Cannulas

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### Cannulas AIR INJECTION

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>E0499 27*</td>
<td><strong>Air Injection Cannula 27 Gauge</strong></td>
</tr>
<tr>
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<td>- 27 gauge.</td>
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<tr>
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<td>- Angled 45° shaft, 5mm from tip to bend with polished finish.</td>
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<th><strong>Fogla Air Injection Cannula 25 Gauge</strong></th>
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<td>- This 25 gauge bottom port cannula is used while injecting air into deep corneal stroma in DALK surgery.</td>
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<td>- The blunt tip helps avoid deeper perforation into the anterior chamber and the flattened cannula is easily inserted into the corneal stromal pocket.</td>
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<td>- The lamellar track should be created using the Fogla Pointed Dissector (E0480) prior to introducing this cannula.</td>
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<th>E4999*</th>
<th><strong>Connor Anesthesia Cannula</strong></th>
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<td>- The cannula’s polished, rounded tip safely dissects beneath Tenon’s capsule to just beyond the globe’s equator.</td>
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<tr>
<td></td>
<td>- 23 gauge cannula with three forward-spraying side ports designed to provide an even and diffuse distribution of anesthetic within the muscle cone.</td>
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**Cannulas**

**E4951* Atkinson Retrolbulbar Needle 23 Gauge**
- 23 gauge.
- Beveled sharp rounded point.
- Polished finish.
- Overall length excluding hub: 35mm, 1.4 inches.

**E4951 25 Atkinson Retrolbulbar Needle 25 Gauge**
- 25 gauge.
- Beveled sharp rounded point.
- Polished finish.
- Overall length excluding hub: 35mm, 1.4 inches.

**E4930* Bracken Anterior Chamber Cannula**
- 19 gauge.
- Curved 90° flattened beveled tip.
- Polished finish.
- Overall length excluding hub: 21mm, 0.8 inches.

**E4901 23 Knolle Anterior Chamber Irrigating Cannula 23 Gauge**
- 23 gauge.
- Blunt tip with shaft angled 45°.
- 2mm from tip to bend.
- Polished finish.
- Overall length excluding hub: 19mm, 0.75 inches.

**E4901 25 Knolle Anterior Chamber Irrigating Cannula 25 Gauge**
- 25 gauge.
- Angled 45° shaft.
- 2mm from tip to bend with blunt tip.
- Polished finish.
- Overall length excluding hub: 19mm, 0.75 inches.

**E4901 30* Knolle Anterior Chamber Irrigating Cannula 30 Gauge**
- 30 gauge.
- Blunt tip with shaft angled 45°.
- 2mm from tip to bend.
- Polished finish.
- Overall length excluding hub: 19mm, 0.75 inches.
E4395 20  McIntyre Angled Anterior Chamber Cannula 23 Gauge

• 23 gauge.
• Blunt tip with shaft angled 45°, 12mm from tip to bend.
• Polished finish.
• Overall length excluding hub: 15mm, 0.6 inches.

E4395 22* McIntyre Angled Anterior Chamber Cannula 26 Gauge

• 26 gauge.
• Blunt tip with shaft angled 45°, 12mm from tip to bend.
• Polished finish.
• Overall length excluding hub: 15mm, 0.6 inches.

E4395 24* McIntyre Angled Anterior Chamber Cannula 30 Gauge

• 30 gauge.
• Blunt tip with shaft angled 45°.
• 12mm from tip to bend.
• Polished finish.
• Overall length excluding hub: 15mm, 0.6 inches.

E4395 19  McIntyre Straight Anterior Chamber Cannula 23 Gauge

• 23 gauge.
• Straight, blunt tip and polished finished.
• Overall length excluding hub: 17mm, 0.7 inches.

E4395 21 McIntyre Straight Anterior Chamber Cannula 26 Gauge

• 26 gauge.
• Straight, blunt tip and polished finished.
• Overall length excluding hub: 17mm, 0.7 inches.

E4395 23  McIntyre Straight Anterior Chamber Cannula 30 Gauge

• 30 gauge.
• Straight, blunt tip and polished finished.
• Overall length excluding hub: 17mm, 0.7 inches.
**E4928**  **Scheie Anterior Chamber Cannula 27 Gauge**

- 27 gauge.
- Straight, blunt tip. Polished finish.
- Overall length excluding hub: 20mm, 0.8 inches.

