Size	Standalone Biopsy Needle	Biopsy Needle Size
14G	2N2700X	14G x 7.6 cm
	2N2702X	14G x 11.4 cm
	2N2704X	14G x 15 cm
18G	2N2711X	18G x 7.6 cm
	2N2712X	18G x 11.4 cm
	2N2713X	18G x 15 cm

For single use only. Five devices per case.

# Universal Coaxial Introducer

Biopsy Needles

/// ACCESSORIES

Our thin-wall introducer needles provide a clear path that makes it easier to perform multiple needle biopsies at one site. Use them with any **Achieve** or **Temno** core biopsy needle.

## The Introducer Needle

One gauge size larger than its compatible core tissue biopsy needle (except a 22 G needle uses a 20 G introducer, and a 14 G needle uses a 13.5 G introducer)

**A clear luer lock hub**  
Provides visibility

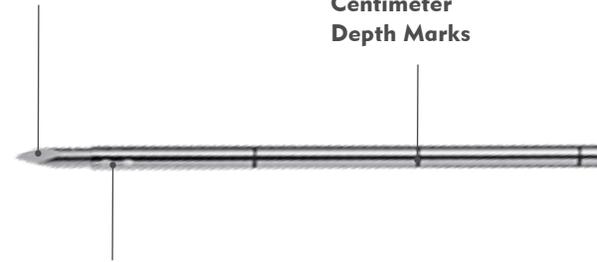


**The positive-locking skin stop**  
Controls forward migration

## The trocar-point stylet

Penetrates tissue with ease for a smooth, straight insertion

**Centimeter Depth Marks**



## Echogenic tip

Facilitate ultrasound-guided procedures

## UNIVERSAL COAXIAL INTRODUCER ORDERING INFORMATION

Needle Gauge	Coaxial Introducer Needle	Introducer Needle Size	Compatible Biopsy Needle Size
13.5G	PP1356	13.5G x 6 cm	14G x 11 cm
	PP13510	13.5G x 10 cm	14G x 15 cm
15G	PP156	15G x 6 cm	16G x 11 cm
	PP1510A	15G x 10 cm	16G x 15 cm
	PP1515A	15G x 15 cm	16G x 20 cm
17G	PP176	17G x 6 cm	18G x 11 cm
	PP1710	17G x 10 cm	18G x 15 cm
	PP1715	17G x 15 cm	18G x 20 cm
19G	PP196	19G x 6 cm	20G x 11 cm
	PP1910	19G x 10 cm	20G x 15 cm
	PP1915	19G x 15 cm	20G x 20 cm
20G	PP206	20G x 6 cm	22G x 11 cm
	PP2010	20G x 10 cm	22G x 15 cm
	PP2015	20G x 15 cm	22G x 20 cm

The needles in this catalog are not intended for use in bone.

For single use only. Ten devices per case.

Before using refer to Instructions for Use for indications, contraindications, warnings, precautions, and directions for use.



Understand. Innovate. Deliver.™

merit.com

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**STAY ON  
COURSE.**

Prelude **ROADSTER**<sup>®</sup>  
Guide Sheath



## STAY ON COURSE

Expand your diagnostic and interventional procedures with the Prelude Roadster, a long guide sheath designed to access difficult anatomy in the peripheral vasculature. Offering superior deliverability, increased kink and compression resistance, and highly visible under imaging guidance—no matter your destination, you can stay on course with the Prelude Roadster.

## DESIGNED FOR EASE OF ENTRY AND ENHANCED TRACKABILITY

**42% LESS**  
INSERTION FORCE<sup>1</sup>



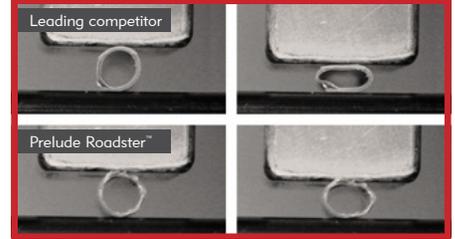
Distal 35-cm length hydrophilic coating eases entry into the vessel.

**33% BETTER**  
KINK RESISTANCE<sup>1</sup>



A nylon outer layer with stainless steel coil and PTFE liner prevents kinking.

**40% SUPERIOR**  
COMPRESSION RESISTANCE<sup>1</sup>



Withstands more compression at the same force versus the leading competitor.

