

# ASAHI *Corsair Pro* Microcatheter

ASAHI Corsair Pro/ver.1/AMC-K16288



“ASAHI”, “Corsair Pro”, “Corsair”, “Tornus”, and “Caravel” are trademarks or registered trademarks of ASAHI INTECC CO., LTD. In Japan and other countries. All other trademarks are the property of their respective owners.

©2017 ASAHI INTECC CO., LTD

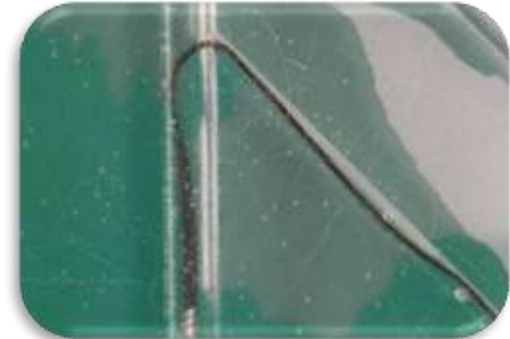
Delivering excellence through  
evolution and tradition.





# **Corsair Pro: Improvements from Corsair**

**Increased Trackability**



**Kink-resistant Hub**



**Less Corsair Fatigue**



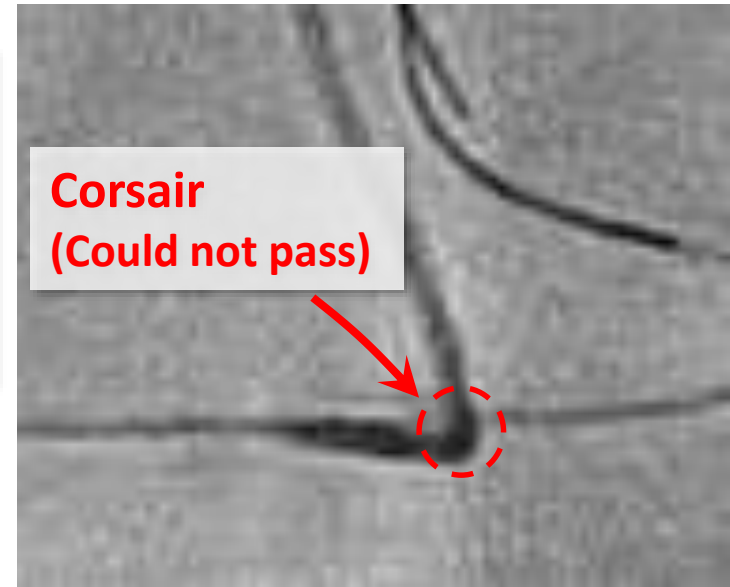
## Current ASAHI Corsair's problem

There are cases in which Corsair could not cross because of the severe bending in collateral channel.



## Aim of ASAHI Corsair Pro

By minimizing the stiffness difference between the tip and the shaft, Corsair Pro will be able to track tortuous vessels, which improves its ability to cross challenging anatomy.



# Coil marker

**Corsair:** Coil marker adds stiffness to the junction point of the polyurethane tip and the braiding of the shaft, which affects the trackability.

**Corsair Pro:** Coil marker is removed to increase flexibility.

**Even though Corsair Pro does not have the coil marker, the tip is still visible under fluoroscopy thanks to the tungsten loaded polyurethane.**

Corsair    ant galiuko yra volframo – platinos ar lygiaver io lydinio iki 0,8 mm dydžio žymeklis;



Corsair Pro





# Tip to Shaft Connection

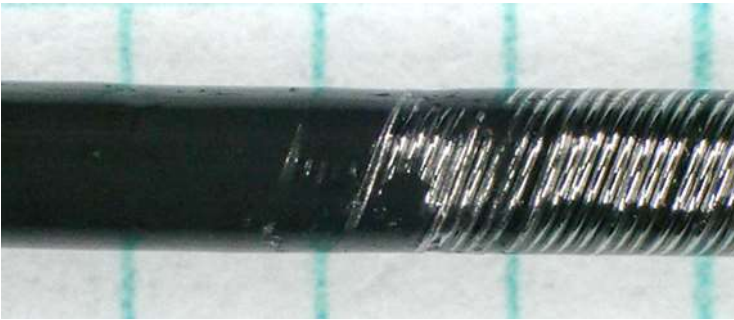
**Corsair:** Polyurethane material of the tip leaks into the coil, preventing a smooth transmission, which affects the trackability.

*galiukas prijungtas prie kateterio k no be standžios zonos;*

**Corsair Pro:** Polyurethane is controlled in order to create a smooth transmission to increase trackability.

**After rotation Corsair Pro maintains its trackability while trackability of Corsair deteriorates.**

Corsair



Corsair: after rotation



**Damage occurs at transition point.**

Corsair Pro

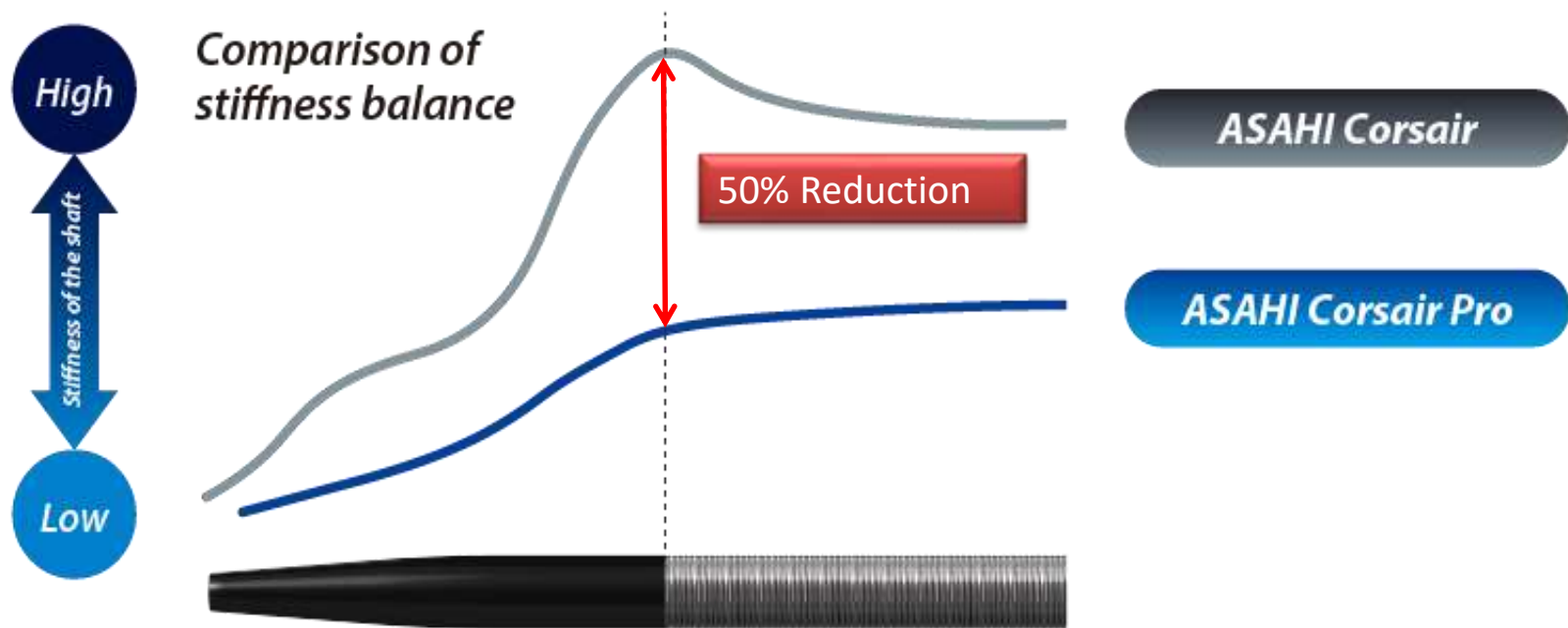


Corsair Pro: after rotation



Comparison of stiffness balance between ASAHI Corsair and ASAHI Corsair Pro:  
Reduction of stiffness due to removal of marker and controlled polyurethane  
leads to increased flexibility.



mikrokateterio sienel – iš poliamido ar lygiaverio polimero, kurio kietumas tolygiai distaliau mažėja;





