Ophthalmic Instruments Catalog + Consumables
Rumex International Co.

Who we are
Rumex International Co. is one of the leading manufacturers of surgical instruments for hand-held surgery with many of fices 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

## Specification 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](http://www.rumex.net)

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

## Trademarks
© All trademarks are property of their respective owners.

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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 Opératoire
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***

Guarantees

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 warantee 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 custom 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.

Please call customer service at 1-727-535-9600 for USA, Canada, Puerto Rico customers and +371 6616 3182 for International customers to obtain a Return Authorization Number prior to returning instrument(s). Please make sure instruments are sterilized before shipping back to us.

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://rumex.net/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.

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**Customer**: 

**Reference #**

**Description**: 

**Reason for Return (Please specify the defect)**: 

**Purchase date**: 

**Invoice #**: 

**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.*

**Date product received at Rumex International Co.: ______**

**Product complete?** □ Yes □ No If no, item(s) missing: 

**Product Disposition**

□ Return to stock □ Repair and return to customer

□ Repair and return to stock □ Scrap

□ Other: ______

**Dispositioned by:** ______________________________________________________________________

Signature ____________________ Date ____________________

*Fields filled by the Customer*
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Consumables
Cataract, Refractive, Corneal transplantation

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

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<th>Name</th>
<th>Hydro-Sense Aspheric</th>
<th>Hydro-4 Aspheric</th>
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<tr>
<td><strong>Type</strong></td>
<td>Foldable lens – Single-piece</td>
<td></td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Hydrophilic acrylic. Clear</td>
<td></td>
</tr>
<tr>
<td><strong>Design of the optical edge</strong></td>
<td>Double square-edge</td>
<td></td>
</tr>
<tr>
<td><strong>Optic Type</strong></td>
<td>Aspheric</td>
<td></td>
</tr>
<tr>
<td><strong>Optic size</strong></td>
<td>6.0 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Overall Diameter</strong></td>
<td>12.5 mm</td>
<td>11.0 mm</td>
</tr>
<tr>
<td><strong>Number of haptics</strong></td>
<td>2</td>
<td>4</td>
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### 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><strong>Type</strong></td>
<td>Foldable lens – Single-piece</td>
<td></td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Hydrophobic acrylic. Clear</td>
<td>Hydrophobic acrylic. Yellow</td>
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<tr>
<td><strong>Design of the optical edge</strong></td>
<td>Double square-edge</td>
<td></td>
</tr>
<tr>
<td><strong>Optic Type</strong></td>
<td>Aspheric</td>
<td></td>
</tr>
<tr>
<td><strong>Optic size</strong></td>
<td>6.0 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Overall Diameter</strong></td>
<td>13 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Number of haptics</strong></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Min. incision size</strong></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

<table>
<thead>
<tr>
<th>Overall Diameter:</th>
<th>13.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optic Diameter:</td>
<td>6.0 mm</td>
</tr>
</tbody>
</table>

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.
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)

- **R1-40400** Orange handle. For cataract surgery. Pack of 5/box of 90
- **R2-40405** Orange handle. For cataract surgery. Can be used for LASIK. Pack of 10/box of 180
- **R1-40401** For cataract surgery. Pack of 5/box: 90
- **R1-40406** For cataract surgery. Pack of 10/box: 180

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

- **R1-40410** Orange handle. For cataract surgery. Pack of 5/box: 100
- **R1-40415** Orange handle. For cataract surgery. Pack of 10/box: 200
- **R1-40411** For cataract surgery. Pack of 5/box: 100
- **R1-40416** For cataract surgery. Pack of 10/box: 200

---

**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
Interfacial tension  43.2 mN/m (1) at 37°C
Density  0.97 g/cm³
Viscosity  1000 cSt / 5000 cSt
Refractive index  1.4
Volatility  0.06%
Polydispersity  2.33
Elements potentially toxic  < 3 ppm
Low molecular weights  D4–D9: < 24 ppm
D10–D20: ≤ 4 ppm

SmartSil 1000  1000 cSt
SmartSil 5000  5000 cSt

Tubings for syringes are available upon request

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

Not available in the US

Product and specifications are subject to change without notice
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:
- Oerlii® 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
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Anterior Segment Instruments
Cataract, Refractive, Corneal transplantation

