Rumex International Co.

Who we are
Rumex International Co. is one of the leading manufacturers of surgical instruments for hand-held surgery with many offices and representatives all over the world with headquarters in the United States. Our major specialization lies within reusable instruments for surgical ophthalmology and cardiovascular and thoracic surgery.

Since 1994
For more than 20 years, industry experts and ophthalmic surgeons from all over the world have been pleasantly surprised with the most sustainable quality and service provided by Rumex. Our product advantages are concluded in:
- Strict quality control which allows producing impeccable and durable instruments
- Product development together with top-of-the-notch surgeons
- Ergonomical design eliminating hand’s fatigue
- New! – Data Matrix Barcodes on the instruments

The most comprehensive portfolio
More than 2,000 product items in portfolio!
The range of products comprises cutting edge stainless steel and titanium instruments, including vitreoretinal instruments, cannulas, single-use accessorize. We have been successfully producing and selling the top quality consumables – IOLs, Lens Injection Systems, Silicone Oil, OVDs). You may place orders on Mani sutures and Statim sterilizing machines in our company.

Always Within your Budget!
We aspire to provide hospitals and medical professionals all over the world with superior quality surgical instrumentation within budget!
Our innovations always stay affordable!

Customer Service and Support
Our experienced sales team is always there to help you make the right choice. All of us share values of the customer and put them on the first place. We are proud to work in a company helping doctors and making lives of patients better!
Also we aspire to provide the most proactive support to our distributors all over the world!

Contact us to request:
- Big Ophthalmic surgical instruments Catalog
- OEM Catalogue
- Cardiovascular surgical instruments Catalogue
- Certificates
- Additional product description
- Product samples
Highlights and Specifications of our Instrumentation

Specifications of instruments
3D models of instruments are used. Insignificant visual effects may differ the model from the real instrument. Due to continuous development and improvement, the given specification, the product design and construction are subject to change.

Titanium and Stainless Steel
Most of the instruments are made of titanium and marked with a letter ‘T’ in its product number. The titanium instruments have a tungsten-carbide covering which makes them stronger and durable. There are Stainless Steel instruments marked with ‘S’ and manufactured of highest quality stainless steel (made in Germany).

DataMatrix Barcodes
All instruments ordered in 2015 and afterwards have DataMatrix Barcodes engraved on its surface. Read more about it at www.rumex.net

Size
Instruments are shown at scale 3:4 unless other is stated.

Trademarks
®™ All trademarks are property of their respective owners.
Placing your order is easy!

All the orders can be easily placed and paid online!

Orders can be placed directly or through your local Rumex representatives.
You may also place orders directly via our web-site: www.rumex.net.
Rumex webstore allows you to easily complete your order amongst the widest assortment of any surgical instruments. You may request the specific instrument development as well, be a part of promotions and bonus programs, and find your distributor!

Pricing
The prices are detected automatically by your location.
The pricing policy may vary from region to region where the company reserves the right to make changes Please register online to view the most accurate and up-to-date prices.
Prices are subject to change without notice. Ask your local distributor for the current prices.

Shipping
We provide our retail customers with two delivery options: after choosing instrument(s) at our webstore via local distributor or by direct shipment from our warehouses. Don’t forget to pay for delivery when ordering online and consider timing of transporting it to your region.
Orders are shipped via express carrier. The carrier is indicated at the time the order is placed.
**Free Shipping for orders of total more than $2,000 / € 1,500!**

Advantages to order via Distributors:
– Native language speaking consultative support
– Less freight charges due to closeness to your region
– Easier exchange

Advantages to order directly:
– Timesaving!
– Fast Product Search is available
– Direct shipping to your facilities with no restocking fees
– Choose among 2000 products with a 100% manufacturer’s guarantee
– Professional support from Rumex customer service

We would like to keep you purchasing with our company therefore convenience of making orders is a matter of a primary importance to us!

Either finding your distributor or making a direct order, you are always welcome at www.rumex.net!

Languages online: English, Espanol, Portugese, Francais, Deutsch
We are open to all countries 24/7!
Quality of Products

‘Very efficient. Secure Introduction and easy handling. Just perfect!’

***Myriam Gagnard***
Responsable Bloc Operatoire
Clinique Saint Vincent, France

«Rumex has been providing us with superior instruments for many years. All the time, Rumex surgical instrumentation were acknowledged for the consistently excellent quality. It’s the best provider for us which always allows us to remain within the budget.»

***Bascom Palmer Eye Institute***

Quality of Products

Rumex International Co provides its customers a LIFETIME WARRANTY!

If any product purchased would reveal a mismatch of the quality BEFORE USAGE – please don’t hesitate to contact us to get your money back. After undergoing all the due expert analysis and if the defect was not caused by improper handling and misuse, we will provide you either a 100% COMPENSATION or an exchange of a defective instrument for a new one which will correspond your expectations in quality or appearance terms free of charge with no restocking fees. In some cases when instruments have been detected to be improperly used or mishandled, non-manufacturing defects may occur. Please read carefully our Sterilization & Care Instructions (p.218–223) to avoid such cases of improper usage and mishandling. Or consult our customer service managers for a proper handling instructions.

Please note that in certain countries our guarantees may differ because of the national legislation. You may find your country’s guarantee on www.rumex.net.

Rumex is focused on providing the superior quality products to surgeons and medical professionals all over the world, that has been the matter of the first priority. Quality of products is guaranteed by the ISO and FDA management system which implies the Double-check control while being manufactured and shipped. The quality management system ensures the compliance with the best highest industry standards for medical devices and consumables.

Returns & replacements

Any instrument returned within 30 days is not charged for restocking provided that the instrument is in its original undamaged condition. Any instrument returned within 30–60 days after shipment is subject to 40% restocking charge. No returns are accepted after 60 days.

For Returns & Replacements or Repairs & Refund kindly fill in the RGA Form on p.5, e-mail us the scan copy and send the paper copy with the instrument. Also, you can download RGA Form at our website www.rumex.net.

Our customer managers will e-mail you back within 24 hours (business days only) to inform about return, replacement, repair or refund conditions and address where the instrument should be shipped.

Unopened and unused instruments should not be sterilized. Customers will be credited the cost of the instrument(s) but will be responsible for all freight charges for the original order.

If you require a repair of an instrument and not an exchange, we will offer special prices for a repair in our distributors’ repair centers. Damaged instruments are subject to a repair charge. Return, replacement and repair form is provided in the end of this catalog.

If you would like to receive a refund, the company will allow you a company credit towards future purchases. No direct refunds are permitted.

No credit will be issued for:

– Sterile and disposable products;
– Instruments damaged beyond repair;
– Special or custom orders.

Certificates of Quality

The full list of certificates can be found on our website http://rumexnet/en/information/quality
# Form for Returns & Repairs

Rumex International Company  
13770 58th Street North, Suite 317  
Clearwater, FL 33760 USA  
Tel: +1 (727) 535 9600 www.rumex.net rumex@rumex.net

Please use this form for all returns and repairs sent to our office. Protect the instrument(s) with appropriate tip guard(s) and pack in a sturdy box. Please put a copy of this form into parcel.

<table>
<thead>
<tr>
<th>RGA #</th>
<th>Rumex International Co. Returned Goods Authorization</th>
<th>Date*</th>
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<tr>
<td>Customer*:</td>
<td></td>
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<tr>
<td>Reference #:</td>
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<tr>
<td>Description*:</td>
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<td>Reason for Return (Please specify the defect)*:</td>
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<td>Purchase date*:</td>
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<tr>
<td>Invoice #:</td>
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**Quality Screening**

1. Was there an event involving patient injury associated with this report? ☐ Yes ☐ No
2. If there was a malfunction and it recurs, is it likely to cause an injury? ☐ Yes ☐ No
3. Did the customer express dissatisfaction related to the use of the Rumex International Co.’s products? ☐ Yes ☐ No

If yes, please explain: ______

4. Is the returned product related to a failure and if so, was it within the warranty period? ☐ Yes ☐ No

*If any of questions 1, 2, or 3 are answered “yes,” the Quality Assurance Manager must be notified immediately.*

<table>
<thead>
<tr>
<th>Date product received at Rumex International Co.:</th>
<th>______</th>
<th>Product complete? ☐ Yes ☐ No</th>
<th>If no, item(s) missing:</th>
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<tr>
<td>Product Disposition</td>
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<tr>
<td>☐ Return to stock</td>
<td>☐ Repair and return to customer</td>
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<tr>
<td>☐ Repair and return to stock</td>
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Dispositioned by: ____________________________________________  
Signature: ______________________  Date: ______________________

*Fields filled by the Customer*
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  - Corneal Light Shield
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  - Eye Drains and Wicks
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<td>• Oculoplastic set</td>
<td></td>
</tr>
<tr>
<td>• Pterygium Set</td>
<td></td>
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<tr>
<td><strong>Vitreoretinal Sets</strong></td>
<td>211–214</td>
</tr>
<tr>
<td>• Vitreoretinal Set, 20 Ga</td>
<td></td>
</tr>
<tr>
<td>• Vitreoretinal Set, 23 Ga</td>
<td></td>
</tr>
<tr>
<td>• Vitreoretinal Set, 25 Ga</td>
<td></td>
</tr>
<tr>
<td><strong>STERILIZATION &amp; CARE</strong></td>
<td>215–224</td>
</tr>
<tr>
<td>• Sterilizing Trays Size Chart</td>
<td></td>
</tr>
<tr>
<td>• Sterilizing Trays</td>
<td></td>
</tr>
<tr>
<td>• Instructions for Use</td>
<td></td>
</tr>
<tr>
<td>• Diamond Knives</td>
<td></td>
</tr>
<tr>
<td>• Instructions for use</td>
<td></td>
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<tr>
<td>• Vitreoretinal, Microincisional</td>
<td></td>
</tr>
<tr>
<td>• Instructions for use</td>
<td></td>
</tr>
<tr>
<td><strong>INDEX</strong></td>
<td>225–240</td>
</tr>
<tr>
<td>• Alphabetic Index</td>
<td></td>
</tr>
<tr>
<td>• Numeric Index</td>
<td></td>
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</tbody>
</table>
Consumables
Cataract, Refractive, Corneal Transplantation

View all our ophthalmic products at www.rumex.net
### Hydrophilic IOLs

<table>
<thead>
<tr>
<th>Name</th>
<th>Hydro-Sense</th>
<th>Aspheric</th>
<th>Hydro-4 Aspheric</th>
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<tbody>
<tr>
<td>Type</td>
<td>Foldable lens – Single-piece</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Hydrophilic acrylic. Clear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design of the optical edge</td>
<td>Double square-edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optic Type</td>
<td>Aspheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optic size</td>
<td>6.0 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>12.5 mm</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>Number of haptics</td>
<td>2</td>
<td>4</td>
<td></td>
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</table>

### Hydrophobic IOLs

<table>
<thead>
<tr>
<th>Name</th>
<th>AquaFree Aspheric</th>
<th>AquaFree Aspheric Yellow</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>Foldable lens – Single-piece</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Hydrophobic acrylic. Clear</td>
<td>Hydrophobic acrylic. Yellow</td>
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<tr>
<td>Design of the optical edge</td>
<td>Double square-edge</td>
<td></td>
</tr>
<tr>
<td>Optic Type</td>
<td>Aspheric</td>
<td></td>
</tr>
<tr>
<td>Optic size</td>
<td>6.0 mm</td>
<td></td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>13 mm</td>
<td></td>
</tr>
<tr>
<td>Number of haptics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Min. incision size</td>
<td>2.2 mm</td>
<td></td>
</tr>
</tbody>
</table>

Product and specifications are subject to change without notice

Not available in the US
ONE, TWO, THREE WITH AQUAFREE

AquaFree Preloaded
Efficient minimal invasive surgery

Clear & Yellow Hydrophobic Aspheric IOLs

Summary of Benefits

- Square Edge design
- Exceptional clarity – no glistening
- Haptics outcomes refractive predictable and stability axial for designed

Foldable lens – Single piece – Hydrophobic

Overall Diameter: 13.0 mm
Optic Diameter: 6.0 mm

Product and specifications are subject to change without notice

Not available in the US
RUMEX is the official distributor of Swiss company Medicel in all countries with the exception of the United Kingdom, Italy, Ireland and Brazil.

The main goal of which company — making eye surgery safer, simpler and more effective and keeping the incision as small as possible.

Over the last ten years, Medicel have significantly contributed to the development of microsurgical techniques. Particularly in the area of lens injection systems, Medicel has set new benchmarks. Today, more than 1 million lenses are injected per year with Medicel injection systems around the world.

**SAFETY, SIMPLICITY, RELIABILITY...**

The new ACCUJECT™ system represents total reliability for safe and effective lens injections. The compact design with integrated cartridge of the fully single-use ACCUJECT™ system enables a simple, predictable loading and positioning of any lens. This allows the surgeon and O.R. personnel to load any lens in the same simple manner. The ACCUJECT™ system is designed for 1- and 3 piece lenses for incision sizes of sub 2.8 to sub 2.2 mm.

**MAXIMUM EFFICIENCY WITH MAXIMUM SAFETY**

The NAVIJECT™ system from Medicel represents yet another breakthrough for safe and effective micro-incision cataract surgery. Complications associated with the shortcomings of other lens injection systems are now a thing of the past. NAVIJECT™ simplifies the loading of the lens, enables smooth and efficient lens injection and ensures the critical process of lens injection safely.

**ADVANCED BUT ECONOMICAL**

The VISCOJECT™ eco is a cost effective solution representing all features of the VISCOJECT system that has changed the world of Micro Incision Cataract Surgery (MICS)!

The VISCOJECT™ eco system includes the original VISCOJECT™ cartridges which are sterile packed in combination with the VISCOJECT™ eco injector. This low cost solution does not make any compromise on product safety and quality.

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Not available in the US

Product and specifications are subject to change without notice.
NEW TECHNOLOGIES FOR CLEAR VISION

SmartVisc and SmartVisc PLUS

SmartVisc and SmartVisc PLUS are cohesive viscoelastics based on sodium hyaluronate from biotechnical fermentation and are free of pyrogenic substances. They are characterized by high molecular weight, high pseudoplasticity, and high surface tension. It provides excellent space maintenance, facilitates intraocular lens implantation, and is easily removed.

SmartVisc 1.6% Sodium hyaluronate
SmartVisc+ 3.0% Sodium hyaluronate

Important Features

- No refrigeration necessary — easier transportation and storage.
- Two different viscosities (80,000 & 400,000 mPs) can provide Viscoelastic Soft Shell Technique.
- Clear view of posterior capsule during phacoemulsification.
- Soft coating and protection of endothelial cells.
- Controlled capsulorrhexis.
- Excellent protection against mechanical damages.
- Ultrapure Hyaluronic Acid with highest biocompatibility.
- Volume: 1 ml

Not available in the US

Product and specifications are subject to change without notice.
Supreme is a medical device used in the anterior segment surgery of the eye. It has the following unique characteristics:

- It maintains the depth of the AC of the eye
- It protects the periocular tissues
- Outstanding rheological properties
- Completely transparent
- Simple to remove from the AC
- Totally non antigenic
- Does not contain any proteins likely to cause inflammatory reactions or foreign body reactions
- Does not require refrigeration
- Volume: 2 ml

Supreme is a viscoelastic solution of high molecular weight, highly purified grade of hydroxypropyl methylcellulose 2%, clear, isotonic, sterile, non inflammatory and non-pyrogenic in nature. It is used for intraocular injection during anterior segment surgery of the eye.

Not available in the US

Product and specifications are subject to change without notice
Rumex produces a complete line of sponge products used for the management of fluids during ophthalmic procedures. Our PVA and cellulose sponge products are used during cataract and other refractive surgeries. The latest designs of eye spears give a cleaner, wider, and more absorbent eye spear which is ideal for all ophthalmic procedures.

Several speciality PVA products are also available for the care and cleaning of delicate micro instruments which will assist to prolong the life of these expensive instruments.

All our products are manufactured under the strictest management systems and we are committed to ongoing product development.

**PVA Spears and Points**
Material: 100% PVA
Structure of the material: porous
Shape: lance (planar triangle)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1-40400</td>
<td>Orange handle. For cataract surgery.</td>
<td>5/box of 90</td>
</tr>
<tr>
<td>R2-40405</td>
<td>Orange handle. For cataract surgery. Can be used for LASIK.</td>
<td>10/box of 180</td>
</tr>
<tr>
<td>R1-40401</td>
<td>For cataract surgery. Pack of 5/box: 90</td>
<td></td>
</tr>
<tr>
<td>R1-40406</td>
<td>For cataract surgery. Pack of 10/box: 180</td>
<td></td>
</tr>
</tbody>
</table>

**Cellulose Spears and Points**
Material: cellulose
Structure of the material: dense, quickly absorbed
Shape: lance (planar triangle)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1-40410</td>
<td>Orange handle. For cataract surgery</td>
<td>5/box: 100</td>
</tr>
<tr>
<td>R1-40415</td>
<td>Orange handle. For cataract surgery.</td>
<td>10/box: 200</td>
</tr>
<tr>
<td>R1-40411</td>
<td>For cataract surgery. Pack of 5/box: 100</td>
<td></td>
</tr>
<tr>
<td>R1-40416</td>
<td>For cataract surgery. Pack of 10/box: 200</td>
<td></td>
</tr>
</tbody>
</table>

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**Not available in the US**

Product and specifications are subject to change without notice
Corneal Light Shield
R1-40420 7 mm diameter. Material: PVA. Pack of 1/box: 20

Eye Drains and Wicks
R1-40430 80 cc capacity. Pack of 1/box: 20
R1-40435 400 cc capacity. Pack of 1/box: 10
R1-40431 4 mm x 170 mm. Material: PVA. Pack of 2/box: 20

Diamond Knife Cleaning Block
R1-40462 Material: PVA. Pack of 1/box: 10

Instrument Wipe
R1-40900 Material: PVA. Pack of 1/box: 20

Lasik Shields
R1-40820 9 mm diameter 7 mm. Pack of 1/box: 20
R1-40821 8 mm diameter 6 mm. Pack of 1/box: 20
R1-40822 4 mm diameter 8 mm. Pack of 1/box: 20

Lasik Drains
R1-40830 42 x 17 x 11.5 mm opening pack of 1/box: 20
R1-40831 40 x 14 x 10.5 mm opening pack of 1/box: 20

Not available in the US

Product and specifications are subject to change without notice
Ultra Purified Silicone Oil – SmartSil®

- Maximum interfacial tension and minimum interactions between tissues, cells and endo-tamponades media
- Optimal combination of specific gravity, refractive index and surface tension
- Different viscosity indexes enable easy injection (1000 cSt) and stable temporary tamponade (5000 cSt)

Physicochemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfacial tension</td>
<td>43.2 mNm⁻¹ (-1) at 37°C</td>
</tr>
<tr>
<td>Density</td>
<td>0.97 g/cm³</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1000 cSt / 5000 cSt</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.4</td>
</tr>
<tr>
<td>Volatility</td>
<td>0.06%</td>
</tr>
<tr>
<td>Polydispersity</td>
<td>2.33</td>
</tr>
<tr>
<td>Elements potentially toxic</td>
<td>&lt; 3 ppm</td>
</tr>
<tr>
<td>Low molecular weights</td>
<td>D4–D9: &lt; 24 ppm</td>
</tr>
<tr>
<td></td>
<td>D10–D20: ≤ 4 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartSil 1000</td>
<td>1000 cSt</td>
</tr>
<tr>
<td>SmartSil 5000</td>
<td>5000 cSt</td>
</tr>
</tbody>
</table>

Volume and Packaging:
10 ml in a 20 ml luer lock syringe, sterile, double pouch

Viscous fluid injection cannula

Allows injection of viscous fluids such as silicone oil through 23 Ga trocar cannula.
10 mm polyimide tip – 5 per box
12-5248 23 Ga

Tubings for syringes are available upon request

Product and specifications are subject to change without notice

Not available in the US
Silicone Oil Infusion Systems

Reusable Tubing System for the Infusion of Silicone Oil Caprolon Adapter adjustable to:
- Ioltech® Pentasys™
- Optikon® Antares™
- Alcon® STTO™
- Storz® Premiere™
- DORC® Harmony Budget™

12-RTUB-1

Reusable Tubing System for the Infusion of Silicone Oil Caprolon Adapter adjustable to:
- DORC® Associate™
- Alcon® Constellation™, Accurus™

12-RTUB-2

Reusable Tubing System for the Infusion of Silicone Oil Caprolon Adapter adjustable to:
- B&L® Millenium™
- Stellaris

12-RTUB-3

Reusable Tubing System for the Infusion of Silicone Oil Caprolon Adapter adjustable to:
- Oerli® Orbit™, Faros™, OS3™

12-RTUB-4

Iris Retractors

Reusable Iris Retractor
Retractors in Teflon container
Autoclavable
10-5127 1 pack of 6 pcs

Disposable Iris Retractors
Sterile
- 10-5016-1 1 pack of 4 pcs
- 10-5016-5 5 packs of 4 pcs
- 10-5067-1 1 pack of 5 pcs
- 10-5067-6 6 packs of 5 pcs

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Product and specifications are subject to change without notice
Anterior Segment Instruments

Cataract, Refractive, Corneal transplantation

View all our ophthalmic products at www.rumex.net
Small Incision Instruments

**Microcoaxial Forceps**

Capsulorrhexis Forceps With Limiter
- Ultra thin profile
- Limiter prevents the opening of branches for more than 1.8 mm
- Cystotome Tips
- Jaws 11 mm
- Round handle
  - Overall length 106 mm
  - Stainless Steel

4-0312S

**Inamura Type**

Rumex Capsulorrhexis Forceps
- Designed to fit through incisions down to 2.0 mm
- Recommended for Coaxial Phacemulsification
- Cross action
  - To maintain alignment of tips, prevent leakage of viscoelastic from anterior chamber
- Cystotome tips
- Curved jaws
  - Overall length 115/117 mm
  - Stainless Steel

4-0391S – Jaws 10 mm for corneal incision
4-0392S – Jaws 12 mm for scleral incision

**Coaxial Microphaco Prechopper**

Combo Prechopper for sub-2.0 mm incision
- Maximum opening 2.0 mm
  - Specially designed to split nuclei through small 2.00 mm incision
- Straight
- Cross action
- Round handle
  - Overall length 121 mm
  - Stainless Steel

7-1162S

**Knives for Small and Micro Incision**

Coaxial Surgery
- Specially designed to make a Micro Incision
  - Angled Knurled Titanium Handle
  - Overall Length – 130 mm

6-20/6-140 – 0.5/1.0 mm width
6-20/6-141 – 0.8/1.2 mm width
6-20/6-142 – 1.30/1.50 mm width
6-20/6-143 – 1.50/1.80 mm width
6-20/6-144 – 1.80/2.00 mm width
6-20/6-145 – 1.80/2.20 mm width

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
One Universal Handle + Interchangeable Tips

Microincisional and vitreoretinal instruments are composed of 2 parts - a handle and interchangeable tips. Universal handles fit both microincisional and vitreoretinal tips. Tips can be detached from the handles for better cleaning and sterilization to prevent inflammation after the surgery.

RUMEX Handle for Microincision Instruments

Ergonomic Design
Two Fingers Control Squeeze Model

12-003T

Benefits

- Made of titanium
- Corrosion resistant
- The special design minimizes hand fatigue
- Can be used with all MICS and Vitreoretinal tips

Gauge Conversion Chart

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Outer Diameter</th>
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<tr>
<td>19Ga</td>
<td>0.043” 1.10 mm</td>
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<tr>
<td>20Ga</td>
<td>0.036” 0.90 mm</td>
</tr>
<tr>
<td>21Ga</td>
<td>0.032” 0.80 mm</td>
</tr>
<tr>
<td>22Ga</td>
<td>0.028” 0.70 mm</td>
</tr>
<tr>
<td>23Ga</td>
<td>0.025” 0.63 mm</td>
</tr>
<tr>
<td>24Ga</td>
<td>0.022” 0.55 mm</td>
</tr>
<tr>
<td>25Ga</td>
<td>0.020” 0.50 mm</td>
</tr>
<tr>
<td>26Ga</td>
<td>0.018” 0.45 mm</td>
</tr>
<tr>
<td>27Ga</td>
<td>0.016” 0.40 mm</td>
</tr>
<tr>
<td>28Ga</td>
<td>0.014” 0.36 mm</td>
</tr>
<tr>
<td>29Ga</td>
<td>0.013” 0.33 mm</td>
</tr>
<tr>
<td>30Ga</td>
<td>0.012” 0.30 mm</td>
</tr>
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Color Codes of the Rotatable Wheel

<table>
<thead>
<tr>
<th>Function</th>
<th>Color Code</th>
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<tbody>
<tr>
<td>Scissors</td>
<td>PINK</td>
</tr>
<tr>
<td>Forceps</td>
<td>GREEN</td>
</tr>
</tbody>
</table>

NOTE: The colors of details may differ slightly from those displayed in this catalog.

Manual Cleaning

Proper manual cleaning of the instrument is necessary to preserve its working condition. Rumex manufactures interchangeable microincisional and vitreoretinal instruments to help you clean the tips separately from the handle to expand its useful lifespan and prevent inflammation after the surgery.

Flushing Adapter

This is a specially designed adapter for flushing the micro incisional tip.
Provided with each tip free of charge!

12-000T

* Tips are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
THE NEWLY DESIGNED DELICATE FORCEPS FOR HIGH PRECISION CAPSULORRHEXIS

Any mistake when creating capsulorrhexis can quickly lead to serious complications. That’s why a properly managed well-centered capsulorrhexis is the determinative phase of phacoemulsification.

