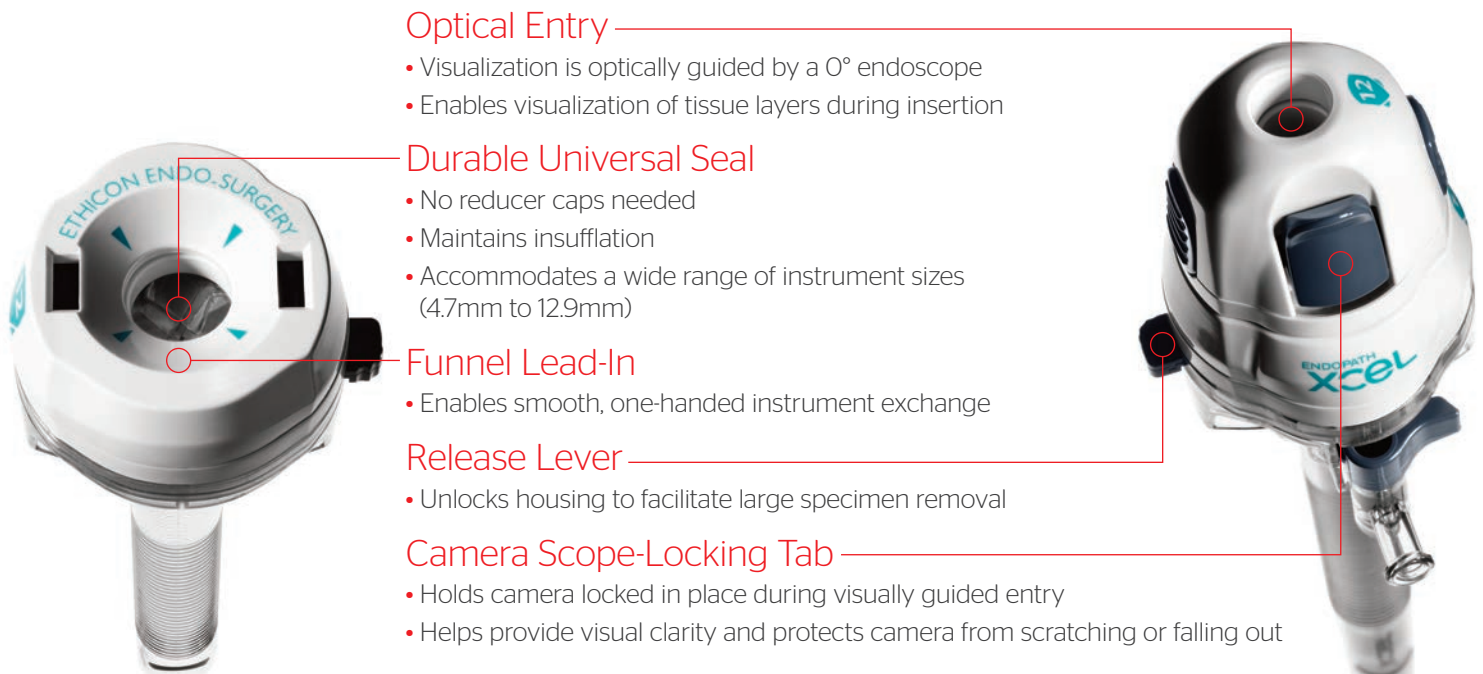


ENDOPATH XCEL® Bladeless Trocars



Optical Entry

- Visualization is optically guided by a 0° endoscope
- Enables visualization of tissue layers during insertion

Durable Universal Seal

- No reducer caps needed
- Maintains insufflation
- Accommodates a wide range of instrument sizes (4.7mm to 12.9mm)

Funnel Lead-In

- Enables smooth, one-handed instrument exchange

Release Lever

- Unlocks housing to facilitate large specimen removal

Camera Scope-Locking Tab

- Holds camera locked in place during visually guided entry
- Helps provide visual clarity and protects camera from scratching or falling out

