LITe®
Pedicle access solution
Pedicle access using Tiger needles and patented Y-Wire MIS guidewire technology

The intelligently engineered Tiger pedicle access needles are designed to provide a pedicle access solution. All Tiger needles have been engineered to deliver the Y-Wire, a patented guidewire designed to minimize inadvertent advancement of the wire through bone.

The Tiger needle family includes four unique offerings.

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>TN-100</td>
<td>Tiger Cub</td>
<td></td>
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<tr>
<td>TN-200</td>
<td>Tiger Needle Express</td>
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<tr>
<td>TN-300</td>
<td>Tiger Needle Express with Broach</td>
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<tr>
<td>TN-400</td>
<td>Tiger Needle</td>
<td></td>
</tr>
</tbody>
</table>

**Tiger Needle TN-300**

- **Stylet with trocar tip**
- **12.6mm diameter footprint fits within most screw tower incisions**
- **Allows for controlled, threaded needle advancement and back-out**
- **Designed for rapid, accurate needle depth measurement**
- **Allows for quick needle insertion to a shoulder-limited initial depth of 20mm**
- **Beveled tip**

**Diameter** | **Tip length range** | **Compatibility**
---|---|---
TN-100 | 2.9mm (11 gauge) | 42mm | Compatible with Y-Wires up to Ø1.5mm
TN-200 | 2.9mm (11 gauge) | 15mm – 35mm | Compatible with Y-Wires up to Ø1.5mm
TN-300 | 2.9mm (11 gauge) | 15mm – 35mm | Compatible with Y-Wires up to Ø1.5mm
TN-400 | 3.7mm (10 gauge) | 20mm – 45mm | Compatible with Y-Wires up to Ø1.5mm
Y-Wire MIS guidewire technology

Designed to minimize forward motion of wires during surgery.

Guidewires are crucial to Minimally Invasive Surgery (MIS). The Y-Wire is made from highly polished Nitinol material with a patented Y tip, and was designed to mitigate the potential issues of:

- Guidewires **advancing**
- Guidewires **kinking**
- Bending guidewires out of the surgical site

How the Y-Wire works

1. As the Y-Wire exits the pedicle access needle, its tips begin to open. Advancing the Y-Wire allows the tips to spread further.

2. Full deployment generally occurs at 10-15mm. The splayed tips are designed to engage bone and resist further advancement.

Average force to displace

![Graph showing average force to displace](image1)

*Average force for a guidewire to break through cortical bone*

## Compare Tiger needles

<table>
<thead>
<tr>
<th>Cub</th>
<th>Express</th>
<th>Tiger</th>
</tr>
</thead>
<tbody>
<tr>
<td>TN-100</td>
<td>TN-200</td>
<td>TN-300</td>
</tr>
<tr>
<td>TN-400</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Y-Wire compatibility
All Tiger pedicle access needles are designed to be compatible with Y-Wire, a patented guidewire designed to minimize inadvertent advancement of the wire through bone.

### Mechanical needle control
A threaded mechanism allows the surgeon to control advancement and retraction of the needle through bone. Designed to mitigate potential issues associated with impact advancement and removal of needle. The Tiger TN-400 also features mechanical removal of the needle cannula from the tap sheath.

### Integral broach
Built-in broach at the tip of the needle reams a Ø4.5mm hole 15mm into the pedicle and provides a one-step 30mm deposit of the Y-Wire into the vertebral body.

### Tap sheath (Jack Screw)
Allows placement of a tap tube during initial pedicle access and cannulation.

### Needle depth measurement
A built-in measurement system is designed for rapid determination of needle and insertion depth.

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A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

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