### Visibility

Marker band and radiopaque tip confirm precise location, especially important during critical balloon inflation.



### Trackability

Seamless guide wire-to-dilator and dilator-to-sheath transitions facilitate tracking over the wire during placement.

### Ergonomic Hub

Supports device torque and minimizes kinking.

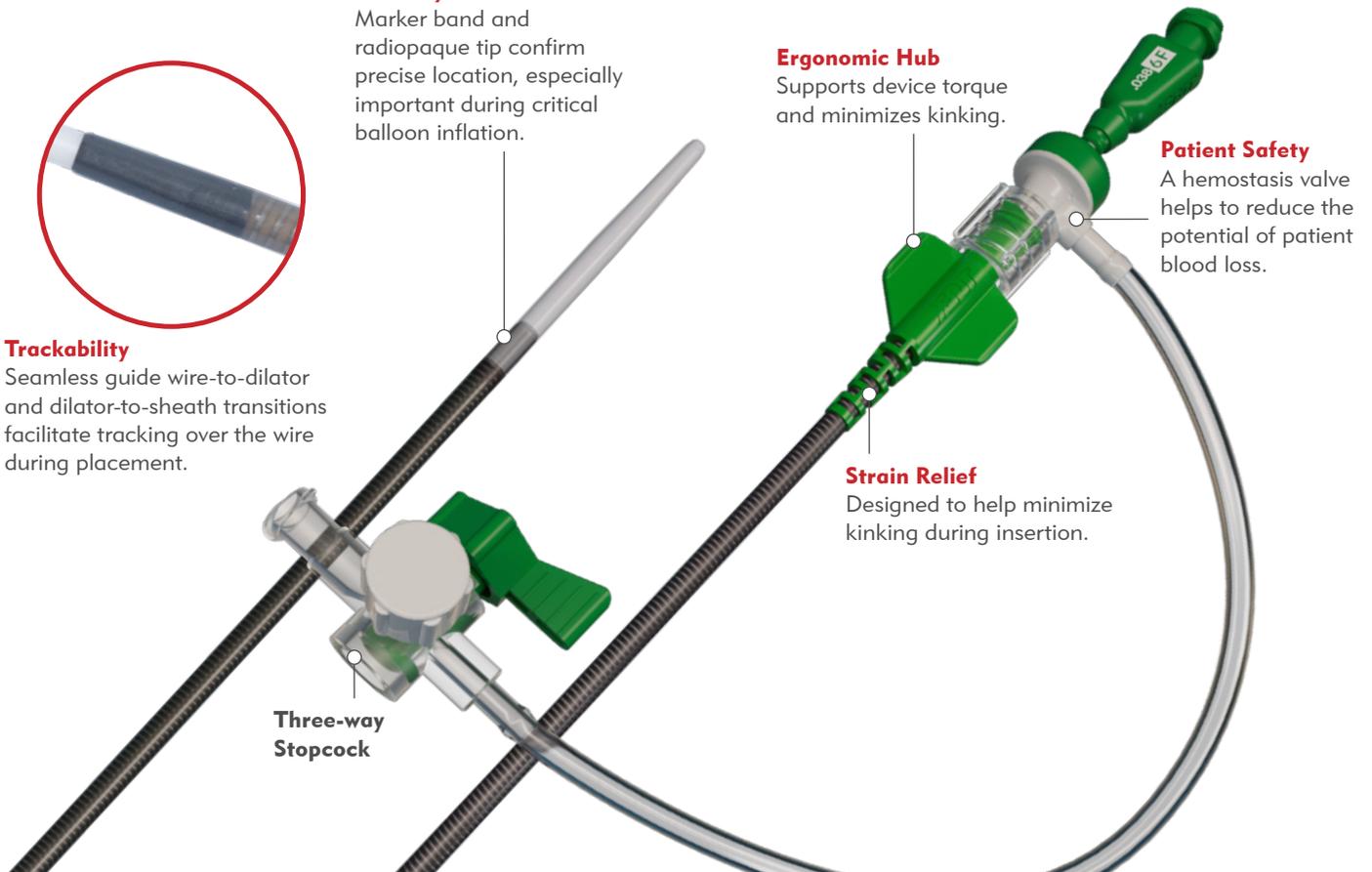
### Patient Safety

A hemostasis valve helps to reduce the potential of patient blood loss.

