



**MICROLINE™**  
SURGICAL

Confidence simply delivered



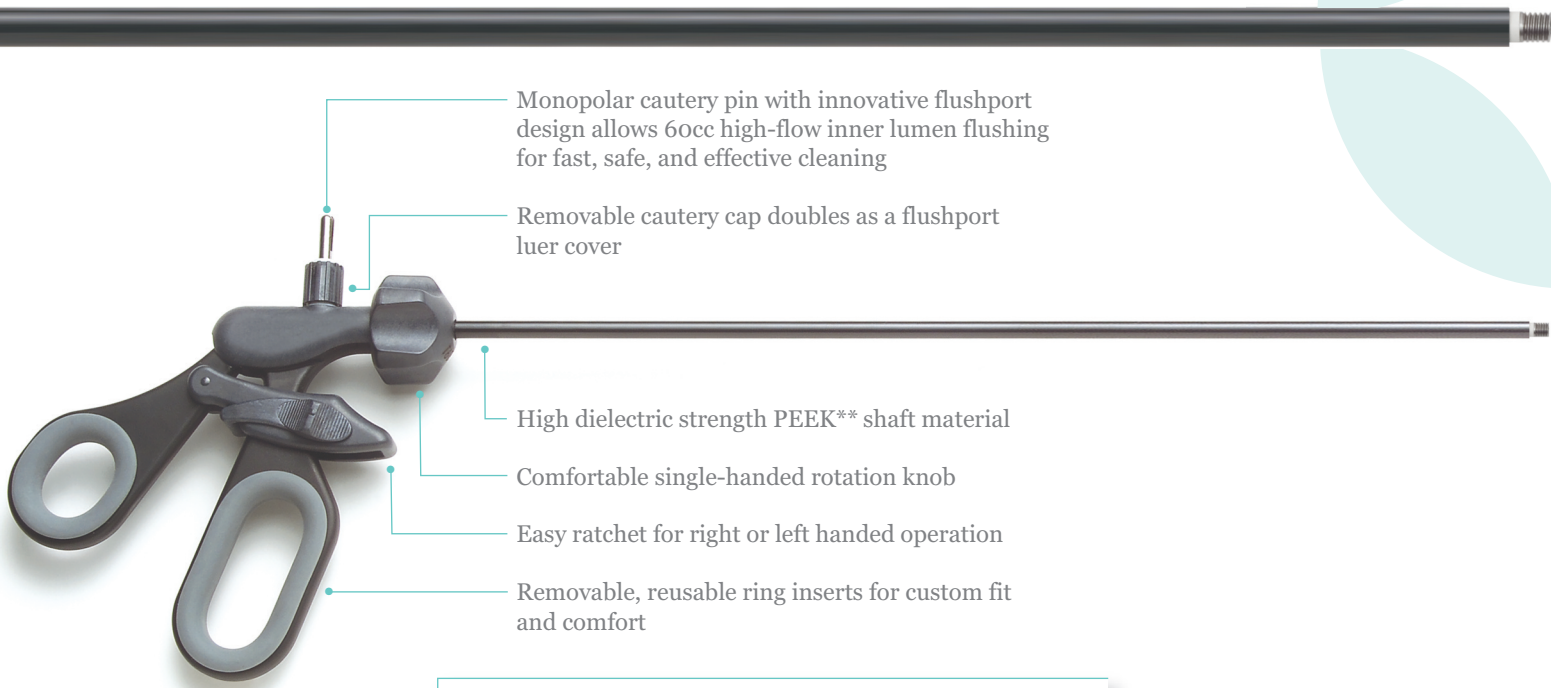
# Laparoscopic Surgical Instrumentation





**Microline Surgical is dedicated to improving patient outcomes and minimizing risk.**

**Microline offers you the best in surgical instruments, from ergonomically designed handpieces to a full range of tips that are unsurpassed in precision, performance and reliability.**



- Monopolar cautery pin with innovative flushport design allows 60cc high-flow inner lumen flushing for fast, safe, and effective cleaning
- Removable cautery cap doubles as a flushport luer cover
- High dielectric strength PEEK\*\* shaft material
- Comfortable single-handed rotation knob
- Easy ratchet for right or left handed operation
- Removable, reusable ring inserts for custom fit and comfort

	<b>Renew IV Handpiece</b>	<b>Renew IV Ratcheted Handpiece</b>
34cm	3904	3914
42cm	3905	3915
25cm	3908	3918

# Precision Performance

## ReNew™ Universal Handpiece

### Reduce cost and waste while optimizing surgical outcomes

Microline's ergonomically designed reusable (reusable handpiece and disposable tip) handpiece provides a more substantial and responsive tactile experience than disposable plastic handles.

#### Patented Coaxial Threading\*

Features two sets of interlocking threads for superior tip security.



#### O-Ring

Serves as a moisture barrier.