Slightly curved and short 23 Ga shaft for better maneuverability

7 engravings at 1, 2, 2.5, 3, 4, 5, 6 mm for perfect sizing of the rrhexis

Short jaws facilitate gripping the capsule close to the wound

Designed in cooperation with Gilles Lesieur, M.D., France

Lesieur
Capsulorrhexis Forceps with Internal Ruler
Compatible with Squeeze Handle 12-003T
Tip only
4-03742  23 Ga

Kawai
Capsulorrhexis Forceps
Tip only
Curved tapered elongate 23/25 Ga shaft
Designed to perform capsulorrhexis through 0.8 mm side-port incision. The construction of the forceps show least adverse effect on the wound.
Gripping tips are projected out of 25 Ga shaft
Cystotome tips
Compatible with Squeeze Handle 12-003T (see p.4)
4-03771  23/25 Ga

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Forceps

Designed to perform capsulorrhexis through 0.8 mm side-port incision

Kershner

One-Pinch capsulorrhexis Forceps
- Curved 23 Gauge shaft For High Vacuum Phaco
- Jaws length 2.5 mm
- Cystotome tips
- With fixation wheel
  Compatible with Squeeze Handle 12-003T

4-03731* 23Ga

Kershner

Most Popular

One-Pinch capsulorrhexis Forceps with Micro Jaws
- Curved 23 Gauge shaft
- Micro jaws length 1.8 mm
- Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis
- Cystotome tips
- With fixation wheel
  Compatible with Squeeze Handle 12-003T

4-03741* 23Ga

Capsulorrhexis Forceps with Internal Ruler, 23Ga

Most Popular

Capsulorrhexis Forceps with Micro Jaws
- The internal laser marks allow to measure the size of rhexis
- Curved 23 Gauge shaft
- Micro jaws length 0.8 mm
- Cystotome tips
- With fixation wheel
  Compatible with Squeeze Handle 12-003T

4-0374* – 2 engravings at 3, 6 mm
4-0375* – 6 engravings at 1, 2, 3, 4, 5, 6 mm

Fine-Ikeda

Capsulorrhexis Forceps with Micro Jaws
- Curved 23 Gauge shaft
- Designed to perform capsulorrhexis through 0.8 mm side-port incision
- Micro jaws length 0.8 mm
- Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis
- Cystotome tips
- With fixation wheel
  Compatible with Squeeze Handle 12-003T

4-03751* 23Ga

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**Ikeda**  
**Micro Capsulorhexis Forceps**  
- Curved 23 Gauge shaft  
- Micro jaws length 0.6 mm  
- Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis  
- Cystotome tips  
- With fixation wheel  
  Compatible with Squeeze Handle 12-003T  
4-03761*  23 Ga  

**Tying Forceps**  
Intraocular  
- Designed for intraocular suturing  
- Curved shaft  
  Compatible with Squeeze Handle 12-003T  
4-1891*  23 Ga  

**ICL™ Loading Forceps**  
Coaxial Angled Forceps  
- Straight 20 Gauge shaft  
- Non rotatable  
  Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening  
  Compatible with Squeeze Handle 12-003T  
4-21431*  20 Ga  

**IOL Grasping Forceps**  
New  
- Curved shaft  
- Sand-blasted surfaces for efficient gripping  
- Fenestrated jaws for better visualization and haptic manipulation  
  Designed to reach and hold the IOL optic and gaptic  
  Compatible with Squeeze Handle 12-003T  
4-2145*  21 Ga  

* Handles are sold separately!
Anterior Zaldivar Iridectomy Scissors
Straight shaft –
Compatible with Squeeze Handle 12-003T
11-03721*  23 Ga

Rowen Rescue Kit

Rowen Rescue Kit Forceps Most Popular
Crocodile Type Intraocular Forceps For Foldable Lens Removal
– To remove silicone or acrylic IOL in case of complications
Compatible with Squeeze Handle 12-003T
4-2150*  20 Ga

Rowen Rescue Kit Scissors Most Popular
Straight Intraocular Scissors For Foldable Lens Removal
– Curved shaft
– To remove silicone or acrylic IOL in case of complications
Compatible with Squeeze Handle 12-003T
4-2151*  19 Ga

Scissors

Capsulotomy Scissors
Side Port Capsulotomy Scissors
– Curved shaft
– With lock
Compatible with Squeeze Handle 12-003T
11-03741*  20 Ga, Left
11-03751*  20 Ga, Right (shown)

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**Needle Holders and Punches**

**Coaxial Needle Holder**

For IOL Suturing
- Designed for IOL scleral fixation with suture through a small incision
- Titanium handle with plunger mechanism
- Curved shaft
  To be used with straight and curved spatulated needles with length up to 18 mm (Poly-propylene 10-0 or 9-0)
- Overall length 128 mm

8-120 19 Ga

**Intraocular Needle Holder**

Needle Holder
- Designed for intraocular suturing and manipulations with the IOL
- Curved shaft
  Compatible with Squeeze Handle 12-003T

8-1211-23* 23 Ga

**Trabeculectomy Punch**

Micro Punch
- 0.6 mm diameter head
- Bullet-shaped tip
- 0.3 mm x 0.6 mm deep bite
  Compatible with Squeeze Handle 12-003T

16-0111*

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Eye Speculums With Aspiration
Ports on each blade allow continuous aspiration providing better vision during the operation

Kershner
- Reversible
  - Can be used for both nasal & temporal approach.
  - Solid blades
14-060A adult

Lieberman Style
- Temporal
  - "V" style open blades
14-080A adult
14-082A child

Lieberman Style
- Nasal
  - Kratz style open blades
14-081KA adult

Lieberman Style
- Temporal
  - Rounded open blades
14-080LA temporal
14-081LA nasal

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Castroviejo Speculums

Castroviejo
- 15 mm fenestrated blades
- Blades spread 30 mm
- Flat branches
  Titanium
  Overall length 80 mm
14-061T    adult

Reversible Speculums Kershner Style
Can be used for both nasal and temporal approach

Kershner
- Fenestrated blades
- Flat branches
  Titanium
  Overall length 70 mm
14-062T    adult

Kershner
- Solid blades
- Round branches
  Titanium
  Overall length 70 mm
14-060T    adult

Kershner
- Solid blades
- Flat branches
  Titanium
  Overall length 70 mm
14-0601T   adult

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Temporal Speculums Lieberman Style

- Temporal
- "V" style open blades
- Flat branches
- Titanium
- Overall length 76 mm

**14-0401T** adult
**14-042T** child

**Lieberman Style**

- Temporal
- Kratz style open blades
- Round branches
- Titanium
- Overall length 71 mm

**14-040TK** adult

**Lieberman Style**

- Temporal
- Kratz style open blades
- Round branches
- Titanium
- Overall length 71 mm

**14-0401TK** adult

**Lieberman Style for LASIK**

- Temporal
- Rounded open blades
- Round branches
- Titanium
- Overall length 71 mm

**14-0401TL** adult

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Nasal Speculums Lieberman Style

**Lieberman Style**
- Nasal
- “V” style open blades
- Flat branches
  - Titanium
  - Overall length 76 mm

14-041T  adult
14-043T  child

**Lieberman Style**
- Nasal
- “V” style open blades
- Round branches
  - Titanium
  - Overall length 76 mm

14-0411T  adult
14-0431  child

**Lieberman Style**
- Nasal
- Kratz style open blades
- Round branches
  - Titanium
  - Overall length 76 mm

14-041TK  adult

**Lieberman Style for LASIK**
- Nasal
- Rounded open blades
- Flat branches
  - Titanium
  - Overall length 70 mm

14-0411TL  adult

Specially designed to accommodate microkeratome suction ring

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Solid Blades Speculums

Sauer
- Solid blades
- Blade spread 20 mm
  Overall length 35 mm
  14-030 child (8mm blades)
  14-031 newborn (5mm blades)
  14-032 premature (4mm blades)

Barraquer
- Closed wire rounded blades
  Stainless steel
  14-022S adult (14mm blades)
  14-023S child (11mm blades)
  14-024S infant (10mm blades)
  14-024S newborn (5mm blades)

Barraquer
- Solid blades
  Stainless steel
  14-0221S adult (14mm blades)
  14-0231 child (11mm blades)
  14-0241S newborn (5mm blades)
  14-0222S premature (4mm blades)

Barraquer
- Open blades
  Stainless steel
  Overall length 45 mm
  14-025S adult
  14-026S child

Barraquer
- Angled for temporal approach
  Closed wire blades
  Stainless steel
  Overall length 40 mm
  14-028S adult
  14-0281S child

Barraquer
- Angled for temporal approach
  Open rounded blades
  Stainless steel
  Overall length 40 mm
  14-0282S adult
  14-0283 child

Barraquer
- Angled for temporal approach
  Open blades
  Stainless steel
  Overall length 45 mm
  14-0286S adult
  14-0287S child
Calipers and Keratometers

**Castroviejo**
- Caliper
- Measures from 0 to 20 mm
- Scale is engraved on both sides
- Polished finish
- Overall length 87 mm
- Most Popular
  - 2-010T: 0-20.0 mm
  - 2-010S: 0-20.0 mm

**Adler**
- Wound Gauge
- Used to measure incision width and depth (peripheral to central dimension) of a corneal/limbal wound
- Dull finish
- Titanium
- 2-064T: 2.0-2.5 mm
- 2-065T: 2.5-3.0 mm

**Braunstein**
- Fixed Caliper
- To make the mark for MVR blade entrance and intravitreal injections
- Marks the distance from limbus to sclera
- 3.5/3.0 mm for aphakic and 4.0/3.5 mm for phakic eyes
- Overall length 80 mm
- 2-101T: 3.0/3.5 mm
- 2-100T: 3.5/4.0 mm
- 2-100S: 3.5/4.0 mm

**Rumex**
- Internal Micro Incision Gauges
- 16 stainless steel blades
- 0.10 mm increments marks
- Overall length 75 mm
- Stainless steel
-Most Popular
- 2-062S: 1.0-2.5 mm

**Maloney**
- Intraoperative Keratometer
- For qualitative measurement of astigmatism
- Most Popular
- 16-020T

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Gauges

**LRI Gauge**
Limbal Relaxing Incision Gauge
Used to determine incision angles
Can be used with 3-090T Bores Axis Marker
- Calibrated every 10 degrees from 0° to 180°
- With atraumatic fixation teeth
- Dull finish
  - Overall length 134 mm
  - Titanium

2-031T ID 13mm/ ED 18mm
2-031T ID 13mm/ ED 18mm

**Mendez**
Degree Gauge
Used to determine incision angles
Can be used with 3-090T Bores Axis Marker
- Calibrated every 10 degrees from 0° to 180°
- With atraumatic fixation teeth
- Dull finish
- Overall length 134 mm
- Titanium

2-030T ID 13mm/ ED 19mm
2-030T ID 13mm/ ED 19mm
2-033T ID 13mm/ ED 19mm
2-033T ID 13mm/ ED 19mm

**Axis Markers**
Used with Mendez and LRI Gauges (2-031T, 2-030T, 2-033T, 2-031T, 2-0331T) to mark the axis

**Bores**
Axis Marker
Used with Mendez and LRI Gauges to mark the axis.
- Intra-Op
  - Overall length 130 mm
  - Titanium

3-090T
The optimal placement of Toric IOL is essential, because a slight misalignment leads to error of correction, loss of image clarity and it is impossible to resolve the problem without re-operation. A pair of instruments helps to produce accurate marks for the desired axis of Toric IOL alignment.

**Mendez**
Grooved Fine Mendez Degree
Used to determine incision angles
Can be used with 3-091T Bores Axis Marker
- Calibrated every 5 degrees from 0° to 180°
- With 4 grooves for better marks visualization
- Internal diameter 12 mm/external diameter 14 mm
- Dull finish
  Overall length 120 mm
  Titanium
2-034T

**Bores**
Axis Marker
Used with Mendez 2-034T to mark the axis.
- Intra-Op
  Overall length 130 mm
  Titanium
3-091T

**PERFECT COMBINATION!**

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Capsulorrhexis Markers
Optical Zone / Corneal Transplant Markers

**Whipple Capsulorrhexis**
Most Popular
Centration Marker
- Creates circular mark on the cornea to help gauge the size of the capsulotomy and its position
- Double Ended with 5.5/6.0 mm diameter

3-040

**Hoffer**

Optical Zone Marker
- With cross hairs
  Overall length 130 mm
  Titanium

3-0201T  2.50 mm  3-0211T  5.00 mm
3-0202T  2.75 mm  3-0212T  5.50 mm
3-0203T  3.00 mm  3-0213T  6.00 mm
3-0204T  3.25 mm  3-0215T  7.00 mm
3-0205T  3.50 mm  3-0216T  7.50 mm
3-0206T  3.75 mm  3-0217T  8.00 mm
3-0207T  4.00 mm  3-0218T  8.50 mm
3-0208T  4.25 mm  3-0219T  9.00 mm
3-0209T  4.50 mm  3-0220T  9.50 mm

**Osher-Neumann**

Corneal Marker
- Low Profile
- 8 radial blades
  Overall length 130 mm
  Titanium

3-0304T

**Corneal Transplant**

Marker
- 7 mm ring with 8 radial blades
- With centre pointer
  Overall length 130 mm
  Titanium

3-140T
LASIK Markers
LRI / Toric IOL Markers

**Lavery LASIK**
Marker
- 8.5 mm optical zone
- 5 asymmetrical marking lines to ensure right placement of a corneal flap
- With an optical centre sight
  Overall length 130 mm
  Titanium
3-174T

**LASIK Flap**
Marker
- 3 asymmetrical marking lines to ensure right placement of a corneal flap
- Designed both for nasal and superior hinge
  Overall length 130 mm
  Titanium
3-176T

**LRI Marker**
- Intra-Op
- Automatically creates marks at 40-60-80 degrees
  Overall length 130 mm
3-1801

**Toric IOL Marker**
- Intra-Op
- Designed for LRI/Toric IOL implantation
  Overall length 130 mm
3-181

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
**LRI / Toric Markers With Gravity Weight System**

Gravity weight system assures excellent visualization and balance

- **Slit Lamp**
  - Rumex Toric/LRI Marker
    - Pre-Op
    - To mark precision horizontal axis at the slit lamp at 3' an 9'
    - Overall length 136 mm
  - 3-1921

- **Whitehouse**
  - Gravity Axis Marker
    - Pre-Op
    - Marks the limbus at 3, 6 and 9 o’clock
    - Helps to avoid the effect of cyclotortion
    - Gravity weight system assures excellent visualization and balance
    - Internal diameter 11 mm/external diameter 14 mm
    - Overall length 155 mm
  - 3-193
  - Angled shaft
  - 3-1931
  - Straight shaft

- **Whitehouse**
  - Gravity Axis Marker II
    - Pre-Op
    - Marks the cornea at 3, 6 and 9 o’clock
    - Helps to avoid the effect of cyclotortion
    - Gravity weight system assures excellent visualization and balance
    - Internal diameter 9,5 mm/external diameter 12 mm
    - Overall length 153 mm
  - 3-1932
  - Straight shaft

- **Rumex Toric Combo**
  - Marker
    - Pre-Op marker to mark the axes while the patient is in sitting position
    - Marks both horizontal and toric axes pre-operatively, which eliminates an Intra-Op step
    - Provided with rotating ring for accurate alignment.
    - Reduces cyclotorsion effect in supine position
    - Overall length 125 mm
  - 3-194
  - Vertical axis
  - 3-1941
  - Horizontal axis

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
NEW MARKERS FOR LRI/IOL IMPLANTATION WITH GRAVITY WEIGHT SYSTEM

**Velasquez**
Gravity Corneal Marker for LRI/Toric IOL implantation
- 4 radial blades mark the horizontal and vertical meridians of the visual axis
- The internal marks help to check the IOL alignment in the end of surgery
- The central 5 mm ring serves as a guide for capsulorrhexis
- The outer ring protects blades from damage
- Angled shaft helps to avoid touching the lower eyelid

**Richman**
SINGLE-STEP toric marker designed to mark the desired axis of toric placement. The mark is performed pre-operatively, which eliminates an intra-op step
- New design makes markings and degree scale more visible, allowing better accuracy
- The outer barrel has indentations which make it easy to rotate
- ERGONOMIC handle is angled to avoid the lower eyelid when marking while still being able to rest your hand on the patient’s cheek for stability
- Gravity weight is at the back of the marker, not interfering with your grip
- There is a wide central opening for better centration when marking

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**Blade Holders**

- Round knurled handle with end lock
- Polished finish
- Overall length 95 mm
- Titanium

**1-010T**

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**Bard Parker Handle**

- Flat serrated handle
- Overall length 130 mm
- Stainless Steel or Titanium

**1-020S**

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Astigmatic Keratotomy

Astigmatic Keratotomy Knives
Micrometric Handle, Titanium

6-00/6-020
Astigmatic & Arcuate
1.00 mm width

6-00/6-030
Arcuate
1.00 mm width

Corneal Transplant / Universal Side Port

Alfonso Corneal Transplant Knife
Round Knurled Handle, Titanium
Overall Length – 110 mm
The cutting edge is situated in the middle part of the blade exposed to the tissue. The upper part of the blade is blunt to avoid the damage of iris or lens

6-10/6-056
1.00 mm width

Universal Straight Side Port Knives

Round Knurled Handle, Titanium
Overall Length – 110 mm
Used for making a Paracenthesis

6-10/6-050
45° Single Edge
1.00 mm width

6-10/6-0501
45° Double Edge
0.60 mm width

6-10/6-051
30° Single Edge
1.00 mm width

6-10/6-052
45° Double Edge
1.00 mm width

6-10/6-053
Trifacet
1.00 mm width

6-10/6-0531
20° Trifacet
1.00 mm width

6-10/6-054
15° Single Edge
1.00 mm width

6-10/6-070
Lancet 60°
1.00 mm width

6-10/6-071
Lancet 60°
0.80 mm width

6-10/6-076
Multi-Incision
1.00 mm width

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Angled Phaco Knives

Clear Cornea Blades
6-20/6-071 – 2.50 mm width
6-20/6-072 – 2.80 mm width
6-20/6-073 – 3.00 mm width
6-20/6-074 – 3.20 mm width

Facet-Free Crescent Blades
6-20/6-091 – 1.50 mm width
6-20/6-092 – 2.00 mm width

Profile of the incision directed to the Anterior Chamber

Knives for MICS

Trapezoid Self-Diving Blades
6-20/6-140 – 0.50/1.00 mm width
6-20/6-141 – 0.80/1.20 mm width
6-20/6-142 – 1.30/1.50 mm width
6-20/6-143 – 1.50/1.80 mm width
6-20/6-144 – 1.80/2.00 mm width
6-20/6-145 – 1.80/2.20 mm width

Zaldivar Blade
6-20/6-0551
0.55/1.00 mm width
Designed for ICL™ implantation
Can be used for other incisions:
Side Port, Clear Cornea, Scleral Tunnel

Knives for Micro Incision Coaxial Surgery (MICS)

Angled Knurled Handle, Titanium
Overall Length – 130 mm
Designed to make a Micro Incision

Profile of the incision directed to the Anterior Chamber

Most Popular

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
LRI Knives

Universal Three-Step Knife for Cataract and LRI Surgery

Three steps: 0.50 mm, 0.55 mm and 0.60 mm for LRI and AK Surgery
Full extension for Side Port or Phaco Incision
Single footplate for better visualization
20° Trifacet Blade
0.20 – 1.00 mm width
Overall length – 130mm

Pre-Set LRI Knives

Short handle – 78 mm, Titanium
20° Trifacet Blade
0.20 – 1.00 mm width

Long Handle – 110 mm, Titanium
20° Trifacet Blade
0.20 – 1.00 mm width

Cleaning Pack

Diamond Knife Cleaning Pack
The pack consists of 3 solutions that are used to clean the blade off residual debris prior to sterilization
21-602-1

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Corneal Scissors

**Castroviejo**

Corneal Scissors
- Curved
- 11 mm blades
- Blunt tips
  Overall length 100 mm
  Stainless Steel

11-010S   Left (shown)
11-0101S   Right

**Castroviejo**

Universal Corneal Scissors
- Blunt tips
  Overall length 102/106 mm
  Stainless Steel

11-011S   7,5 mm blades
11-012S   11 mm blades (shown)

**Osher**

Universal Corneal Scissors
- Gently curved
  Provide a precise 6,5 mm beveled incision opening with a single snip
- 21 mm blades
- Blunt tips
  Overall length 120 mm
  Stainless Steel

11-013S

**Castroviejo**

Universal Corneal Scissors
- Curved
- 16 mm blades
- Blunt tips
  Overall length 110 mm
  Stainless Steel

11-015S

**Katzin**

Corneal Transplant Scissors
- Strongly curved
- Medium blades
- Blunt tips
  Overall length 100 mm
  Stainless Steel

11-020S   Left (shown)
11-0201S   Right

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Castroviejo

**Corneal Section Scissors**
- Lower blade 0.5 mm longer than upper blade
- 14 mm blades
- Overall length 106 mm
- Stainless Steel

11-024S Right (shown)
11-0241S Left

**Corneal Transplant Scissors**
- Blades with blunt legde
  (Descement’s membrane protection)
- Used to perform the superficial keratectasia (removal of superficial layers of corneal stroma).
- Used to remove the 4 parts of separated stromal layers after the «Big Bubble» procedure.
- Stainless Steel
- Overall length 102/110 mm

11-036S Medium curve
11-0361S Strong curve

11-036S 11-0361S

**DALK**

**Corneal Transplant Scissors**
- Blades with blunt legde
- 11 mm blades
- Overall length 106 mm
- Stainless Steel

11-038S Right (shown)
11-0381S Left

**Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied**
Iris Scissors

Zaldivar
Iridectomy Scissors
- Straight shaft
  Compatible with Squeeze Handle
(12-003T)
11-03721* 23 Ga

McPherson-Vannas
Iris Scissors
- Straight
- 8 mm blades
- Sharp pointed tips
- Round handle
  Overall length 85 mm
  Stainless Steel
11-062S

Barraquer
Iris Scissors
- 8 mm blades
- Blunt tips
- Squeeze action handle
  Overall length 54 mm
  Stainless Steel
11-1223

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Stitch Scissors

Westcott
Stitch Scissors
- Gently curved
- 16 mm blades
- Sharp pointed tips
  Overall length 120 mm
  Stainless Steel

11-044S Standard jaws (shown)
11-125S Westcott type slim jaws

Westcott
Stitch Scissors
- Gently curved
- 13 mm blades
- Sharp pointed tips
- Overall length 115 mm
  Stainless Steel

11-046S Flat Handle (shown)
11-047S Round Handle

Strabismus Scissors

Knapp
Strabismus Scissors
- Ring handle
  Overall length 125 mm
  Stainless Steel

11-100S Straight (shown)
11-101S Curved

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Tenotomy Scissors

**Westcott** Most Popular
Tenotomy Scissors
- Curved
- 13 mm blades
- Blunt tips
  Overall length 115 mm
  Stainless Steel
11-040S

**Westcott** Most Popular
Tenotomy Scissors
- Curved
- 16 mm blades
- Blunt tips
  Overall length 120 mm
  Stainless Steel
11-042S

**Westcott** Most Popular
Tenotomy Scissors
- Right
- Curved
- 15 mm blades
- Blunt tips
  Overall length 116 mm
  Stainless Steel
11-048S

**Shepard-Westcott**
Tenotomy Scissors
- Right
- Curved
- 21 mm blades
- Blunt tips
  Upper blade serrated («supercut»)
  Overall length 115 mm
  Stainless Steel
11-0481S

**Stevens**
Tenotomy scissors
Overall length 115 mm
Stainless Steel
11-130S straight, sharp tips
11-131S curved, sharp tips
11-132S curved, blunt tips
11-133S straight, blunt tips (shown)

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Capsulotomy Scissors

Side Port
Capsulotomy Scissors
- Curved shaft
- With fixation wheel
- Compatible with Squeeze Handle
12-003T

11-03741* Left (shown) 20 Ga
11-03751* Right 20 Ga

Clayman-Vannas
Swan Neck Capsulotomy Scissors
- Straight
- 5 mm blades
- 13 mm from pivot to tip
- Sharp pointed tips
- Smooth handle
- Overall length 82 mm
Stainless Steel
11-0501S

Most Popular

Vannas
Capsulotomy Scissors
- 6 mm blades
- 13 mm from pivot to tip
- Sharp pointed tips
- Overall length 84/84/80 mm
11-050S straight
11-052S curved
11-054S angled

Most Popular

Gills-Vannas
Capsulotomy Scissors
- 10 mm blades
- 7 mm from pivot to tip
- Sharp pointed tips
- Overall length 88/88/84 mm
Stainless Steel
11-056S straight
11-058S curved
11-0581S angled

Enucleation Scissors

Enucleation Scissors
- Curved
- Blunt tips
- Ring handle
- Overall length 110/148 mm
Stainless Steel
11-090S medium size, 33 mm blades (shown)
11-091S large size, 48 mm blades

* Handles are sold separately!
Capsulorrhexis Forceps

**Utrata**
- Capsulorrhexis Forceps
- Straight jaws, 11 mm
- Small size
- Overall length 82 mm
- Titanium or Stainless Steel

- **4-030T**  Regular tips
- **4-0300T**  Cystotome tips
- **4-0300S**  Cystotome tips

**Utrata**
- Capsulorrhexis Forceps
- Straight jaws, 11 mm
- Long handle
- Overall length 107 mm
- Titanium or Stainless Steel

- **4-0301T**  Cystotome tips
- **4-0301S**  Cystotome tips

**Utrata**
- Capsulorrhexis Forceps
- Curved jaws, 11 mm
- Long handle
- Overall length 107 mm
- Titanium

- **4-0321T**  Cystotome tips

**Utrata**
- Capsulorrhexis Forceps
- Straight jaws, 11 mm
- Round handle
- Overall length 110 mm
- Titanium

- **4-0311T**  Cystotome tips (shown)
- **4-031T**  Regular tips

**Utrata With Ruler**
- Capsulorrhexis Forceps
- Straight jaws, 11 mm
- With internal laser marks
- Ultra-thin profile
- Cystotome tips
- Round handle
- Overall length 110 mm
- Titanium

- **4-03114T**  2 engravings at 3.6 mm
- **4-03115T**  6 engravings at 1.2, 3, 4, 5, 6 mm

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Capsulorrhexis Forceps

Utrata
Capsulorrhexis Forceps
- Curved Jaws, 11 mm
- Round handle
  Overall length 110 mm
  Titanium

4-0331T  Cystotome tips

Utrata With Ruler
Capsulorrhexis Forceps
- Curved jaws, 11 mm
- With internal laser marks
  Ultra-thin profile
  Cystotome tips
- Round handle
  Overall length 110 mm
  Titanium

4-03314T  2 engravings at 3,6 mm
4-03315T  6 engravings at 1,2,3,4,5,6 mm

Nevyas
Capsulorrhexis Forceps
- Straight jaws, 11 mm
- Cystotome triangular tips
  Flat fenestrated handle
  Overall length 105 mm
  Titanium

4-0352T  Cystotome tips

Microcoaxial Forceps
Capsulorrhexis Forceps With Limiter
- Curved Jaws, 11 mm
- Ultra-thin profile and limiter for capsulorrhexis even through 2-mm incision
- Round handle
  Overall length 106 mm
  Stainless Steel

4-0312S  Cystotome tips

Inamura Type
Rumex Capsulorrhexis Forceps
- Curved jaws
- Designed to fit through incisions down to 2,0 mm
  Recommended for Coaxial Phacemulsification
- Cross action
  To maintain alignment of tips, prevent leakage of viscoelastic from anterior chamber
- Cystotome tips
  Overall length 115/117 mm
  Stainless Steel

4-0391S Jaws 10 mm for corneal incision
4-0392S Jaws 12 mm for scleral incision

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MICS Capsulorrhexis Forceps

Kershner
One-Pinch Capsulorrhexis Forceps
- Curved 23 Gauge shaft
- For High Vacuum Phaco
- Designed to perform capsulorrhexis through 0.8 mm side-port incision
- Cystotome tips
- With fixation wheel
- Compatible with Squeeze Handle 12-003T

4-03731* 23Ga

Kershner
Most Popular
One-Pinch Capsulorrhexis Forceps with Micro Jaws
- Curved 23 Gauge shaft
- Designed to perform capsulorrhexis through 0.8 mm side-port incision
- Micro jaws
- Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis
- Cystotome tips
- With fixation wheel
- Compatible with Squeeze Handle 12-003T

4-03741* 23Ga

Capsulorrhexis Forceps
Most Popular
with Internal Ruler | with Micro Jaws
- The internal laser marks allow to measure the size of rhexis
- Curved 23 Gauge shaft
- Micro jaws
- Cystotome tips
- With fixation wheel
- Compatible with Squeeze Handle 12-003T

4-0374* 23 Ga, 2 engravings at 3, 6 mm
4-0375* 23 Ga, 6 engravings at 1, 2, 3, 4, 5, 6 mm

Lesieur
New
Capsulorrhexis Forceps with Internal Ruler
- Shorter jaws facilitates gripping the capsule close to the wound
- Gently curved and short 23 Ga shaft for better maneuverability in the anterior chamber
- 7 engravings at 1, 2, 2.5, 3, 4, 5, 6 mm for perfect sizing of the rhexis
- Cystotome tips
- With fixation wheel
- Compatible with Squeeze Handle 12-003T

4-03742* 23Ga

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
MICS Capsulorrhexis Forceps

**Fine-Ikeda**
Capsulorrhexis Forceps with Micro Jaws
- Curved 23 Gauge shaft
  - Designed to perform capsulorrhexis through 0.8 mm side-port incision
- Micro jaws
  - Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis
- Cystotome tips
- With fixation wheel
  - Compatible with Squeeze Handle 12-003T

4-03751* 23 Ga

**Ikeda**
Micro Capsulorrhexis Forceps
- Curved 23 Gauge shaft
  - Designed to perform capsulorrhexis through 0.8 mm side-port incision
- Micro jaws
  - Reduced length of the branches for better maneuverability in the anterior chamber during capsulorrhexis
- Cystotome tips
- With fixation wheel
  - Compatible with Squeeze Handle 12-003T

4-03761* 23 Ga

**Kawai**
Capsulorrhexis Forceps
- Curved tapered elongate 23/25 Ga shaft
  - Designed to perform capsulorrhexis through 0.8 mm side-port incision
  - The construction of the forceps show least adverse effect on the wound.
- Gripping tips are projected out of 25 Ga shaft
- Cystotome tips
- With fixation wheel
  - Compatible with Squeeze Handle 12-003T

4-03771* 23/25 Ga

* Handles are sold separately!
Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Cilia Forceps

Narrow Forceps
- Smooth jaws
  Overall length 86 mm
  Stainless Steel or Titanium

4-042S (shown)
4-042T

Cilia Forceps

Wide Forceps
- Smooth jaws
  Overall length 85 mm
  Titanium

4-043T

Conjunctiva Forceps

Fechtner
Conjunctiva Forceps
- Delicate ring tip jaws
  Overall length 108 mm
  Titanium

4-2301T Flat Handle (shown)
4-2302T Round Handle

Lid and Chalazion Forceps

Desmarres
Chalazion Forceps
- Solid lower plate, open upper plate
- Locking thumb screw mechanism
  Overall length 96/90/92 mm
  Titanium

4-1906T Large Size 31x20mm (shown)
4-1907T Small Size 20x13mm
4-1912T Medium Size 24x16mm

Lambert
Chalazion Forceps
- Round solid lower plate, open upper plate
- Locking thumb screw mechanism
  Overall length 92/97 mm
  Titanium

4-1908T Small 8 mm ID of the upper plate
4-1909T Medium 12 mm ID of the upper plate (shown)

Putterman
Lid Clamp
- 6 Pins
- Serrated jaws
- Sliding lock
  Overall length 100 mm
  Titanium

4-140T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
New Rumex Forceps!