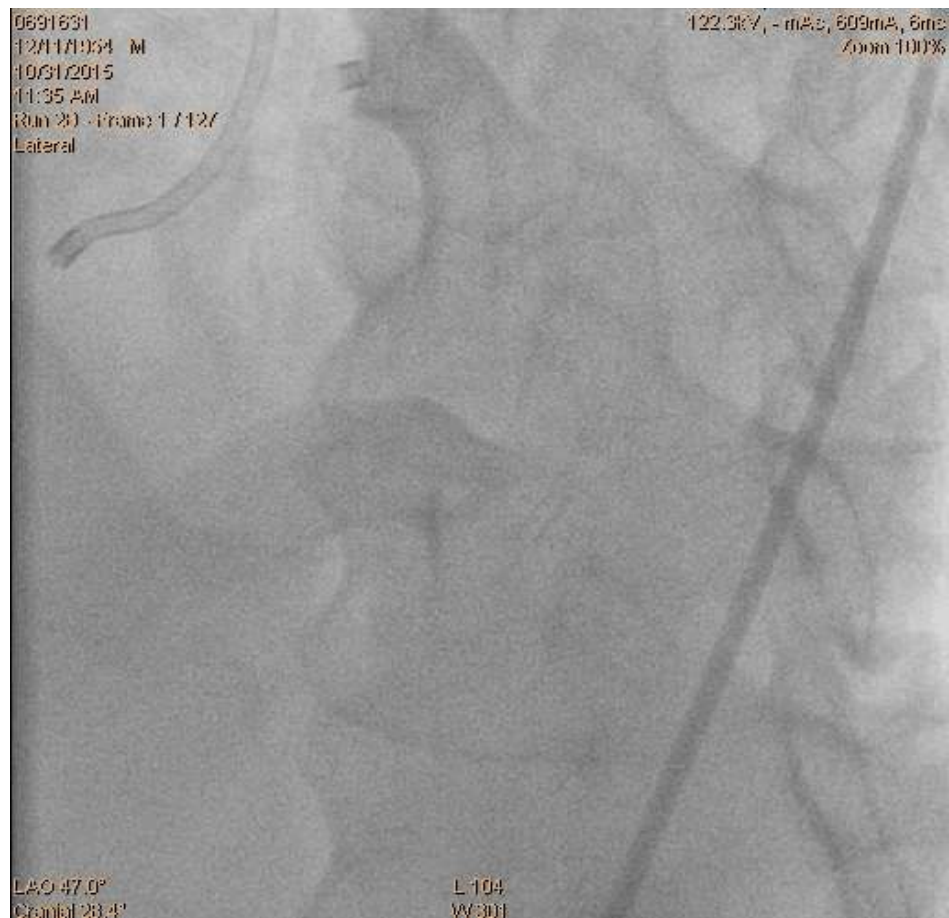
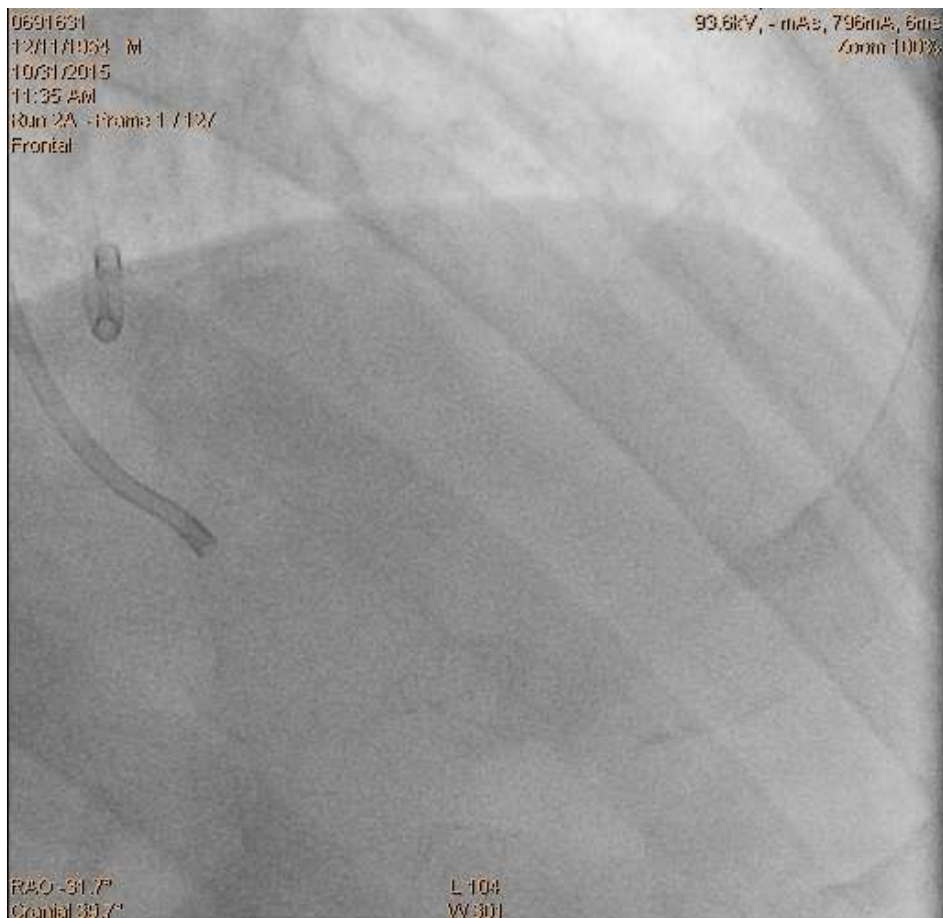
# Increased trackability

Evaluation of improved crossing using a bending model in which Corsair could not pass.

	Corsair	Corsair Pro
<b>Movie</b>		
<b>Result</b>	Could not track across tortuous segment by pushing or torqueing catheter	<u>Crossed tortuous segment with pushing alone.</u>

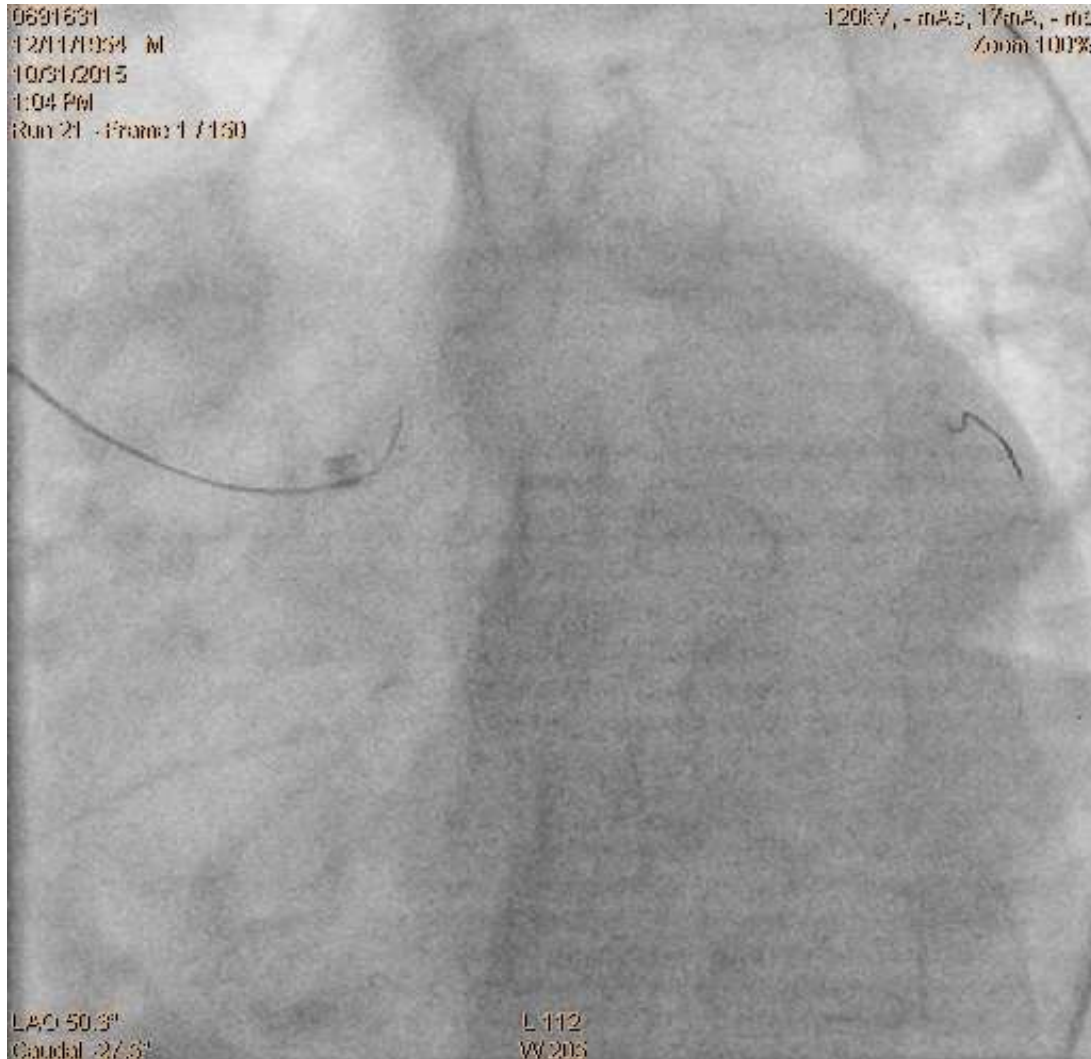
# Increased trackability

**ASAHI**  
**Corsair Pro**  
Microcatheter

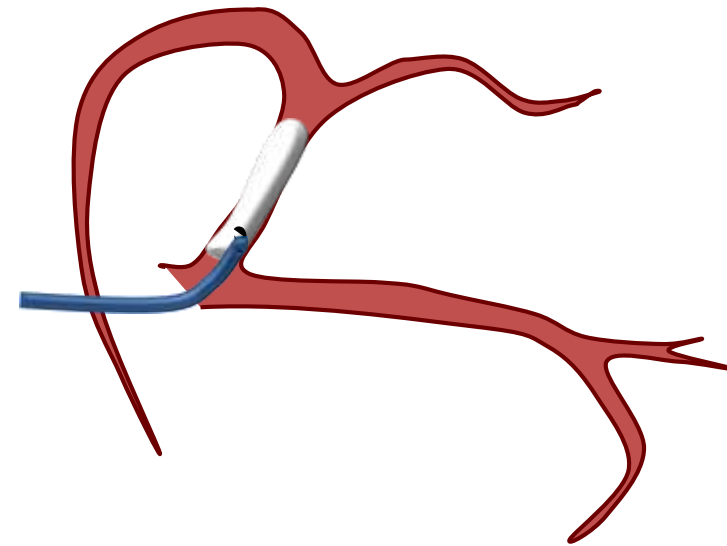




# Increased trackability



Corsair Pro follows the wire, which is into the target vessel only a few millimeters, without prolapsing the wire.





# Kink-resistant Hub

## Use of spiral protector

Flexibility of the Proximal hub is improved to improve catheter durability.