The Renew IV universal laparoscopic handpiece along with Microline tips, offer the perfect combination for superior tissue manipulation and performance. The reusable system provides an environmentally friendly alternative to disposable instruments while surgeons experience superior comfort and tactile feedback.

- Available in 25, 34 and 42cm shaft lengths to accommodate patient anatomy and surgical procedures
- Intuitive, integrated design for maximum precision, sensitivity, control, and clinical effectiveness
- Balanced and comfortable with multiple ring inserts for optimum fit
- Patented coaxial threading allows for superior tip attachment
- PEEK\*\* shaft material
- Designed to fit Microline scissors, grasper and dissector tips

# Reliability



# Precision Cut Disposable Scissors

Scissors (Single Patient Use-10 per box)  
Tips that serve every laparoscopic specialty

**Microline single-use Scissors offer the cleanest cut along the entire length of the blade – every time, for every procedure**



## 3112 Metzenbaum•

Working Tip Length is 14.0mm  
(0.55 inches)



## 3122 Micro•

Working Tip Length is 11.2mm  
(0.44 inches)



## 3132 Hook•

Working Tip Length is 12.7mm  
(0.50 inches)



## 3142 Endocut•

Working Tip Length is 19.3mm  
(0.76 inches)



## 3152 Mini Endocut•

Working Tip Length is 13.5mm  
(0.53 inches)



## 3162 Delicate Metzenbaum•

Working Tip Length is 14.7mm  
(0.58 inches)

# Control Tip

5mm Graspers (5 per box)  
Efficient/Enhanced Durability



## 3201 Traditional

Working Tip Length is 15.5mm  
(0.61 inches)  
Traditional design. Straight, short serrated jaws with proximal recess.



## 3231 Modified Traditional

Working Tip Length is 22.6mm  
(0.89 inches)  
More aggressive jaw pattern with large smooth retrograde teeth for firm hold of heavy tissue and/or tissue extraction.



## 3251 Lapclinch 3252 Lapclinch•

Working Tip Length is 22.6mm  
(0.89 inches)  
Microline's answer to the most popular disposable grasper patterns. Larger serration at tip and recessed proximal area.

# Graspers

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**3221 Fenestrated**  
**3222 Fenestrated**

Working Tip Length is 22.6mm  
(0.89 inches)  
Fenestrated and grooved slot to allow for strong yet gentle grasping.



**3271 Modified Traditional Babcock**  
**3272 Modified Traditional Babcock**

Working Tip Length is 35.3mm  
(1.39 inches)  
Traditional pattern with larger grasping pads to permit more secure, gentle grasping of delicate tissues.



**3291 Modified Raptor**  
**3292 Modified Raptor**

Working Tip Length is 25.9mm  
(1.02 inches)  
Our most versatile all-purpose grasper. Beveled edges and a capture box permit secure, atraumatic hold.



**3241 Grabber**

Working Tip Length is 22.6mm  
(0.89 inches)  
More aggressive jaw pattern with large, smooth retrograde teeth for firm hold.



**3361 Hunter**

Working Tip Length is 22.6mm  
(0.89 Inches)  
Traditional Hunter design for effective grasping of tissue.



**3301 5mm Babcock**  
**3302 5mm Babcock**

Working Tip Length is 30.2mm  
(1.19 inches)  
Traditional pattern with smaller grasping pads for use on the most delicate tissue.



**3261 Long Fenestrated**  
**3262 Long Fenestrated**

Working Tip Length is 41.7mm  
(1.64 inches)  
Longer jaws promote atraumatic grasping and manipulation of bowel, stomach and mesentery. Slotted with micro-serrations.



**3381 10mm Babcock**  
**3382 10mm Babcock**

Working Tip Length is 35.3mm  
(1.39 inches)  
Traditional design with larger jaws provides greater grasping and manipulation of the most sensitive tissues. Requires a 10mm trocar.



**3401 Micro Fenestrated**

Working Tip Length is 10.9mm  
(0.43 inches)  
Fenestrated jaw with micro-serrations provides excellent grasping.

# Super-Atrau Graspers

Super-Atrau Graspers (Single Patient Use – 10 per box)

**Significantly reduce the risk of tissue tears and perforation with Control Tip soft polymer, padded disposable graspers.**

- Reduces trauma and eliminates unwanted forward movement
- Force is absorbed by the grasper instead of the tissue
- Non-latex padding and molded edge



## 3411 Cobra Tooth

Working Tip Length is 17.0mm (0.67 inches)

Jaw design provides an extremely secure grip. Improved traditional design for extraction of tissue.



## 3622 Atrau Grabber

Working Tip Length is 22.6mm (0.89 inches)

Our most versatile all-purpose Atraumatic grasper with polymer pads.



## 3632 Atrau Modified Raptor

Working Tip Length is 25.9mm (1.02 inches)

Aggressive jaw pattern with polymer pads provides a secure grip on soft tissue.