Compressing Lid Forceps

Dysfunctional meibomian glands often cause dry eyes, one of the more common eye conditions. They may also contribute to blepharitis. Inflammation of the meibomian glands (also known as meibomitis, meibomian gland dysfunction, or posterior blepharitis) causes the glands to be obstructed by thick waxy secretions. Physical expression of the blocked glands has the goal of removing gland obstruction. This instrument obtains quick and delicate meibum expression by equal compressing of the eyelid from the internal and the external sides.

- Overall length 112 mm
- Titanium

4-1913T

LASIK Flap Forceps

Specially designed for LASIK. For atraumatic corneal flap lifting and holding.
- Blunt, circle-shaped
- Criss-cross serrated jaws
- Curved shafts
- Overall length 108 mm
- Titanium

4-2206T
**Corneal Forceps**

- **Colibri**
  - Corneal Forceps
  - 1x2 teeth, 0.12 mm
  - Tying platform, 5 mm
  - Overall length 84 mm
  - Titanium
  - 4-050T

- **Colibri**
  - Corneal Forceps
  - 1x2 teeth, 0.12 mm
  - Tying platform, 5 mm
  - Overall length 77 mm
  - Titanium
  - 4-0501T

- **Hoskin Colibri**
  - Corneal Forceps
  - Pierced tips
  - Tying platform, 5 mm
  - Overall length 84 mm
  - Stainless Steel
  - 4-0502S

- **Colibri-Bonn**
  - Corneal Forceps
  - 1x2 teeth, 0.12 mm
  - Tying platform, 5 mm
  - Overall length 84 mm
  - Stainless Steel
  - 4-0503S

- **Colibri-Bonn**
  - Corneal Forceps
  - 1x2 teeth, 0.12 mm
  - Tying platform, 5 mm
  - Overall length 84 mm
  - Titanium
  - 4-0504T

- **Micro Colibri**
  - Corneal Forceps
  - 1x2 teeth, 0.12 mm
  - Tying platform, 5 mm
  - Overall length 73 mm
  - Titanium
  - 4-0505T

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
**Corneal Forceps**

**Colibri**

- Corneal Forceps
- Bonn type 1x2 teeth, 0.12 mm
- Tying platform, 5 mm
- Overall length 115 mm
- Titanium

4-053T

**Colibri**

- Corneal Forceps
- 1x2 teeth, 0.12 mm
- Round handle
- Overall length 109 mm
- Titanium

4-054T  regular tips
4-0540T  Bonn type tips

**Castroviejo Colibri**

- Corneal Forceps
- 1x2 teeth, 0.12 mm
- Tying platform, 5 mm
- Overall length 107 mm
- Titanium

4-0541T

**Bonn-Catalano**

- Corneal Forceps
- 1x2 teeth, 0.12 mm
- Tying platform, 5 mm
- Round handle
- Overall length 105 mm
- Titanium

4-0551T

**Catalano**

- Corneal Forceps
- Tying platform, 5 mm
- Round handle
- Overall length 105 mm
- Titanium

4-056T  1x2 teeth 0.3 mm
4-057T  1x2 teeth 0.5 mm

*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied*
Corneal Forceps

- Bonn

Corneal Forceps
- 1x2 teeth, 0.12 mm
- Tying platform, 5 mm
Overall length 94/72 mm
Titanium

4-058T Medium size (shown)
4-059T Small size

Dressing Forceps

- Dressing Forceps

With Delicate Serrations
- Straight serrated tips, 6 mm
- Round handle
Overall length 108 mm
Stainless Steel

4-070S

- Dressing Forceps

With Delicate Serrations
- Serrated tips, 12 mm
Overall length 100 mm
Stainless Steel or Titanium

4-071S
4-072T

Most Popular

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Fixation Forceps

**Adson**
Fixation Forceps with Teeth
- Ideal for plastic & reconstructive surgery
- 1x2 teeth, 0.5 mm
  Overall length 124 mm
- Stainless Steel or Titanium

4-0741S
4-0741T

**Polack**
Corneal Transplant Fixation Forceps
- Two point fixation
- Delicate 1x2 teeth, 0.12 mm
- 1.2 mm between the ends
- Curved shafts
- Pierse type tips
- Round handle
  Overall length 112 mm
  Titanium

4-0814T

**Nevyas-Wallace**
Fixation Forceps
- Two point fixation
- 13.0 mm between the ends
- 1x2 teeth, 0.12 mm
- Straight shafts
- Round handle
  Overall length 105 mm
  Titanium

4-08011T

**Castroviejo**
Fixation Forceps
- Straight shafts
- 1x2 teeth, 0.5 mm
- Overall length 105 mm
- Titanium

4-0822T
## Lens Inserters

<table>
<thead>
<tr>
<th><strong>Steinert</strong></th>
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<tr>
<td>Paddle Lens Folding Forceps</td>
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<td>- Angled shafts</td>
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<td>- Overall length 110 mm</td>
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<td>- Titanium</td>
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<table>
<thead>
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<th><strong>Faulkner</strong></th>
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<tr>
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<td>- Angled shafts</td>
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<td>- Smooth jaws</td>
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<td>- Overall length 105 mm</td>
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<tr>
<td>- Stainless Steel</td>
<td></td>
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<tr>
<td>4-2108S</td>
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</tbody>
</table>

| **McDonald** | |
| Inserting Forceps for Silicone Lens | |
| - Concave jaws, 5 mm | |
| - Cross action | |
| - Overall length 102 mm | |
| - Stainless Steel | |
| 4-2113S | |

| **Acrylic Lens** | **Most Popular** |
| Insertion Forceps | |
| - Flat handle | |
| - Overall length 102 mm | |
| - Titanium | |
| 4-2132T | |

| **Akahoshi** | |
| Forceps For Acrylic Lens | |
| - Thin and smooth jaws, 7 mm | |
| - Jaws open up to 5.5 mm | |
| - Cross action | |
| - Overall length 102 mm | |
| - Titanium | |
| 4-2138T | |

| **Cartridge Loading Forceps** | **Most Popular** |
| Designed for inserting Acrylic IOL into A, B, C, D cartridges | |
| - To be used with 16-2806, 16-2807, 16-2808 Injectors | |
| - Smooth jaws | |
| - Overall length 109 mm | |
| - Titanium | |
| 4-2141T | |

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
IOL Removing Instruments

**Rowen Rescue Kit Forceps**

**Rowen Rescue Kit Scissors**

**Rumex**

**Osher**

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*

*Handles are sold separately!
ICL™/IOL Forceps

ICL™
Cartridge Loading Forceps
- Designed to remove the ICL from the container and push it inside the cartridge
- Angled 30 degree long jaws
- Round handle
  Overall length 120 mm
  Titanium or stainless steel
4-20111T
4-20111S

ICL™ - registered trademark of STAAR®

ICL™
Coaxial Angled ICL™ Loading Forceps
- Straight 20 Gauge shaft
- Non rotatable
- Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening
- Compatible with Squeeze Handle 12-003T
4-21431* 20Ga

ICL™ - registered trademark of STAAR®

IOL Grasping Forceps
- Curved shaft
- Sand-blasted surfaces for efficient gripping
- Fenestrated jaws for better visualization and haptic manipulation
  Designed to reach and hold the IOL optic and haptic
  Compatible with Squeeze Handle 12-003T
4-2145* 21Ga

* Handles are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
** Iris Forceps **

- **Iris**
- Forceps With Delicate Serrations
  - Straight shaft
  - Fine serrated tips
  - Overall length 72 mm
  - Stainless Steel

  4-100S

- **Iris**
- Forceps With Delicate Teeth
  - 1x2 teeth
  - Overall length 72 mm
  - Stainless Steel

  4-101S straight shaft (shown)  
  4-102S curved shaft

** Jewelers Forceps **

- **Jewelers # 5**
  - Most Popular
- Forceps
  - Straight jaws
  - Pointed tips
  - Tying platform
  - Overall length 110 mm
  - Titanium

  4-111T

- **Jewelers # 3C**
- Forceps
  - Straight jaws
  - Pointed tips
  - Tying platform
  - Overall length 110 mm
  - Titanium

  4-113T

- **Jewelers # 7**
- Forceps
  - Curved jaws
  - Pointed tips
  - Tying platform
  - Overall length 110 mm
  - Stainless Steel and Titanium

  4-115T
  4-115S

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Hemostatic Forceps And Serrefines

**Hartman**  
Hemostatic Mosquito Forceps  
- Serrated jaws  
- Ring handle  
  Overall length 75 mm  
Stainless Steel  
4-120S  
4-121S  

**Halsted**  
Hemostatic Mosquito Forceps  
- Serrated jaws  
- Ring handle  
  Overall length 120 mm  
Stainless Steel  
4-122S  
4-123S  

**Serrefine**  
- Straight  
- Large Size  
  Overall length 55 mm  
Stainless Steel  
16-090S

Muscle Forceps

**Jameson**  
Muscle Forceps  
- 11 mm from tip to angle  
- 6 teeth  
- Slide lock  
  Overall length 100 mm  
Stainless Steel  
4-130S Left  
4-131S Right (shown)

**Osher**  
Superior Rectus Forceps  
- Curved with 1x2 teeth, 0.5 mm  
- Angled shafts  
- 10 mm from tip to angle  
  Overall length 107 mm  
Stainless Steel  
4-136S

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Suturing Forceps

**Castroviejo**
Suturing Forceps
- Tying platform, 6 mm
   - Overall length 110/108/108 mm
   - Titanium or Stainless Steel

4-0600S  1x2 teeth, 0.12 mm
4-0600T  1x2 teeth, 0.12 mm
4-0601S  1x2 teeth, 0.3 mm
4-0601T  1x2 teeth, 0.3 mm
4-0602S  1x2 teeth, 0.5 mm
4-0602T  1x2 teeth, 0.5 mm

**Pauifique**
Suturing Forceps
- 1x2 teeth, 0.5 mm
- Tying platform, 6 mm
   - Overall length 86 mm
   - Titanium or Stainless Steel

4-0606T (shown)
4-0606S

**Bishop-Harmon**
Suturing Forceps
- 1x2 teeth, 0.3 mm
- Tying platform, 5 mm
   - Overall length 86 mm
   - Stainless Steel

4-0607S

**Moorfields**
Suturing Forceps
- For gripping the tissue, conjunctiva and Tenon's capsule
- Grooved section, 13 mm
- Overall length 110 mm
   - Titanium

4-2303T

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Tying Forceps

Kelman-McPherson

Tying Forceps
- Overall length 81/84/86 mm
  Titanium or Stainless Steel
- 4-090T Tying Platforms, 4mm
- 4-091S Tying Platforms, 8 mm
- 4-092S Tying Platforms, 10 mm
- 4-092T Tying Platforms, 10 mm

McPherson

Tying Forceps
- Straight
- Tying platforms, 4 mm
- Standart handle
  Overall length 84 mm
  Titanium or Stainless Steel
- 4-171T
- 4-171S

Most Popular

McPherson

Tying Forceps
- Angled
- Long handle
- Standart handle
  Overall length 102/103/104/106 mm
  Titanium
- 4-173T Tying Platform, 6 mm
- 4-174T Tying Platform, 8 mm
- 4-175T Tying Platform, 10 mm
- 4-176T Tying Platform, 12 mm

McPherson

Tying Forceps
- Curved
- Tying platforms, 4 mm
- Long handle
  Overall length 109 mm
  Titanium or Stainless Steel
- 4-177T
- 4-177S

Most Popular

McPherson

Tying Forceps
- Straight
- Tying platforms, 7 mm
- Long handle
  Overall length 110 mm
  Stainless Steel
- 4-178S

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
Tying Forceps

Catalano
Tying Forceps
- Curved
- V-groove tying platform, 6 mm
- Round handle
  Overall length 105 mm
  Titanium
4-182T

Tennant
Extra delicate smooth jaws
- Curved
- Tying platform, 6 mm
- For 9-0 to 11-0 sutures
- Round handle
  Overall length 108/107/107 mm
  Titanium or Stainless Steel
4-185T straight
4-185S straight
4-1851T angled
4-186S curved

Intraocular Tying Forceps
- Designed for intraocular suturing
  Compatible with Squeeze Handle (12-003T)
4-1891* 23 Ga

* Handles are sold separately!

Utility Forceps

Watzke
Sleeve Spreading Forceps
- Angled serrated jaws
- Serrated cross-action handle
  Overall length 114 mm
  Titanium
4-2201T

Bonaccolto
Utility Forceps
- Longitudinal atraumatic serrations, 15 mm
- Cross serrations at tips
  Overall length 98 mm
  Titanium
4-2300T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Towel Clamps And Forceps

Schaedel
Towel Clamp
- Flat serrated handle
  Overall length 85 mm
  Stainless Steel
  16-080S

Towel forceps
Ring handle
  Overall length 90 mm
  Stainless Steel
  16-081S

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Intraocular Lens Hooks

Stainless steel hooks with an ergonomic light-weight round titanium handle.

**Lewicky**

Lens Manipulating Hook
- Angled, 10 mm from tip to angle
- Vaulted shaft
- 0.15 mm diameter blunt tip
  Overall length 120 mm

**Kuglen**

Iris Hook and Lens Manipulator
- 0.15 mm diameter shaft
- "H"-shaped tip
  Overall length 122/124 mm

Rumex

Lens Manipulator
- Angled, 10 mm from tip to angle
- 0.18 mm diameter shaft
- Button shaped 0.45 mm tip
  Overall length 122 mm

Sinskey

Lens Manipulating Hook
- Angled, 10 mm from tip to angle
- 0.15 mm diameter tip
  Overall length 122 mm

**Reversed Sinskey**

Scoring Hook for Endothelial Keratoplasty
- Angled, 10 mm from tip to angle
- 0.15 mm tip diameter
  Overall length 116 mm

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Intraocular Lens Hooks

Lester

Lens Manipulator
- Hourglass shaped 0.2 mm tip
- Overall length 124/122 mm

5-033    Straight
5-0331   Angled (shown)

Bechert

Nucleus Rotator
- Angled, 10 mm from tip to angle
- "Y" shaped tip
- Overall length 121 mm

5-034

Fenzl

Lens Manipulating Hook
- Angled, 10 mm from tip to angle
- "T" shaped tip
- Overall length 121 mm

5-036

Muscle / Tenotomy Hooks

Stainless steel hooks with an ergonomic light-weight flat serrated titanium handle.

Jameson

Muscle Hook
- Flat hook
- Bulbous tip
- Overall length 135 mm

5-040 Standard (2 mm tip, 9.5 mm hook)
5-0401 Small (1.5 mm tip, 8 mm hook)

Graefe

Muscle Hook
- Flat hook
- Overall length 140 mm

5-041 Size 1 (1 mm tip, 8 mm hook)
5-042 Size 2 (1.5 mm tip, 10 mm hook)

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
Scobee

Oblique Muscle Hook
- Curved shaft
- 4.5mm flat hook
  Overall length 140mm

5-061

Stevens

Tenotomy Hook
- 6 mm flat hook
  Overall length 120 mm

5-062

Retinal Detachment Hooks

Stainless steel hooks with an ergonomic light-weight flat serrated titanium handle.

Gass

Retinal Detachment Hook
- 13 mm flat hook
- 1.5x0.7 mm hole
  Overall length 140 mm

5-060
Iris / Nucleus Spatulas

**Straight Spatula**
Overall length 122 mm
- 13-010  0.25 mm width, 10 mm length
- 13-011  0.40 mm width, 14 mm length
- 13-014  1.00 mm width, 13 mm length

**Curved Spatula**
Overall length 122 mm
- 13-020  0.25 mm width, 12 mm length

**Double Spatula**
Overall length 122 mm
- 13-031  0.5 & 1.0 mm width, 12 mm length
- 13-032  0.3 & 0.5 mm width, 12 mm length

Cyclodialysis Spatulas

**Castroviejo**
Double Ended Cyclodialysis Spatula
Overall length 136 mm
- 13-050  0.5 mm width, 10 & 15 mm length

**Castroviejo**
Cyclodialysis Spatula
Overall length 124 mm
- 13-051  1.00 mm width, 10 mm length
- 13-052  0.75 mm width, 10 mm length

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
**New SPATULA FOR FEMTOSECOND LASER CATARACT PROCEDURE**

The incisions made by Femtosecond laser must be opened with a special blunt-ended instrument. The newly designed spatula for Femtosecond laser cataract is developed to open and spread the incision and to reach the anterior chamber.

### Spatula for Femtosecond Laser Procedure
- This delicate instrument is used for opening cataract incision created by femtosecond laser system
- Specially designed for Alcon LenSx® Laser
- Also compatible with incisions made by VICTUS™ Femtosecond Laser Platform (Bausch & Lomb)
- 1.4 mm length flat tip
  - Overall Length 120 mm

20-204
Corneal Spatulas

Paton
Doble Ended Spatula and Spoon
- Spatula for manipulations with the cornea (LASIK/PRK/Corneal Transplantation)
13-110

DSEK, DSAEK, DMEK Spatulas
For the full range of instruments see page 110

Corneal Dissector
- Straight
For intrastromal dissection
- 60 degree angled shaft
- 12 mm from tip to angle
- Overall length 125 mm
13-137

Corneal Dissector
- Curved (curvature radius 22mm)
For intrastromal dissection
- 45 degree angled shaft
- 12 mm from tip to angle
- Overall length 127 mm
13-138

Irrigating Endothelial Stripper
- For Descemet’s stripping
Overall length 104 mm
13-139/I

Spatula-Guide
- For Corneal Endothelium Implantation
Titanium
Most Popular
13-150T

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
DSEK, DSAEK, DMEK Spatulas
For the full range of instruments see page 110

Cindy
Sweeper DSEK Spatula
- Angled shaft
- 12 mm from tip to angle
- 0.7 mm diameter
  Overall Length 114 mm
  Stainless steel

13-151S

Carlson
DSEK Smoother
- Angled/vaulted shaft
- 7.5 mm from tip to angle
- 2.5mm blunt ball
  Overall length 115 mm
  Stainless steel

13-152S

Terry
DSEK Scraper
- Angled shaft
- 11 mm from tip to angle
- Hole-shaped scraper facing upward
  Overall length 114 mm
  Stainless steel

13-153S

Melles Style 1
DSAEK PLK Scraper
- 45 degree angled shaft
- 11 mm from tip to angle
- 45 degree angled tip
  Overall length 125 mm
  Titanium

13-154T

Melles Style 2
DSAEK PLK Scraper
- 45 degree angled shaft
- 11 mm from tip to angle
- 90 degree angled tip
  Overall length 125 mm
  Titanium

13-155T

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
DLEK Spatulas
For the full range of instruments see page 113

Manipulator for DLEK procedure
Designed to tuck the edges of the donor lamella
- 0.15 mm diameter tip
- Blunt Tip
  Overall Length 120 mm
13-160

DALK Spatulas
For the full range of instruments see page 112

Trisector for DALK Procedure
- Flat 1.4 x 0.7 mm tip
- Facilitates separation the rest of stromal attachments from the Descement's membrane at the periphery
- Blunt bottom surface is safe for Descement's membrane
- The anterior surface has an edge that facilitates the enlarging of stromal opening with a blade.
  Overall length 124 mm
13-170

Spatula for DALK Procedure
- Flat 1x9mm tip
- The center groove can be used as a guide for the blade facilitating the enlarging of stromal opening
- Blunt bottom surface is safe for Descement's membrane
  Overall length 122 mm
13-171

Dissector for DALK Procedure
- 12 mm length blunt beveled tip
  For creating a track in deep stroma for the further Cannula inserting
- Obtains delicate preparation for “Big Bubble” procedure
  Overall length 122 mm
13-172
Foreign Body Spuds

Davis
Foreign Body Spud
Overall length 130 mm
16-153

PRK / LASIK Spatulas
For the full range of instruments see page 99

Hockey Knife
For epithelium removal
- To remove epithelium for PRK procedure and during LASIK retreatment
  Overall length 130 mm
20-001

Lindstrom
LASIK / PRK Spatula And Epithelium Removal Board
- Semi-sharp end of the instrument designed to remove epithelium
- Fine spatula on the other end is used for flap manipulation during LASIK surgery
  Overall length 145 mm
20-002

LASIK
Spatula And Flap Retreatment Instrument
- Double ended
  Overall length 145 mm
20-013

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
LASEK Spatulas
For the full range of instruments see page 103

LASEK
Detaching Spatula
– Can be used to detach edge of the epithelium flap
Overall length 130 mm
20-130

LASEK
Epithelial Micro Hoe
– Can be used to detach and lift edge of the epithelium flap
Overall length 130 mm
20-131

LASEK Knife
– The sharp anterior part of the knife is used to detach epithelium from the incision
– The blunt part of the knife is for repositioning of the epithelium after the ablation
Overall length 128 mm
20-0011

FemtoLASIK Spatulas
For the full range of instruments see page 104

FemtoLASIK
Flap Spatula, Double Ended
– Double ended instrument with a delicate pick and a curved spatula to open and manipulate the flap
Overall length 128 mm
20-201

FemtoLASIK
Flap Spatula
– Delicate spatula with a jag on the tip to detach the flap edge and to open the flap
Overall length 121 mm
20-202

Zaldivar
FemtoLASIK Spatula
– Extra delicate spatula with bullet shaped tip to open and manipulate the flap
Overall length 123 mm
20-203

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
ICL™ Spatulas
For the full range of instruments see page 107

Pallikaris
ICL™ Manipulator
- Designed to place the lens corners under the iris
- Sandblasted tip
  Overall length 120 mm
13-141

Zaldivar
ICL™ Manipulator
- Double ended instrument with slight forked tips to place the lens corners under the iris
  Overall length 130 mm
13-142

ICSR Spatulas
For the full range of instruments see page 108

Elevator for ICSR Implantation
To create a small pocket in intended direction of the tunnel with a mild rotatory movement
- Straight shaft
- Tip dimensions: 0.1 mm height, 0.2 mm width, 0.7 mm length
  Overall length 123 mm
10-035

Suarez Spreader
To enlarge the small corneal pockets in both directions in a proper depth
- Straight shaft
- Tip dimensions: 0.1 mm height, 0.6 mm width, 1.25 mm length
  Overall length 122 mm
13-146

Bicalto Guide
To lift the cornea for inserting the Tunnel Maker beneath the guide
- Blunt tip
- Tip dimensions: 0.3 m height, 0.1 mm width, 5 mm length
  Overall length 121 mm
13-147

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Barraquer Needle Holders, Small Size

Titanium Needle Holders with tungsten carbide covered tips for better gripping and with ergonomic round serrated handle

**Barraquer Needle Holder**
- Curved
- Standard jaws, 12 mm
  - Overall length 100 mm
- Titanium

8-010T with lock
8-011T w/out lock (shown)

**Barraquer Needle Holder**
- Straight
- Standard jaws, 12 mm
  - Overall length 100 mm
- Titanium

8-013T w/out lock

**Barraquer Needle Holder**
- Curved
- Fine jaws, 12 mm
  - Overall length 100 mm
- Titanium

8-020T with lock
8-021T w/out lock (shown)

**Barraquer Needle Holder**
- Curved
- Extra fine jaws, 8 mm
  - Overall length 100 mm
- Titanium

8-024T with lock
8-025T w/out lock (shown)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Barraquer Needle Holders, Medium Size

Titanium Needle Holders with tungsten carbide covered tips for better gripping and with ergonomic round serrated handle

Barraquer Needle Holder
- Curved
- Standard jaws, 12 mm
  Overall length 115 mm
  Titanium

8-030T with lock
8-031T w/out lock (shown)

Barraquer Needle Holder
- Curved
- Fine jaws, 11 mm
  Overall length 115 mm
  Titanium