Improved proximal hub protects the proximal shaft when bent during catheter advancement or withdrawal

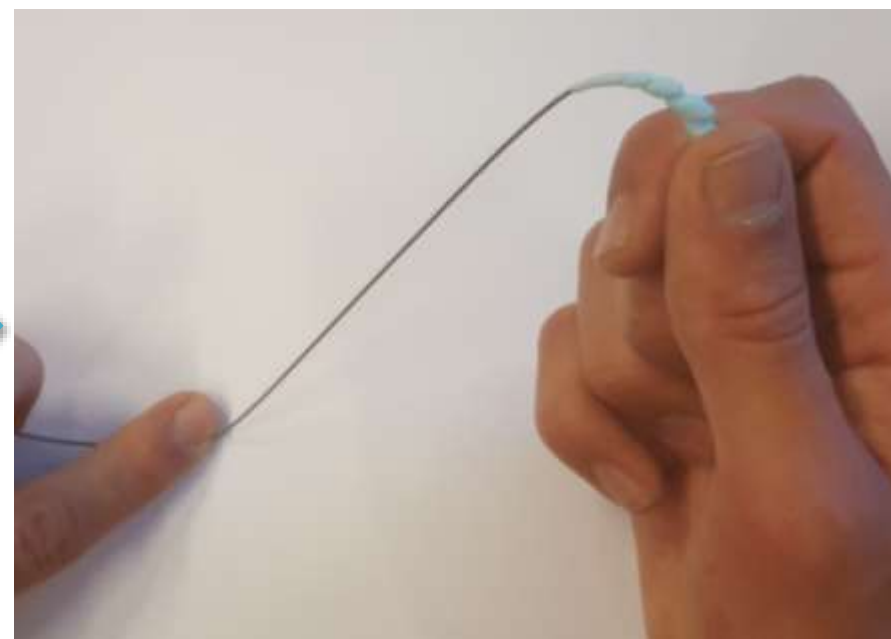
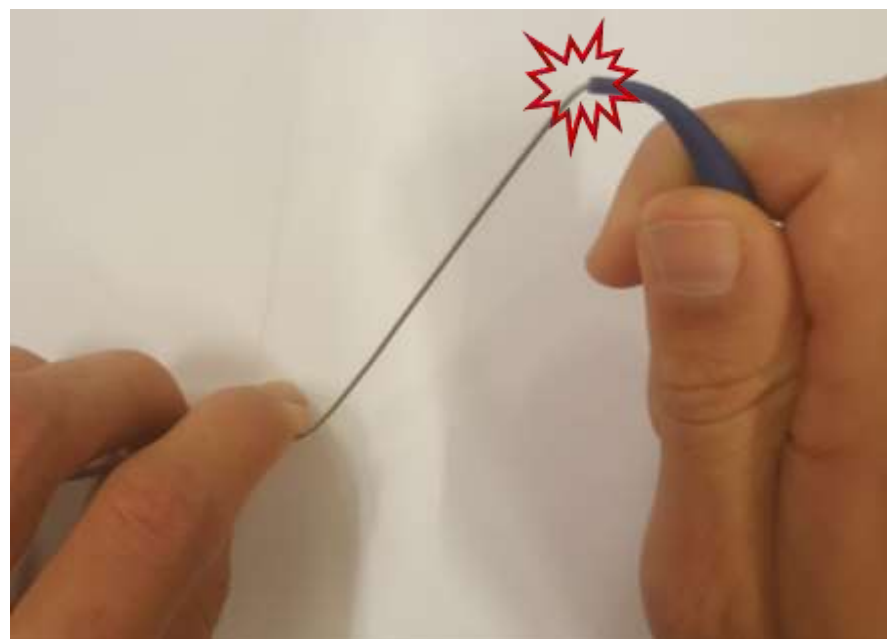


# Proximal Hub Protector

13  
**ASAHI**  
**Corsair Pro**  
Microcatheter

**ASAHI**  
**Corsair**  
Microcatheter

**ASAHI**  
**Corsair Pro**  
Microcatheter

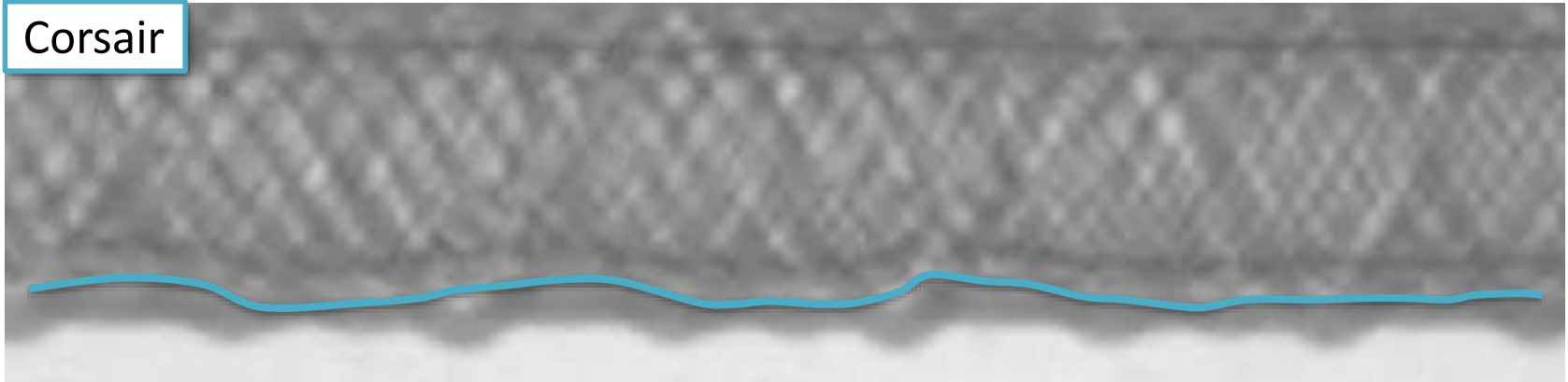


# Improved durability

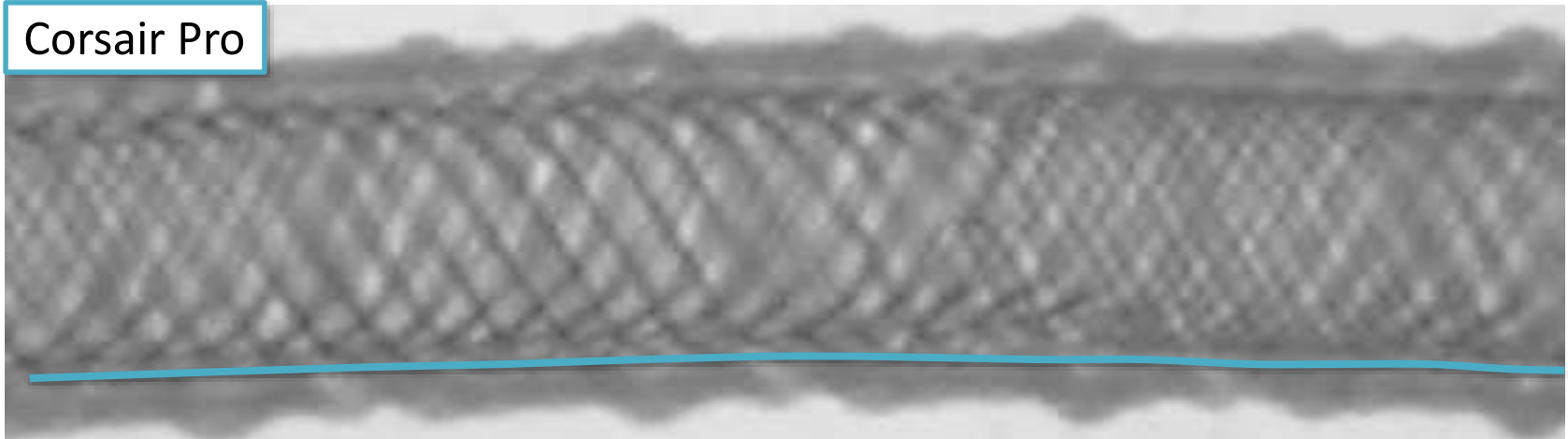
**ASAHI**  
**Corsair Pro**  
Microcatheter

After rotation with the conventional hub while it is bent at the proximal part, the coating on the Corsair shaft was worn and braid structure was damaged. Outline of the catheter became distorted (blue line). Corsair Pro maintains its linearity.