Recessed Stopcock Valve

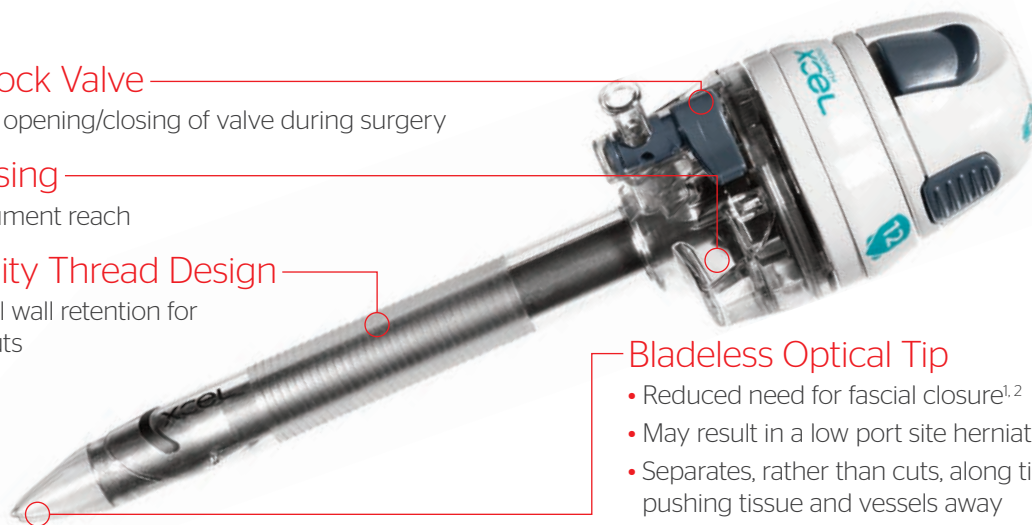
- Mitigates inadvertent opening/closing of valve during surgery

Low-Profile Housing

- Enables further instrument reach

Integrated Stability Thread Design

- Maximizes abdominal wall retention for minimal trocar slip-outs



Bladeless Optical Tip

- Reduced need for fascial closure^{1,2}
- May result in a low port site herniation rate²
- Separates, rather than cuts, along tissue fibers, pushing tissue and vessels away
- Reduced risk of abdominal wall vasculature injuries with bleeding complications³

More Options – More Value

At Ethicon, we recognize that not all ports require the same level of trocar functionality. We offer the flexibility to choose the trocar for the right level of performance, when and where it's needed.

- ENDOPATH XCEL Trocars with OPTIVIEW® Technology for camera ports
- ENDOPATH XCEL Trocars for working ports
- ENDOPATH BASX® Trocars for retraction ports

References

1. A review published in 2011 evaluated prospective and retrospective case series, randomized trials, literature reviews and randomized animal studies of trocar hernias on abdominal wall defects from gynecologic, urologic, and general surgery literature and concluded that the evidence did not support routine closure of paramedian defects when a blunt tip trocar is used.
2. Yamamoto M, Minikel L, Zaritsky E. Laparoscopic 5-mm Trocar Site Herniation and Literature Review. JLS 2011. 15:122-126.
3. In a systematic review and meta-analysis of RCTs that compared the clinical use of blunt tip and bladed trocars, significant injury of the abdominal wall vasculature with bleeding complication was reported in 13 of 417 patients (3%) of the blunt trocar group and in 38 of 431 patients (9%) of the bladed trocar group (p=0.020). Antoniou S, Antoniou G, Koch O, et al. Blunt vs Bladed Trocars in Laparoscopic Surgery: A Systematic Review and Meta-Analysis of Randomized Trials. Surg Endosc. 2013; 27(1): 2312-2320.

Bladeless Trocars

Code	Description	Length
B5ST	Stability sleeve, 5mm diameter	75mm
B5LT	Stability sleeve, 5mm diameter	100mm
B5XT	Stability sleeve, 5mm diameter	150mm
B8LT	Stability sleeve, 8mm diameter	100mm
B11LT	Stability sleeve, 11mm diameter	100mm
B11LP	Smooth sleeve, 11mm diameter	100mm
B11LTH	Stability sleeve with handle, 11mm diameter	100mm
B11LPH	Stability sleeve with handle, 11mm diameter	100mm

Code	Description	Length
B12SRT	Stability sleeve, 12mm diameter	75mm
B12LT	Stability sleeve, 12mm diameter	100mm
B12LP	Smooth sleeve, 12mm diameter	100mm
B12LTH	Stability sleeve with handle, 12mm diameter	100mm
B12LPH	Stability sleeve with handle, 12mm diameter	100mm
B12XT	Stability sleeve, 12mm diameter	150mm
B15LT	Stability sleeve, 15mm diameter	100mm

Instruments per Sales Unit: 6

Universal Sleeves

Code	Description	Length
CB5ST	Stability sleeve, 5mm diameter	75mm
CB5LT	Stability sleeve, 5mm diameter	100mm
CB11LT	Stability sleeve, 11mm diameter	100mm
CB12LT	Stability sleeve, 12mm diameter	100mm

Instruments per Sales Unit: 6

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