8-040T with lock
8-041T w/out lock (shown)

Barraquer Needle Holder
- Curved
- Extra fine jaws, 8 mm
  Overall length 115 mm
  Titanium

8-045T w/out lock

Barraquer Needle Holders, Long Size

Titanium Needle Holders with tungsten carbide covered tips for better gripping and with ergonomic round serrated handle

Barraquer Needle Holder
- Curved
- Extra fine jaws, 14 mm
  Overall length 125 mm
  Titanium

8-050T with lock
8-051T w/out lock (shown)

Barraquer Needle Holder
- Curved
- Standard jaws, 12 mm
  Overall length 125 mm
  Titanium

8-060T with lock
8-061T w/out lock (shown)

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Barraquer Needle Holders, Long Size
Titanium Needle Holders with tungsten carbide covered tips for better gripping and with ergonomic round serrated handle

Barraquer
Needle Holder
- Curved
- Fine jaws, 12 mm
  Overall length 125 mm
  Titanium
8-070T with lock
8-071T w/out lock (shown)

Kalt Needle Holders

Kalt
Needle Holder
- Straight
- Standard jaws, 12 mm
  Flat serrated locking handle
  Overall length 135 mm
  Titanium
8-080T

Castroviejo Needle Holders

Castroviejo
Needle Holder
- Straight
- Delicate jaws 13.5 mm
  Overall length 125 mm
  Titanium
8-0921T with lock

Castroviejo
Needle Holder
- Curved
- Delicate jaws
- Gripping surface 8 mm
  Overall length 135 mm
  Titanium
8-096T w/out lock

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Castroviejo Needle Holders

**Castroviejo**
Needle Holder
- Curved
- Standard jaws
- Gripping surface 11 mm
  Overall length 140 mm
Titanium
8-100T with lock

**Ing's Needle Holders / Scissors**

**Ing's**
Needle Holder / Scissors
- Combination of needle holder and scissors in one instrument
- Long size jaws 15 mm
- Round serrated handle
  Overall length 105 mm
Stainless Steel
8-102S

**Coaxial / Intraocular Needle Holders**

**Coaxial Needle Holder**
For IOL Suturing
- Designed for IOL scleral fixation with suture through a small incision
- Titanium handle with plunger mechanism
- Curved shaft
  To be used with straight and curved spatulated needles with length up to 18 mm (Polypropylene 10-0 or 9-0)
  Overall length 128 mm
8-120  19 Ga

**Intraocular Needle Holder**
- Designed for intraocular suturing and manipulations with the IOL
- Curved shaft
- With fixation wheel
- Compatible with Squeeze Handle 12-003T
8-1211-23* 23 Ga
* Handles are sold separately!
Probes and Dilators

**Bowman**
Lacrimal Probe
Overall length 133 mm
- 9-010S - size 0000 & 000
- 9-011S - size 00 & 0
- 9-012S - size 1 & 2
- 9-013S - size 3 & 4
- 9-014S - size 5 & 6
- 9-015S - size 7 & 8

**Quickert**
Lacrimal Intubation Probe
Overall length 140 mm
- 9-021S - size 0
- 9-023S - size 2
- 9-024S - size 3

**Pigtail**
Lacrimal Probe
- 8 mm pigtail curved probes with holes
- Round serrated handle
- Polished tip
- Overall length 145 mm
- 9-031

**Wilder**
Lacrimal Dilator
- Blunt polished tip
- Round knurled handle
- Overall length 100 mm
  - Titanium
- 9-050T - size 1 (19 mm)
- 9-051T - size 2 (23 mm)
- 9-052T - size 3 (32 mm)

**Castroviejo**
Double Ended Lacrimal Dilator
- Polished tip
- Round knurled handle
- Overall length 100 mm
  - Titanium
- 9-060T - size 1 & 2

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Iris Dilators

Iris Retractor
Reusable
1 pack of 6 pcs - 6 retractors in teflon container
10-5127

Iris Retractor
Disposable
10-5016-1 - 1 pack of 4 pcs
10-5016-5 - 5 packs of 4 pcs
10-5067-1 - 1 pack of 5 pcs
10-5067-6 - 6 packs of 5 pcs

Beehler
Pupil Dilator
– 17 Gauge
– Curved shaft
– Four prongs
  Overall length 130 mm
  Titanium
10-083

Beehler
Pupil Dilator With Plunger
– 17 Gauge
– Curved shaft
– Four prongs
  Overall length 130 mm
  Titanium
10-091

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Lacrimal Sac Retractors

**Stevenson**
- Curved 2 mm x 3 mm teeth
- Blades separated 25 mm
- Screw opening
- Overall length 83 mm

10-013

**Knapp**
Lacrimal Sac Retractor
- Blunt 4 mm x 8 mm four prong tip
- Round serrated handle
- Overall length 140 mm

10-014

Lid & Orbital Retractors

**Desmarres**
Lid Retractor
- Round serrated handle
- Overall length 130 mm

10-020 - size 0 11.0 mm
10-021 - size 1 13.0 mm (shown)
10-022 - size 2 15.0 mm
10-023 - size 3 17.0 mm

**Orbital Globe**
Retractor-Elevator
- Double ended 10 mm wide and 14 mm wide ends
- Thin ribbon retractor with a gentle “S” curve
- Overall length 180 mm
- Titanium

10-034T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Fixation Rings

**Fine-Thornton**

- **Phaco Fixation Ring**
  - 3/4 open ring with swivel
  - Overall length 90 mm
  - Titanium

16-036T 13 mm diameter ring with teeth
16-0341T 14 mm diameter ring with teeth (shown)

**Flieringa Rings**

- Sutured to the sclera to support the globe during difficult eye operations.
  - Stainless Steel

16-030-14 (14 mm)  16-030-19 (19 mm)
16-030-15 (15 mm)  16-030-20 (20 mm)
16-030-16 (16 mm)  16-030-21 (21 mm)
16-030-17 (17 mm)  16-030-22 (22 mm)
16-030-18 (18 mm)

Electric Eye Cautery

**Electric Eye Cautery**

- Battery operated
- Disposable
- Sterile
- 10 / Box

16-041 Fine tip
16-042 Elongated tip

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.*
Scleral Depressors

Schocket
Double Ended Scleral Depressor
- With pocket clip
Overall length 130 mm
16-111 Titanium Handle / Stainless Steel tips
16-111S Stainless Steel

Flynn
Scleral Depressor
- Loop style tip for depressing pediatric sclera
Overall length 90 mm
16-115

Foreign body spuds

Davis
Foreign Body Spud
- Round serrated handle
Overall length 130 mm
16-153

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
The incisions made by Femtosecond laser must be opened with a special blunt-ended instrument. The newly designed spatula for Femtosecond laser cataract is developed to open and spread the incision and to reach the anterior chamber.

**New!**

**SPATULA FOR FEMTOSECOND LASER CATARACT PROCEDURE.**

Spatula for Femtosecond Laser Procedure

- This delicate instrument is used for opening cataract incision created by femtosecond laser system
- Specially designed for Alcon LenSx® Laser
- Also compatible with incisions made by VICTUS™ Femtosecond Laser Platform (Bausch & Lomb) 1.4 mm length flat tip
- 1.4 mm length flat tip
  Overall Length 120 mm

20-204

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Lens loops

- **Wilder**
  - Lens Loop
  - 4 mm width
  - Overall length 134 mm
  - 16-072

Nucleus Crackers / Forceps

- **Ernest**
  - Nucleus Cracker
  - Cross action
  - Overall length 106 mm
  - Titanium
  - 7-025T

- **Kansas-Alfonso**
  - Nucleus Fragment Removing Forceps
  - Designed to remove fragments of the nucleus through a small incision.
  - Has two rows of delicate teeth on jaws
  - Flat fenestrated handle
  - Overall length 107 mm
  - Titanium
  - 7-0201T
Prechoppers

Cross-action Prechopper Forceps with an ergonomic round serrated squeeze-handle are made of high quality stainless steel.

**Prechopper**
- Angled
- Maximum opening - 2.8 mm
  Overall length 117 mm
  Stainless Steel

**7-111S**

**Combo**

Prechopper
- Straight
- Specially designed jaws to split soft and hard nuclei
- With sharp blades on the upper side of the tips and blunt on the other side
- Maximum opening - 2.8 mm
- Overall length 121 mm
  Stainless Steel

**7-1161S**

**Combo**

Prechopper
- for sub-2.0 mm Coaxial MicroPhaco
  - Straight
  - Specially designed to split nuclei through a small 2.00 mm incision
  - Maximum opening - 2.0 mm
  - Overall length 121 mm
    Stainless Steel

**7-1162S**

**Akahoshi Hybrid Combo**

Prechopper
- Straight
- Groove enables easy rotation of the nuclei during prechopping
- Maximum opening - 2.8 mm
- Overall length 121 mm
  Stainless Steel

**7-1163S**

**Inamura Eagle**

Prechopper
- Straight
- Narrow tip is easy to insert to the denser nucleus which enables division from soft to dense nucleus without the counter force
- Maximum opening - 2.8 mm
- Overall length 120 mm
  Stainless Steel

**7-1165S**

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Choppers

**Nagahara**
- Phaco Chopper
- Overall length 120 mm
- 7-063 RHD (shown)
- 7-064 LHD

**Nagahara Phaco Chopper and Drysdale Nucleus Manipulator**
- Overall length 133 mm
- 7-0631 Titanium handle (shown)
- 7-0631S Stainless Steel

**Rosen**
- Phaco Chopper Universal
- Overall length 120 mm
- 7-065

**Rosen**
- Phaco Splitter
  - 60 degree angled
  - Wedge shaped
  - Overall length 120 mm
- 7-066 RHD (shown)
- 7-067 LHD

**Phaco Cleaver**
- Overall length 120 mm
- 7-068 RHD
- 7-069 LHD

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Choppers

**Nucleus Claw Chopper**
- Overall length 120 mm
  - 7-072

**Intraocular Manipulator With Ball Tip**
- 0.5 mm diameter ball tip
  - Overall length 123 mm
  - 7-074 Straight
  - 7-075 Angled (shown)

**Small Pupil Snapper Hook & Phaco Chopper**
- Overall length 121 mm
  - 7-077

**Phaco Spatula**
- Small Pupil Snapper Hook & Micro Finger
  - Overall length 142 mm
  - 7-079

**Drysdale**
- Nucleus Manipulator & Capsule Polisher
  - For nucleus dividing and separating, iris and Overall length 121 mm
  - 7-093 Regular Tip
  - 7-0931 Capsule Polisher Tip

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Choppers

**Micro Finger**
- Chopper
- Overall length 120 mm
- 7-097

**Phaco Chopper**
- 45 degree angled, wedge shaped
- Rounded angled polished tip to separate the nucleus from cortical material
- Overall length 120 mm
- 7-1061 RHD
- 7-1071 LHD

**Phaconit**
- Quick Chopper
- Designed to quickly and easily chop all grades of nuclei
- Overall length 120 mm
- 7-125 - 0.75 mm tip
- 7-1251 - 0.5 mm tip

**Triple Edge Phaco Chopper with Polisher Tip**
- Overall length 117 mm
- 7-126 Titanium handle shown
- 7-126S Stainless steel

**Chang Chopper**
- Micro Finger & Quick Chopper
- Modified Micro Finger tip with interior edge to chop and divide soft nucleus
- Quick Chopper with sharp point to penetrate and split hard nucleus
- Overall length 125 mm
- 7-127 RHD, Titanium handle (shown)
- 7-127S RHD, Stainless steel
- 7-127L HHD, Titanium handle
- 7-127LS LHD, Stainless steel

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Choppers

**Quick Chopper With Rounded Edge**
Overall length 120 mm

[Image of Quick Chopper]

*7-128 RHD*  
*7-1281 LHD*

**Seibel Chopper**
- Chopper with ball-shaped tip for efficient capsule protection
  Overall length 122 mm

[Image of Seibel Chopper]

*7-130 RHD*

**Seibel Chopper & Quick Chopper**
- Ball-shaped tip for efficient capsule protection
- Quick safety chopper with rounded edge
  Overall length 138 mm

[Image of Seibel Chopper & Quick Chopper]

*7-1361 RHD*

**Axe Quick Chopper**
Overall length 120mm

[Image of Axe Quick Chopper]

*7-135*

Capsule polishers

**Anterior / Posterior**

**Capsule Polisher**
- 135 degree angled shaft
  Overall Length 130 mm

[Image of Capsule Polisher]

*7-101*

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Lesieur Hydrochopper, 20 Ga

This unique design provides a tip that is efficient for chopping as well as manipulating the nucleus without endangering the posterior capsule. Lesieur Hydrochopper is developed especially for Bimanual Microphaco.

- 20 Ga tip with Nagahara type chopper (for 1.0 incisions).
- The end opening port provides maximum irrigation
- The dual oval sideports 0.5 x 0.7 mm provide supplemental irrigation in case when the front opening is overfilled.
- Round Handle
- Overall length 105 mm

7-0634/I

Capsule polishing is an important step of phacoemulsification. Polishing the anterior capsule, removing posterior capsular plaque and other residual cortical debris help to achieve and maintain capsular clarity. At the same time the procedure of polishing must be performed with a safe and delicate instrument.

Capsule Polisher

- Designed to perform delicate polishing of the capsule
- Angled shaft
- "Iron"-shape tip
- Texturized tip for polishing all capsule parts
- Sharpened ridge at the top for efficient polishing the bottom side of the anterior capsule
- Overall length 120 mm.

7-142

Capsule Polisher

Microincisional Cannula, 23 Ga

- Designed for polishing all aspects of the capsular bag through a 4 sub – 2-mm incision
- Texturized tip for delicate and efficient capsule polishing
- Curved tube for better visualization
- 23 Ga x 25 mm

15-170
Irrigation / Aspiration Handpieces

Irrigation / Aspiration Handpiece for Coaxial Phaco
- Round handle
- Standard connectors
- Overall length 110 mm
- Titanium

7-080/IAH

Tips for Irrigation / Aspiration Handpiece

Stainless steel

Thornton 20° angled
7-080/20

Binkhorst
7-080/BC

Simcoe
7-080/SIM

45° angled
7-080/45

90 angled
7-080/90

Straight
7-080/ST

Irrigation Handpiece For Bimanual Technique
- Curved tube with smooth faced tip
- Round handle
- Titanium handle / Stainless steel tip
- Standard connector
- Overall length 104 mm

7-081 21 Ga
- 2x0.35 mm side ports

Most Popular

7-0813 21 Ga
- 2x0.5 mm side ports

7-081-23 23 Ga
- 2x0.35 mm side ports

Most Popular

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Irrigation / Aspiration Handpieces

**Aspiration Handpiece**

*For Bimanual Technique*

- Curved tube with smooth faced or texturized tip
- Round handle
- Titanium handle/Stainless steel tip
- Standard connector
- Overall length 104 mm

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**7-082 21 Ga Most Popular**

- 1x0.35 mm top port
- Smooth faced tip

**7-0821 22 Ga Most Popular**

- 1x0.35 mm top port
- Capsule polisher tip

**7-0821-23 23 Ga**

- 1x0.35 mm top port
- Capsule polisher tip

**7-0826 23 Ga**

- 1x0.3 mm top port
- Polished ball tip is safe and atraumatic for the capsular bag
- No need to enlarge the incision
- Smooth faced tip

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*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.*
Capsular Ring Injectors

**Injector**

For Capsular Ring With Irrigation
- Designed for one-hand implantation of the capsular tension rings with diameters of 10, 11 and 12 mm
- Allows to implant the capsular tension ring clockwise and counter-clockwise
- Back cover of the instrument can be easily opened to flush and clean the inner mechanism of the injector
Overall Length 162 mm

16-253

IOL Injectors / IOL Inserters

**IOL Injector for cartridges** – Most Popular

Plunger mechanism with reverse inner spring for easy and efficient one-handed technique implantation
- Specially designed handle enables firm grip and precise control
- With ring
- For A, B, C cartridges
Can be supplied with 4-2141 IOL Loading Forceps

16-2806 For A,B,C cartridges
16-2808 For D cartridge

**IOL Injector for D cartridge**

Plunger mechanism with reverse inner spring for easy and efficient one-handed technique implantation
- Specially designed handle enables firm grip and precise control
- Without ring
- For D cartridge
Can be supplied with 4-2141 IOL Loading Forceps

16-2807

Cartridge Loading Forceps

Designed for inserting Acrylic IOL into A, B, C, D cartridges
- To be used with 16-2806, 16-2807, 16-2808 Injectors
- Thin and smooth jaws
- Overall Length 109 mm
  - Titanium

4-2141T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**RUMEX** is the official distributor of Swiss company Medicel in all countries with the exception of the United Kingdom, Italy, Ireland and Brazil.

The main goal of which company - making eye surgery safer, simpler and more effective and keeping the incision as small as possible.

Over the last ten years, Medicel have significantly contributed to the development of microsurgical techniques. Particularly in the area of lens injection systems, Medicel has set new benchmarks. Today, more than 1 million lenses are injected per year with Medicel injection systems around the world.

**SAFETY, SIMPLICITY, RELIABILITY...**

The new ACCUJECTTM – system represents total reliability for safe and effective lens injections. The compact design with integrated cartridge of the fully single-use ACCUJECTTM system enables a simple, predictable loading and positioning of any lens. This allows the surgeon and O.R. personnel to load any lens in the same simple manner. The ACCUJECTTM system is designed for 1- and 3 piece lenses for incision sizes of sub 2.8 to sub 2.2 mm.

**MAXIMUM EFFICIENCY WITH MAXIMUM SAFETY**

The NAVIJECTTM system from Medicel represents yet another breakthrough for safe and effective micro-incision cataract surgery. Complications associated with the shortcomings of other lens injection systems are now a thing of the past. NAVIJECTTM simplifies the loading of the lens, enables smooth and efficient lens injection and ensures the critical process of lens injection safely.

**ADVANCED BUT ECONOMICAL**

The VISCOJECT-eco is a cost effective solution representing all features of the VISCOJECT system that has changed the world of Micro Incision Cataract Surgery (MICS). The VISCOJECTTM eco system includes the original VISCOJECTTM cartridges which are sterile packed in combination with the VISCOJECTTM eco injector. This low cost solution does not make any compromise on product safety and quality.

*Not available in the US*
PRK/LASIK Speculums
Specially designed to accommodate microkeratome suction ring

Lieberman Style for LASIK
- Temporal
- Rounded open blades
- Round branches
  Titanium
  Overall length 71 mm
14-040TL adult

Lieberman Style for LASIK
- Temporal
- Rounded open blades
- Flat branches
  Titanium
  Overall length 76 mm
14-0401TL adult

Lieberman Style for LASIK
- Nasal
- Rounded open blades
- Flat branches
  Titanium
  Overall length 70 mm
14-0411TL adult

PRK/LASIK Speculums with Aspiration

Lieberman Style for LASIK Most Popular
- Rounded open blades
14-080LA temporal
14-081LA nasal

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
LASIK Markers

Lavery LASIK
Marker
- 8.5 mm optical zone
- 5 asymmetrical marking lines to ensure right placement of a corneal flap
- With an optical centre sight
- Overall length 130 mm
- Titanium
- 3-174T

LASIK Flap
Marker
- 3 asymmetrical marking lines to ensure right placement of a corneal flap
- Designed both for nasal and superior hinge
- Overall length 130 mm
- Titanium
- 3-176T
LASIK Spatulas

**Paton**

Doble Ended Spatula and Spoon
- Spatula for manipulations with the cornea (LASIK/PRK/Corneal Transplantation)

13-110

**Hockey Knife**

For epitelium removal
- To remove epithelium for PRK procedure and during LASIK retreatment
  - Overall length 130 mm

20-001

**Lindstrom**

LASIK / PRK Spatula And Epithelium Removal Board
- Semi-sharp end of the instrument designed to remove epithelium
- Fine spatula on the other end is used for flap manipulation during LASIK surgery
  - Overall length 145 mm

20-002

**LASIK**

Spatula And Flap Retreatment Instrument
- Double ended
  - Overall length 145 mm

20-013

**LASIK Flap Forceps**

Specially designed for LASIK. For atraumatic corneal flap lifting and holding.
- Blunt, circle-shaped
- Criss-cross serrated jaws
- Curved jaws
  - Overall length 108 mm
  - Titanium

4-2206T
**LASIK Cannulas**

**Vidaurri**
LASIK Double Cannula
8 irrigating ports
Universal cannula simultaneously irrigates both sides of flap.
Washes at Stromal bed and enables flap positioning
Design permits sideways entry into the flap without dragging epithelium into the interface

- 15-371-25 25Ga /16Ga x 12mm shaft

**Banaji**
LASIK Irrigation Cannula
4 Ports 0.25 mm on periphery
Curved

- 15-373-25 25Ga
- 15-373-27 27Ga

**Slade**
LASIK Cannula
Flattened spatulated tip, end opening

- 15-376 26Ga

**Gimbel**
LASIK Fountain Cannula
Single port

- 15-378R 25Ga x 25.4mm, Right
- 15-378L 25Ga x 25.4mm, Left

**Buratto**
LASIK Irrigation Cannula
45° angled triport
The tip is a smooth closed end design slightly tapered to allow insertion under the flap.
10 mm curved angle to conform to the corneal shape

- 15-379-25 25Ga

*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied*
LASEK Instruments

LASEK Trephine
For epithelial flap creation
- Depth of the incision 70 μm
- Overall length 120 mm

20-1011  8.0mm
20-1021  9.0mm

LASEK Funnel
For the application of the alcohol solution
- For 8 mm and 9 mm optical zones
- Overall length 120 mm

20-1031T  8.5mm
20-1041T  9.5mm

LASEK Trephine & Funnel
For epithelial flap creation
- Depth of the incision 70 μm
- For the application of the alcohol solution
- For 8 mm and 9 mm optical zones
- Overall length 130 mm

20-121  8.0 & 8.5 mm
20-122  9.0 & 9.5 mm

LASEK Detaching Spatula
- Can be used to detach edge of the epithelium flap
- Overall length 130 mm

20-130

LASEK Epithelial Micro Hoe
- Can be used to detach and lift edge of the epithelium flap
- Overall length 130 mm

20-131

LASEK Knife
- The sharp anterior part of the knife is used to detach epithelium from the incision
- The blunt part of the knife is for repositioning of the epithelium after the ablation

20-0011

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied
FemtoLASIK Instruments

**FemtoLASIK**

Flap Spatula, Double Ended
- Double ended instrument with a delicate pick and a curved spatula to open and manipulate the flap
- Overall length 130 mm

**20-201**

**FemtoLASIK**

Flap Spatula
- Delicate spatula with a jag on the tip to detach the flap edge and to open the flap
- Overall length 130 mm

**20-202**

**Zaldivar**

FemtoLASIK Spatula
- Extra delicate spatula with bullet shaped tip to open and manipulate the flap
- Overall length 130 mm

**20-203**

Accessories

**Marking Pen**

Double-ended
- Disposable, 10 pcs per box

**20-050**
LRI Instruments

Featured random instruments for LRI procedure. For more instruments please check the relevant section (Calipers, Gauges, Markers, Forceps, etc.) of the Catalog.

Mendez

Degree Gauge

Used to determine incision angles
Can be used with 3-090T Bores Axis Marker
- Calibrated every 10 degrees from 0° to 180°
- With 4 grooves for better marks visualization
- Internal diameter 13 mm/external diameter 16.5 mm
  Overall length 122 mm
  Titanium

2-0331T

Bores

Axis Marker
Used with Mendez 2-034T to mark the axis.
- Intra-Op
  Overall length 130 mm
  Titanium

3-090T

LRI Marker
- Intra-Op
- Automatically creates marks at 40-60-80 degrees
  Overall length 130 mm

3-1801

Universal Three-Step Knife

For Cataract and LRI Surgery
Three steps: 0.50 mm, 0.55 mm and 0.60 mm for LRI and AK Surgery
Full extension for Side Port or Phaco Incision
Single footplate for better visualization
20° Trifacet Blade
0.20 – 1.00 mm width
Overall length – 130mm

6-322/6-0531
Toric IOL Implantation Instruments

Featured random instruments for toric IOL implantation procedure. For more instruments please check the relevant section (Calipers, Gauges, Markers, Forceps, etc.) of the Catalog.