Corsair



Corsair Pro





## Lubricity

60cm hydrophilic coating



- ✓ The hydrophilic coating optimizes catheter performance and crossing ability in tortuous anatomy and complex lesions
- ✓ The 60cm hydrophilic coating of Corsair Pro is optimized to balance backup support and catheter crossing performance

# Summary of changes

**ASAHI**  
**Corsair Pro**  
Microcatheter

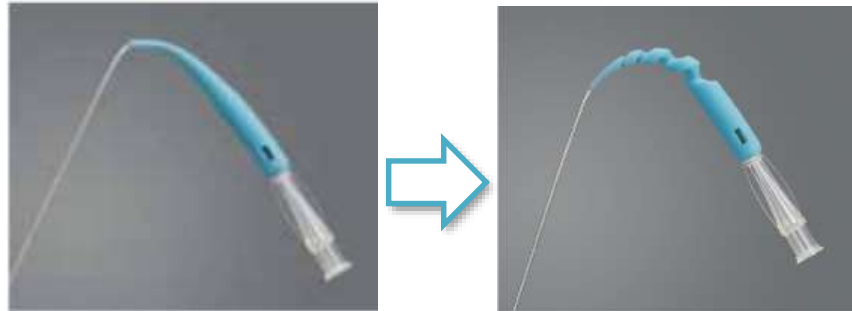
1



2



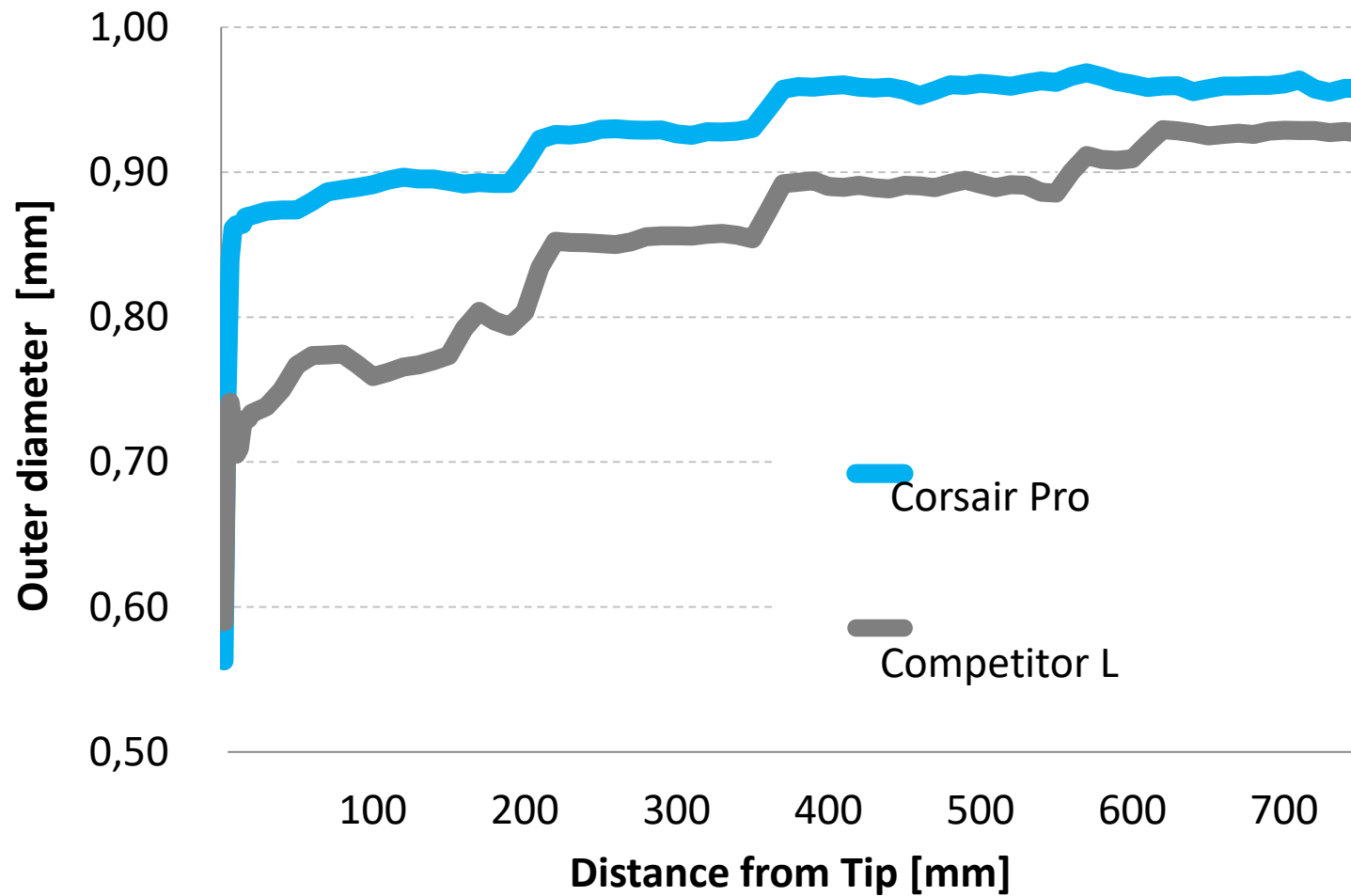
3



# Competitor Analysis



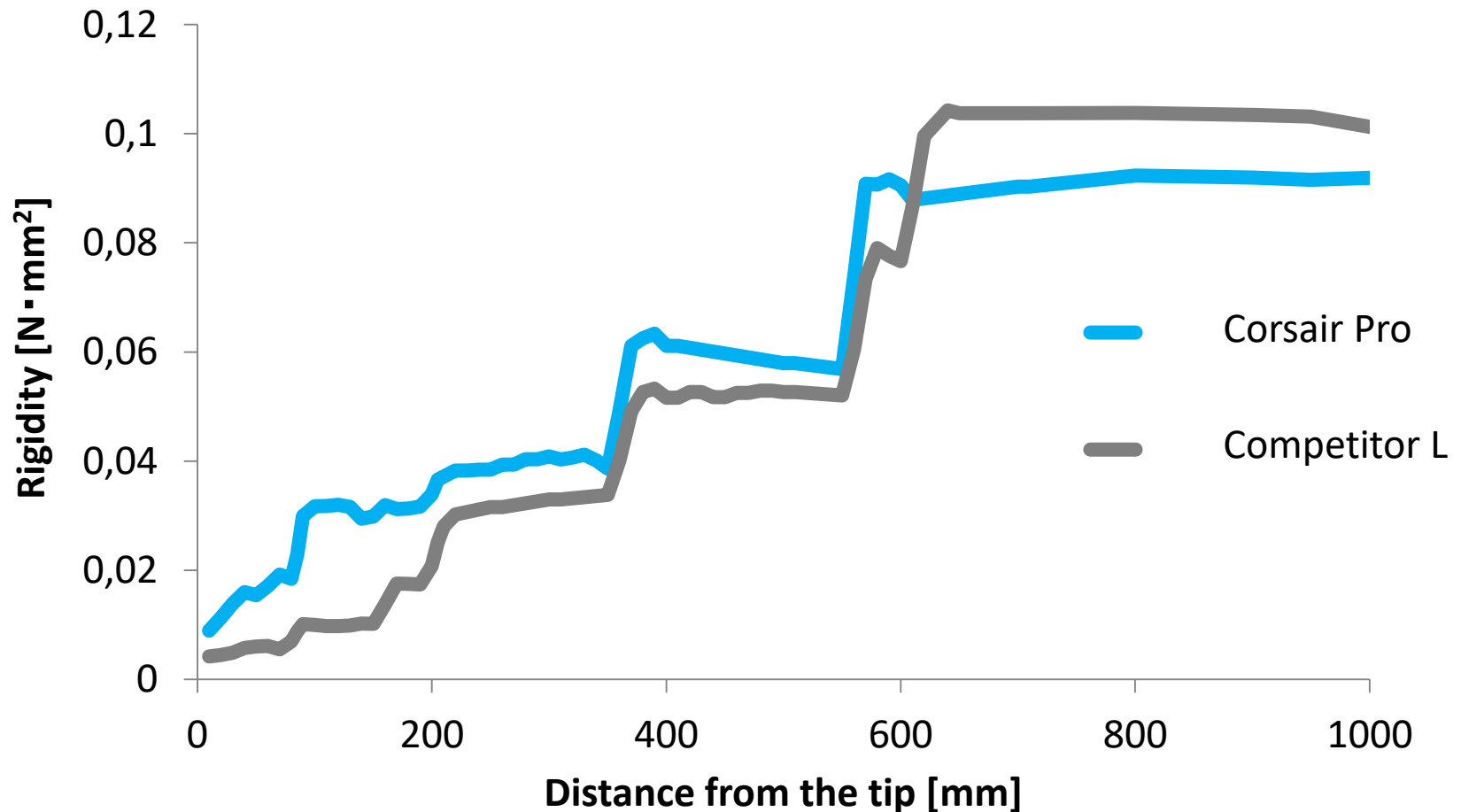
# Shaft O.D.



This above data was obtained by company standardized test, which may differ from industry standardized tests.  
This above data does not guarantee that all devices have exactly the same performance with the samples used for tests.