### Strain Relief

Designed to help minimize kinking during insertion.

**Three-way Stopcock**



## SHAPES AND SIZES TO MEET A WIDE RANGE OF ANATOMICAL NEEDS

Every patient is different. We offer multiple sizes and tip shapes designed to improve patient outcomes and your procedural experience.

### DIAMETER SIZES

A wide selection of lumen sizes designed for diagnostic and therapeutic device delivery.

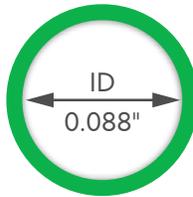
**4F**



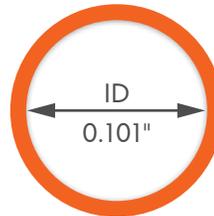
**5F**



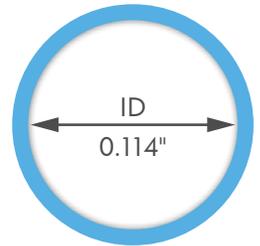
**6F**



**7F**

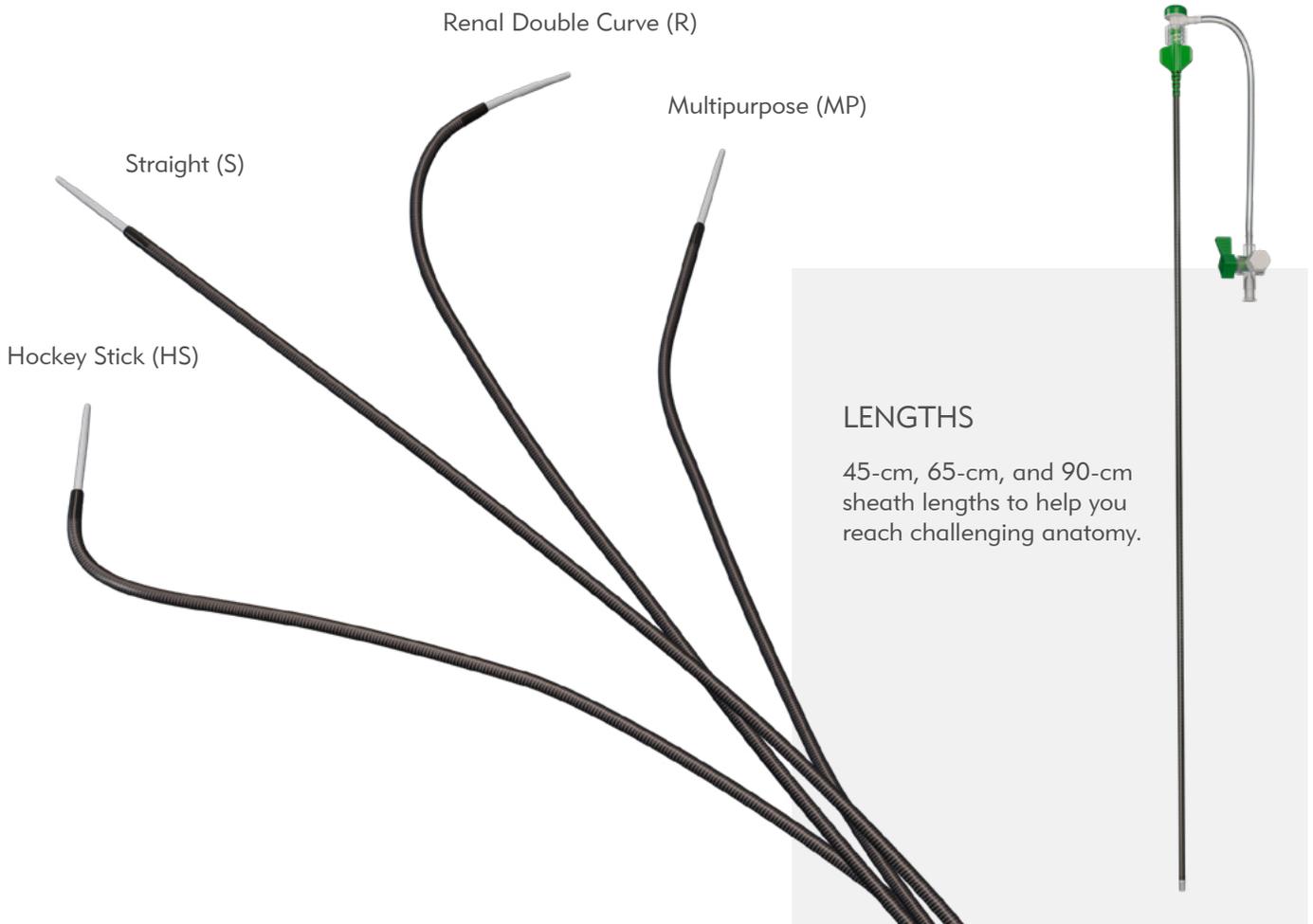


**8F**



### TIP SHAPES

Four tip shapes to help you address procedural challenges.



### LENGTHS

45-cm, 65-cm, and 90-cm sheath lengths to help you reach challenging anatomy.

## HOW TO READ THE MERIT PRELUDE ROADSTER PART NUMBER

PG6F90MPX:    PG                      6F                      90                      MP                      X  
                     Prelude Guide            French Size            Length (cm)            Tip Shape            Extra Stiff  
                     Sheath

## ORDERING INFORMATION

CATALOG NUMBER	SIZE	LENGTH	RECOMMENDED GUIDE WIRE	TIP SHAPE	SHEATH BODY TYPE
PG4F45S	4F	45 cm	0.035" (0.89 mm)	Straight	Regular
PG4F90S	4F	90 cm	0.035" (0.89 mm)	Straight	Regular
PG5F45S	5F	45 cm	0.038" (0.97 mm)	Straight	Regular
PG5F45S018	5F	45 cm	0.018" (0.46 mm)	Straight	Regular
PG5F45MP	5F	45 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG5F45R	5F	45 cm	0.038" (0.97 mm)	Renal Double Curve	Regular
PG5F90S	5F	90 cm	0.038" (0.97 mm)	Straight	Regular
PG5F90S018	5F	90 cm	0.018" (0.46 mm)	Straight	Regular