**E4982**  **Anterior Chamber Cannula 25 Gauge**

- 25 gauge anterior chamber maintenance cannula with 3mm long beveled tip for ease of introduction through the side port incision.
- Uses 20cm (8 inches) of silicone tubing (N5941 4).

**E4981**  **Lewicky Anterior Chamber Maintainer 20 Gauge**

- This unique 20 gauge anterior chamber maintainer features a threaded tip for fixation in the side port incision while maintaining the anterior chamber.
- Uses 25cm (10 inches) of silicone tubing (N5941 6).
- Excellent for use in manual ECCE or phaco.

**E4984**  **Lewicky Anterior Chamber Maintainer 23 Gauge**

- This instrument is the 23 gauge version of the popular 20 gauge E4981 Lewicky Anterior Chamber Maintainer.
- It provides control over the depth of the anterior chamber during eye surgical procedures where anterior chamber depth control is important, including cataract surgery, IOL surgery, hyphema evacuation and IOL manipulations and relocations.
- The 23 gauge shaft is designed for easy insertion through most side port incisions without any need for enlargement.
- The self-retaining threaded tip assures stable fixation within the corneal stroma.

**E4421 S21**  **Nichamin Side Port Cannula 21 Gauge**

- 21 gauge.
- Cannula designed for maintaining the anterior chamber.
- Angled 45° 7mm from tip.
- Handle design allows for connection to the irrigation line.
- Overall length: (including handle) 72mm, 2.8 inches.
E4421 S  **Nichamin Side Port Cannula 23 Gauge**  
- 23 gauge.  
- Cannula designed for maintaining the anterior chamber.  
- Angled 45° 7mm from tip.  
- Handle design allows for connection to the irrigation line.  
- Overall length: (including handle) 72mm, 2.8 inches.

E0524 23G*  **Backflush Infusion Cannula 23 Gauge**  
- This reusable cannula can be used with either the E4812 Backflush Handpiece or with a syringe for injection into the posterior segment.  
- 23 gauge.  
- Overall length excluding hub: 35mm, 1.4 inches.

E0524 25GA  **Backflush Infusion Cannula 25 Gauge**  
- Reusable 25 gauge cannula for use with the E4812 Backflush Handpiece or with a syringe for injection into the posterior segment.  
- Overall length excluding hub: 36mm, 1.4 inches.

E4966  **Barrett Mini Aspirator**  
- Excellent for cortex removal at the 12 o'clock position.  
- Gently curved 23 gauge shaft for ease of manipulation.  
- Silicone tubing is used for connecting to an aspiration line.  
- Overall length excluding hub: 25mm, 0.9 inches.

E4958  **Maumenee Vitreous Aspirating Needle**  
- 18 gauge thin wall.  
- Straight needle with blunt tip.  
- Markings on shaft at 10mm, 15mm, and 20mm, from tip.  
- Polished finish.  
- Overall length excluding hub: 25mm, 1.0 inches.

E4395 27*  **McIntyre Handpiece**  
- Aspirating or irrigating handpiece.  
- Luer connector fits all cannula hubs, narrow connector fits IV tubing.  
- 8mm diameter handle.  
- Overall length: 76mm, 3.0 inches.
**Cannulas**

**E0531  Osher Lens Vacuuming Cannula**
- 27 gauge, straight shaft with curved tip to conform to the lens curvature for removing foreign bodies underneath intraocular lenses.
- Polished finish.
- Overall length excluding hub: 25mm, 1.0 inches.

**E5000  Soft Tip Aspirating Cannula 20 Gauge**
- 20 gauge aspirating cannula with 1mm soft silicone tip.
- Overall length excluding hub: 30mm, 1.2 inches.

**E4427  Soft Tip Aspirating Cannula 23 Gauge**
- 23 gauge aspirating cannula with soft silicone tip.
- Overall length excluding hub: 30mm, 1.2 inches.

**E4412 BL  Binkhorst Hooked Cannula, Left**
- Left.
- 22 gauge.
- Angled 30° shaft 13mm from tip to bend with 2.5mm hook curved tip.
- Polished finish.
- Overall length excluding hub: 35mm, 1.4 inches.

**E4412 BR  Binkhorst Hooked Cannula, Right**
- Right.
- 22 gauge.
- Angled 30° shaft 13mm from tip to bend with 2.5mm hook curved tip.
- Polished finish.
- Overall length excluding hub: 35mm, 1.4 inches.