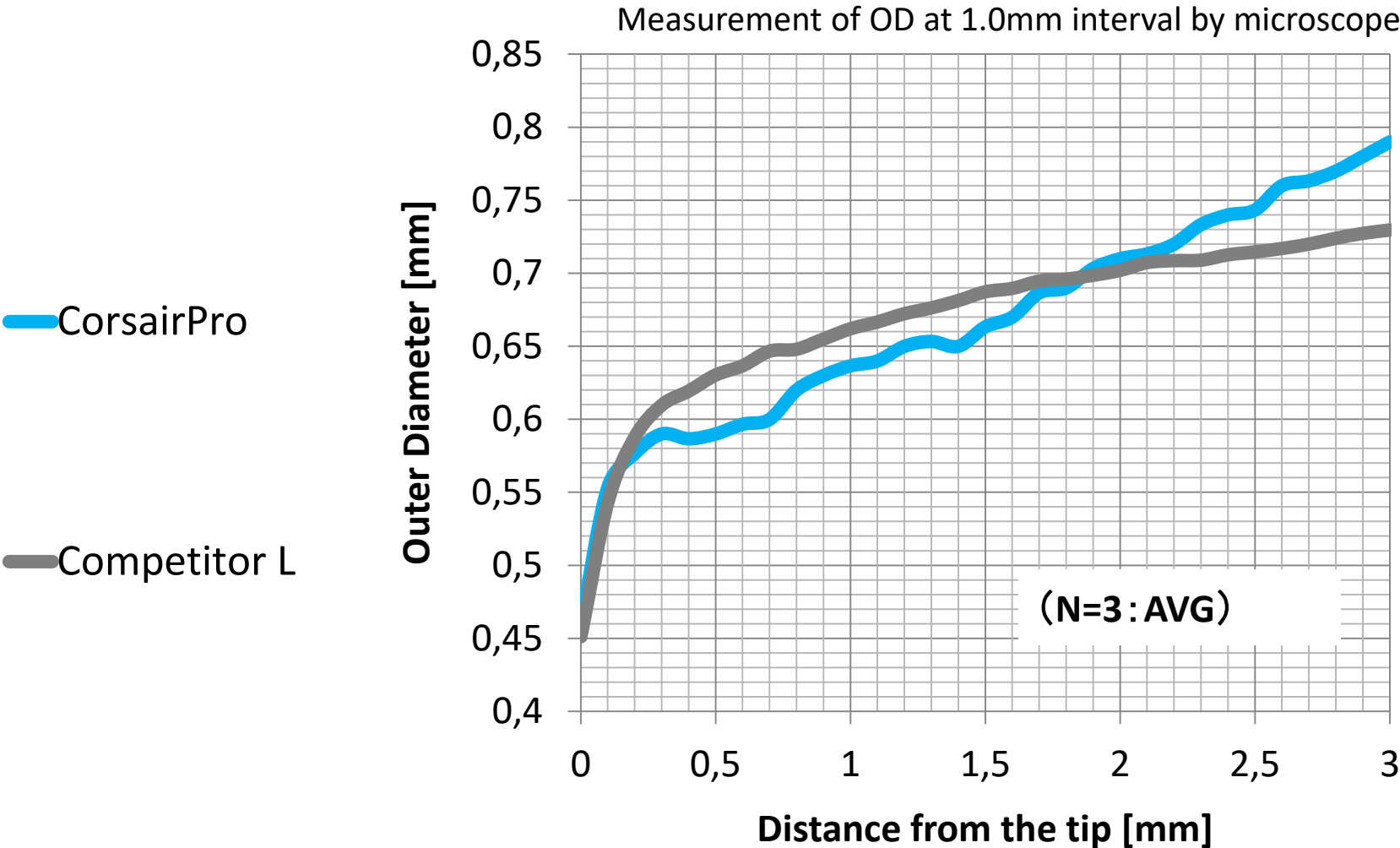
# Shaft rigidity

Measurement of the rigidity of the catheter from the tip to 1000mm of the shaft.



This above data was obtained by company standardized test, which may differ from industry standardized tests.  
This above data does not guarantee that all devices have exactly the same performance with the samples used for tests.

# Tip O.D.



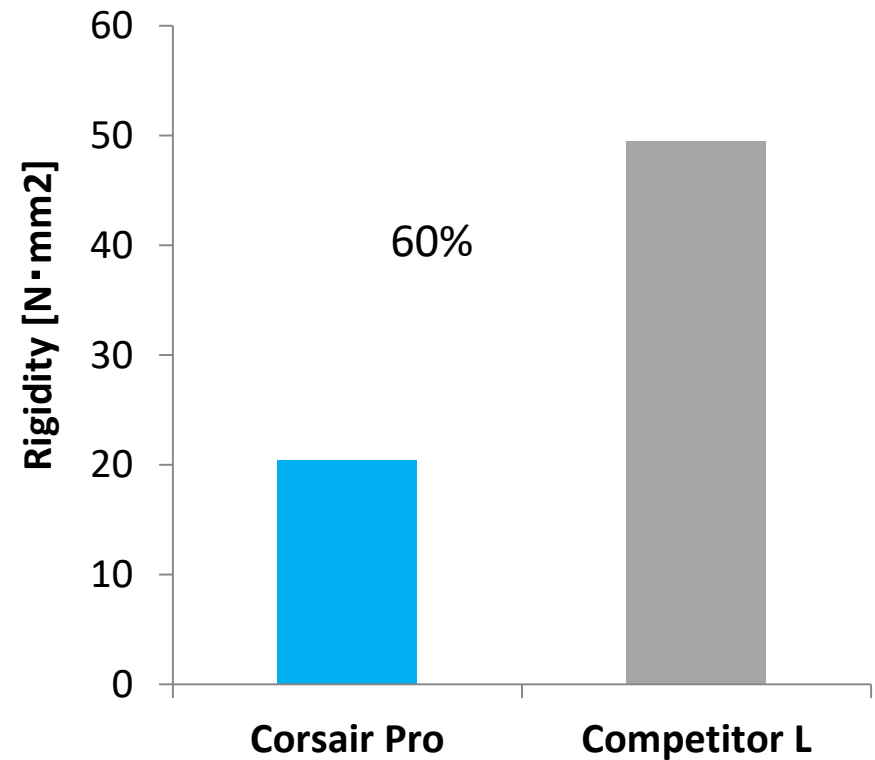
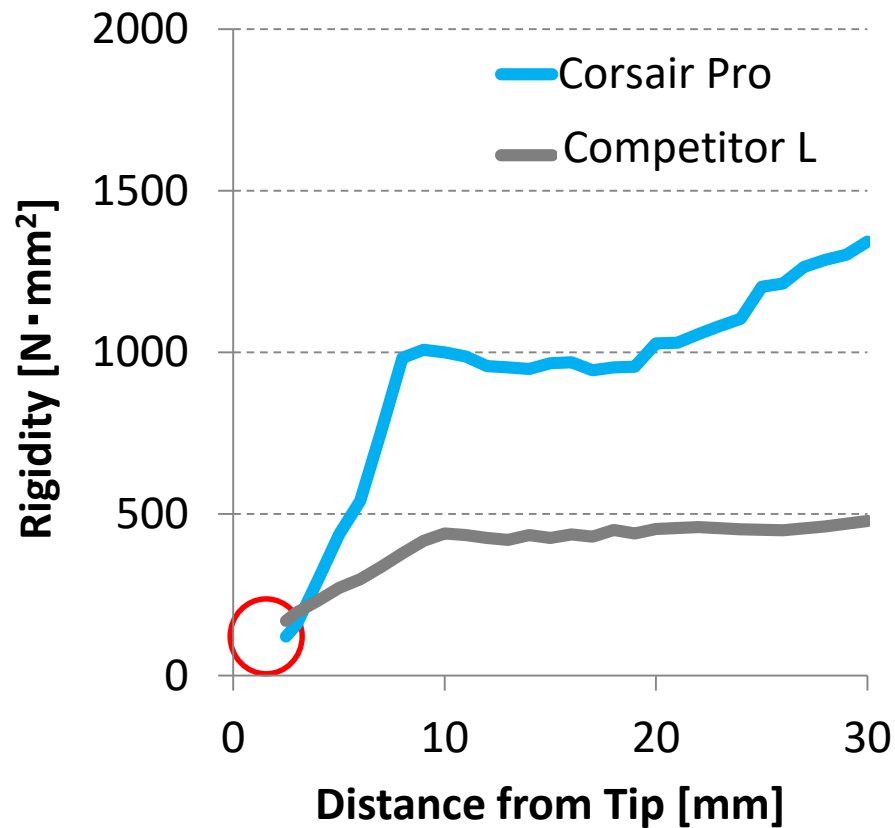
This above data was obtained by company standardized test, which may differ from industry standardized tests.  
This above data does not guarantee that all devices have exactly the same performance with the samples used for tests.



# Tip flexibility

Flexibility of the tip of the catheter

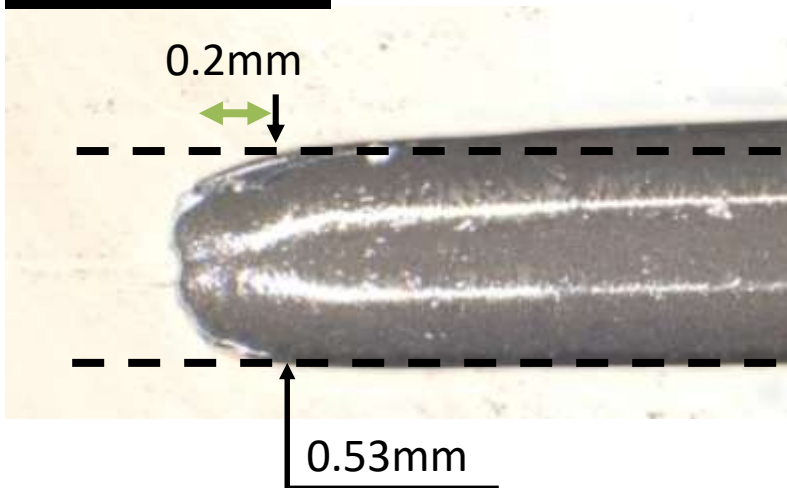
Tip flexibility(@2mm)



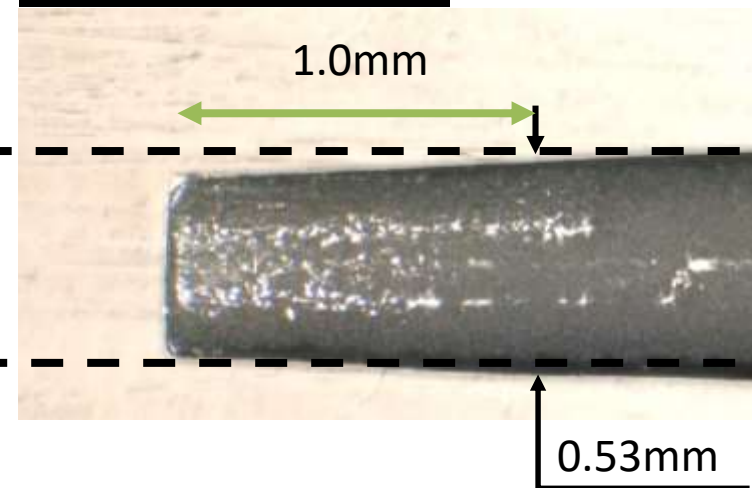
Longer taper of Corsair Pro tip increases trackability, and entry into tight occlusions.