PG5F90MP	5F	90 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG6F45S	6F	45 cm	0.038" (0.97 mm)	Straight	Regular
PG6F45S018	6F	45 cm	0.018" (0.46 mm)	Straight	Regular
PG6F45HS	6F	45 cm	0.038" (0.97 mm)	Hockey Stick	Regular
PG6F45MP	6F	45 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG6F45R	6F	45 cm	0.038" (0.97 mm)	Renal Double Curve	Regular
PG6F65S	6F	65 cm	0.038" (0.97 mm)	Straight	Regular
PG6F65MP	6F	65 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG6F65SX	6F	65 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG6F90MP	6F	90 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG6F90SX	6F	90 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG6F90SX018	6F	90 cm	0.018" (0.46 mm)	Straight	Extra Stiff
PG6F90MPX	6F	90 cm	0.038" (0.97 mm)	Multipurpose	Extra Stiff
PG7F45S	7F	45 cm	0.038" (0.97 mm)	Straight	Regular
PG7F45MP	7F	45 cm	0.038" (0.97 mm)	Multipurpose	Regular
PG7F45SX	7F	45 cm	0.035" (0.89 mm)	Straight	Extra Stiff
PG7F45MPX	7F	45 cm	0.038" (0.97 mm)	Multipurpose	Extra Stiff
PG7F45RX	7F	45 cm	0.038" (0.97 mm)	Renal Double Curve	Extra Stiff
PG7F65SX	7F	65 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG7F90SX	7F	90 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG8F45S	8F	45 cm	0.038" (0.97 mm)	Straight	Regular
PG8F45SX	8F	45 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG8F45MPX	8F	45 cm	0.038" (0.97 mm)	Multipurpose	Extra Stiff
PG8F65SX	8F	65 cm	0.038" (0.97 mm)	Straight	Extra Stiff
PG8F90SX	8F	90 cm	0.038" (0.97 mm)	Straight	Extra Stiff

## COMBINE MERIT PRODUCTS. CREATE PROCEDURAL SOLUTIONS.

Choose from a selection of Merit products you can use with the Prelude Roadster. Each works to provide you with the complete procedural solutions you need.