**E4968 H  Dankner Cannula With Handle**
- The gently curved 23 gauge cannula with 0.4mm aspiration port (E4968) on a stainless steel handle complete with a male taper hub which allows direct connection to aspiration tubing.
- The cannula is used through the side-port incision to aspirate cortex at 12 o’clock.
- Overall length excluding handle: 21mm, 0.8 inches.
E4968  **Dankner Panariello 12 O’Clock Cortex Cannula**
- Gently curved 23 gauge cannula with 0.4mm aspiration port ideal for aspiration of cortex through the side port stab incision.
- Overall length excluding hub: 21mm, 0.8 inches.

E4931 5  **Gills-Welsh Cannula 5mm Shaft**
- 25 gauge.
- Angled 45° shaft.
- Polished finished.
- Shaft 5mm from tip to bend.
- Overall length excluding hub: 18mm, 0.7 inches.

E4931 7  **Gills-Welsh Cannula 7mm Shaft**
- 25 gauge.
- Angled 45° shaft.
- Polished finished.
- Shaft 7mm from tip to bend.
- Overall length excluding hub: 19mm, 0.8 inches.

E4931 8  **Gills-Welsh Cannula 8mm Shaft**
- 25 gauge.
- Angled 45° shaft.
- Polished finished.
- Shaft: 8mm from tip to bend.
- Overall length excluding hub: 20mm, 0.8 inches.

E493110  **Gills-Welsh Cannula 10mm Shaft**
- 25 gauge.
- Angled 45° shaft.
- Polished finished.
- Shaft 10mm from tip to bend.
- Overall length excluding hub: 21mm, 0.8 inches.

E4895*  **Gimbel Forward Irrigating Cannula 27 Gauge**
- 27 gauge cannula with angled shaft and slightly curved tip is designed to cross the anterior chamber, slip under the anterior capsular flap and irrigate or aspirate cortical material.
- Overall length excluding hub: 28mm, 1.1 inches.
**Cannulas**  CORTEX EXTRACTORS

**E4967  Hagan Suction Cannula**
- Gently curved, 23 gauge aspiration cannula used through the side-port incision to aspirate cortex at 12 o’clock.
- This cannula features a male hub which allows direct connection to aspiration tubing.
- Overall length excluding hub: 20mm, 0.8 inches.

**E4420  Osher “J” Cannula**
- Designed for clear or near clear corneal incision. Ideal for removing subincisional cortex, cortical clean up and reopening the capsular bag.
- The 27 gauge cannula with “J” tip allows easy passage through a 2.2mm phaco incision.
- Tip length is 2.5mm.
- Works well with viscoelastics as well as balanced salt irrigating solution and is especially helpful in capsulorhexis or through a small pupil.
- Overall length excluding hub: 28mm, 1.1 inches.

**E4970  Osher Cortex Extractor Cannula**
- 27 gauge, J-hook cannula.
- Overall length excluding hub: 43mm, 1.7 inches.

**E4969*  Simcoe Cortex Extractor 13mm**
- Gently curved 23 gauge cannula with 0.33mm aspiration port.
- Polished finish.
- Overall length excluding hub: 13mm, 0.5 inches.

**E4969 L*  Simcoe Cortex Extractor 21mm**
- Long model.
- Gently curved 23 gauge cannula with 0.33mm aspiration port.
- Polished finish.
- Overall length excluding hub: 21mm, 0.8 inches.

**E4414 WS  Welsh Cortex Extractor With Flat Olive Tip**
- 25 gauge.
- Angled 45° shaft 8mm from tip to bend.
- Polished finish.
- Cortex cleanup allows 6 o’clock.
- Olive tip straight, flat.
- Overall length excluding hub: 25mm, 1.0 inches.
E4413 BAR  Barrett Hydrodelination Cannula 25 Gauge
• This 25 gauge cannula is beveled up to provide easy insertion and injection of fluid for performing hydrodelination of the lens nucleus.
• Overall length excluding hub: 20mm, 0.8 inches.

E4414 WS 25GA  Brown Dissection Cannula
• The broad olive tip of this angled cannula is designed to provide a stable surface to flip the cataract in the capsular bag and into the anterior chamber effectively executing the flip technique.
• Overall length excluding hub: 23mm, 0.9 inches.

E4417 L  Hydrodissection Cannula 25 Gauge, Left
• 25 gauge left.
• Designed for hydrodissection of the lens nucleus.
• 3mm “U” tip allows easy entrance through the phacoemulsification wound.
• Overall length excluding hub: 25mm, 1.0 inches.