## Comparison of Tip appearance

**Competitor L**

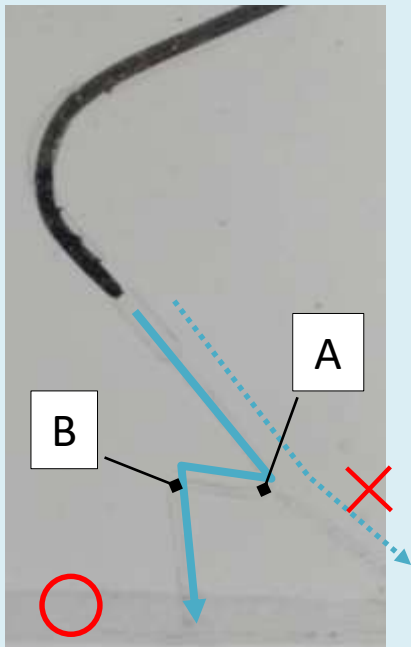


**Corsair Pro**



# Collateral/Side-branch crossing

## Side-branch model



※GW: XT-R

Test method:  
Basic manipulation method is pushing. When the microcatheter cannot advance further, add rotational manipulation maximum 10 times each side.

## Competitor L



## Competitor M



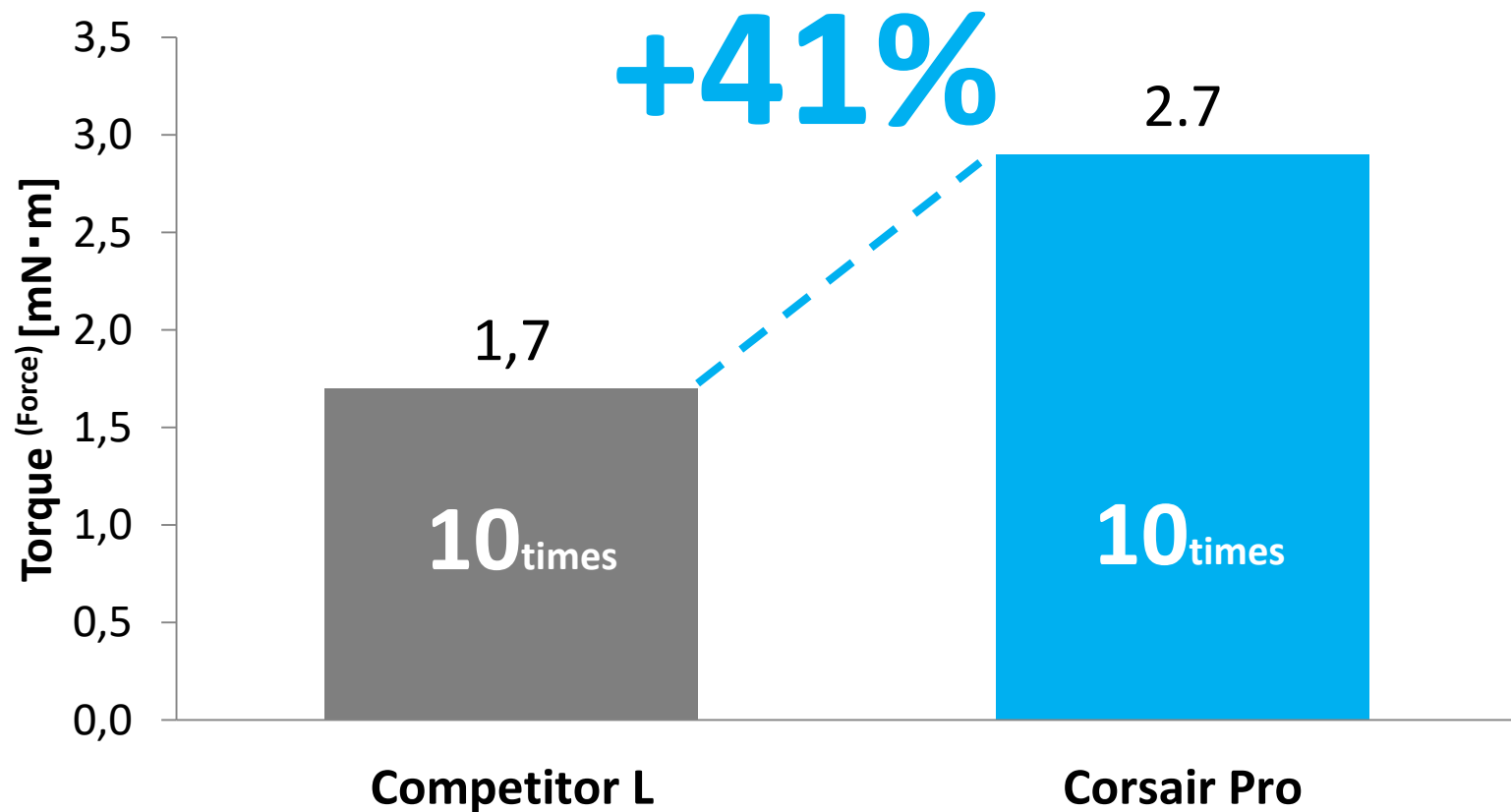
## Corsair Pro





# Torque

Measure the torque force at the distal shaft when the proximal shaft is rotated clockwise



This above data was obtained by company standardized test, which may differ from industry standardized tests.  
This above data does not guarantee that all devices have exactly the same performance with the samples used for tests.

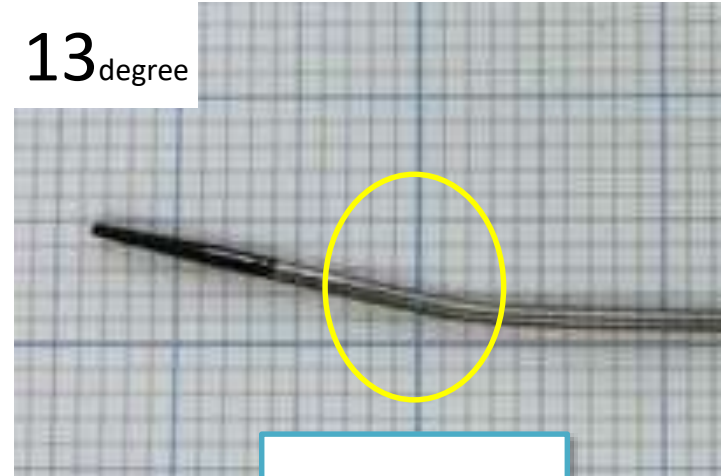
# Catheter Durability

**ASAHI**  
**Corsair Pro**  
Microcatheter

**Corsair Pro**



13<sub>degree</sub>

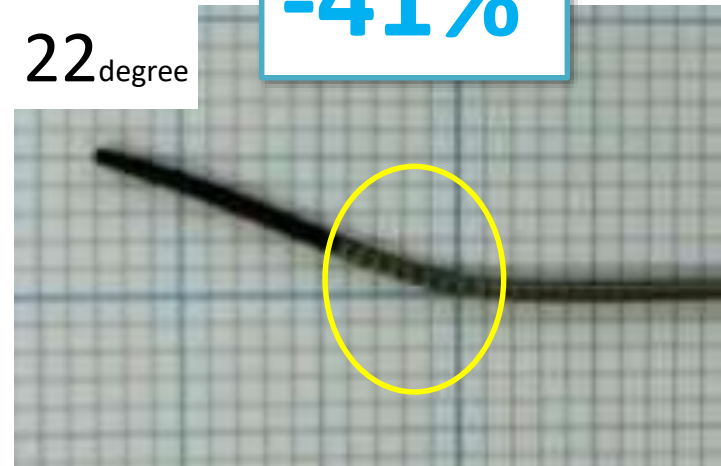


**-41%**

**Competitor L**



22<sub>degree</sub>



This above data was obtained by company standardized test, which may differ from industry standardized tests.  
This above data does not guarantee that all devices have exactly the same performance with the samples used for tests.