**Mendez**

Grooved Fine Mendez Degree
Used to determine incision angles
Can be used with 3-091T Bores Axis Marker
- Calibrated every 5 degrees from 0° to 180°
- With 4 grooves for better marks visualization
- Internal diameter 12 mm/external diameter 14 mm
- Dull finish
  - Overall length 120 mm
  - Titanium

2-034T

**Bores**

Axis Marker
Used with Mendez 2-034T to mark the axis.
- Intra-Op
  - Overall length 130 mm
  - Titanium

3-091T

**Whitehouse**

Gravity Axis Marker
- Pre-Op
- Marks the limbus at 3, 6 and 9 o’clock
- Helps to avoid the effect of cyclotortion
- Gravity weight system assures excellent visualization and balance
- Internal diameter 11 mm/external diameter 14 mm
- Overall length 155 mm

3-193  Angled shaft
3-1931  Straight shaft

**Rumex Toric Combo**

Marker
- Pre-Op marker to mark the axes while the patient is in sitting position
- Marks both horizontal and toric axes pre-operatively, which eliminates an Intra-Op step
- Provided with rotating ring for accurate alignment.
- Reduces cyclotorsion effect in supine position
- Overall length 125 mm

3-194  Vertical axis
3-1941  Horizontal axis
Velasquez
Corneal Marker for LRI/Toric IOL implantation
- 4 radial blades mark the horizontal and vertical meridians of the visual axis
- The internal marks help to check the IOL alignment in the end of surgery
- The central 5 mm ring serves as a guide for capsulorrhexis
- The outer ring protects blades from damage
- Angled shaft helps to avoid touching the lower eyelid

3-195 Angled shaft

Microincisional Capsule Polisher
- Curved tube for better visualization
- Texturized tip for delicate and efficient capsule polishing
- Specially designed for scrubbing all parts of the capsular bag
- Obtains performing a procedure through a sub-2-mm incision
- Stainless Steel

15-170 23Ga x 25mm

Phakic IOL Implantation Instruments

ICL™
Cartridge Loading Forceps
- Designed to remove the ICL from the container and push it inside the cartridge
- Angled 30 degree long jaws
- Round handle
- Overall length 120 mm
- Titanium or stainless steel

4-20111T
4-20111S

ICL™ Loading Forceps
Coaxial Angled Forceps
- Straight 20 Gauge shaft
- Non rotatable
- Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening
- Compatible with Squeeze Handle 12-003T

4-21431* 20 Ga

* Handles are sold separately!
ICSR (Intrastromal Corneal Ring Segments) Implantation Instruments

Pallikaris

ICL™ Manipulator
- Designed to place the lens corners under the iris
- Sandblasted tip
- Overall length 120 mm

13-141

Zaldivar

ICL™ Manipulator
- Double ended instrument with slight forked tips to place the lens corners under the iris
- Overall length 130 mm

13-142

ICL™ — registered trademark of STAAR®

Optical Zone Marker

Used to mark visual center for ICSR implantation procedure
- Double ended
- Visual center marker 0.15mm width
- Sinskey hook 0.5mm width
- Titanium Handle/Stainless Steel Tips

3-034

Tunnel Zone Marker

Marking tunnel for future ring position with initial lines for incisions
- Internal diameter 4.0 mm/ external diameter 6.0 mm
- Creates 2.0 mm lines
- 40 degree angled to handle
- Titanium

3-143T

Nevyas-Wallace

Fixation Forceps
Two point fixation
- 13.0 mm between the ends
- 1x2 teeth, 0.12 mm
- Straight shafts
- Round handle
- Overall length 105mm
- Titanium

4-08011T
Forceps for ICRS Implantation
- 0.2mm 1x1 teeth
- 0.3mm groove
  Overall length 85mm
  Titanium
4-2144T

Elevator for ICSR Implantation
Creates a small notch in intended direction of the tunnel
- 0.1 mm height, 0.2 mm width, 0.7 mm length
- Straight shaft
10-035

Suarez Spreader
For widening the notches in both directions in a proper depth
- 0.1 mm height, 0.6 mm width, 1.25 mm length
- Straight shaft
13-146

Bicalto Guide
For lifting the cornea prior to the Tunnel Maker insertion
- Blunt tip
- 0.3 mm height, 0.1 mm width, 5 mm length
- Angled shaft
13-147

Tunnel Maker
- Internal diameter 4.4mm
- External diameter 5.6mm
  Stainless Steel
16-173S Left
16-174S Right
Corneal Trephine Blades

- Corneal Trephine Blades
  - Stainless Steel
  - 16-0300 6.0 mm
  - 16-0301 6.5 mm
  - 16-0303 7.0 mm
  - 16-0305 7.5 mm
  - 16-0306 7.75 mm
  - 16-0308 8.0 mm
  - 16-0309 8.25 mm
  - 16-0310 8.5 mm
  - 16-0311 9.0 mm
  - 16-0311 9.5 mm

DSEK, DSAEK, DMEK Instruments

- Corneal Donor Insertion Forceps
  - Designed for atraumatic insertion of the donor lamella folded in a taco shape
  - 30 degrees angled, 18 mm tip
  - Round Handle
  - Overall Length 125 mm
  - Titanium
  - 4-2019T

- Forceps for Corneal Endothelium Implantation
  - For inserting the donor button with the pull-through technique
  - Security of cornea stromal layer
  - Compatible with Squeeze Handle (12-003T)
  - 4-034*

- Spatula-Guide
  - For corneal endothelium implantation
  - Overall length 122 mm
  - 13-150T

- Reverse Sinskey Hook
  - For scoring the recipient bed and for placing the donor lamella
  - Angled
  - 10 mm from bend to tip
  - Overall length 116 mm
  - 5-0322

* Handles are sold separately!
DSEK, DSAEK, DMEK Instruments

**Corneal Dissector**
- For intrastromal dissection
  - Overall length 125/127 mm
13-137 Straight
13-138 Curved

**Endothelial Stripper**
- Irrigating
- For Descemet's stripping
  - Overall length 104 mm
13-139/I

**Cindy**
Sweeper DSEK Spatula
- 0.7 mm diameter
- 12 mm from bend to tip
- Angled shaft
  - Overall Length 114 mm
  - Stainless steel
13-151S

**Carlson**
DSEK Smoother
- 2.5mm blunt ball
- 7.5mm from bend to tip
- Angled / vaulted shaft
  - Overall length 115 mm
  - Stainless steel
13-152S

**Terry**
DSEK Scraper
- Hole-shaped scraper facing upward
- 11 mm from bend to tip
- Angled shaft
  - Overall length 114 mm
  - Stainless steel
13-153S
DSEK, DSAEK, DMEK Instruments

Melles Style 1
DSAEK PLK Scraper
- 45 Degree angled tip
- 45 Degree angled shaft
- 11 mm from bend to tip
- Round knurled handle
  Overall length 125 mm
  Titanium
13-154T

Melles Style 2
DSAEK PLK Scraper
- 90 Degree angled tip
- 45 Degree angled shaft
- 11 mm from bend to tip
- Round knurled handle
  Overall length 125 mm
  Titanium
13-155T

DALK Instruments

DALK Corneal Transplant Scissors
- Blades with blunt edge (Descemet's membrane protection)
- Used to perform the superficial keratectasia (removal of superficial layers of corneal stroma).
- Used to remove the 4 parts of separated stromal layers after the "Big Bubble" procedure.
  Stainless Steel
  Overall length 108 mm
11-038S right (shown)
11-0381S left

Trisector for DALK Procedure
- Flat 1.4 x 0.7 mm tip designed to finish any dissection during "Big Bubble" technique
- The anterior surface has an edge that facilitates the enlarging of stromal opening with a blade
- Facilitates separation the rest of stromal attachments from the Descemet's membrane at the periphery
- Blunt bottom surface is safe for Descemet's membrane
- Overall length 124 mm
13-170
DALK Instruments

Spatula for DALK Procedure
- Flat 1 x 8mm tip is designed to complete any unfinished dissection during «Big Bubble» technique
- The center groove can be used as a guide for the blade facilitating the enlarging of stromal opening.
- Blunt bottom surface is safe for Descemet’s membrane
  Overall length 122 mm

Dissector for DALK Procedure
- This instrument is used at the beginning of “Big Bubble” procedure for creating a track in deep stroma for the further Cannula 15-450-27 inserting.
- 12mm length blunt beveled tip
  Overall length 122 mm

Cannula for DALK Procedure
- 0.2 mm port at the bottom
- 27 Gauge
- Designed for air injection in order to achieve ideal “Big Bubble”
  Stainless steel

DLEK Instruments

DLEK Corneal Transplant Scissors
- Long blades
- For the removal of the posterior corneal layers
  Overall length 102/110 mm
  Stainless Steel

  11-036S medium curve
  11-0361S strong curve

Manipulator for DLEK procedure
- Designed to tuck the edges of the donor lamella
- 0.15 mm diameter tip
- Round handle
- Z-hook with Blunt Tip
  Overall Length 120 mm
**Glaucoma Instruments**

**Harms**
- **Trabeculotome**
  - 9 mm long pointed tips with 3 mm spread
  - Overall length 46 mm
- 16-012S left (shown)
- 16-013S right

**Rumex**
- **Corneoscleral Punch**
  - Set of stainless steel tips:
    - 0.50 mm
    - 0.75 mm
    - 1.00 mm
    - 1.50 mm
  - Titanium handle
  - Overall length 110 mm
- 16-010

**Kelly**
- **Descemet’s Membrane Punch**
  - Creates precise 0.75 mm round hole without tissue tags
  - Stainless steel tip
  - Serrated squeeze action handle
  - Titanium handle
  - Overall length 131 mm
- 16-011

**Micro**
- **Trabeculectomy Punch**
  - 0.6 mm diameter head
  - Bullet-shaped tip
  - 0.3 mm x 0.6 mm deep bite
  - Compatible with Squeeze Handle (12-003T)
- 16-0111

*Handles are sold separately!
Rust Ring Removal

Alger Brush
Rust Ring Remover
- A complete set of a power handle and
  1 tungsten burr
- Battery operated
  Overall length 105 mm
16-140 with 1.0 mm tungsten burr
16-141 with 0.5 mm tungsten burr

Tungsten Burrs
Replacement Burrs for Alger Brush
- Box of 5
  Overall length 22 mm
  Tungsten
16-142B 1.0mm burrs
16-143B 0.5mm burrs

Pterygium Instruments

Alger Brush
Pterygium Instrument
- A complete set of a power handle and
  1 diamond dusted burr
- For smoothing the surface of the cornea after
  the surgical removal of the tissue
- Battery operated power handle
16-051-2.5 with 2.5 mm round fine diamond
dusted burr
16-060-3.5 with 3.5 mm round medium diamond
dusted burr
16-060-5.0 with 5 mm disk shaped diamond burr

Diamond Burr
Replacement burrs with chucks for Alger Brush
Pterygium power handle
- 1 piece
  Diamond Dusted
16-051-2.5B - round 2.5 mm diameter
16-051-3.5B - round 3.5 mm diameter
16-062-5.0B - disk shaped 5.0 mm diameter
Lacrimal Probes

**Bowman**
Lacrimal Probe
Overall length 133 mm
9-010S - size 0000 & 000
9-011S - size 00 & 0
9-012S - size 1 & 2
9-013S - size 3 & 4
9-014S - size 5 & 6
9-015S - size 7 & 8

**Quickert**
Lacrimal Intubation Probe
Overall length 140 mm
9-021S - size 0
9-023S - size 2
9-024S - size 3

**Pigtail**
Lacrimal Probe
- 8 mm pigtail curved probes with holes
- Round serrated handle
- Polished tip
  Overall length 145 mm
9-031

Lacrimal Dilators

**Wilder**
Lacrimal Dilator
- Blunt polished tip
- Round knurled handle
  Overall length 100 mm
  Titanium
9-050T - size 1 (19 mm)
9-051T - size 2 (23 mm)
9-052T - size 3 (32 mm)

**Castroviejo**
Double Ended Lacrimal Dilator
- Polished tip
- Round knurled handle
  Overall length 100 mm
  Titanium
9-060T - size 1 & 2
Lacrimal Sac Retractors

Stevenson
Lacrimal Sac Retractor
– Curved 2 mm x 3 mm teeth
– Blades separated 25 mm
– Screw opening
  Overall length 83 mm
10-013

Knapp
Lacrimal Sac Retractor
– Blunt 4 mm x 8 mm four prong tip
– Round serrated handle
  Overall length 140 mm
10-014

Nasal Speculums

Nasal Speculum
– Polished finish
  Stainless steel
16-127  Adult Size

Mallets

Surgical Mallet
– Polished finish
  Stainless steel
16-135

Rongeurs

Kerrison
Rongeur
– 3 mm wide
– 9 mm opening
– Polished finish
  Stainless steel
16-136 size 0

Belz
Lacrimal Sac Rongeur
– Polished finish
  Stainless steel
16-138
Lid Retractors, Plates, Clamps.

Desmarres
Lid Retractor
- Round serrated handle
  Overall length 130 mm
10-020 - size 0 11.0 mm
10-021 - size 1 13.0 mm (shown)
10-022 - size 2 15.0 mm
10-023 - size 3 17.0 mm

Lid Plate
- 20 mm and 24 mm wide
- Nonreflective surface
  Overall length 110 mm
  Stainless steel or titanium
16-50S (shown)
16-50T

Putterman
Lid Clamp
- 6 Pins
- Serrated jaws
- Sliding lock
  Overall length 100 mm
  Titanium
4-140T

Compressing Lid Forceps
- Physical expression of dysfunctional meibomian glands has the goal of removing gland obstruction
- This instrument obtains quick and delicate meibum expression by equal compressing of the eyelid from the internal and the external sides.
  Overall length 112 mm
  Titanium
4-1913T

Lid And Chalazion Forceps
Lid And Chalazion Forceps

Desmarres
Chalazion Forceps
- Solid lower plate, open upper plate
- Locking thumb screw mechanism
  Overall length 96/90/92 mm
  Titanium
4-1906T Large Size 31x20mm
4-1907T Small Size 20x13mm
4-1912T Medium Size 24x16mm

Lambert
Chalazion Forceps
- Round solid lower plate, open upper plate
- Locking thumb screw mechanism
  Overall length 92/97 mm
  Titanium
4-1908T small (8 mm ID of the upper plate)
4-1909T medium (12 mm ID of the upper plate (shown))

Chalazion Curettes

Meyerhoefer
Chalazion Curette
16-063 size 0 (1.50 mm)
16-064 size 1 (1.75 mm)
16-065 size 2 (2.00 mm)
16-066 size 3 (2.50 mm)
16-067 size 4 (3.50 mm)
Muscle Forceps

Jameson
Muscle Forceps
- 11 mm from tip to angle
- 6 teeth
- Slide lock
  Overall length 100 mm
Stainless Steel
4-130S Left
4-131S Right

Osher
Superior Rectus Forceps
- Curved with 1x2 teeth, 0.5 mm
- Angled shafts
- 10 mm from tip to angle
  Overall length 107 mm
Stainless Steel
4-136S

Muscle Hooks

Jameson
Muscle Hook
- Flat hook
- Bulbous tip
  Overall length 135 mm
5-040 Standard (2 mm tip, 9.5 mm hook)
5-0401 Small (1.5 mm tip, 8 mm hook)

Graefe
Muscle Hook
- Flat hook
  Overall length 140 mm
5-041 Size 1 (1 mm tip, 8 mm hook)
5-042 Size 2 (1.5 mm tip, 10 mm hook)

Scobee
Oblique Muscle Hook
- Curved shaft
- 4.5 mm flat hook
  Overall length 140 mm
5-061
Muscle Hooks

Stevens
Tenotomy Hook
- 6 mm curved hook
- Overall length 120 mm
5-062

Enucleation / Evisceration Instruments

Orbital Globe
Retractor-Elevator
- Double ended 10 mm wide and 14 mm wide ends
- Thin ribbon retractor with a gentle “S” curve
  - Overall length 180 mm
  - Titanium
10-034T

Wells
Enucleation Spoon
- Round knurled handle
- Overall length 130 mm
16-060

Bunge
Evisceration Spoon
- Round knurled handle
- Overall length 130 mm
16-061 small size
16-062 large size
Vitreoretinal Instruments
You are welcome to choose among various models of vitreoretinal tips that can be adjusted to Universal Handles (12-001T or 12-003T)*

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Outer Diameter</th>
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<tr>
<td></td>
<td>(inch)</td>
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<tr>
<td>19g</td>
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<td>20g</td>
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<td>24g</td>
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<td>30g</td>
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Color Code System*
To make identification of vitreoretinal instruments easier and faster we have introduced a gauge color code system that will help you recognize the function of a tip and its size.

FUNCTION

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>Scissors</td>
<td>PINK</td>
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<tr>
<td>Forceps</td>
<td>GREEN</td>
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GAUGE

<table>
<thead>
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<th>Color</th>
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<tr>
<td>20</td>
<td>PINK</td>
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<tr>
<td>23</td>
<td>GREEN</td>
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<tr>
<td>25</td>
<td>BLUE</td>
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<tr>
<td>27</td>
<td>YELLOW</td>
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COMPATIBILITY (adjustable to handles)

<table>
<thead>
<tr>
<th>COMPATIBILITY</th>
<th>Color</th>
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<tbody>
<tr>
<td>12-001T</td>
<td>PINK</td>
</tr>
<tr>
<td>12-001T / 12-003T</td>
<td>BLUE</td>
</tr>
</tbody>
</table>

* Colors of details may differ slightly from those displayed in this catalog.

Manual Cleaning
Proper manual cleaning of the instrument is necessary to preserve its working condition. Rumex manufactures interchangeable microincisional and vitreoretinal instruments to help you clean the tips separately from the handle to expand its useful lifespan and prevent inflammation after the surgery.

Flushing Adapter
Provided with each tip free of charge!

12-000T

* Handles are sold separately!
Handles for Vitreoretinal Instruments

Rumex International Co is pleased to provide you with two models of Universal Handles that can be used with interchangeable tips*

- Made of titanium
- Corrosion resistant
- Can be used with tips of any gauge 20/23/25/27 (and other gauges)

**Ergonomic Model**
Two Fingers Control
Squeeze Handle
12-003T

- Safe and easy adjustable mechanism
- Two fingers linear actuation
- Optimal diameter round handle allows 360° rotation
- Non compatible with the following tips: 12-206, 12-313, 12-321, 12-321-23, 12-335

**Classic Model**
One Finger Control
Handle
12-001T

- One finger linear actuation
- Classic design approved by decades of work
- Compatible with all models of tips
- Adjustable screw mechanism (to customize the opening of branches before manipulation)

* Tips are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
VITREORETINAL SCISSORS

Standard Scissors*

- Designed for cutting membranes and junction zones of the proliferative tissue

![Standard Scissors Image]

**Vertical Scissors**
- 70 Degrees
- Sharp tips
- 12-202
- 12-202-23

**Horizontal Scissors**
- 55 Degrees
- 12-206

**Klaus Lucke Retinotomy Scissors**
- With bulbous tip
- 12-2020

**Vertical Scissors**
- 45 Degrees
- 12-2029

**Horizontal Scissors**
- Angled 45 Degrees
- Regular blades 2.2 mm in the closed position
- 12-208

**Straight Scissors**
- Blunt tips
- 12-211

**Horizontal Scissors**
- Angled 45 Degrees
- Short blades 1.7 mm in the closed position
- 12-2085

**Curved Subretinal Scissors**
- Curvature radius 12 mm
- 12-209
- 12-209-23
- 12-2099

**Illuminated Scissors***

**Horizontal Scissors**
- Angled 45 Degrees
- With Illumination
- 12-2084

**Side Curved Scissors**
- 12-215

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Epiretinal Forceps*
- Strong jaws for epiretinal membranes
- Gripping function is enhanced by diamonized/serrated platform or «nails»

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Internal Limiting Membrane Forceps*
- Delicate branches for ILM peeling

**Eckardt End Gripping Forceps**
- 12-410  20 Ga
- 12-410-23 23 Ga
- 12-410-25 25 Ga
- 12-410-27 27 Ga

**End Grasping Forceps**
- Standard branches, 28 mm tube (23 Ga)
  - 12-420-23 23 Ga
  - 12-420-25 25 Ga
  - 12-420-27 27 Ga

- Elongated branches, 30 mm tube
  - Designed for myopic eyes
  - 12-4202-23 23 Ga

**Tano Asymmetrical End Gripping Forceps**
- 12-411 20 Ga
- 12-411-23 23 Ga
- 12-411-25 25 Ga

**Tanaka Maculorhexis Forceps**
- 12-414 23 Ga

**Kawai ILM Forceps**
- 12-415 25 Ga

* Handles are sold separately: 12-003T and 12-001T

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Pick/Subretinal Forceps*

**Pick Forceps**
- 12-325  20 Ga
- 12-325-23  23 Ga
- 12-3259  25 Ga

**Diamonized Angled Gripping Forceps**
- 12-303  20 Ga

**De Juan Pick Forceps**
- 12-413  20 Ga

**Subretinal Forceps**
- 3 mm tips
- 12-343  20 Ga

Foreign Body Removal Forceps

**Avci Foreign Body Forceps**
- 12-412  17 Ga

**Spring Gripping Forceps**
- 12-321  20 Ga
- 12-321-23  23 Ga

**Vitreoretinal Forceps**
- With cup jaws
- 12-313  20 Ga

**Stolyarenko Forceps**
- For large foreign bodies
- 12-335  20 Ga

* Handles are sold separately: 12-003T and 12-001T

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<table>
<thead>
<tr>
<th>Instrument</th>
<th>Code</th>
<th>Gauge</th>
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<tbody>
<tr>
<td>Delicate Membrane Pick</td>
<td>13-097-23</td>
<td>23 Ga</td>
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<td>25 Ga</td>
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<td></td>
<td>13-097-27</td>
<td>27 Ga</td>
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<tr>
<td>Membrane Scratcher</td>
<td>13-092</td>
<td>20 Ga</td>
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<td>Ogura PVD Spatula</td>
<td>13-1081-23</td>
<td>23 Ga</td>
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<tr>
<td>BRVO Knife</td>
<td>13-1091</td>
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<td>13-1091-23</td>
<td>23 Ga</td>
</tr>
</tbody>
</table>

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23 Gauge*

**Vertical Scissors**  
70 Degrees  
Sharp tips  
12-202-23 23 Ga

**Pick Forceps**  
12-325-23 23 Ga

**Curved Subretinal Scissors**  
Curvature radius 12 mm  
12-209-23 23 Ga

**End Gripping Forceps**  
With extended gripping area at the end of the tip  
12-4012 23 Ga

**Diamonized Gripping Forceps**  
12-301-23 23 Ga

**«Nail» End Gripping Forceps**  
12-402-23 23 Ga

**«Crocodile» Gripping Forceps**  
12-304-23 23 Ga

**Eckardt End Gripping Forceps**  
12-410-23 23 Ga

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
SETS OF REUSABLE INSTRUMENTS

23 Gauge*

Tano Asymmetrical End Gripping Forceps
12-411-23 23 Ga

End Grasping Forceps
Expanded Space between Branches
12-4013 23 Ga
Enhanced visualization!

End Grasping Forceps
12-420-23 23 Ga
Enhanced visualization!

Spring Gripping Forceps
12-321-23 23 Ga

End Grasping Forceps
Elongated branches, 30 mm
Designed for myopic eyes
12-4202-23 23 Ga
Enhanced visualization!

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
25 Gauge*

- **Vertical Scissors**
  - 45 Degrees
  - Sharp tips
  - 12-2029 25 Ga

- **Curved Subretinal Scissors**
  - Curvature radius 12 mm
  - 12-2099 25 Ga

- **Diamonized Gripping Forceps**
  - 12-3019 25 Ga

- **«Nail» End Gripping Forceps**
  - 12-4089 25 Ga

- **Eckardt End Gripping Forceps**
  - 12-410-25 25 Ga

- **Tano Asymmetrical End Gripping Forceps**
  - 12-411-25 25 Ga

- **«Crocodile» Gripping Forceps**
  - 12-304-25 25 Ga

- **End Grasping Forceps**
  - 12-420-25 25 Ga

- **Pick Forceps**
  - 12-3259 25 Ga

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
27 Gauge*

Eckardt End Gripping Forceps
12-410-27  27 Ga

End Grasping Forceps
12-420-27  27 Ga
Enhanced visualization!

Universal Handle + Interchangeable Tips (non-rotatable)*

Eckardt End Gripping Forceps
J-410  20 Ga
J-410-23  23 Ga

Fine End Gripping Forceps
J-4089  25 Ga

Tano Asymmetrical End Gripping Forceps
J-411-23  23 Ga
J-411-25  25 Ga

Curved Subretinal Scissors
Curvature radius 12 mm
J-209-23  23 Ga
J-2099  25 Ga

* Handles are sold separately: 12-003T and 12-001T

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Reusable Two Step Trocar Systems

Two Step
Reusable Trocar System with closure plugs

Package includes:
1. Trocar Cannula – 3 pcs
2. Trocar Cannula Plug – 3 pcs
3. Loading Forceps – 1 pc
4. Fixation Plate – 1 pc
5. Blunt Cannula Inserter – 3 pcs
6. Universal Infusion Line – 1 pc
7. Sterilizing Tray - 1 pc (not shown)
12-5173 23 Ga

Two Step
Reusable Trocar System with closure valves

Package includes:
1. Trocar Cannula with closure valves – 3 pcs
2. Loading Forceps – 1 pc
3. Fixation Plate – 1 pc
4. Blunt Cannula Inserter – 3 pcs
5. Universal Infusion Line – 1 pc
6. Sterilizing Tray - 1 pc (not shown)
12-5173-1 23 Ga

Accessory

Loading Forceps
12-5186

Fixation Plate
12-5188

Instrument Cannula Inserter
12-5187

Universal Infusion Line
Sterile
5 per box
12-5202

The best choice for the 23 Ga transconjunctival sutureless vitrectomy!
Trocar Cannula Set

The set includes:
- Instrument Cannula – 2 ea
- Cannula Plugs – 2 ea
- Sterile

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Box Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5189</td>
<td>23 Ga</td>
<td>1 set</td>
</tr>
<tr>
<td>12-5190</td>
<td>23 Ga</td>
<td>5 sets</td>
</tr>
</tbody>
</table>

Closure Valves

For Trocar Cannulas

The set includes:
- Closure Valves – 4 ea
- Sterile, 1 set per box

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Box Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5209</td>
<td>23 Ga</td>
<td>1 set</td>
</tr>
</tbody>
</table>

Angled MVR Blade

Sterile, 6 per box

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Box Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5184</td>
<td>23 Ga</td>
<td>6</td>
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</table>

Scleral plugs

Ergonomically designed holder

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Box Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5085</td>
<td>19 Ga - 4 ea, 20 Ga - 4 ea</td>
<td>5 holders</td>
</tr>
<tr>
<td>12-5078</td>
<td>19 Ga - 2 ea, 20 Ga - 2 ea</td>
<td>5 holders</td>
</tr>
</tbody>
</table>

Scleral Plugs Forceps

Cross action mechanism reduces hand fatigue

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Box Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5086S</td>
<td>20 Ga</td>
<td>1</td>
</tr>
</tbody>
</table>

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Disposable Trocar Systems

One Step Trocar System

Each package includes:
1. Trocar knife with preloaded trocar cannula – 3 ea
2. Self-sealing trocar cannula (preloaded) – 3 ea
3. Infusion line (for BSS) – 1 ea

Sterile, 5 sets per box

Trocar Knife
preloaded cannulas

Self-Sealing Trocar Cannula
self-sealing silicone valves eliminating need for plugs

Trocar Cannula Inserter
the proximal end of the plastic handle (opposite to the knife) can be used as a caliper and a scleral marker (two dimensions, 3.0 and 4.0 mm)

Universal Infusion Line
universal infusion line for BSS

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Reversible / Anterior

12-5050

Alcon®: Legacy™, STTO™, STTM™, Universal™
AMO®: Sovereign™, Signature™,
AMO Plus™, Prestige™
Staar Surgical®: Wave™
Surgical Design®: Ocusystem™
American Optisurgical®: Horizon™
Nidek®: CV-12000™, CV-6000™, CV-7000™

800 CPM  20 PSI  20 Ga  With Irrigation Sleeve

12-5070

Alcon®: Legacy™, STTO™, STTM™, Universal™
AMO®: Sovereign™, Signature™,
AMO Plus™, Prestige™
Staar Surgical®: Wave™
Surgical Design®: Ocusystem™
American Optisurgical®: Horizon™
Nidek®: CV-12000™, CV-6000™, CV-7000™

800 CPM  20 PSI  20 Ga  Without Irrigation Sleeve

12-5102

AMO®: Gemini™
B&L®: Stellaris™, Millennium™, Premiere™, Prestige™
Optikon®: Pulsar 2™, Assistant™
Croma Pharma®/Corneal®: Open Phaco™
Carl Zeiss Meditec®/IOL Tech®/Fritz Ruck®: Pentasy™
Carl Zeiss®: Visalis 100™
Medical Technical Products™
Mediphacos™
Nidek®: CV-24000™

800 CPM  25 PSI  20 Ga  Without Irrigation Sleeve

12-5119

AMO®: Gemini™
B&L®: Stellaris™, Millennium™, Premiere™, Protége™
Optikon®: Pulsar 2™, Assistant™
Croma Pharma®/Corneal®: Open Phaco™
Carl Zeiss Meditec®/IOL Tech®/Fritz Ruck®: Pentasy™
Carl Zeiss®: Visalis 100™
Medical Technical Products™
Mediphacos™
Nidek®: CV-24000™

800 CPM  25 PSI  20 Ga  With Irrigation Sleeve

12-5143

Alcon®: Accurus™,
Infini™ – Anterior Vitrectomy Pack
DORC®: Harmony Total TTC™

800 CPM  25 PSI  20 Ga  Without Irrigation Sleeve
Packaged with 21 Ga Irrigation Cannula

 Sterile
One per package

*™ All trademarks are property of their respective owners

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
# Vitrectomy Cutters

## Reusable / Posterior

![Image of vitrectomy cutter](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5026</td>
<td>Alcon: STTO™, Ocutome 800/8000™, Nidek: CV-12000™</td>
<td>800 CPM, 20 PSI, 20 Ga, Without Irrigation Sleeve</td>
</tr>
<tr>
<td>12-5065</td>
<td>Alcon: Accurus™, DORC: Harmony Total TTC™</td>
<td>800 CPM, 30 PSI, 20 Ga, Without Irrigation Sleeve</td>
</tr>
</tbody>
</table>

Sterile
One per package

*™ All trademarks are property of their respective owners.