E4417 R  Hydrodissection Cannula 25 Gauge, Right
• 25 gauge right.
• Designed for hydrodissection of the lens nucleus.
• 3mm “U” tip allows easy entrance through the phacoemulsification wound.
• Overall length excluding hub: 25mm, 1.0 inches.

E4417 L27  Hydrodissection Cannula 27 Gauge, Left
• 27 gauge left.
• Designed for hydrodissection of the lens nucleus.
• 3mm “U” tip allows easy entrance through the phacoemulsification wound.
• Overall length excluding hub: 25mm, 1.0 inches.

E4417 R27  Hydrodissection Cannula 27 Gauge, Right
• 27 gauge right.
• Designed for hydrodissection of the lens nucleus.
• 3mm “U” tip allows easy entrance through the phacoemulsification wound.
• Overall length excluding hub: 25mm, 1.0 inches.
E4417 S27  **Hydrodissection Cannula 27 Gauge, Straight**

- 27 gauge straight.
- Designed for hydrodissection of the lens nucleus.
- 3mm “U” tip allows easy entrance through the phacoemulsification wound.
- Overall length excluding hub: 25mm, 1.0 inches.

E4419  **Kellan Hydrodissection Cannula**

- Gently curved 25 gauge cannula with flattened blunt tip to slip under the anterior capsular flap.
- Overall length excluding hub: 18mm, 0.7 inches.

E4421 H*  **Nichamin Hydrodissection Cannula 25 Gauge**

- 25 gauge.
- Curved cannula designed to follow the scleral tunnel incision and anterior lens capsule.
- The unique flattened tip allows for a better fit under the capsular leaflet.
- Overall length excluding hub: 39mm, 1.5 inches.

E4421 H27*  **Nichamin Hydrodissection Cannula 27 Gauge**

- 27 gauge.
- Curved cannula designed to follow the scleral tunnel incision and anterior lens capsule.
- The unique flattened tip allows for a better fit under the capsular leaflet.
- Overall length excluding hub: 39mm, 1.5 inches.

E4422  **Wiles Hydrodissection Cannula**

- 25 gauge “J” cannula is gently angled 135° to facilitate hydrodissection.
- Overall length excluding hub: 19mm, 0.7 inches.

E4429  **Wiles Hydrodissection Cannula MICS**

- 25 gauge thin profile “J” style cannula allows easy manipulation in and out of the sub-2mm wound, while providing an adequate irrigating stream for both hydrodissection and hydrodelineation, as well as sub-incisional cortical clean up.
- Overall length excluding hub: 24mm, 1.0 inches.
### E4425 25  **Yalon Hydrodissection Cannula 25 Gauge**

- A 25 gauge, 45° angled cannula for hydrodissection.
- The tip has a unique feature, the irrigation port is on the side.
- This design is intended to allow more effective distribution of fluid around the nucleus.
- Overall length excluding hub: 39mm, 1.5 inches.

### MVS 1031  **Infusion Cannula 2.5mm Beveled Tip**

- 20 gauge, beveled tip with luer lock adapter.
- Uses 26cm (10.2 inches) of silicone tubing (N5941 6).
- Polished finish.
- Beveled tip - 2.5mm.

### MVS 1033*  **Infusion Cannula 4mm Beveled Tip**

- 20 gauge, beveled tip with luer lock adapter.
- Uses 26cm (10.2 inches) of silicone tubing (N5941 6).
- Polished finish.
- Beveled tip - 4mm.

### MVS 1035*  **Infusion Cannula 6mm Beveled Tip**

- 20 gauge, beveled tip with luer lock adapter.
- Uses 26cm (10.2 inches) of silicone tubing (N5941 6).
- Polished finish.
- Beveled tip - 6mm.

### E4942*  **Adapter for Irrigators**

- Adapts E4944 bulbs to cannula hubs.
- Polished finish.
- Overall length: 22mm, 0.9 inches.

### E4944*  **Silicone Bulb**

- Translucent silicone, 25mm in diameter.
- Overall length: 63mm, 2.5 inches.
Cannulas IRRIGATING

E4921  **Bishop-Harmon Anterior Chamber Irrigator**

- See “Irrigating Cannulas” for information on individual components of irrigator.

E4922*  **Bishop-Harmon Irrigating Cannula**

- 19 gauge.
- Angled 30° shaft 5mm from tip to bend with flattened blunt tip.
- Polished finish.
- Overall length excluding hub: 25mm, 1.0 inches.