# **“R3” Rotational Advancement**



**“R3”**

## **“R3” : Rotation Resistance Reduction**

\*Continuous principal of ASAHI Corsair



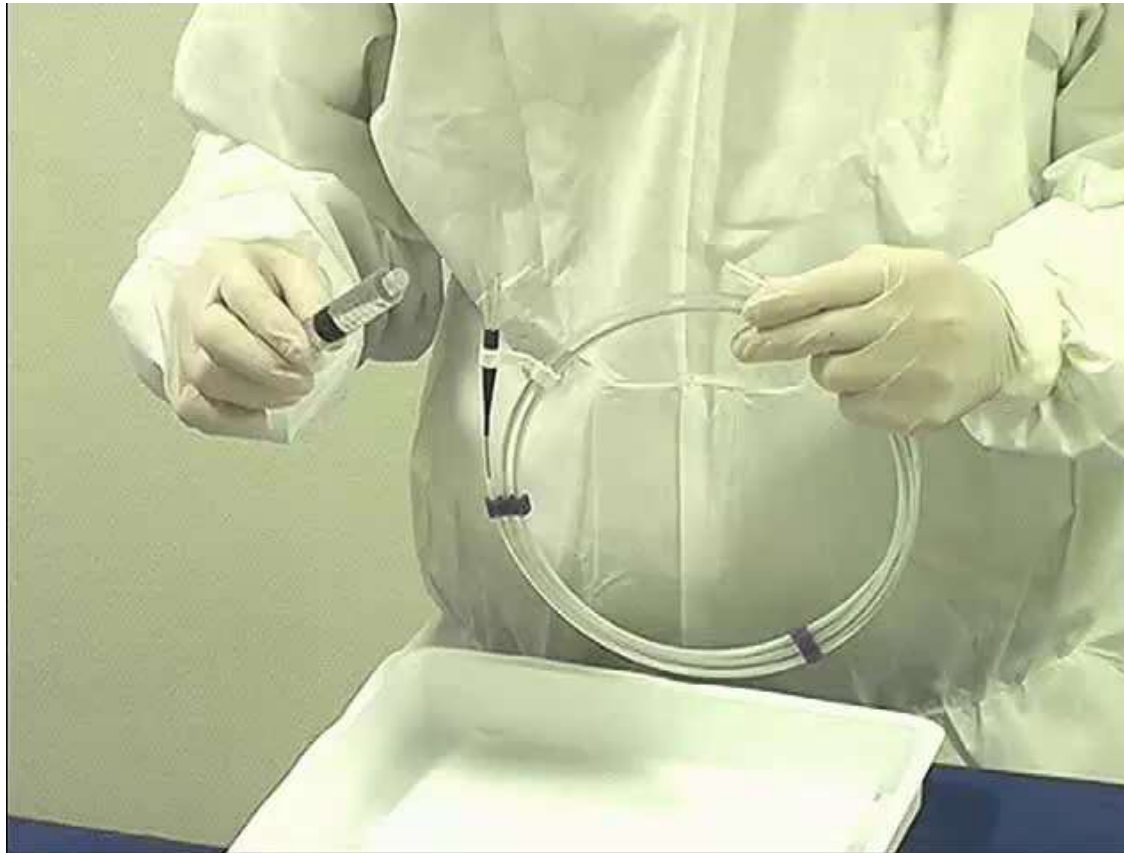
**By advancing with rotation, it reduces the friction within the vessel and enhances propulsion.**

**Maximum rotation: 10x clockwise, 10x counter-clockwise**

# Corsair Pro: How to advance

## Preparation

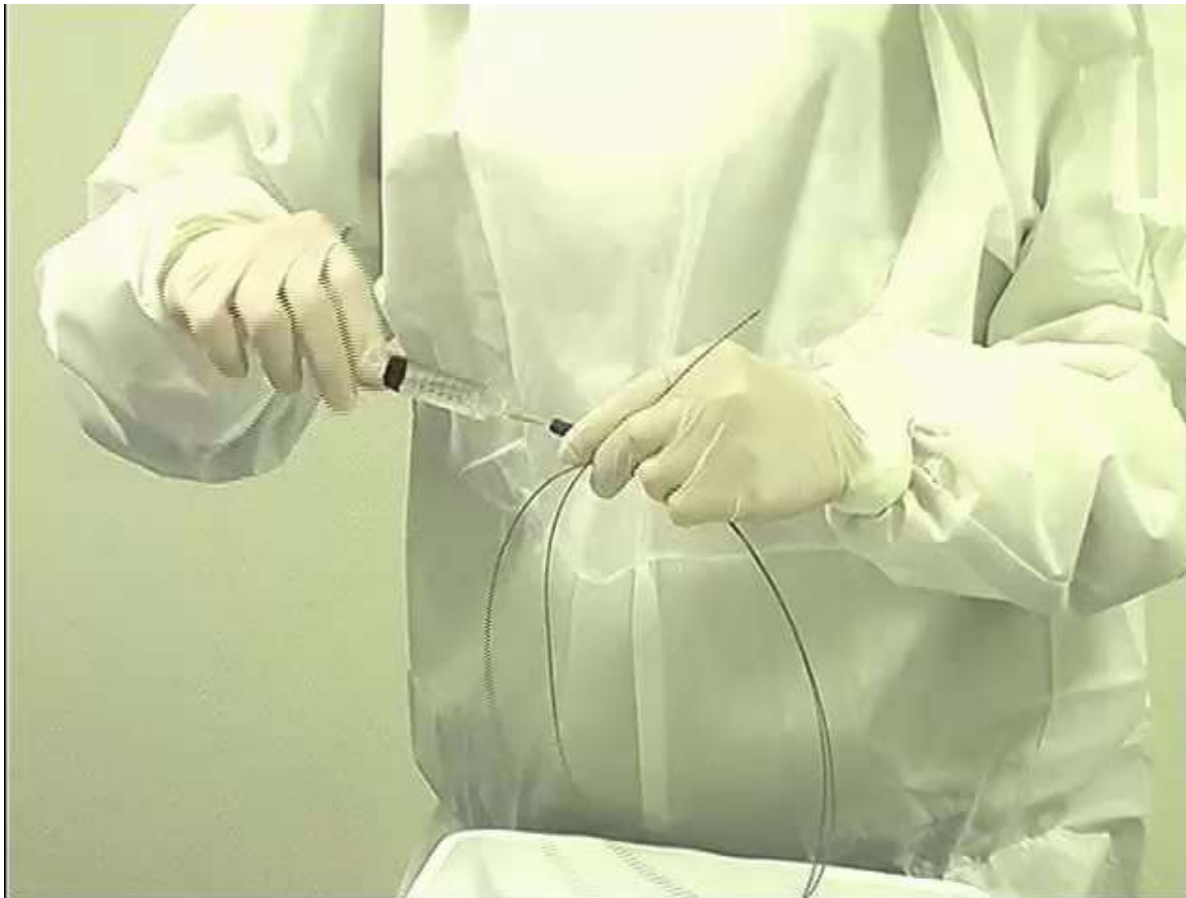
- Flush ASAHI Corsair Pro
- Carefully remove ASAHI Corsair Pro from the holder



# Corsair Pro: How to advance

## Preparation

- Flush Corsair Pro from the inside.





# Corsair Pro: How to advance

## Advancement

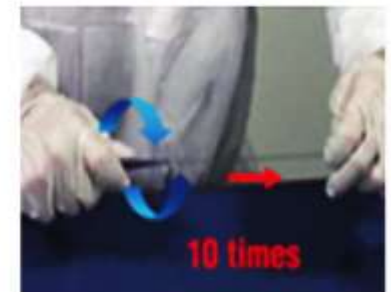
- Advance ASAHI Corsair Pro over the guide wire with one hand while holding the guide wire firmly with the other hand.
- Keep tension on the guide wire to prevent buckling of the guide wire



# Corsair Pro: How to advance

## Advancement and Rotation

- Hold a torque device to avoid rotating the guide wire with ASAHI Corsair Pro
- Use only one hand to rotate ASAHI Corsair Pro to avoid over torque
- Limit the rotation of ASAHI Corsair Pro to **10 times** in either direction
- **Wait after rotation cycle to release tension**
- Make constant check of the torque accumulation at the tip under fluoroscopy



# Corsair Pro: How to advance

## Advancement and rotation with help

- To avoid rotating the guide wire with ASahi Corsair Pro, a second operator can hold the guide wire.
- Keep tension on the guide wire to prevent buckling of the guide wire





# Corsair Pro: How to advance

## Removal

- ASAHI Corsair Pro can be removed following the same steps as general microcatheters
- Carefully rotate ASAHI Corsair Pro while removing



- ✓ Take extra caution when using the Corsair Pro in cases in which severe calcification is present, or when crossing stent struts.
- ✓ Do not advance or rotate the Corsair Pro if the tip is trapped or strong resistance is felt. Doing so may lead to damage to the coating, tip, or braiding.
- ✓ Do not rotate the catheter in the same direction, clockwise or counterclockwise, more than 10 times.
- ✓ If resistance is felt while rotating the catheter, do not proceed with further rotation even if the 10- rotation limit has not been reached. Doing so may lead to damage to the tip of the Corsair Pro.





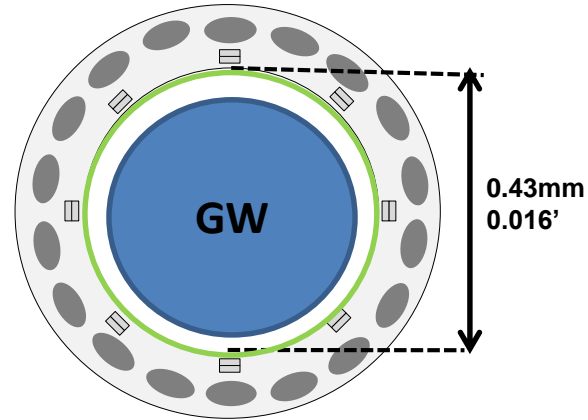


# Caravel specifications: Review

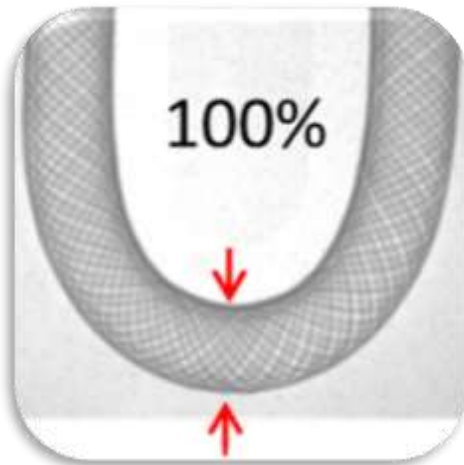
**ASAHI**  
**Corsair Pro**  
Microcatheter