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
### Disposable / Anterior Vitrectomy Cutters

<table>
<thead>
<tr>
<th>Model</th>
<th>Brand(s)</th>
<th>Specification</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 12-5045| Alcon®: Legacy™, STTO™, STTM™, Universal™  
AMO®: Sovereign™, Signature™,  
AMO Plus™, Prestige™  
Staar Surgical™: Wave™  
Surgical Design™: Ocusystem™  
American Optisurgical™: Horizon™  
Nidek®: CV-12000™, CV-6000™, CV-7000™ | 800 CPM 20 PSI 20 Ga With Irrigation Sleeve |                 |
| 12-5068| Alcon®: Legacy™, STTO™, STTM™, Universal™  
AMO®: Sovereign™, Signature™,  
AMO Plus™, Prestige™  
Staar Surgical™: Wave™  
Surgical Design™: Ocusystem™  
American Optisurgical™: Horizon™  
Nidek®: CV-12000™, CV-6000™, CV-7000™ | 800 CPM 20 PSI 20 Ga Without Irrigation Sleeve |                 |
| 12-5101| AMO®: Gemini™  
B&L®: Stellaris™, Millennium™,  
Premiere™, Protégé™  
Optikon®: Pulsar 2™, Assistant™  
Croma Pharma®/Corneal®: Open Phaco™  
Carl Zeiss Meditec®/IOL Tech™/Fritz Ruck®: Pentasys™  
Carl Zeiss®: Visalis 100™  
Medical Technical Products™  
Mediphacos™  
Nidek®: CV-24000™ | 800 CPM 25 PSI 20 Ga Without Irrigation Sleeve | Sterile
One per package

* ™ All trademarks are property of their respective owners

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Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Disposable / Posterior

12-5020
Alcon®: STTO™, Ocutome 800/8000™
Nidek®: CV-12000™
800 CPM 20 PSI 20 Ga Without Irrigation Sleeve

12-5064
Alcon®: Accurus™
DORC®: Harmony Total TTC™
800 CPM 30 PSI 20 Ga Without Irrigation Sleeve

12-5099
AMO®: Gemini™
B&L®: Premiere™, Millennium™, Daisy™
Optikon®: Pulsar 2™, Assistant™
Carl Zeiss Meditec®/IOL Tech®: Pentasys™
Fritz Ruck®: Pentasys™
Croma Pharma®/Corneal®: Open Phaco™
Alcon®: Microtome™, MVS™, STTO Dx™
Nidek®: CV-24000™, VT-5000™
MID Labs®: MVS™, SupraVit™
Syntec®: VitMan™
800 CPM 25 PSI 20 Ga Without Irrigation Sleeve

12-5124
Alcon®: Accurus™
DORC®: Associate™
2500 CPM 30 PSI 20 Ga Without Irrigation Sleeve

12-5168
Carl Zeiss Meditec®/IOL Tech®: Pentasys™ – 1500 cpm
Fritz Ruck®: Pentasys™ – 1500 cpm
Croma Pharma®/Corneal®: Open Phaco™ – 1500 cpm
Optikon®: Pulsar 2™, Assistant™ – 2000 cpm
AMO®: Gemini™ – 2000 cpm
Nidek®: CV-24000™ – 2500 cpm

12-5215
DORC®: Harmony Total TTC™
1500 CPM 25 PSI 20 Ga Without Irrigation Sleeve

Sterile
One per package

*™ All trademarks are property of their respective owners

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Disposabke / Posterior

12-5140

B&L®: Millennium™, Premiere™ – 750 cpm
DORC®: Harmony Total TTC™ – 1500 cpm
12-5022 – Pressure Line Adapter required
Carl Zeiss Meditec®/IOL Tech®: Pentasys™ – 1500 cpm
Fritz Ruck®: Pentasy™ – 1500 cpm
Croma Pharma®/Corneal®: Open Phaco™ – 1500 cpm
Optikon®: Pulsar 2™, Assistant™ – 2000 cpm
AMO®: Gemini™ – 2000 cpm
Nidek®: CV-24000™ – 2500 cpm
Nidek®: CV-12000™, VT-5000™ – 800 cpm

12-5171

B&L®: Millennium™, Premiere™ 750 cpm
Carl Zeiss Meditec®/IOL Tech®: Pentasys™ – 1500 cpm
Fritz Ruck®: Pentasys™ – 1500 cpm
Croma Pharma®/Corneal®: Open Phaco™ – 1500 cpm
Optikon®: Pulsar 2™, Assistant™ – 2000 cpm
Nidek®: CV-12000™, CV-6000™, CV-7000™ – 800 cpm
Nidek®: CV-24000™ – 2500 cpm

12-5022

Pressure Line Adapter
Connects 12-5140 with DORC® Harmony Total TTC™
5 per pack

12-5157

Alcon®: Accurus™
DORC®: Associate™

Irrigation Sleeves

12-5035

Disposable Irrigation Sleeve
5 per package

12-5034

Reusable Irrigation Sleeve
1 per package

*™ All trademarks are property of their respective owners

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**BackFlush Handles**

**Titanium Backflush Handle**  
Passive Aspiration  
Reusable  
12-6010

**Titanium Backflush Handle**  
Active Aspiration  
Reusable  
12-6000

**Backflush Handle**  
Passive Aspiration  
Sterile  
5 per box  
12-5197

**Backflush Handle**  
Active Aspiration  
Sterile  
5 per box  
12-5196

**Replacement Reservoir for Backflush Handle**  
Passive  
Sterile  
10 per box  
12-5147

**Replacement Reservoir for Backflush Handle**  
Active  
Sterile  
10 per box  
12-5159

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Cannulas For Backflush Instruments

**Charles Flute Cannulas**
Designed to aspirate blood and debris from the posterior segment. Smooth, finished tip provides atraumatic entry and reduces risk of trauma to surrounding tissue. Disposable, 5 per box.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5151</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-5164</td>
<td>23 Ga</td>
</tr>
<tr>
<td>12-5156</td>
<td>25 Ga</td>
</tr>
<tr>
<td>12-5492</td>
<td>27 Ga</td>
</tr>
</tbody>
</table>

**Brush Tip Cannulas**
For atraumatic brushing of retina. Disposable, 5 per box.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5017</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-5162</td>
<td>23 Ga</td>
</tr>
<tr>
<td>12-5160</td>
<td>25 Ga</td>
</tr>
</tbody>
</table>

**Soft Tip Cannulas**
Flexible tip allows atraumatic entry through retinal or macular tears or holes and enables aspiration of subretinal fluid. Disposable, 5 per box.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5063</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-5161</td>
<td>23 Ga</td>
</tr>
<tr>
<td>12-5152</td>
<td>25 Ga</td>
</tr>
<tr>
<td>12-5491</td>
<td>27 Ga</td>
</tr>
</tbody>
</table>

**Diamond Dusted Soft Tip Cannulas**
Designed for better cohesion and gentle sweeping of the membrane. Disposable, 5 per box.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5193</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-5192</td>
<td>23 Ga</td>
</tr>
</tbody>
</table>
Infusion Cannulas
Ultra thin wall cannula 0.90 mm (20Ga) with 45° beveled tip allows more fluid flow than a regular wall cannula. Flexible tubing is 25 cm long and attaches to an infusion source with luer lock fitting. Unique design facilitates injection of silicone oil and other viscous fluids.

**Infusion Cannula**
Disposable, 5 per box

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5066</td>
<td>20Ga (0.90 mm), 2.5 mm</td>
</tr>
<tr>
<td>12-5010</td>
<td>20Ga (0.90 mm), 4.0 mm</td>
</tr>
<tr>
<td>12-5011</td>
<td>20Ga (0.90 mm), 6.0 mm</td>
</tr>
</tbody>
</table>

Reusable

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-024</td>
<td>20Ga (0.90 mm), 2.5 mm</td>
</tr>
<tr>
<td>12-025</td>
<td>20Ga (0.90 mm), 4.0 mm</td>
</tr>
<tr>
<td>12-026</td>
<td>20Ga (0.90 mm), 6.0 mm</td>
</tr>
</tbody>
</table>

Silicone Oil Infusion Cannula
Disposable, 5 per box

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5012</td>
<td>20Ga, 4.0 mm tip</td>
</tr>
<tr>
<td>12-5013</td>
<td>20Ga, 6.0 mm tip</td>
</tr>
</tbody>
</table>

Self-Retaining Sutureless Cannulas
Sutureless fixation. Retaining ridge holds cannula in place.

**Self-Retaining Infusion Cannula**
Disposable, 5 per box

4.0 mm tip Stainless Steel Metal Hub

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>12-5116</td>
<td>20Ga (0.90 mm)</td>
</tr>
<tr>
<td>12-5144</td>
<td>23Ga (0.60 mm)</td>
</tr>
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</table>

6.0 mm tip Stainless Steel Metal Hub

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>12-5219</td>
<td>20Ga (.90 mm)</td>
</tr>
<tr>
<td>12-5221</td>
<td>23Ga (.60 mm)</td>
</tr>
</tbody>
</table>

Self-Retaining Silicone Oil Infusion Cannula
Disposable, 5 per box

4.0 mm tip Stainless Steel Metal Hub

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>12-5117</td>
<td>20Ga</td>
</tr>
<tr>
<td>12-5165</td>
<td>23Ga</td>
</tr>
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</table>

6.0 mm tip Stainless Steel Metal Hub

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5220</td>
<td>20Ga</td>
</tr>
<tr>
<td>12-5222</td>
<td>23Ga</td>
</tr>
</tbody>
</table>

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Dual Bore Cannulas
For simultaneous infusion and aspiration of liquids.

Dual Bore PFC Cannula
Simultaneous infusion of heavy liquids and aspiration of intraocular fluids
Dual bore enables to control constant intraocular pressure during injection
Disposable, 5 per box

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Diameter (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5191</td>
<td>20Ga (0.90 mm)</td>
<td></td>
</tr>
<tr>
<td>12-5203</td>
<td>23Ga (0.60 mm)</td>
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</tr>
</tbody>
</table>

Dual Bore BSS Injection Needle
Enables to control subretinal injection of BSS
Dual bore cannula combined with aspiration capability
Disposable, 1 per box

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Diameter (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5194</td>
<td>20Ga / 41Ga (0.10 mm) tip</td>
<td></td>
</tr>
</tbody>
</table>

Illuminated Infusion Cannula
For simultaneous infusion of liquids and illumination.

Chandelier Cannula with illumination
Ocutome® connector

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5037</td>
<td>20Ga</td>
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</table>

Illuminated Infusion Cannula

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5038</td>
<td>18Ga, Ocutome® connector</td>
</tr>
<tr>
<td>12-5096</td>
<td>18Ga, Alcon® connector</td>
</tr>
<tr>
<td>12-5128</td>
<td>18Ga, B&amp;L® connector</td>
</tr>
</tbody>
</table>

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Fiber Optic Probes

<table>
<thead>
<tr>
<th>Surgical System</th>
<th>Type of Illumination</th>
<th>Fiber Optic Probes</th>
<th>Wide Angle Fiber Optic Probe</th>
<th>Shielded Fiber Optic Probe (Wide Angle Illumination with central focal point)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcon® Accurus™</td>
<td></td>
<td>12-5072 20 Ga</td>
<td>12-5073 20 Ga</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-5177 23 Ga</td>
<td>12-5178 23 Ga</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-5135 25 Ga</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B&amp;L®</td>
<td></td>
<td>12-5076 20 Ga</td>
<td>12-5077 20 Ga</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-5179 23 Ga</td>
<td>12-5180 23 Ga</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-5138 25 Ga</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ocutome®</td>
<td></td>
<td>12-5014 20 Ga</td>
<td>12-5019 20 Ga</td>
<td>12-5079 20 Ga</td>
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<tr>
<td></td>
<td></td>
<td>12-5163 23 Ga</td>
<td>12-5169 23 Ga</td>
<td>12-5210 23 Ga</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12-5126 25 Ga</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5 per box

Fiber Optic Adapter

For Ocutome™ 5 mm connector to Alcon® Accurus™

1 per box

12-5023

Fiber Optic Adapter

For Ocutome™ 5 mm connector to Grieshaber®, Trek®

1 per box

12-5025

Fiber Optic Adapter

For Ocutome™ 5 mm connector to B&L® systems

1 per box

12-5024

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Ultra Purified Silicone Oil

For Vitreoretinal Surgery

- Maximum interfacial tension and minimum interactions between tissues, cells and endo-tamponades media
- Optimal combination of specific gravity, refractive index and surface tension
- Different viscosity indexes enable easy injection (1000 cSt) and stable temporary tamponade (5000 cSt)

SmartSil 1000 1000 cSt
SmartSil 5000 5000 cSt

<table>
<thead>
<tr>
<th>Physicochemical properties:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfacial tension at 37°C</td>
<td>43.2 mN m⁻¹</td>
</tr>
<tr>
<td>Density</td>
<td>0.97 g/cm³</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1000 cSt / 5000 cSt</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.404</td>
</tr>
<tr>
<td>Volatility</td>
<td>0.06%</td>
</tr>
<tr>
<td>Polydispersity</td>
<td>2.33</td>
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<tr>
<td>Elements potentially toxic</td>
<td>&lt; 3 ppm</td>
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</tbody>
</table>
| Low molecular weights                           | D4–D9: < 24 ppm
|                                                 | D10–D20: ≤ 4 ppm |

Tubings for syringes are available upon request

Not available in the US

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Silicone Oil Infusion Systems

Reusable Tubing System for the Infusion of Silicone Oil

Capron Adapter adjustable to:
- Ioltech® Pentasys™
- Optikon® Antares™
- Alcon® STTO™
- Storz® Premiere™
- DORC® Harmony Budget™

12-RTUB-1

DORC® Associate™
- Alcon® Constellation™,
- Accurus™

12-RTUB-2

Capron Adapter adjustable to:
- Oerlii® Orbit™, Faros™, Os3™

12-RTUB-4

Viscous Fluid Injection Cannula

10 mm polyimide tip
Allowing injection of viscous fluids such as silicone oil through 23Ga trocar cannula
Disposable, 5 per box

12-5248  23Ga
Cannulas REUSABLE
Cataract Cannulas
Oculoplastic Cannulas
Refractive Surgery Cannulas
Corneal Cannulas
Glaucoma Cannulas
CANNULAS DISPOSABLE
Cannulas Gauge Chart
Anesthesia Cannulas
Cataract Cannulas
Oculoplastic Cannulas
Refractive Cannulas
Vitreoretinal Cannulas

View all our sets products at www.rumex.net
Irrigating Cannulas

Irrigating Cannula
Straight Blunt Tip, Polished
For atraumatic brushing of retina

- 15-049-20  20Ga x 25mm
- 15-049-23  23Ga x 25mm
- 15-049-25  25Ga x 25mm
- 15-049-30  30Ga x 25mm

Anterior Chamber Cannulas

**Rycroft**
Anterior Chamber Cannula
4 mm bend length
Angled 45°

- 15-051-23  23Ga x 22mm
- 15-051-25  25Ga x 22mm
- 15-051-27  27Ga x 22mm
- 15-051-30  30Ga x 22mm

**Rycroft**
Anterior Chamber Cannula
6 mm bend length
Angled 45°

- 15-052-23  23Ga x 22mm
- 15-052-27  27Ga x 22mm

**Rycroft**
Anterior Chamber Cannula
8 mm bend length
Angled 45°

- 15-053-23  23Ga x 22mm
- 15-053-27  27Ga x 22mm

**Bishop Harmon**
Anterior Chamber Cannula
8 mm from end
Angled 40°, spatulated

- 15-055-19  19Ga x 25mm

**Bracken**
Anterior Chamber Cannula
Curved 90°, Flattened bevel tip

- 15-057  19Ga x 23mm

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Anterior Chamber Cannulas

McIntyre
Anterior Chamber Maintainer
Angled, smooth blunt tip, front opening

- 15-061-23  23Ga
- 15-061-25  25Ga
- 15-061-26  26Ga
- 15-061-27  27Ga
- 15-061-30  30Ga

Knolle
Anterior Chamber Cannula
2mm angled tip

- 15-063-23  23Ga x 19mm
- 15-063-30  30Ga x 19mm

Lewicky
Anterior Chamber Maintainer
Silicone tubing attached
Unique annular rings for self retaining

- 15-065  20Ga x 3.50 mm

Girard
Anterior Chamber Maintainer
With Atkinson point,
20cms silicone tubing

- 15-067  23Ga x 5.0 mm

Viscoelastic Flow Cannula
Formed, dome shaped provides safe insertion. For easier injection of viscoelastic to all meridians

- 15-1056  27Ga x 24 mm

Jaymce
Anterior Chamber maintainer
Bulbus Tip allows easy insertion and minimum tissue disturbance

- 15-1067  20Ga x 4 mm from tip

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Cannulas for Anesthesia

Atkinson

Retrobulbar Needle

- 15-001-23  23Ga x 38mm
- 15-001-27  27Ga x 38mm

Retrobulbar Needle

Sharp Point

- 15-003-23  23Ga x 38mm
- 15-003-25  25Ga x 38mm

- 15-003-25B  25Ga x 50mm

Atkinson

Peribulbar Needle

- 15-005-25  25Ga x 22mm
- 15-005-27  27Ga x 22mm

Sub-Tenon’s

Anesthesia Cannula (Para)

Curved, Flattened Tip
0.3 mm sideports

- 15-009  19Ga x 25mm

Sub-Tenon’s

Anesthesia Cannula
Curved, 3 ports

- 15-011C-19  19Ga x 25mm

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Sub-Tenon’s
Anesthesia Cannula
Curved, Flattened Tip
Front Opening
15-013-19  19Ga x 25mm

Kelman
Sharp Irrigating Cystotome
Curved sharp cutting edge
15-025  25Ga x 32mm

Knolle-Pearse
Irrigating Vectis
3 irrigating ports at 12, 10 and 2 O’clock
Loop 5 mm wide, 9 mm long
15-183  23Ga

Drews
Irrigating Vectis
Posterior capsule polisher lightly angled,
Sand blasted base irrigating port facing
inside circle 25Ga
15-184  25Ga

Anis
Irrigating Vectis
Two front opening ports,
heart shaped loop
15-189  23Ga

Simcoe
Nucleus Delivery Cannula
With serrations
15-201L  23Ga, Left (shown)
15-201R  23Ga, Right

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
McIntyre
Nucleus delivery cannula
Spoon 4.0 mm
Used with trisector to take out bigger fragments
15-197-4 23Ga

Sheets
Irrigating Vectis
3 irrigating ports
Serrations on top
Loop 6.5 mm wide x 19 mm long
15-203 21Ga x 38mm

Capsule Polishers

Flexible Tip Polisher
12 mm sleeve length
Angled 45°, bend 9 mm
15-100-23 23Ga x 22mm
15-100-27 27Ga x 22mm

Engels
Flexible Tip Polisher
23 mm sleeve length, Curved
15-101-27 27Ga x 22mm

Jensen
Capsule Polisher
Gently Curved, Olive tip
All around sand blasted
15-159-25 25Ga x 28mm
15-159-27 27Ga x 28mm

Kratz
Capsule Polisher
0.3 mm top port
Angled, blasted 3 mm from end
15-169-21 21Ga x 22mm
15-169-23 23Ga x 22mm

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Cannulas

**Microincisional**
Capsule Polisher Cannula
- Disc-shaped Tip
- Curved tube for better visualization
- Tungsten carbide coated tip for delicate and efficient capsule polishing
- Specially designed for scrubbing all parts of the capsular bag
- Obtains performing a procedure through a sub – 2-mm incision

15-170  23Ga x 25mm

**Graether**
Collar Button
Micro Iris retractor sand blasted posterior surface for capsule polishing side irrigation

15-171S  23Ga x 25mm, Straight
15-172  23Ga x 25mm, Angled (shown)

**Pearce**
Capsule Polisher
Olive Tip, 0.3 mm top port micro sand blasted

15-1157-23  25Ga x 25mm

**Hydrodissection / Hydrodelineation Cannulas**

**Rainin**
Nucleus Hydrodissector
Spatulated on horizontal plane
Angled 45°, bend 7mm

15-069-30  30Ga x 22mm
15-070  27Ga x 22mm

**McIntyre**
Nucleus Hydrodissector
Spatulated
Flattened on horizontal plane
Angled 45°, bend 11mm

15-071-23  23Ga x 22mm
15-071-25  25Ga x 22mm
15-071-27  27Ga x 22mm
15-071-30  30Ga x 22mm

*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied*
**Pearce**

**J-Shaped Micro Hydrodissector**

Hook 1.75mm wide x 2.25mm long.

- 15-073-23  23Ga x 22mm
- 15-073-25  25Ga x 22mm
- 15-073-30  30Ga x 22mm

**Chang**

**Nucleus Hydrodissector**

Angled 90°, flat tip with a beveled opening. Flat tip for easy insertion under the capsular rim, provide broad stream of fluid. Beveled tip used to rotate the nucleus to ensure that it is completely separated.

- 15-0681  27Ga x 16mm

**Pearce**

**J-Shaped Micro Hydrodissector**

Hook 2.00mm x 2.50mm.

- 15-1073-23  23Ga x 22mm
- 15-1073-25  25Ga x 22mm
- 15-1073-27  27Ga x 22mm
- 15-1073-30  30Ga x 22mm

**Feaster**

**Nucleus Hydrodelineator**

Two irrigating ports for fluid distribution in both the planes. Closed wedge shaped tip allows easy penetration between nucleous & epinucleous.

- 15-1077  25Ga x 22mm

**Blumenthal**

**Tapered Hydrodelineator**

Tapered tip allows more flow of fluid through a smaller tip. Easy insertion under capsule for hydrodissection or into nucleous for hydrodelineation.

- 15-1078  25Ga x 22mm

*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.*
Cortex Aspiration Cannulas

McIntyre-Binkhorst
Blunt tip, front opening
15-079R  26Ga x 22mm, Right
15-079L  26Ga x 22mm, Left

Gills
Aspirating Cannula
15-085-5  25Ga, Angled to tip 5mm
15-085-6  25Ga, Angled to tip 6mm
15-085-8  25Ga, Angled to tip 8mm
15-085-10  25Ga, Angled to tip 10mm

Healon
Aspirating Cannula
Angled 10mm from tip
15-087-19  19Ga x 32mm
15-087-21  21Ga x 32mm
15-087-22  22Ga x 32mm

Smooth Closed Tip with top aspirating port into curve

Simcoe
Cortex Extractor Cannula
15-091-13/23  23Ga x 13mm
15-091-21/21  21Ga x 21mm
15-091-21/23  23Ga x 21mm

Simcoe-Welsh
Cortex Extractor Cannula
Angled 10mm from tip
0.3 mm aspirating port
15-093-21  21Ga

Welsh
Cortex Extractor Cannula
Flat olive tip
15-095L  25Ga x 25mm, Left (shown)
15-095R  25Ga x 25mm, Right
15-095S  25Ga x 25mm, Straight
15-095Set  Set of three cannulas

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Troutman
Alpha-Chymotrypsin Aspirating Cannula
Smooth bulbous tip
15-097  25Ga x 26mm

U-Shaped
Aspirating Cannula
Hooked 1.50 mm X 1.75 mm
15-099-21  21Ga x 22 mm
15-099-23  23Ga x 22 mm
15-099-25  25Ga x 22 mm
15-099-27  27Ga x 22 mm

Irrigating / Aspirating Cannulas

Gills
I/A Cannula with Silicone Tubing
Side By Side Front Opening
15-119  23/23Ga

Gills-Welsh
I/A Cannula with Silicone Tubing
Flat olive tip
15-121L  25/23Ga, Left (shown)
15-121R  25/23Ga, Right
15-121S  25/23Ga, Straight
“J” shape facilitates removal of cortex at 12 o'clock position

**Simcoe**

I/A Cannula with Silicone Tubing

Regular

0.3 / 0.4 mm Port

- **15-129-0.3** 23/23Ga
- **15-129-0.4** 23/22Ga

**Simcoe**

I/A Cannula with Silicone Tubing

Reverse

Aspiration through hub 0.3 / 0.4 mm Port
Irrigation through tubing

- **15-133-0.3** 23/23Ga
- **15-133-0.4** 23/22Ga

**J Shaped**

I/A Cannula with Silicone Tubing

Regular

0.3 mm top port

- **15-1149L** 23/23Ga, Left (shown)
- **15-1149R** 23/23Ga, Right

**J Shaped**

I/A Cannula with Silicone Tubing

Reverse

0.3 mm top port

- **15-1150R** 23/23Ga, Right
Lacrimal Cannulas

**Reinforced**
Lacrimal Cannula
Malleable
20Ga Shaft having reinforced 12 mm

- 15-027 23Ga x 32mm, Straight
- 15-029 23Ga x 32mm, Curved (shown)

**Bailey**
Lacrimal Cannula
Exposed tip, straight
For Infants short 20Ga straight shaft having 7 mm

- 15-031 23Ga x 15mm

**Shahinian**
Lacrimal Cannula
Smooth bullet shape end

- 15-032 25Ga x 35mm

**Fasanella**
Lacrimal Cannula
Gently curved

- 15-033 23Ga x 42mm

**Anel**
Lacrimal Cannula
Curved, special long mount blunt tip

- 15-035-23C 23Ga
- 15-035-25C 25Ga

**Anel**
Lacrimal Cannula
Straight, special long mount blunt tip

- 15-035-23S 23Ga
- 15-035-25S 25Ga

**West**
Lacrimal Cannula
Gently curved, 0.3 mm bottom port, blunt tip

- 15-037 23Ga x 30mm

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
**LASIK Cannulas**

**Vidaurri**
LASIK Double Cannula
8 irrigating ports
Universal cannula simultaneously irrigates both sides of flap.
Washes at Stromal bed and enables flap positioning
15-371-25  25Ga /16Ga x 12mm shaft

**Banaji**
LASIK Irrigation Cannula
4 Ports 0.25 mm on periphery
Curved
15-373-25 25Ga
15-373-27 27Ga

**Slade**
LASIK Cannula
Flattened spatulated tip, end opening
15-376  26Ga

**Buratto**
LASIK Irrigation Cannula
45° angled triport
15-379-25  25Ga

**Gimbel**
LASIK Fountain Cannula
Single port
15-378R 25Ga x 25.4mm, Right
15-378L 25Ga x 25.4mm, Left

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DALK Cannulas

Cannula for DALK procedure
LASIK Double Cannula
Bottom port 0.2mm
Designed for air injection in order to achieve an ideal “Big Bubble”
15-450-27 27Ga

Glaucoma Cannulas

Viscocanalostomy Cannula
5 mm beveled tip, slightly angled Micro-Gauge cannula for viscoelastic injection during Glaucoma Surgery
15-1051-30 30Ga

Glaucoma Revision Pick
Angled 60°, bend length 7 mm
15-1052 27Ga x 16mm

Glaucoma Valte Introducer Needle
Tapered tip for easy insertion
Valve tube can be slide on 26Ga needle for introduction
15-1053 26Ga/23Ga

Mendez
Anterior Chamber Cannula
Angled 45°, 3 mm bend to tip
Round tip to reform the anterior chamber during Glaucoma Procedures
15-1054 27Ga x 10mm

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Silicone Bulb With Adapter
15-301/303

Titanium Microsurgical Handle
Male-Male
15-307T

Titanium Microsurgical Handle
Male-Female
15-308T
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<td>In</td>
<td>mm</td>
<td>in</td>
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<td>.70</td>
<td>.043</td>
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<tr>
<td>30Ga</td>
<td>.006</td>
<td>.15</td>
<td>.012</td>
</tr>
</tbody>
</table>

*Not an ISO colour code
Retrobulbar / Peribulbar Needles
May be used to perform peribulbar or retrobulbar administrations.