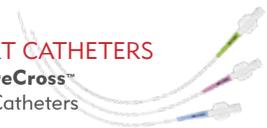
**ANGIOGRAPHY**  
**SplashWire™**  
 Hydrophilic Steerable  
 Guide Wire



**DIAGNOSTIC**  
**InQwire® Amplatz**  
 Guide Wire



**SUPPORT CATHETERS**  
**Merit SureCross™**  
 Support Catheters



**EMBOLICS**  
**EmboCube®**  
 Embolization Gelatin



**INFLATION**  
**BasixTOUCH™**  
 Inflation Device



Packaged 1 unit per box. | All Prelude Roadster Guide Sheaths are latex free.

1. Data on File.

Before using refer to Instructions for Use for indications, contraindications, warnings, precautions, and directions for use.



Understand. Innovate. Deliver.™

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**PUSHABILITY.  
TRACKABILITY.  
KINK RECOVERY.**

**MERIT MAESTRO<sup>®</sup>**

Microcatheter

**AVAILABLE IN RADIAL ACCESS LENGTH.**

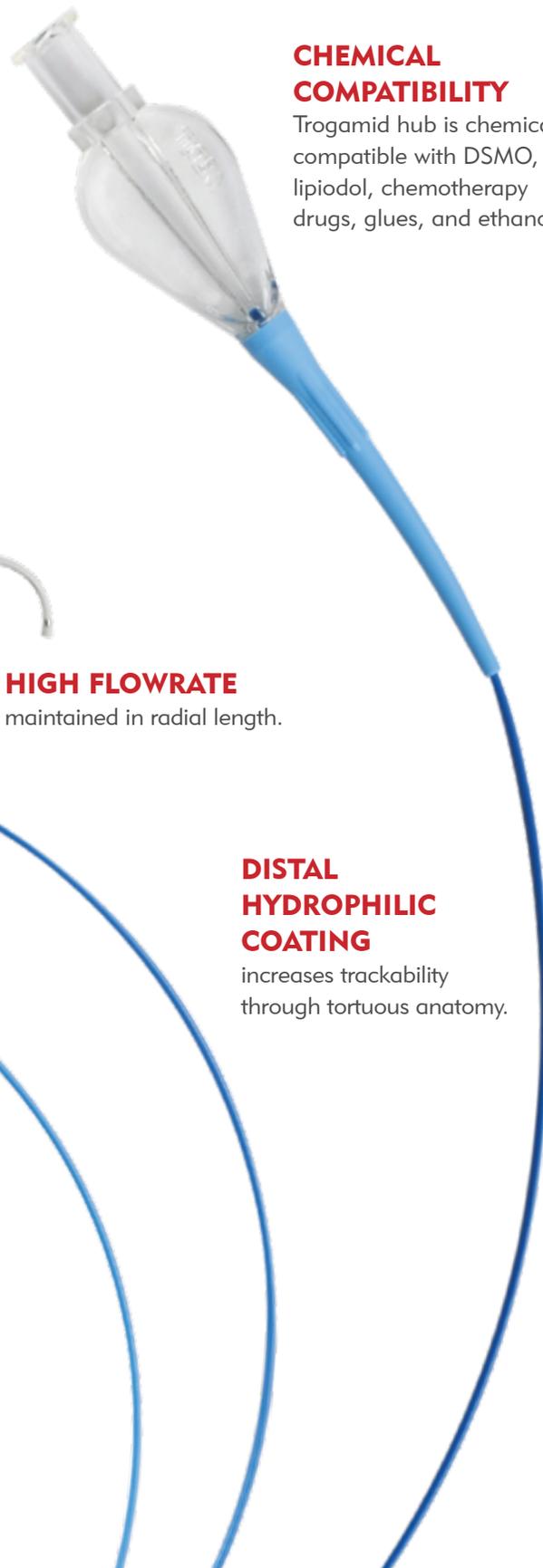


## **PUSHABILITY. TRACKABILITY. KINK RECOVERY.**

During your procedures, having a reliable microcatheter will enhance efficiency and provide the outcomes you expect for small-vessel embolization.

### **RADIAL ACCESS LENGTH**

of 165 cm provides the same product benefits as other lengths.