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

**Microcoaxial Forceps**

Capsulorhexis 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 Capsulorhexis 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&quot; 1.10 mm</td>
</tr>
<tr>
<td>20Ga</td>
<td>0.036&quot; 0.90 mm</td>
</tr>
<tr>
<td>21Ga</td>
<td>0.032&quot; 0.80 mm</td>
</tr>
<tr>
<td>22Ga</td>
<td>0.028&quot; 0.70 mm</td>
</tr>
<tr>
<td>23Ga</td>
<td>0.025&quot; 0.63 mm</td>
</tr>
<tr>
<td>24Ga</td>
<td>0.022&quot; 0.55 mm</td>
</tr>
<tr>
<td>25Ga</td>
<td>0.020&quot; 0.50 mm</td>
</tr>
<tr>
<td>26Ga</td>
<td>0.018&quot; 0.45 mm</td>
</tr>
<tr>
<td>27Ga</td>
<td>0.016&quot; 0.40 mm</td>
</tr>
<tr>
<td>28Ga</td>
<td>0.014&quot; 0.36 mm</td>
</tr>
<tr>
<td>29Ga</td>
<td>0.013&quot; 0.33 mm</td>
</tr>
<tr>
<td>30Ga</td>
<td>0.012&quot; 0.30 mm</td>
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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!
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.

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

**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
- Compatible with Squeeze Handle 12-003T (see p.4)

4-03771* 23/25 Ga

*Handles are sold separately!

**Lesieur**

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

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied.
**Small/Micro Incision Instruments**

**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

4-0371* 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**

Capsulorrhexis Forceps with Micro Jaws
- The internal laser marks allow to measure the size of rrhexis
- 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*
**SMALL/MICRO INCISION INSTRUMENTS**

---

**Anterior**

**Ikeda**

**Most Popular**

**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

**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 andaptic
  - Compatible with Squeeze Handle 12-003T

4-2145* 21 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

---

*Handles are sold separately!*
**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

- **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**

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

- **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** Most Popular
- Temporal
  - “V” style open blades
  - 14-080 A adult
  - 14-082 A child

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

**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*
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

**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
- Flat branches
- Titanium
- Overall length 71 mm

14-0401TK  adult

**Lieberman Style**
- Temporal
- Kratz style open blades
- Flat branches
- Titanium
- Overall length 76 mm

14-0401TL  adult

**Lieberman Style for LASIK**
- Temporal
- Round branches
- Titanium
- Overall length 71 mm

14-0401TL  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*
Nasal Speculums Lieberman Style

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

14-041T adult
14-043T child

**Lieberman Style**
- Nasal
- "V" style open blades
- Flat 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)

Wire Speculums

- **Barraquer**
  - Closed wire rounded blades
  - Stainless steel
  - 14-022S adult (14mm blades)
  - 14-023S child (11mm blades)
  - 14-024S infant (10mm blades)
  - 14-0244S 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

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

**Castroviejo**
- Caliper
- Measures from 0 to 20 mm
  - Scale is engraved on both sides
  - Polished finish
  - Overall length 87 mm
- 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
- 2-062S 1.0-2.5 mm

**Maloney**
- Intraoperative Keratometer
  - For qualitative measurement of astigmatism
- 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
2-0311T 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°
- Dull finish
  Titanium

2-030T
- ID 13mm/ ED 19mm
- Overall length 134 mm

2-0331T
- With 4 grooves for better marks visualization
- ID 13mm/ ED 16.5mm
- Overall length 122 mm

**Axis Markers**
Used with Mendez and LRI Gauges (2-0311T, 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

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
New! GROOVED FINE MENDEZ DEGREE GAUGE AND BORES AXIS MARKER

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
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
3-0210T 4.75 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

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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’ and 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 cyclotorsion
  - Gravity weight system assures excellent visualization and balance
  - Internal diameter 11 mm/external diameter 14 mm
  - Overall length 155 mm

3-193
3-1931

**Whitehouse**
- **Gravity Axis Marker II**
  - **Pre-Op**
  - Marks the cornea at 3, 6 and 9 o’clock
  - Helps to avoid the effect of cyclotorsion
  - Gravity weight system assures excellent visualization and balance
  - Internal diameter 9.5 mm/external diameter 12 mm
  - Overall length 153 mm