Atkinson
Anesthesia Needle

- 23Ga x 5/4 in (.60X32 mm) 21-R1023
- 25Ga x 5/4 in (.50X32 mm) 21-R1025
- 27Ga x 5/4 in (.40X32 mm) 21-R1027

Retrobulbar Needles
For injecting anesthetic agents into the muscle cone.

Atkinson
Retrobulbar Needle

- 23Ga x 3/2 in (.60X38 mm) 21-R1123
- 25Ga x 3/2 in (.50X38 mm) 21-R1125

Sharp
Retrobulbar Needle

- 25Ga x 3/2 in (.50X38 mm) 21-R1225

Sub-Tenon`s Anesthesia Cannulas
For administering anesthetic agents into the posterior Sub-Tenon`s space. Curved, flattened tip.

Sub-Tenon`s
Anesthesia Cannula

- 19Ga x 1 in (1.10X25 mm) 21-R1319
- 20Ga x 1 in (0.90X25 mm) 21-R1320

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
**Peribulbar Needles**
For injecting anesthetic agents around the globe (periocular).

*Atkinson*
Peribulbar Needle
21-R1427  27Ga X 7/8 in (.40X22 mm)

---

**Anterior Chamber Cannulas**
For maintaining and forming the anterior chamber by injecting or removing air, fluids, viscoelastics and intraocular medications. Angled 32°

*Rycroft*
Anterior Chamber Cannula
4mm from the end
21-R2023  23Ga X 7/8 in (.60X22 mm)
21-R2025  25Ga X 7/8 in (.50X22 mm)
21-R2027  27Ga X 7/8 in (.40X22 mm)
21-R2030  30Ga X 7/8 in (.30X22 mm)

6mm from the end
21-R2027-6  27Ga X 7/8 in (.40X22 mm)

8mm from the end
21-R2027-8  27Ga X 7/8 in (.40X22 mm)

---

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Anterior Chamber Maintainer
For maintaining the anterior chamber form.

Lewicky
Anterior Chamber Maintainer
4 mm serrated tip
6 in (15 cm) silicone tubing
ID -.75 mm (0.030 in)
OD – 1.65 mm (0.065 in)
21-R2520 20Ga x 7/8 in (0.90X22 mm)

Bishop Harmon
Cannula
8mm, 37°angled
Smooth oval shaped tip
21-R2619 19Ga x 1 in (1.10X25 mm)

Irrigating Cannula

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Short Curve Irrigating Cystotomes
For capsulotomy on deep-set eyes or small pupils.

Irrigating Cystotome
Small radius

<table>
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<th>Gauges</th>
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<td>21-R3227</td>
<td>27Ga x 5/8 in (.40X16 mm)</td>
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</tr>
<tr>
<td>21-R3330</td>
<td>30Ga x 5/8 in (.30X16 mm)</td>
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</table>

Capsulorrhexis Cystotome
Special tip allows control of flap during continues curvilinear capsulotomies (CCC). Tip has cutting edge from front to back for push or pull cutting. Tip is 90°, then rotated 90°.

Capsulorrhexis Cystotome
FORMED

<table>
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<tr>
<td>21-R3327</td>
<td>27Ga x 5/8 in (.40X16 mm)</td>
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Capsulorrhexis Cystotome
STRAIGHT

<table>
<thead>
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<th>Code</th>
<th>Description</th>
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<tbody>
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<td>21-R3627</td>
<td>27Ga x 5/8 in (.40X16 mm)</td>
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<tr>
<td>21-R3630</td>
<td>30Ga x 5/8 in (.30X16 mm)</td>
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</tbody>
</table>
Formed Cystotomes

Pearce
Irrigating Cystotome
- 21-R3023 23Ga x 5/8 in (.60X16 mm)
- 21-R3025 25Ga x 5/8 in (.50X16 mm)
- 21-R3027 27Ga x 5/8 in (.40X16 mm)
- 21-R3030 25Ga x 5/8 in (.50X16 mm)

Angled Cystotomes

Irrigating Cystotome
- 21-R3925 25Ga x 5/8 in (.50X16 mm)

Straight Cystotomes

Irrigating Cystotome
- 21-R3523 23Ga x 5/8 in (.60X16 mm)
- 21-R3525 25Ga x 5/8 in (.50X16 mm)
- 21-R3527 27Ga x 5/8 in (.40X16 mm)
- 21-R3530 30Ga x 5/8 in (.30X16 mm)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Endocapsular Cystotome
Curve facilitates intercapsular / endocapsular techniques.

Joyce
Endocapsular Cystotome
21-R3825  25Ga x 5/8 in (.50X16 mm)
21-R3827  27Ga x 5/8 in (.40X16 mm)

Reverse Tip Cystotomes
Tip is bent towards port for downward irrigation. Tip angled 90° towards bevel.

Irrigating Cystotome
21-R3125  25Ga x 5/8 in (.50X16 mm)
A range of cannulas with tips designed to deliver fluids to facilitate the separation of the cortex from the nucleus and capsule.

**Round End Cannulas**
Cannula tip is specially rounded, extra smooth for safe insertion through wound and manipulation in the anterior chamber. Angled 32°.

**Hydrodissector**

10 mm from the end
- 21-R4427 27Ga x 7/8 in (.40X22 mm)

12 mm from the end
- 21-R4430 30Ga x 7/8 in (.30X22 mm)

**Angled Cannulas**
Angled flattened tip provides a broad stream of fluid. The point of the beveled tip is used to engage and rotate the nucleus to ensure complete separation.

**Chang**
Hydrodissector
- Angled 90°, 1 mm bend
  - 21-R4725 25Ga x 7/8 in (.50X22 mm)
  - 21-R4727 27Ga x 7/8 in (.40X22 mm)
  - 21-R4730 30Ga x 7/8 in (.30X22 mm)

**Akahoshi**
Hydrodissector
- Angled 45°, 1.5 mm bend
  - 21-R4827 27Ga x 7/8 in (.40X22 mm)

*Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied*
Flat End Cannulas
For separating the nucleus from the capsule and cortical attachments. Also for separating and softening layers of nucleus prior to phacoemulsification. Flattened tip.

Pearce
Hydrodissector
Angled 32°, Smooth oval shaped tip
8 mm from the end
21-R4025 25Ga x 7/8 in (.50X22 mm)

Hydrodissector
Angled 32°, Smooth oval shaped tip
10 mm from the end
21-R4027 27Ga x 7/8 in (.40X22 mm)
21-R4030 30Ga x 7/8 in (.30X22 mm)

Daya
Hydrodissector
Formed 11 mm
21-R4125 25Ga x 7/8 in (.50X22 mm)

Hydrodissector
Flattened Horizontal
Tip flattened horizontally 4 mm from the end
21-R4127 27Ga x 7/8 in (.40X22 mm)

Kellan
Hydrodissector
Flattened Vertical
Curved
21-R4227 27Ga x 7/8 in (.40X22 mm)

J Hydrodissector
Flattened hook
1.5 mm long x 2.0 /1.75 mm wide
Smooth oval shaped tip
21-R4325 25Ga x 7/8 in (0.50X22 mm)
21-R4327 27Ga x 7/8 in (0.40X22 mm)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**Single Bevel End Cannula**

Shortened, single bevel tip easily penetrates the nucleus for manual sculpting to improve lamellar separation prior to phacoemulsification. Flattened end provides smooth insertion under anterior capsule for hydrodissection.

![Single Bevel End Cannula](image.png)

**Viscoelastic Cannulas**

For injecting viscoelastic to all meridians of the anterior chamber and to coat intraocular lens. This range of cannula has smooth rounded tips for the safe introduction of viscoelastic.

**Viscoelastic Cannula**

9 mm from the end
Angled 32°

- 21-R2225 25Ga x 7/8 in (.50X22 mm)
- 21-R2227 27Ga x 7/8 in (.40X22 mm)

**Viscoelastic Cannula**

10 mm from the end
Angled 32°

- 21-R2323 23Ga x 7/8 in (.60X22 mm)
- 21-R2327 27Ga x 7/8 in (.40X22 mm)

**Viscoelastic Cannula**

11 mm from the end
Formed

- 21-R2427 27Ga x 7/8 in (.40X22 mm)

**Hydroexpression Cannulas**

Curve allows placement of cannulas under nucleus for expression. Angled tip is useful to hook and remove nucleus. Designed to express the nucleus with balanced salt solution or viscoelastic through a capsulorrhexis.

**Hydroexpression Cannula**

- 21-R4625 25Ga x 7/8 in (.50X22 mm)
- 21-R4627 27Ga x 7/8 in (.40X22 mm)

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Cortex Extractors
For aspirating when chamber is maintained with a viscoelastic, anterior chamber maintainer or other independent source.

Simcoe
Cortex Extractor
0.3 mm top port
21-R5023 23Ga x 7/8 in (.60X22 mm)
21-R5016 23Ga (.60 mm) x 13mm

Charleux
Cortex Extractor
21-R5323 23Ga x 1/2 in (0.60X12.5 mm)

J Shape Cannulas
For retracting iris and aspirating residual sub-incisional cortex

J Cannula
Hook 2 mm long X 2 mm wide
21-R5223 23Ga x 7/8 in (.60X22 mm)
Hook 1.5 mm long X 1.5 mm wide
21-R5227 27Ga x 7/8 in (.40X22 mm)

J Cannula
Hook 2 mm long X 2 mm wide
Angled 45°, 10 mm from the end
21-R5425 25Ga x 7/8 in (.50X22 mm)

Binkhorst
J Cortex Extractor Angled
Angled 18°, 12 mm from the end
Hook 1.5 mm long X 1.75 mm wide
21-R5425R 25Ga x 7/8 in (.50X22 mm) Right
Hook 1.5 mm long X 1.5 mm wide
21-R5425L 25Ga x 7/8 in (.50X22 mm) Left

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
Simcoe / Irrigating & Aspirating Cannulas

For removing cortical debris or viscoelastic substances while maintaining the anterior chamber during extracapsular and intercapsular/endocapsular cataract procedures.

**REGULAR**

Simcoe

I/A Cannula

0.3 / 0.4 / 0.5 mm top port
Curved, 6 in (15 cm) silicone tubing
ID - .75 mm (0.030 in)
OD – 1.65 mm (0.065 in)

21-R5623 23Ga/23Ga x 5/8 in (.60X16 mm)
21-R5623-0.4 23Ga/23Ga x 5/8 in (.60X16 mm)
21-R5623-0.5 21Ga/21Ga x 5/8 in (.80X16 mm)

**REVERSE**

Simcoe

I/A Cannula

0.3 / 0.4 mm top port
Curved, 6 in (15 cm) silicone tubing
ID - .75 mm (0.030 in)
OD – 1.65 mm (0.065 in)

21-R5623-0.3R 23Ga/23Ga x 5/8 in (.60X16 mm)
21-R5623-0.4R 23Ga/23Ga x 5/8 in (.60X16 mm)
Soft Tip Cannulas
Soft tip for gentle polishing which provides atraumatic insertion and removal

Squeegee
Soft Tip Cannula
Angled 32°, 9 mm from the end
10 mm silicone tubing
ID - .50 mm (.020 in) / .30 mm (.012 in)
OD - .95 mm (.037 in) / .60 mm (.025 in)
21-R6023  23Ga x 7/8 in (.60X22 mm)
21-R6027  27Ga x 7/8 in (.40X22 mm)

Engels
Anterior Capsule Polisher
21-R6327  27Ga x 7/8 in (.40X22 mm)

Engels
Posterior Capsule Polisher
21-R6427  27Ga x 7/8 in (.40X22 mm)

Micro-Etched Tip Cannulas
lightly roughened for gentle polishing. Beveled down for polishing posterior capsule

Kratz
Capsule Polisher
Angled 37°, 7 mm from the end,
.30 mm side port
3 mm sandblasted closed end
21-R6121  21Ga x 7/8 in (.80X22 mm)
21-R6123  23Ga x 7/8 in (.60X22 mm)

Capsule Polisher
Angled 37°, 7 mm from the end
3 mm sandblasted open end
21-R6223  21Ga x 7/8 in (.80X22 mm)
21-R6223  23Ga x 7/8 in (.60X22 mm)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Micro Etched Tip Cannulas
Slightly roughened for gentle polishing. Beveled down for polishing posterior capsule

Olive Tip Capsule Polisher
Curved
1mm smooth, bulbous tip
21-R2623  23Ga x 1in (.60X25mm)

Jensen
Olive Tip Capsule Polisher
Curved
1mm smooth, bulbous tip
21-R6425  25Ga x 7/8 in (.50X22 mm)

Olive Tip Capsule Polisher
Angled
1mm sandblasted, bulbous tip
21-R6425A  23Ga x 10 mm bend

Thornton
J Capsule Polisher
Hook 2 mm long X 2 mm wide
21-R6323  23Ga x 7/8 in (.60X22 mm)

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
Accessories

Replacement Tubing
6 in (15 cm) silicone tubing
ID - 0.75 mm (0.030 in)
OD – 1.65 mm (0.065 in)
Non Sterile
21-R5524

Male-To-Male Connector
fits Luer taper on both ends
made with autoclavable plastic
21-R9303  50 mm (2 in)

Lacrimal Intubation and DCR
For surgical treatment, repair and irrigation of the nasolacrimal system

Lacrimal Intubation Set
Silicone tubing 30 cm (12 in)
Stainless steel probes
ID - .30mm (.12 in)
OD - .60mm (.025 in)
21-R7001  23Ga x 7 in (0.60X175 mm)

Lacrimal Intubation Tubing
Silicone tubing 30 cm (12 in)
ID - .30mm (.12 in)
OD - .60mm (.025 in)
21-R7002

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Lacrimal Intubation and DCR
For surgical treatment, repair and irrigation of the nasolacrimal system

Lacrimal Intubation Set
Olive tip
Silicone tube length 35 cms
Stainless steel probes
- 21-R7004  27Ga x 11 cm probe
- 21-R7004RD  27Ga x 11 cm probe (with Retrieval Device)

Notched
Lacrimal Intubation Set
35cms silicone tubing
Stainless steel probes
- 21-R7005  23Ga x 11 cms probe
- 21-R7005RD  23Ga x 11 cms probe (with Retrieval Device)

Crawford
Lacrimal Intubation Set with suture
Olive tip, 6.0 silk thread
Stainless steel probes
6.0 silk thread inserted inside the lumen of probe for easy removal without anesthesia
- 21-R7006  23Ga x 11 cms

DCR Set
Silicone tubing length 30 cms (12")
Tubing dimensions 0.5mm (.020") x 0.95mm (.037")
Stainless steel probes
- 21-R7011  20Ga x 45mm (1 3/4"), Straight
- 21-R7012  20Ga x 45mm (1 3/4"), Angled

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
## OCULOPLASTIC | LACRIMAL CANNULAS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Gauges</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-R7023</td>
<td>Curved, malleable</td>
<td>23Ga</td>
<td>42 mm</td>
</tr>
<tr>
<td>21-R7021</td>
<td>21Ga x 1 1/4 in (0.80 X 33 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21-R7022</td>
<td>Gently curved</td>
<td>23Ga</td>
<td>42 mm</td>
</tr>
<tr>
<td>21-R7025</td>
<td>Straight, special long mount blunt tip</td>
<td>25Ga</td>
<td></td>
</tr>
<tr>
<td>21-R7027</td>
<td>Straight, smooth bullet shape end</td>
<td>25Ga</td>
<td>35 mm</td>
</tr>
</tbody>
</table>

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Flattened End Cannulas
Flattened tip provides easy insertion under the flap and helps elevate the flap edge. Multiple ports provide multi-directional irrigation

Daya
Lasik Cannula
21-R7123  23Ga x 7/8 in (.60X22 mm)

Rosen
Lasik Cannula
Formed 11 mm
21-R7125  25Ga x 7/8 in (0.50X22 mm)

Lasik Irrigator
4 ports
Formed 9 mm from end
Two 0.15 mm ports 2 mm and 4 mm from the end
21-R7127  27Ga x 7/8 in (0.40X22 mm)

Lasik Irrigator
4 ports
Formed 11 mm from end
Two 0.20 mm ports 2 mm and 4 mm from the end
21-R7323  23Ga x 7/8 in (0.60X22 mm)

Hersh
Lasik Spatula/Irrigator
Formed 9 mm from the end, 45°
21-R7223  23Ga x 7/8 in (0.60 X 22 mm)
Round End Cannulas
Used after ablation to wash away particulates from anterior and posterior sides of flap and stromal bed

Lasik Irrigator
4 ports
Formed 11 mm
Two 0.15 mm ports 2 mm and
4 mm from the end
21-R7227 27Ga x 7/8 in (0.40X22 mm)

Lasik Irrigator
Formed 9 mm from the end
21-R7427 27Ga x 7/8 in (0.40X22 mm)

Lindstrom
Lasik Irrigating Cannula
3 ports
Angled 7 mm bend to tip
Smooth angle curvature allows for safe flap alignment
21-R7430 25Ga x 1 in

Gulani
Triple Function Lasik Cannula
16Ga tapered to 25Ga x 8mm bend
with smooth bulbous tip (open end)
21-R7431 25Ga x 5mm bend

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Round End Cannulas
Used after ablation to wash away particulates from anterior and posterior sides of flap and stromal bed

Lasik Irrigator
4 ports
Formed 11 mm
Two 0.15 mm ports 2 mm and
4 mm from the end
21-R7227 27Ga x 7/8 in (0.40X22 mm)

Lasik Irrigator
Formed 9 mm from the end
21-R7427 27Ga x 7/8 in (0.40X22 mm)

Lindstrom
Lasik Irrigating Cannula
3 ports
Angled 7 mm bend to tip
Smooth angle curvature allows for safe flap alignment
21-R7430 25Ga x 1 in

Gulani
Triple Function Lasik Cannula
16Ga tapered to 25Ga x 8mm bend with smooth bulbous tip (open end)
21-R7431 25Ga x 5mm bend

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Vitreoretinal Cannulas
Cannula extends into hub reducing the chance of additional air bubble in the syringe from entering cannula

Vander
Vitreoretinal Cannula
20Ga X 1 in (0.90X25 mm) cannula
21-R7514  30Ga tip, straight (shown)
21-R7515  30Ga (0.30 mm) tip, angled 45°

Vitreoretinal Micropicks
For removing premacular, epiretinal and other vitreoretinal membranes .

Glaser
Vitreoretinal Micropick
20Ga x 1 in (0.90X25 mm)
25Ga x 3/16 in (0.50X5 mm)
21-R7625  0.5 mm sharp tip, angled 50°

Eaton
Vitreoretinal Micropick
20Ga x 1 in (0.90X25 mm)
30Ga x 3/16 in (0.30 X 5 mm)
21-R7630  0.5 mm sharp tip, angled 50°

Subretinal Fluid Cannulas
Flexible sleeve allows atraumatic entry through retinal or macular tears or holes and enables aspiration of subretinal fluid.

Grizzard
Subretinal Fluid Cannula
20Ga x 1 in (0.90X25 mm) cannula
25Ga x 5/32 in (0.30X4 mm) tip
6 mm tubing extension
Tubing:
ID - 0.3mm (0.012”);
OD - 0.6mm (0.025”)
21-R7720        Angled
21-R7721        Straight

Grizzard
Subretinal Fluid Cannula
20Ga x 1 in (0.90X25 mm) cannula
25Ga x 5/32 in (0.30X4 mm) tip
3 mm tubing extension
Tubing:
ID - 0.3mm (0.012”);
OD - 0.6mm (0.025”)
21-R7820        Angled
21-R7821        Straight

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
Dual Bore Cannulas
For simultaneous infusion and aspiration of liquids.

Dual Bore PFC Cannula
12-5191 20Ga (0.90 mm)  
12-5203 23Ga (0.60 mm)

Dual Bore BSS Injection Needle
20Ga (0.90 mm) cannula
12-5194 41Ga (0.10 mm) tip

Cannulas for Backflush Instruments

Brush Tip Cannula
For atraumatic brushing of retina

0.90 mm silicone brush tip
12-5017 20Ga (0.90 mm)

0.60 mm silicone brush tip
12-5162 23Ga (0.60 mm)  
12-5160 25Ga (0.50 mm)
**Soft Tip Cannula**

Flexible tip allows atraumatic entry through retinal or macular tears or holes and enables aspiration of subretinal fluid.

2.0 mm silicone tip

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Gauge / Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5063</td>
<td>20Ga (.90 mm)</td>
</tr>
<tr>
<td>12-5161</td>
<td>23Ga (.60 mm)</td>
</tr>
<tr>
<td>12-5152</td>
<td>25Ga (.50 mm)</td>
</tr>
</tbody>
</table>

**Diamond Dusted Soft Tip Cannula**

For simultaneous infusion and aspiration of liquids.

1.0 mm silicone tip
For triamcinolone removal

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Gauge / Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5193</td>
<td>20Ga (0.90 mm)</td>
</tr>
<tr>
<td>12-5192</td>
<td>23Ga (0.60 mm)</td>
</tr>
</tbody>
</table>

**Charles Flute Cannula**

Designed to aspirate blood and debris from the posterior segment.
Smooth, finished tip provides atraumatic entry and reduces risk of trauma to surrounding tissue.

Blunt tip

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Gauge / Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5151</td>
<td>20Ga (0.90 mm)</td>
</tr>
<tr>
<td>12-5164</td>
<td>23Ga (0.60 mm)</td>
</tr>
<tr>
<td>12-5156</td>
<td>25Ga (0.50 mm)</td>
</tr>
</tbody>
</table>
Infusion Cannulas
Designed to provide more effective infusion. Ultra thin wall cannula 0.90 mm (20Ga) with 45° beveled tip allows more fluid flow than a regular wall cannula. Flexible tubing is 25 cm (10 in) long and attaches to an infusion source with luer lock fitting.

<table>
<thead>
<tr>
<th>Infusion Cannula</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5066 20Ga (0.90 mm), 2.5 mm tip</td>
</tr>
<tr>
<td>12-5010 20Ga (0.90 mm), 4.0 mm tip</td>
</tr>
<tr>
<td>12-5011 20Ga (0.90 mm), 6.0 mm tip</td>
</tr>
</tbody>
</table>

Silicone Oil Infusion Cannulas
Unique design facilitates injection of silicone oil and other viscous fluids.

<table>
<thead>
<tr>
<th>Silicone Oil</th>
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</thead>
<tbody>
<tr>
<td>Infusion Cannula</td>
</tr>
<tr>
<td>20Ga (0.90 mm)</td>
</tr>
<tr>
<td>12-5012 4.0 mm tip</td>
</tr>
<tr>
<td>12-5013 6.0 mm tip</td>
</tr>
</tbody>
</table>

Self-Retaining Sutureless Cannulas
Sutureless fixation. Retaining ridge holds cannula in place.