Trackability and flexibility to navigate through sharp angulations



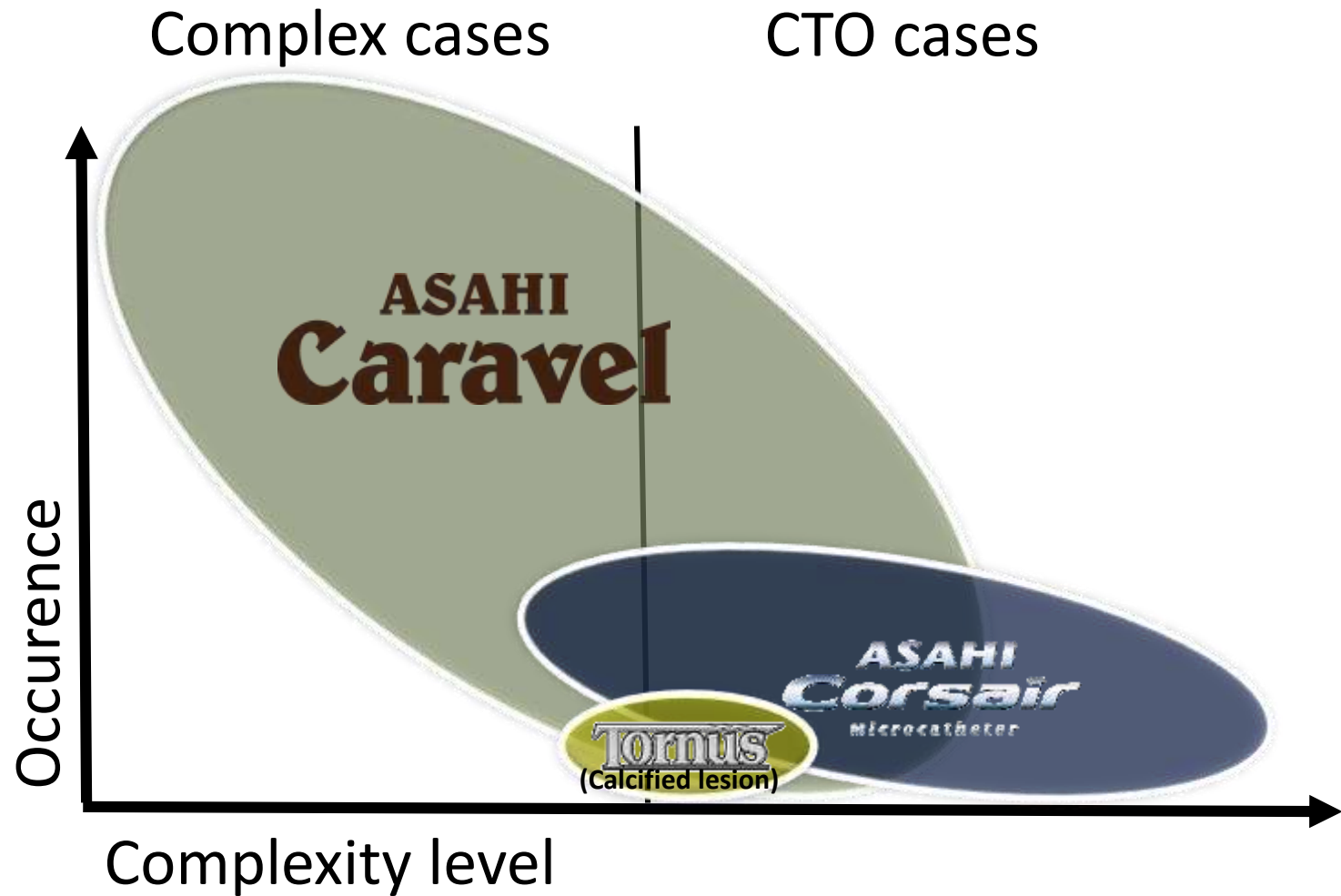
Large ID for optimal guide wire manoeuvrability



Lumen integrity to maintain working space and reduce device friction



Small OD: 2x Caravel in a 6Fr GC; Caravel + IVUS in a 7Fr GC



**ASAHI**  
**Caravel**

Caravel: highly trackable with low profile and flexibility. Suitable for tiny and tortuous collaterals.

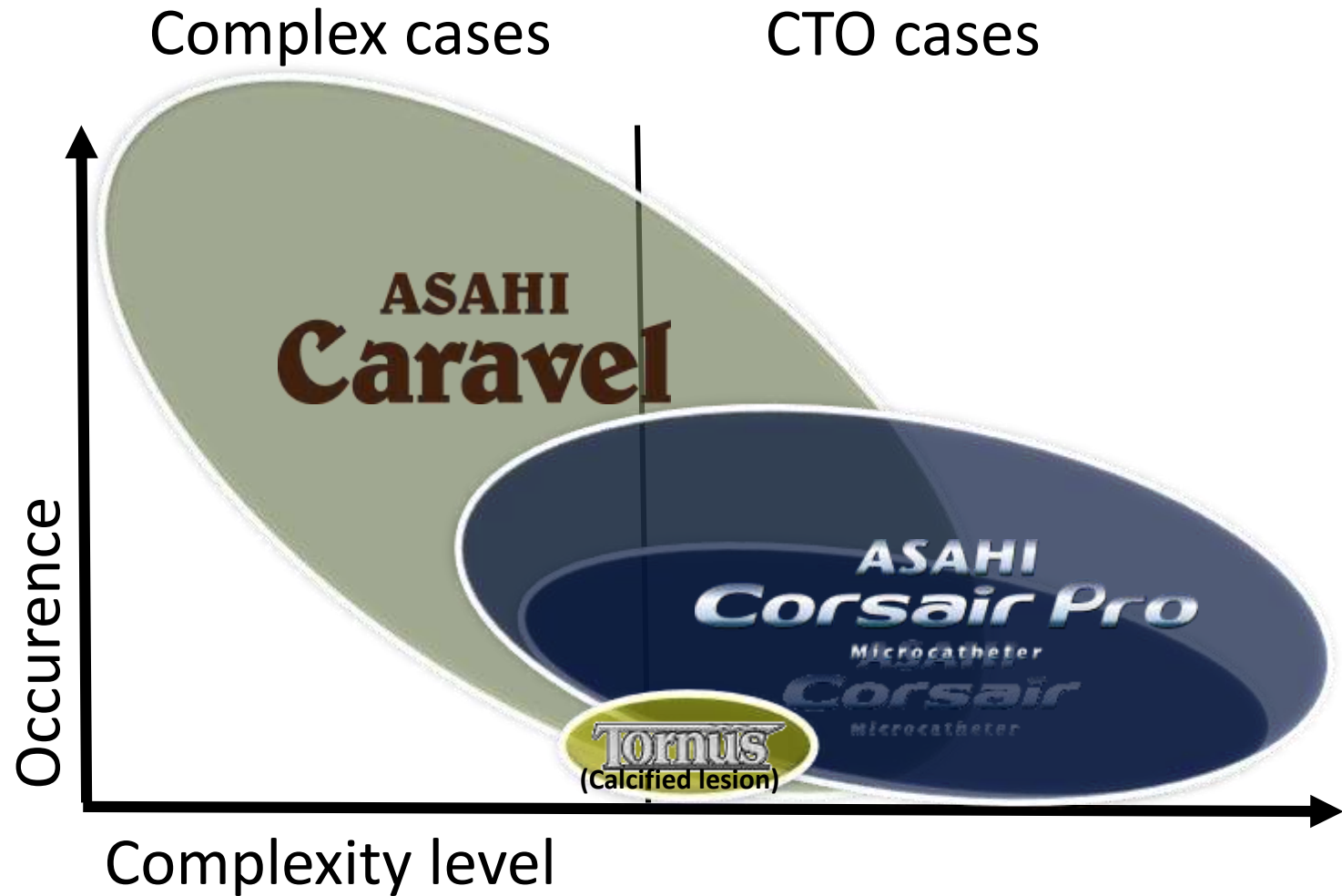
**ASAHI**  
**Corsair Pro**  
Microcatheter

Corsair Pro: great support with optimal pushability and torqueability. As trackable as low-profile mc.



# O.D. Comparison

Micro Catheter	Outer Diameter			Length(cm)
	Entry	Distal shaft	Proximal shaft	
Caravel	0.48mm	0.62mm	0.85mm	135/150
	(1.4Fr)	(1.9Fr)	(2.6Fr)	
Turnpike LP	0.53mm	0.74mm	0.97mm	135/150
	(1.6Fr)	(2.2Fr)	(2.9Fr)	
FINECROSS MG	0.60mm	0.60mm	0.87mm	130/150
	(1.8Fr)	(1.8Fr)	(2.6Fr)	
Micro 14	0.53mm	0.64mm	0.83mm	155
	(1.6Fr)	(1.9Fr)	(2.5Fr)	
Corsair Pro	0.42mm	0.87mm	0.93mm	135/150
	(1.3Fr)	(2.6Fr)	(2.8Fr)	
Turnpike	0.53mm	0.86mm	1.02mm	135/150
	(1.6Fr)	(2.6Fr)	(3.1Fr)	



**ASAHI**  
**Corsair Pro**  
Microcatheter

## Package







Catalogue No.	Shaft O.D. (Distal)	Shaft O.D. (Proximal)	Tip I.D.	Shaft I.D.	Usable length	Rec. GW
CSR135-26P	0.87mm (2.6Fr)	0.93mm (2.8Fr)	0.38mm (0.015")	0.45mm (0.018")	135cm	0.36mm (0.014")
CSR150-26P	0.87mm (2.6Fr)	0.93mm (2.8Fr)	0.38mm (0.015")	0.45mm (0.018")	150cm	0.36mm (0.014")

**Recommended GW** : 0.36mm (0.014")

**Minimum GC I.D.** 1.05mm (0.041")

- ✓ If using 2 Corsair Pro, or Corsair Pro and a balloon, at the same time, min. 7Fr GC is required
- ✓ If using the Corsair Pro with an IVUS, 8Fr. GC is required

# Ordering Information

