MASTER YOUR PROCEDURES
WITH UNMATCHED PERFORMANCE
Results show that NAVICROSS design and construction provided best-in-class performance.¹

Benchtop testing from TERUMO Corporation in Japan compares NAVICROSS® to other 0.035” support catheters:

- Quick-Cross Support Catheter
- CXI Support Catheter
- TrailBlazer Procedural Support Catheter

PUSHABILITY
WIRE SUPPORT
TORQUE CONTROL
CROSSING PROFILE
KINK RESISTANCE
**Unmatched Pushability**¹

**Test Protocol**
This test measured the ratio of load that is transmitted to the distal tip when the catheter is pushed from the proximal end.

<table>
<thead>
<tr>
<th>Power Generated at Tip (gf) n=5</th>
</tr>
</thead>
<tbody>
<tr>
<td>TrailBlazer</td>
</tr>
<tr>
<td>Quick-Cross</td>
</tr>
<tr>
<td>CXI</td>
</tr>
<tr>
<td>NAVICROSS®</td>
</tr>
</tbody>
</table>

**Clinical Benefit**
Having higher transmission ratio enables:
- Greater transfer of force along the catheter shaft
- Reduced lag time between operator hand and tip movement
- Greater distal tip control

**NAVICROSS® double-braided stainless steel construction provides an unmatched force transmission ratio.**

**NAVICROSS® Catheter Construction**
Double-braided stainless steel design runs the length of the device, giving optimal column strength without the disadvantage of distal to proximal tapering.
Highest Wire Support

Test Protocol

Three tests measured how much power the wire generated at the tip when it was pushed 2.5 mm, 5 mm, and 10 mm at the proximal end. The average between all three measurements was calculated.

The NAVICROSS® tapered tip provided the highest wire support.

Clinical Benefit

Having increased wire support enables:
- Better wire control
- Higher wire pushability across complex lesions
- Decreased wire slop / buckling within the support catheter

NAVICROSS® Catheter Construction

A near seamless catheter-to-guidewire transition provides increased wire support, which may increase lesion crossing capability.
Optimal Torque Control

Test Protocol

The test model mimicked moderate tortuosity and acute takeoffs typically found in iliac bifurcations. The catheter was rotated at the proximal end, and the distal tip response measurement was recorded.

Clinical Benefit

Having optimal torque control enables:

- Greater hub-to-tip response
- Increased catheter and wire control
- Aid to the operator in vessel and microchannel selection, as well as wire advancement

NAVICROSS® double-braided stainless steel construction provides optimal torque control, avoiding overshooting and minimizing delayed tip response.

NAVICROSS® Catheter Construction

Double-braided stainless steel design runs the length of the device, resulting in near 1:1 torque. Combined with the 30° angled version, it provides the operator with an ideal solution for Above-the-Knee (ATK) and Below-the-Knee (BTK) lesion crossing.
Smallest Crossing Profile

Test Protocol
All catheter outer diameters were measured to determine the smallest crossing profile. Images were also taken to show catheter-to-guidewire transitions.

Clinical Benefit
Having a low crossing profile enables:
- Improved wire support
- Smoother catheter tracking through complex lesions and tortuous anatomy

NAVICROSS® has the smallest crossing profile with an 0.037” OD. It also has a double-tapered tip, which aids in a seamless transition from catheter to guidewire.

NAVICROSS® Catheter Construction
Double-tapered tip provides the smallest crossing profile, giving a near seamless catheter-to-guidewire transition to aid in crossing simple or complex lesions.
Most Kink Resistant

Test Protocol
Each catheter’s kink resistance was established by winding them around pegs of varying sizes beginning at 10 mm diameters and reducing at 1 mm increments.

<table>
<thead>
<tr>
<th>Loop Diameter (mm)</th>
<th>NAVICROSS®</th>
<th>Quick-Cross</th>
<th>TrailBlazer</th>
<th>CXI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10  9  8  7  6  5  4</td>
<td>10  9  8  7  6</td>
<td>10  9  8  7  6</td>
<td>10  9  8  7  6</td>
</tr>
</tbody>
</table>

n=5

NAVICROSS® has the highest kink resistance, having the ability to wrap around a 4 mm peg without kinking.

Clinical Benefit
Having a higher kink resistance enables:
- Better navigation through tortuous anatomy
- Retention of luminal integrity
- Reduced need for replacement devices

NAVICROSS® Catheter Construction
Improved strain relief at the hub and double-braided design gives NAVICROSS® increased column strength, which may help to prevent catheter kinking and maintain inner lumen integrity.
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 achieve better outcomes for more patients.

NAVICROSS® Support Catheters

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>WIRE COMPATIBILITY</th>
<th>CATHETER LENGTH</th>
<th>TIP SHAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC35650</td>
<td>0.035&quot;</td>
<td>65 cm</td>
<td>Straight</td>
</tr>
<tr>
<td>NC35651</td>
<td>0.035&quot;</td>
<td>65 cm</td>
<td>30º Angle</td>
</tr>
<tr>
<td>NC35900</td>
<td>0.035&quot;</td>
<td>90 cm</td>
<td>Straight</td>
</tr>
<tr>
<td>NC35901</td>
<td>0.035&quot;</td>
<td>90 cm</td>
<td>30º Angle</td>
</tr>
<tr>
<td>NC35130</td>
<td>0.035&quot;</td>
<td>135 cm</td>
<td>Straight</td>
</tr>
<tr>
<td>NC35131</td>
<td>0.035&quot;</td>
<td>135 cm</td>
<td>30º Angle</td>
</tr>
<tr>
<td>NC35150</td>
<td>0.035&quot;</td>
<td>150 cm</td>
<td>Straight</td>
</tr>
<tr>
<td>NC35151</td>
<td>0.035&quot;</td>
<td>150 cm</td>
<td>30º Angle</td>
</tr>
</tbody>
</table>

Three Radiopaque Markers
- Markers facilitate accurate assessment of position
- Unique spacing provides easy measurement of common stent and balloon sizes
- Embedded marker is 1 mm from distal tip; 40 mm and 60 mm spacing

Minimum Sheath Compatibility: 4 Fr

Double-braided stainless steel
Affords best-in-class pushability and torque control for lesion crossing

12 mm Tapered Tip
Provides seamless guidewire-to-catheter transition, facilitating lesion access and crossing

Straight and 30º Angled Tips
Tips allow access to vascular branches, including BTK collaterals

FIND OUT MORE  Phone: 800.862.4143  terumois.com  Fax: 800.411.5870

Reference:

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

©2019 Terumo Medical Corporation. All rights reserved. The third-party trademarks used herein are trademarks of their respective owners. All other brand names are trademarks or registered trademarks of Terumo. PM-02177