E4414 GW10  **Gills-Welsh Olive Tip Cannula**

- 25 gauge.
- Angled 45° shaft 10mm from tip to bend with 1mm smooth bulbous tip.
- Polished finish.
- Overall length excluding hub: 26mm, 1.0 inches.

E4989  **Lane LASIK Cannula**

- Smooth 25 gauge cannula curved to fit the corneal curvature.
- Excellent for cleaning the stromal interface and floating the cap into place.
- Overall length excluding hub: 18mm, 0.7 inches.

E4996  **Lindstrom Interface Cannula**

- Gently curved 27 gauge cannula designed to allow controlled cleaning of the stromal interface.
- Overall length excluding hub: 19mm, 0.7 inches.

E0510  **Park Irrigating Cannula**

- 19 gauge, angled 30° shaft 12mm from tip to bend. Flattened tip with 5 ports.
- Polished finish.
- Overall length excluding hub: 32mm, 1.3 inches.
E4897  **Probst Refractive Cannula 27 Gauge**
- 27 gauge cannula with 7mm angled tip.
- Excellent for irrigating the flap made by the HANSATOME.
- Overall length excluding hub: 21mm, 0.8 inches.

E4925* **Shepard Incision Irrigating Cannula**
- 30 gauge cannula with flattened 5mm angled tip for corneal wounds.
- Overall length excluding hub: 18mm, 0.7 inches.

E4407 **Slade Refractive Cannula**
- Flattened 26 gauge cannula with port on top to facilitate interface cleansing and flap replacement.
- Overall length excluding hub: 15mm, 0.6 inches.

E4414* **Troutman Alpha-Chymotrypsin Cannula**
- 25 gauge.
- Curved shaft with 1mm smooth bulbous tip.
- Polished finish.
- Overall length excluding hub: 27mm, 1.1 inches.

E4395 3  **McIntyre Inner Cannula (with side port)**
- 23 gauge inner cannula with 0.3mm side port.
- Polished finish.
- Overall length excluding hub: 46mm, 1.8 inches.

E4395 6  **McIntyre Straight Outer Cannula**
- 19 gauge outer cannula with straight untapered end.
- Polished finish.
- Overall length excluding hub: 17.5mm, 0.7 inches.
E4971*  Simcoe Double-Barreled Irrigating-Aspirating Unit

- 23 gauge thin wall irrigation and aspiration. Aspiration through 0.3mm top port, with irrigation through side opening.
- Curved shaft.
- Uses 32cm (12 inches) of silicone tubing (N5941.4).
- Polished finish.
- Irrigation through main hub, aspiration through silicone tubing.
- Overall length excluding hub: 15mm, 0.6 inches.

E4971 R  Simcoe Double-Barreled Irrigating-Aspirating Unit Reverse

- Reverse unit.
- 23 gauge thin wall irrigation and aspiration. Aspiration through 0.3mm top port, with irrigation through side opening.
- Curved shaft.
- Uses 32cm (12.6 inches) of silicone tubing (N5941.4).
- Polished finish.
- Aspiration through main hub, irrigation through silicone tubing.
- Overall length excluding hub: 15mm, 0.6 inches.

E4969 LC  Simcoe Irrigating-Aspirating Unit

- 23 gauge cannula (E4969 L) with 0.33mm aspiration port, curved shaft and polished finish.
- Includes Teflon irrigating sleeve (E4969 SL).
- Uses 60cm (23.6 inches) of silicone tubing (N5941.5).
- Overall length excluding hub: 21mm, 0.8 inches.

E4399  Cannula Protector

- Made of Teflon.
- Adapts to cannula hubs.
- 10mm outer diameter.
- Overall length: 50mm, 2.0 inches.

MVS 1022*  Irrigating Cannula Handpiece

- 8mm diameter Delrin handpiece.
- 90mm handle with grooves for grip.
- Standard male luer taper fits most cannula hub and female luer taper accept I/A tubing connectors.
- Overall length: 95mm, 3.5 inches.
E4968 A*  **Male to Male Cannula Adapter**
- Delrin male luer adapter for connecting aspiration cannulas to aspiration tubing.
- Overall length: 38mm, 1.5 inches.

E0497  **Viscoelastic Injection Cannula**
- 21 gauge, angled 50° shaft 5mm from tip to bend.
- Flattened rounded tip, dull finish.
- Overall length excluding hub: 29mm, 1.1 inches.