## 3421 Cup Tooth

Working Tip Length is 12.7mm (0.50 inches)

Fine serrations and cup capture tissue. Provides precise grasping and versatility.



## 3642 Atrau Fenestrated

Working Tip Length is 23.0mm (0.90 inches)

Fenestrated jaws with polymer pads. Excellent for blunt dissection.



## 3652 Atrau Short Grabber

Working Tip Length is 11.2mm (0.44 inches)

Short design combined with polymer pads.



## 3431 Biopsy Punch

Working Tip Length is 18.5mm (0.73 inches)

Single action toothed jaw for tissue removal.

# Precision Performance Reliability

• Indicates Single Patient Use

# Control Tip Dissectors

## 5mm Monopolar Dissectors (5 per box)

Whether tying sutures or dissecting around delicate structures, Microline Control Tip Dissectors provide precise jaw movement and tactile response.



### 3281 Birkett Grasper Dissector

Working Tip Length is 18.5mm  
(0.73 inches)

Slender tapered jaws with micro-serrations can be used both as a grasper and dissector.



### 3321 Modified Maryland 3322 Modified Maryland•

Working Tip Length is 22.6mm  
(0.89 inches)

A slender jaw design with micro-serrations and a pronounced angle at the tip allows for more delicate tissue manipulation.



### 3341 10mm Right Angle

Working Tip Length is 17.3mm  
(0.68 inches)

Extra tip length for greater visibility. Requires a 10mm Trocar.

- Fully insulated over the hinge for safer coagulation
- Flush hinge design for precise dissection, increased visibility and response



### 3311 Dolphin Nose 3312 Dolphin Nose•

Working Tip Length is 18.5mm  
(0.73 inches)

Traditional tapered dissector pattern with micro-serrations at the tip. Wider opening jaws. Slightly longer for increased versatility. Recessed smooth proximal area. Insulated over the hinge.



### 3331 5mm Right Angle 3332 5mm Right Angle•

Working Tip Length is 17.3mm  
(0.68 inches)

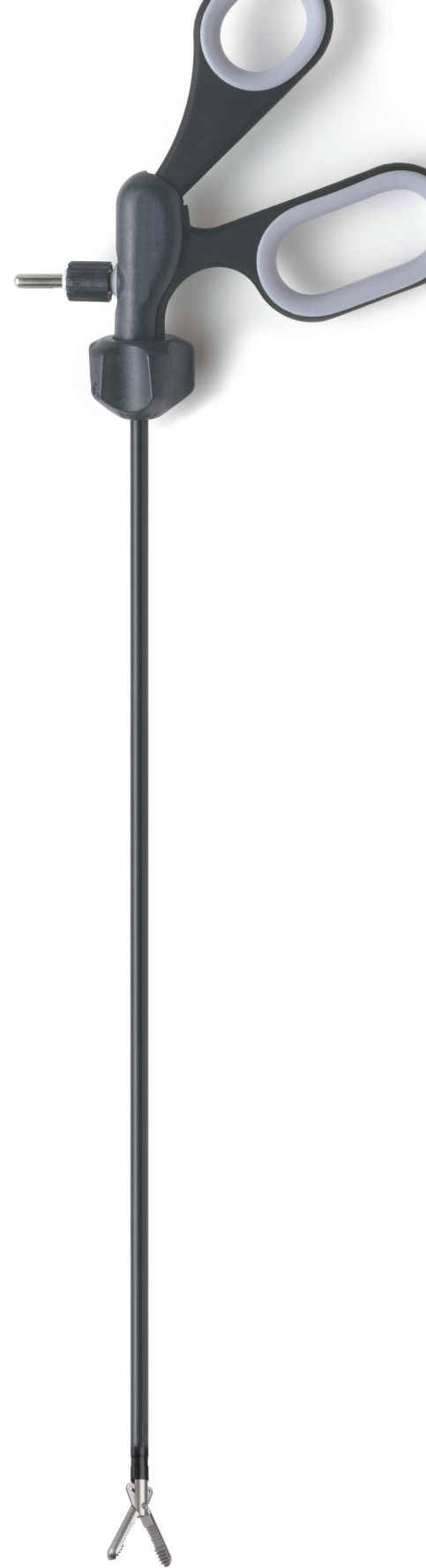
True right angle for wide tissue spread and dissection around delicate structures.



### 3351 Traditional Maryland 3352 Traditional Maryland•

Working Tip Length is 18.8mm  
(0.74 inches)

Gentle curve with tapered, serrated jaws. Effective for suture grasping and knot tying.



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# MICROLINE<sup>TM</sup>

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Microline Surgical also offers medical device instruments for ligation, electrosurgery, and Starion Instruments for tissue welding.

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\*US Patent 5,358,508

\*\*PEEK is a registered trademark of Victrex, Inc.