<table>
<thead>
<tr>
<th>Self-Retaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infusion Cannula</td>
</tr>
<tr>
<td>4.0 mm tip Stainless Steel Metal Hub</td>
</tr>
<tr>
<td>12-5116 20Ga (0.90 mm)</td>
</tr>
<tr>
<td>12-5144 23Ga (0.60 mm)</td>
</tr>
<tr>
<td>6.0 mm tip Stainless Steel Metal Hub</td>
</tr>
<tr>
<td>12-5219 20Ga (.90 mm)</td>
</tr>
<tr>
<td>12-5221 23Ga (.60 mm)</td>
</tr>
</tbody>
</table>
Self-Retaining Sutureless Cannulas
Sutureless fixation. Retaining ridge holds cannula in place

Silicone Oil Self-Retaining
Infusion Cannula

4.0 mm tip Stainless Steel Metal Hub
12-5117 20Ga
12-5165 23Ga

6.0 mm tip Stainless Steel Metal Hub
12-5220 20Ga
12-5222 23Ga

Viscous Fluid
Injection Cannula
10 mm polyimide tip
Allowing injection of viscous fluids such as silicone oil through 23Ga trocar cannula
12-5248 23Ga

Illuminated Infusion Cannula
For simultaneous infusion of liquids and illumination

Chandelier
Cannula with illumination
Ocutome® connector
12-5037 20Ga

Illuminated
Infusion Cannula
12-5038 18Ga, Ocutome® connector
12-5096 18Ga, Alcon® connector
12-5128 18Ga, B&L® connector
<p>| Cannulas | 190 |</p>
<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<td>2-010T</td>
<td>1</td>
<td>Castroviejo Caliper</td>
<td>33</td>
</tr>
<tr>
<td>4-100S</td>
<td>2</td>
<td>Straight Iris Forceps With Serrations</td>
<td>63</td>
</tr>
<tr>
<td>4-101S</td>
<td>3</td>
<td>Straight Iris Forceps, 1x2 Teeth</td>
<td>63</td>
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<tr>
<td>4-0501T</td>
<td>4</td>
<td>Colibri Corneal Forceps, 12 mm 1x2 Teeth</td>
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<tr>
<td>4-058T</td>
<td>5</td>
<td>Bonn Corneal Forceps, Straight, 12 mm 1x2 Teeth</td>
<td>58</td>
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<tr>
<td>4-0600T</td>
<td>6</td>
<td>Castroviejo Suturing Forceps, .12 mm 1x2 Teeth</td>
<td>65</td>
</tr>
<tr>
<td>4-070S</td>
<td>7</td>
<td>Dressing Forceps, 6 mm Serrated Tips</td>
<td>58</td>
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<td>4-2300T</td>
<td>8</td>
<td>Bonaccolto Utility Forceps</td>
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<td>4-130S</td>
<td>9</td>
<td>Jameson Muscle Forceps, Left</td>
<td>64</td>
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<tr>
<td>4-131S</td>
<td>10</td>
<td>Jameson Muscle Forceps, Right</td>
<td>64</td>
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<td>4-173T</td>
<td>11</td>
<td>McPherson Angled Tying Forceps, 6 mm Platform</td>
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<tr>
<td>4-178S</td>
<td>12</td>
<td>McPherson Straight Tying Forceps, 7 mm Platform</td>
<td>66</td>
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<td>4-120S</td>
<td>13</td>
<td>Hartman Mosquito Forceps, Straight, Short</td>
<td>64</td>
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<td>5-060</td>
<td>14</td>
<td>Gass Retinal Detachment Hook</td>
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<td>5-040</td>
<td>15</td>
<td>Jameson Muscle Hook</td>
<td>70</td>
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<td>5-062</td>
<td>16</td>
<td>Stevens Curved Tenotomy Hook</td>
<td>71</td>
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<tr>
<td>6-322/6-0531</td>
<td>17</td>
<td>Universal Three-step diamond knife with 20 Degrees Trifacet Blade, 1.00 mm</td>
<td>43</td>
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<tr>
<td>8-011T</td>
<td>18</td>
<td>Barraquer Needle Holder, Small size</td>
<td>80</td>
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<tr>
<td>8-045T</td>
<td>19</td>
<td>Barraquer Needle Holder, Extra Fine Jaws, Medium size</td>
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<tr>
<td>2-010T</td>
<td>1 Castroviejo Caliper, Titanium</td>
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<td>3-040</td>
<td>2 Whipple Capsulorrhexis Centration Marker</td>
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<td>4-0331T</td>
<td>3 Ultrata Capsulorrhexis Forceps with Ruler</td>
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<tr>
<td>4-050T</td>
<td>4 Colibri Corneal Forceps, .12 mm 1x2 Teeth</td>
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<td>4-060T</td>
<td>5 Castroviejo Suturing Forceps, .12 mm 1x2 Teeth</td>
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<td>4-125S</td>
<td>6 Hartman Mosquito Forceps, Straight</td>
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<tr>
<td>4-174T</td>
<td>7 McPherson Angled Tying Forceps</td>
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<td>4-185T</td>
<td>8 Tennant Straight Tying Forceps</td>
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<td>4-186S</td>
<td>9 Tennant Curved Tying Forceps</td>
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<td>11 MacDonald Style Inserting Forceps</td>
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<td>4-2301T</td>
<td>13 Fechner Conjunctiva Forceps</td>
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<td>14 Kuglen Hook</td>
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<td>5-030</td>
<td>15 Lester Lens Manipulator</td>
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<td>5-031</td>
<td>16 Bechert Nucleus Rotor</td>
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<td>5-034</td>
<td>17 Diamond knife, Trifacet Blade, 1.0 mm</td>
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<tr>
<td>5-20/6-053</td>
<td>18 Diamond Knife, 2.3/2.8 mm Self-Diving Trapezoid Blade</td>
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<td>7-065</td>
<td>20 Rosen Phaco Chopper Universal</td>
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<td>21 Irrigation Handpiece, Curved, 23 Ga</td>
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<td>7-0821-23</td>
<td>22 Aspiration Handpiece, Curved, 23 Ga</td>
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<td>8-041T</td>
<td>23 Barraquer Needle Holder, Medium</td>
<td>81</td>
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<td>10-5016-1</td>
<td>24 Disposable Iris Retractors (1 pack of 4 pcs)</td>
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<td>11-040S</td>
<td>25 Westcott Curved Tenotomy Scissors</td>
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<td>27 Barraquer Wire Speculum, Adult Size</td>
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<td>14-040TK</td>
<td>28 Lieberman Temporal Speculum, Adult Size</td>
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<td>29 Chang Nucleus Hydrossector</td>
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### CATEGORY

**Sets**

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### UNIVERSAL INSTRUMENTS (REUSABLE)

#### Blade holders
- 1-020S: Blade Holder
- 1-010T: Bard Parker Handle
- 2-010T: Castroviejo Caliper
- 2-100T (2-100S / 2-101T): Braunstein Fixed Caliper
- 4-0600T / 4-0601T: Castroviejo Suturing Forceps
- 4-0607S: Bishop-Harmon Suturing Forceps
- 4-091S (4-092T / 4-094T / 4-097T): Tying Forceps
- 4-2201T: Spreading Forceps
- 4-2300T: Utility Forceps
- 4-122S (4-123S): Mosquito Forceps
- 5-042: Muscle Hook
- 5-060: Retinal Detachment Hook
- 8-011T (8-025T / 8-031T): Barraquer Needle Holder
- 8-045T (8-051T / 8-061T): Barraquer Needle Holder, extra fine jaws
- 11-040S (11-042S): Westcott Tenotomy Scissors
- 11-044S (11-046S / 11-047S): Westcott Stitch Scissors
- 11-100S (11-101S): Knapp Sphabismus Scissors
- 14-040T: Liberman Temporal Speculum
- 14-022S (14-023S): Barraquer Wire Speculum
- 16-081S: Towel Forceps
- 16-111: Scleral Depressor
- 15-301/303: Silicone Bulb With Adapter
- 18-304: Plastic Sterilization Tray (single level)
- (18-305) * Not shown: Plastic Sterilization Tray (double level)
- (18-307): Mini Sterilization Tray with Silicone Mat

#### Scissors
- 12-003T: Vitreoretinal Instrument Handle (squeeze model)
- (12-001T): Vitreoretinal Instrument Handle (one finger control)
- (12-202-23): Vertical Scissors, 70 Degrees
- (12-209-23): Curved Subretinal Scissors
- (12-301-23): Diamondized Straight Gripping Forceps
- (12-304-23): Crocodile Gripping Forceps
- (12-4012): End Gripping Forceps With Micro Jaws
- (12-402-23): ILM *Nail* End Gripping Forceps
- (12-410-23): Eckardt End Gripping Forceps
- (12-411-23): Tano Asymmetrical End-Gripping Forceps
- (12-420-23): End-grasping Forceps
- (12-321-23): Spring Gripping Forceps

#### Forceps, Epiretinal

#### Forceps, ILM

#### Forceps for foreign bodies

#### Forceps, Pick
- (12-325-23): Pick Forceps

#### Spatulas & Picks
- (12-097-23): Delicate Membrane Pick

### VITREORETINAL INSTRUMENTS (REUSABLE)

### VITREORETINAL PRODUCTS (DISPOSABLE)

#### Trocars
- 12-6220: Disposable One Step Trocar System
- (12-5173-1): Reusable Two Step Trocar System with closure valves

#### Vitrectomy Cutters
- 12-5171: Vitrectomy Cutter, B&L: Millenium, Premiere-750 cpm, 25psi
- (12-5172): Vitrectomy Cutter HIGH SPEED, Alcon® Accurus- 2500 cpm, 30psi

#### Cannulas, Aspirating
- 12-5161: Brush Tip Cannula
- (12-5164): Soft Tip Cannula
- (12-5192): Charles Flute Cannula

#### Cannulas, Infusion
- 12-6144: Diamond Dusted Soft Tip Cannula
- 12-5203: Self-Retaining Infusion Cannula, 4.0mm
- 12-6000: Dual Bore PFC Cannula

#### Backflush Handles
- 12-6010: Titanium Backflush Handle, Reusable - Active
- (12-5196): Titanium Backflush Handle, Reusable - Passive
- (12-5197): Disposable Backflush Instrument – Active
- (12-5198): Disposable Backflush Instrument – Passive

#### Fiber Optic Probes
- 12-6177: Fiber Optic Probe-Alcon® Accurus
- (12-5179): Fiber Optic Probe-B&L®

### SILICONE OIL

#### Silicone Oil* 
not available in the US
- SmartSil 5000
- (SmartSil 1000): Purified Silicone Oil for retinal endotamponade, 5000 cSt, 10 ml in a 20 ml syringe

#### Infusion Systems
- 12-RTUB-1 / 12-RTUB-2 / 12-RTUB-3 / 12-RTUB-5: Purified Silicone Oil for retinal endotamponade, 1000 cSt, 10 ml in a 20 ml syringe

### Reusable Tubing System for the Infusion of Silicone Oil
## 12-143 VITREORETINAL SET 25 Ga

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<td>Reusable Tubing System for the Infusion of Silicone Oil</td>
</tr>
</tbody>
</table>
Sterilization and Care

View all our sets products at www.rumex.net
Sterilization Trays

- Made of plastic
- Go with the silicone finger tip mat
- 18-301-1, 18-303-1, 18-305-1 go with special silicone plug-in inserts

Size Chart

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Dimensions (LxWxH)</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-300</td>
<td>with 1 special silicone plug-in insert</td>
<td>190 x 101 x 38</td>
<td>B</td>
</tr>
<tr>
<td>18-301</td>
<td>with silicone finger tip mat</td>
<td>152 x 63.5 x 19</td>
<td>E</td>
</tr>
<tr>
<td>18-301-1</td>
<td>with 2 special silicone plug-in inserts</td>
<td>152 x 63.5 x 19</td>
<td>E</td>
</tr>
<tr>
<td>18-302</td>
<td>with silicone finger tip mat</td>
<td>165 x 101 x 19</td>
<td>C</td>
</tr>
<tr>
<td>18-303</td>
<td>with silicone finger tip mat</td>
<td>190 x 101 x 19</td>
<td>B</td>
</tr>
<tr>
<td>18-303-1</td>
<td>with 4 special silicone plug-in inserts</td>
<td>190 x 101 x 19</td>
<td>B</td>
</tr>
<tr>
<td>18-304</td>
<td>with silicone finger tip mat</td>
<td>254 x 152 x 19</td>
<td>A</td>
</tr>
<tr>
<td>18-305</td>
<td>with silicone finger tip mat</td>
<td>254 x 152 x 38</td>
<td>A</td>
</tr>
<tr>
<td>18-305-1</td>
<td>with 3 special silicone plug-in inserts</td>
<td>254 x 152 x 38</td>
<td>A</td>
</tr>
<tr>
<td>18-307</td>
<td>for vitreoretinal/ microinscision tips</td>
<td>68.6 x 25.4 x 38</td>
<td>F</td>
</tr>
<tr>
<td>18-308</td>
<td>with mat</td>
<td>190.5 x 63.5 x 19</td>
<td>D</td>
</tr>
</tbody>
</table>

Reference Dimensions (LxWxH) Size

- 18-300: 190 x 101 x 38, B-medium
- 18-301: 152 x 63.5 x 19, E-small
- 18-301-1: 152 x 63.5 x 19, E-small
- 18-302: 165 x 101 x 19, C-square
- 18-303: 190 x 101 x 19, B-medium
- 18-303-1: 190 x 101 x 19, B-medium
- 18-304: 254 x 152 x 19, A-extra large
- 18-305: 254 x 152 x 38, A-extra large
- 18-305-1: 254 x 152 x 38, A-extra large
- 18-307: 68.6 x 25.4 x 38, F-very small
- 18-308: 190.5 x 63.5 x 19, D-long
## Sterilization Trays

<table>
<thead>
<tr>
<th>Tray Description</th>
<th>Dimensions</th>
<th>Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tray with 1 special silicone plug-in insert</td>
<td>190 x 101 x 38 mm</td>
<td>18-300</td>
<td>B - medium</td>
</tr>
<tr>
<td></td>
<td>7.5 x 4 x 1.5 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tray with silicone finger tip mat</td>
<td>152 x 63.5 x 19 mm</td>
<td>18-301</td>
<td>E - small</td>
</tr>
<tr>
<td></td>
<td>6 x 2.5 x 1.5 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tray with 2 special silicone plug-in inserts</td>
<td>152 x 63.5 x 19 mm</td>
<td>18-301-1</td>
<td>E - small</td>
</tr>
<tr>
<td></td>
<td>6 x 2.5 x 0.75 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tray with silicone finger tip mat</td>
<td>165 x 101 x 19 mm</td>
<td>18-302</td>
<td>C - Square</td>
</tr>
<tr>
<td></td>
<td>6.5 x 4 x 0.75 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tray with silicone finger tip mat</td>
<td>190 x 101 x 19 mm</td>
<td>18-303</td>
<td>B - medium</td>
</tr>
<tr>
<td></td>
<td>7.5 x 4 x 0.75 in</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For 4 vitreoretinal instruments
with special silicone plug-in inserts
190 x 101 x 19 mm
7.5 x 4 x 0.75 in
18-303-1 B - medium

Tray
with silicone finger tip mat
254 x 152 x 19 mm
10 x 6 x 0.75 in
18-304 A - extra large

Two racks tray
with silicone finger tip mat
two levels base and insert tray
254 x 152.4 x 38 mm
10 x 6 x 1.5 in
18-305 A - extra large

For 3 phaco handpieces
with special silicone plug-in inserts
254 x 152.4 x 38 mm
10 x 6 x 1.5 in
18-305-1 A - extra large

For vitreoretinal / microincisional tips
68.6 x 38 x 25.4 mm
3 x 1.5 x 1 in
18-307 F - very small

Tray
with mat
190.5 x 63.5 x 19 mm
7.5 x 2.5 x 0.75 in
18-308 D - long
Instructions for Use

Rumex instruments are designed in cooperation with top-of-the-notch surgeons from all over the world, and then manually crafted by highly qualified professionals under the precision microscopes and machines, and then a tungsten carbide and various covers are applied with a view to achieve the best functional characteristics possible. However, any device that is initially perfect can't remain its condition without proper handling and care. We at Rumex guarantee our instruments against manufacturing defects, and the lifespan of reusable instruments lies within proper handling and care. To help your instruments preserve its initial conditions, we strongly recommend you to read the instructions below carefully before use.

Inspection

It is essential that the instrument is inspected before use. Please conduct this inspection under a microscope or magnification lens. If a problem is detected, notify us immediately. Once the instrument is examined and accepted, it should be cleaned before placing it in the sterilizing tray.

Manual Cleaning

It is imperative to follow the next rules:

– as much moisture as possible must be eliminated from all of the instrument parts since moisture promotes corrosion of the instrument.

– only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in the cleaning process. The cleaning guidelines of the solution manufacturer and your institution should be observed.

– use a mild soap solution and with a soft brush to clean the instrument and remove any stains. Never use abrasive powders or steel wool to remove stubborn stains - these can damage the superfine finish of an instrument and can actually help cause corrosion of stainless instruments.

– use distilled or demineralized water to rinse instruments thoroughly, and then carefully dry them with a hot air blower or lint-free cloth.

Thorough cleaning immediately after use is essential for the longevity of the instrument. We recommend that the established surgical instrument cleaning procedures of your institution be followed using these instructions as a guideline.

Ultrasound Cleaning Equipment

An ultrasonic cleaner could also be used in the instrument cleaning process, but not as the sole cleaning method. The instrument should, at the very least, be flushed with distilled water prior to being placed in the ultrasonic cleaner. A five to ten minutes cycle in the ultrasonic cleaner should be sufficient. The instrument must be secured on a silicone finger mat during the ultrasonic cleaning procedure. Special care should be taken to make certain that the tip of the instrument does not come into contact with the sides of the ultrasonic container, as this could damage the instrument.

Lubrication

Moving parts and working mechanisms of the Rumex instruments should be lubricated occasionally with a medical grade instrument lubricant (especially after an ultrasonic bath) to ensure the smooth operation of the working mechanism. The recommended directions of the instrument lubricant manufacturer and your institution should be observed.

Storage

Surgical instruments should be stored in the sterilizing trays of proper size and lined with soft silicone mats. Instruments should not touch each other. We recommend using protective tips made of soft silicone tubing of the proper size and thickness. Do not use rubber or plastic protective tips, as they can melt during autoclaving and cause damage of instruments.

Sterilization

Stainless steel and titanium instruments can be sterilized via steam autoclaving, chemical disinfectants, ethylene oxide gas, or even dry hot air. Gas and dry chemical sterilization are the best methods for stainless steel instruments, but it takes a lengthy time period to accomplish the desired result. The most practical method of sterilization is heat or steam, which require less time, however, these methods can be damaging to delicate stainless steel instruments. Please, be sure that you and the members of your staff have read and understood the instructions supplied by the manufacturer of your particular sterilizer.
Sterilization Cycles

Finally, the instrument should be sterilized prior to the next surgical procedure. Rumex instruments can be sterilized using any of the following methods:

100% ETO cycles

<table>
<thead>
<tr>
<th>Parameter</th>
<th>100% ETO cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration ETO:</td>
<td>850±50mg/l</td>
</tr>
<tr>
<td>Temperature:</td>
<td>37ºC - 47ºC</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>3-4 hours</td>
</tr>
<tr>
<td>Humidity:</td>
<td>70% RH minimum</td>
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</table>

Steam Autoclaving

<table>
<thead>
<tr>
<th>Sterilizer Type:</th>
<th>Gravity Displacement Prevacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Config.:</td>
<td>wrapped</td>
</tr>
<tr>
<td>Temperature:</td>
<td>121ºC to 123ºC</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>15 to 30 minutes</td>
</tr>
<tr>
<td></td>
<td>132ºC to 135ºC</td>
</tr>
<tr>
<td></td>
<td>3 to 4 minutes</td>
</tr>
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</table>

'Flash' Autoclaving

<table>
<thead>
<tr>
<th>Sterilizer Type:</th>
<th>Gravity Displacement Prevacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
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</tr>
<tr>
<td>Exposure time:</td>
<td>132ºC</td>
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<tr>
<td>Humidity:</td>
<td>3 minutes</td>
</tr>
<tr>
<td></td>
<td>132ºC</td>
</tr>
<tr>
<td></td>
<td>3 minutes</td>
</tr>
</tbody>
</table>

The above-mentioned sterilization cycles represent the industry standards and should be capable of producing a sterile device. Due to variations in sterilization equipment and device bioburden in clinical use, Rumex International Co. is not able to provide specific cycle parameters. It is the responsibility of each user to perform the validation and verification of the sterilization cycle to ensure an adequate sterility assurance level for our products.

At the end of a surgical day

Instruments should be washed clean of all residues, dried and inspected after each use. Be sure to inspect every microsurgical instrument at the end of your surgical day. Please conduct this inspection under a microscope or magnification lens. If a damaged instrument is detected, repair or replace it. Washing, drying and inspecting the instrument under magnification helps to ensure that the instrument is kept in proper condition for the next surgical procedure.
Diamond Knives / Instruction for Use

Application

Ophthalmic microsurgical knives with diamond blades are used for cutting and dissection of tissues during ophthalmic, microvascular, neurological, and plastic surgery.

Usage conditions: hospital departments of surgery and ophthalmology at ambient air temperature from +10° to +35°C (+50° to +95°F) and relative air humidity at most 98%.

Characteristics

Blades are made from natural diamonds. Handles are manufactured from titanium alloy. Blade size: The width of the diamond blade cutting edge must be at most 0.2 µm. Blade points must be edged. Blade blunting radius must be at most 0.2 µm. No chips (visible at 100x power magnification) on the blade cutting edge are permitted. The average life span of knives is at least 3 years (or 200 cyclic processes).

Device

Diamond knife consists of a handle and a diamond blade. The handle is fitted with the mechanism providing blade installation and its safe fixation in operative and non-operative position.

The construction of a knife can be changed in order to improve its usability.

Completed Units

Each delivery complete set must contain:
- diamond knife – 1 unit
- a label – 1 unit
- care and cleaning instruction – 1 unit

Working Order

1. General requirements. Taking into consideration the fragility of the diamond blade, each knife is required to be handled, cleaned, and stored delicately. No blows or vibrations are permitted. Any contacts of the blade with other instruments or materials should be avoided.

2. Before using a knife make sure there are no chips on the cutting edge. A microscope with at least 100x power magnification should be used for the inspection.

3. When transporting diamond knives the blades must be fully hidden into the handles (non-operative position). We recommend the knives to be transported in sterilizing cases or special containers to avoid self-movement. Manufacturer provides a shipping clamp to avoid self-movement during transportation. When a knife is not used its blade must be hidden into the handle and protected from mechanical damage.

4. Please rotate the movable part of the handle clockwise and fix the blade to set the knife in operative position. The blade is to be set in the operative position during surgical operation just before the usage.

5. After the usage pull slightly the movable part of the handle downwards and rotate it counter clockwise to return the blade into the non-operative position. To avoid accidental movements of the spring please make sure the handle is fixed tightly. When a handle is fixed a slight click will be heard.

6. To install the knife with a micrometer pull the protective cap down and rotate the bottom part of the handle (with a scale) downwards – the blade will appear. Customize the depth of the blade by screwing the handle – the scale marks will indicate the chosen depth. The scale increment is 0.5 mm. Rotate the handle upwards then put on the protective cap to set the knife in the initial non-operative position.

The service life of instruments depends on delicate handling. Do not drop the instruments. The blade must never be in contact with foreign objects. The blade and moving-out spring mechanism need an extremely gentle treatment. Never disassemble the parts of a knife.

Presterilization Treatment and Sterilization

Presterilization treatment includes a number of procedures. Please remember to clean the blade and the movable part of the handle, remove blood, tissue debris and viscoelastic directly after the operation (or within 2 hours after it).

For Manual Cleaning:
- dip instruments into weak alkaline cleaning solution and keep for 60 minutes at a temperature of +22°C (+72°F);
- clean the handle of a knife (together with the movable part) with a soft brush;
- flush the instruments with flowing water for 0.5 minutes, then sluice with distilled water for other 0.5 minutes.

We recommend using a diamond knife cleaning pack (21-602-1) for gentle cleaning of the blade – the pack contains three solutions that eliminate residual debris of the blade and prepare it for sterilization.

Diamond knives can be cleaned in an automatic washer designed for micro-surgical instruments. Please follow the instruction of the manufacturer.

Do not use ultrasonic baths to wash diamond knives – the blade can be damaged.

Sterilization is achieved by means of saturated steam in a steam autoclave. Dry instruments in a drying cabinet by hot air convection at a temperature of +85°C (+185°F) until complete moisture removal. Sterilization is handled under the pressure up to 0.2 MPa at a temperature of +132°C (+270°F) for 20 minutes. The maximal temperature for sterilization is +141°C (+286°F). Make sure the blade is in the non-operative position before sterilization; self-movement must be avoided. We recommend to sterilize the knives in trays specially designed for diamond knives – silicone holders will fix them safely.

Various models of sterilizing machines are produced – please always follow the instruction provided by the manufacturer.
Storage

Diamond knives must be kept at a temperature from +10°C to +35°C (+50°F to +95°F) and relative air humidity at most 98%. Indoor air must not contain corrosive additive agents. The blade must be fully hidden into the handle (non-operative position); self-movement must be avoided. No blows or vibrations are permitted.

Manufacturer's Warranty

Manufacturer guarantees knives to be in accordance with the documentation when service and storage instructions are followed by the consumer.

We provide a 2 year guarantee for the moving-out spring mechanism and titanium parts. Diamond blade can be resharpened or exchanged according to the after-sale service program.

Reception Inspection

Incoming inspection is obligatory. It includes:
- visual examination of the package obtained (no mechanical damages are permitted);
- visual inspection of the knife (no mechanical damages such as cracks, chips, oxide scales etc. are permitted; all parts of the knife must be joined smoothly);
- a blade must be set into the operating/non-operating position without jamming; it must be fixed easily.

The knives you purchase are not sterile and should be sterilized before the first surgery. Please examine the blade before each operation and never use a knife in case any defect is noticed – we can always provide you with the resharpening or blade replacement.
Vitreoretinal / Microincisional Instruments

Rumex Instruments (ophthalmic scissors and forceps for vitreoretinal and microincisional surgery) are designed for various applications in ophthalmic surgery.

It is essential that the instrument should be cleaned and sterilized before initial use and after each surgery following as outlined in this instruction brochure.

Care and handling

Intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument malfunction. Proteins may also accumulate inside of the mechanism.

Make sure the cleaning procedure is implemented after each surgery - warranty shall not extend to instruments that have not been handled in the proper way.

Cleaning

1. Unscrew the tip from the handle, then attach flushing adapter 12-000T:
2. Flush the tip with distilled or deionized water by connecting syringe filled with water to adapter:
3. Flush the tip with alcohol. This will remove the water and facilitate drying.
4. Dry the tip by forcing one or two syringes full of air through tip. Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air. Thoroughly dry handle, tip and cup.
5. Force special thermoresistant instrument milk through the tip, as in No 2 above.
6. Dry with air as in No 4 above.
7. Handle should be soaked in distilled or deionized water for two minutes.
8. Dry with surgical sponge.
9. Lubricate joints in handle with instrument milk and work the mechanism by pressing the key.

Instrument detergents and/or cleaners

Only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in the cleaning process. The cleaning guidelines of the solution manufacturer and your institution should be observed.

Ultrasonic cleaning equipment

An ultrasonic cleaner could also be used in the instrument cleaning process, but not as the sole cleaning method. The instrument should, at the very least, be flushed with distilled water prior to being placed in the ultrasonic cleaner. A five to ten minutes cycle in the ultrasonic cleaner should be sufficient. The instrument must be secured on a silicone finger mat during the ultrasonic cleaning procedure. Special care should be taken to make certain that the tip of the instrument does not come into contact with the sides of the ultrasonic container, as this could damage the instrument.
Sterilization & Care

Lubrication
Moving parts and working mechanisms of Rumex instruments should be lubricated occasionally with a medical grade instrument lubricant (especially after an ultrasonic bath) to ensure the smooth operation of the working mechanism. The recommended directions of the instrument lubricant manufacturer should be observed.

Storage
Surgical instruments should be stored in the sterilizing trays of proper size lined with soft silicone mats. Instruments should not touch each other. We recommend using safety protectors made of teflon, which is autoclavable. Rumex International Co designed two models of safety protectors. The schemes below illustrate the way to fix a tip in a protector.

Sterilization
Stainless steel and titanium instruments can be sterilized via steam autoclaving, chemical disinfectants, ethylene oxide gas, or even dry hot air. Gas and dry chemical sterilization are the best methods for stainless steel instruments, but they take a lengthy time period to accomplish the desired result. The most practical method of sterilization is heat or steam, which require less time, however, these methods can be damaging to delicate stainless steel instruments. Please be sure that you and the members of your staff have read and understood the instructions supplied by the manufacturer of your particular sterilizer.

Sterilization cycles
Finally, the instrument should be sterilized prior to the next surgical procedure. Rumex instruments can be sterilized using any of the following methods:

100% ETO cycles:
Concentration ETO: 850±50mg/l
Temperature: 37°C - 47°C
Exposure time: 3-4 hours
Humidity: 70% RH minimum

Steam Autoclaving:

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<th>Sterilizer Type:</th>
<th>Gravity Displacement</th>
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<th>Gravity Displacement</th>
<th>Prevacuum</th>
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<tr>
<td>Sample Config.:</td>
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<td>wrapped</td>
<td>unwrapped</td>
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<td>Temperature:</td>
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<td>3 minutes</td>
<td>3 minutes</td>
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</table>

Flash' Autoclaving:

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Inspection
Be sure to inspect every microsurgical instrument at the end of your surgical day. Please conduct this inspection under a microscope or magnification lens. If a damaged instrument is detected, repair or replace it.
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