### **CHEMICAL COMPATIBILITY**

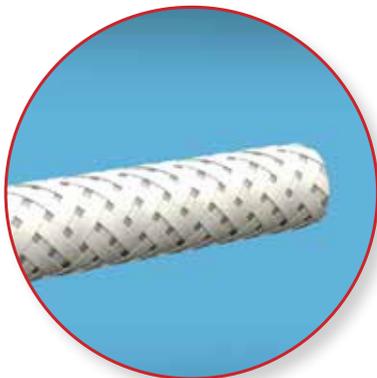
Trogamid hub is chemically compatible with DMSO, lipiodol, chemotherapy drugs, glues, and ethanol.

### **HIGH FLOWRATE**

maintained in radial length.

### **DISTAL HYDROPHILIC COATING**

increases trackability through tortuous anatomy.



### **NYLON-RIBBON BRAIDING**

provides excellent pushability, trackability, and kink recovery when crossing small tortuous vessels.

# Navigating Complex Anatomy

**SOFT, FLEXIBLE  
DISTAL TIP**

**STRAIGHT**

**SWAN NECK**

**45°**



## COMPLETE SOLUTIONS

Proven for successful delivery of Embosphere® Microspheres.

## ORDERING INFORMATION

Lengths with a catalog number in red are designed for radial access.

Catalog Number	Maestro Proximal OD	Maestro Distal OD	Maestro Usable Length	Maestro Tip Shape	Maestro Hydrophilic Coating Length	Maestro Distance from Tip to Markerband	Minimum Guide Cath. ID	Maestro ID	Max. Guide Wire Size	Maestro Priming Vol.
<b>2.8F TAPERED TO 2.1F</b>										
28MC21110ST	2.8F	2.1F	110 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.63 mL
28MC21130ST	2.8F	2.1F	130 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.70 mL
28MC21150ST	2.8F	2.1F	150 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.76 mL
<b>28MC21165ST</b>	<b>2.8F</b>	<b>2.1F</b>	<b>165 cm</b>	<b>Straight</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.016" (0.41 mm)</b>	<b>0.81 mL</b>
28MC2111045	2.8F	2.1F	110 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.63 mL
28MC2113045	2.8F	2.1F	130 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.70 mL
28MC2115045	2.8F	2.1F	150 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.76 mL
<b>28MC2116545</b>	<b>2.8F</b>	<b>2.1F</b>	<b>165 cm</b>	<b>45 degree</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.016" (0.41 mm)</b>	<b>0.81 mL</b>
28MC21110SN	2.8F	2.1F	110 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.63 mL
28MC21130SN	2.8F	2.1F	130 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.70 mL
28MC21150SN	2.8F	2.1F	150 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.018" (0.46 mm)	0.016" (0.41 mm)	0.76 mL
<b>28MC21165SN</b>	<b>2.8F</b>	<b>2.1F</b>	<b>165 cm</b>	<b>Swan</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.016" (0.41 mm)</b>	<b>0.81 mL</b>
<b>2.8F TAPERED TO 2.4F</b>										
28MC24110ST	2.8F	2.4F	110 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.63 mL
28MC24130ST	2.8F	2.4F	130 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.70 mL
28MC24150ST	2.8F	2.4F	150 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.76 mL
<b>28MC24165ST</b>	<b>2.8F</b>	<b>2.4F</b>	<b>165 cm</b>	<b>Straight</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.020" (0.52 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.81 mL</b>
28MC2411045	2.8F	2.4F	110 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.63 mL
28MC2413045	2.8F	2.4F	130 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.70 mL
28MC2415045	2.8F	2.4F	150 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.76 mL
<b>28MC2416545</b>	<b>2.8F</b>	<b>2.4F</b>	<b>165 cm</b>	<b>45 degree</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.020" (0.52 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.81 mL</b>
28MC24110SN	2.8F	2.4F	110 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.63 mL
28MC24130SN	2.8F	2.4F	130 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.70 mL
28MC24150SN	2.8F	2.4F	150 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.020" (0.52 mm)	0.018" (0.46 mm)	0.76 mL
<b>28MC24165SN</b>	<b>2.8F</b>	<b>2.4F</b>	<b>165 cm</b>	<b>Swan</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.020" (0.52 mm)</b>	<b>0.018" (0.46 mm)</b>	<b>0.81 mL</b>

# MERIT MAESTRO®

## Microcatheter

Catalog Number	Maestro Proximal OD	Maestro Distal OD	Maestro Usable Length	Maestro Tip Shape	Maestro Hydrophilic Coating Length	Maestro Distance from Tip to Markerband	Minimum Guide Cath. ID	Maestro ID	Max. Guide Wire Size	Maestro Priming Vol.
<b>2.8F NO TAPER</b>										
28MC28110ST	2.8F	2.8F	110 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.63 mL
28MC28130ST	2.8F	2.8F	130 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.70 mL
28MC28150ST	2.8F	2.8F	150 cm	Straight	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.77 mL
<b>28MC28165ST</b>	<b>2.8F</b>	<b>2.8F</b>	<b>165 cm</b>	<b>Straight</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.024" (0.62 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.82 mL</b>
28MC2811045	2.8F	2.8F	110 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.63 mL
28MC2813045	2.8F	2.8F	130 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.70 mL
28MC2815045	2.8F	2.8F	150 cm	45 degree	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.77 mL
<b>28MC2816545</b>	<b>2.8F</b>	<b>2.8F</b>	<b>165 cm</b>	<b>45 degree</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.024" (0.62 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.82 mL</b>
28MC28110SN	2.8F	2.8F	110 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.63 mL
28MC28130SN	2.8F	2.8F	130 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.70 mL
28MC28150SN	2.8F	2.8F	150 cm	Swan	80 cm	1.3 mm	0.040" (1.02 mm)	0.024" (0.62 mm)	0.021" (0.53 mm)	0.77 mL
<b>28MC28165SN</b>	<b>2.8F</b>	<b>2.8F</b>	<b>165 cm</b>	<b>Swan</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.040" (1.02 mm)</b>	<b>0.024" (0.62 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.82 mL</b>

### 2.9F NO TAPER

29MC29110ST	2.9F	2.9F	110 cm	Straight	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.69 mL
29MC29130ST	2.9F	2.9F	130 cm	Straight	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.77 mL
29MC29150ST	2.9F	2.9F	150 cm	Straight	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.85 mL
<b>29MC29165ST</b>	<b>2.9F</b>	<b>2.9F</b>	<b>165 cm</b>	<b>Straight</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.042" (1.07 mm)</b>	<b>0.027" (0.68 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.90 mL</b>
29MC2911045	2.9F	2.9F	110 cm	45 degree	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.69 mL
29MC2913045	2.9F	2.9F	130 cm	45 degree	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.77 mL
29MC2915045	2.9F	2.9F	150 cm	45 degree	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.85 mL
<b>29MC2916545</b>	<b>2.9F</b>	<b>2.9F</b>	<b>165 cm</b>	<b>45 degree</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.042" (1.07 mm)</b>	<b>0.027" (0.68 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.90 mL</b>
29MC29110SN	2.9F	2.9F	110 cm	Swan	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.69 mL
29MC29130SN	2.9F	2.9F	130 cm	Swan	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.77 mL
29MC29150SN	2.9F	2.9F	150 cm	Swan	80 cm	1.3 mm	0.042" (1.07 mm)	0.027" (0.68 mm)	0.021" (0.53 mm)	0.85 mL
<b>29MC29165SN</b>	<b>2.9F</b>	<b>2.9F</b>	<b>165 cm</b>	<b>Swan</b>	<b>80 cm</b>	<b>1.3 mm</b>	<b>0.042" (1.07 mm)</b>	<b>0.027" (0.68 mm)</b>	<b>0.021" (0.53 mm)</b>	<b>0.90 mL</b>

Packaged 1 unit per box.

## CATHETER COMPATIBILITY

Size	Maximum Microsphere Size	Maximum Particle Size	Maximum Coil Size	Maximum Injection Pressure
<b>2.8F–2.1F</b>	≤ 700 μm	≤ 500 μm	≤ 0.016" (0.41 mm)	800 psi (5,515 kPa)
<b>2.8F–2.4F</b>	≤ 700 μm	≤ 700 μm	≤ 0.018" (0.46 mm)	800 psi (5,515 kPa)
<b>2.8F–2.8F</b>	≤ 700 μm	≤ 700 μm	≤ 0.018" (0.46 mm)	800 psi (5,515 kPa)
<b>2.9F–2.9F</b>	≤ 900 μm	≤ 900 μm	— — — — —	800 psi (5,515 kPa)

Data on File

Before using refer to Instructions for Use for indications, contraindications, warnings, precautions, and directions for use.



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