3-1932

**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
3-1941

*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 capsulorrhesis
- 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

*Designed in cooperation with Jesse Richman, M.D., USA*

*Designed in cooperation with Jaime Velasquez O'Byrne, M.D., Colombia*

*Gravity weight is at the back of the marker, precisely stabilizes the scale not interfering with your grip*
Blade Holders

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

*Most Popular*

1-010T

**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

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

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

Most Popular

Keywords:
- Angled Knurled Handle, Titanium
- Overall Length – 130 mm
- Used for making a Tunnel Incision

Knives for MICS

Trapezoid Self-Diving Blades
6-20/6-100 – 1.90/2.50 mm width
6-20/6-101 – 2.70/3.20 mm width
6-20/6-102 – 3.00/3.50 mm width
6-20/6-104 – 2.30/2.80 mm width
6-20/6-105 – 2.60/3.00 mm width
6-20/6-107 – 2.00/2.30 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

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

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

Pre-Set LRI Knives
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
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

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

Universal Scissors
- Round handle
- Blunt tips
  Overall length 110 mm
Stainless Steel
11-034S 7.5 mm blades
11-035S 11 mm blades (shown)

DLEK

Corneal Transplant Scissors
- Long blades
  For the removal of the posterior cornea
  Overall length 102/110 mm
Stainless Steel
11-036S Medium curve
11-0361S Strong curve

DALK

Corneal Transplant Scissors
- Blades with blunt legde
  (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 102/110 mm
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

Iris Scissors
- Pointed tips 28 mm
- Ring handle
  Overall length 125 mm
  Stainless Steel
11-080S  Straight (shown)
11-081S  Curved

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**

Tenotomy Scissors
- Curved
- 13 mm blades
- Blunt tips
  Overall length 115 mm
  Stainless Steel

11-040S

**Westcott**

Tenotomy Scissors
- Curved
- 16 mm blades
- Blunt tips
  Overall length 120 mm
  Stainless Steel

11-042S

**Westcott**

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

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

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

<table>
<thead>
<tr>
<th>4-030T</th>
<th>Regular tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0300T</td>
<td>Cystotome tips</td>
</tr>
<tr>
<td>4-0300S</td>
<td>Cystotome tips</td>
</tr>
</tbody>
</table>

**Utrata**

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

<table>
<thead>
<tr>
<th>4-0301T</th>
<th>Cystotome tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0301S</td>
<td>Cystotome tips</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>4-0311T</th>
<th>Cystotome tips (shown)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-031T</td>
<td>Regular tips</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>4-03114T</th>
<th>2 engravings at 3.6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-03115T</td>
<td>6 engravings at 1,2,3,4,5,6 mm</td>
</tr>
</tbody>
</table>
Capsulorrhexis Forceps

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

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

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

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

Inamura Type
Rumex Capsulorrhexis Forceps
- Curved jaws
- Designed to fit through incisons 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

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

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**

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**

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

- Wide Forceps
  - Smooth jaws
  - Overall length 85 mm
  - Titanium
  - 4-043T

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
  - 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
  - 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

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**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
- Tying platform, 5 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

4-055T 1x2 teeth 0.12mm (shown)
4-056T 1x2 teeth 0.3 mm
4-057T 1x2 teeth 0.5mm

*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 Straight
  - 4-072T Curved

*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

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

Steinert
- Paddle Lens Folding Forceps
  - Angled shafts
  - Overall length 110 mm
  - Titanium
  4-2107T

Faulkner
- Lens Holding Forceps
  - Angled shafts
  - Smooth jaws
  - Overall length 105 mm
  - Stainless Steel
  4-2108S

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

Acrylic Lens
- 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
- 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

Crocodile Type Intraocular Forceps For Foldable Lens Removal
- Curved shaft
- To remove silicone or acrylic IOL in case of complications
  Compatible with Squeeze Handle 12-003T

4-2150*  20Ga

Rowen Rescue Kit Scissors

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*  19Ga

* Handles are sold separately!

Rumex

Foldable Lens Cutter
- Designed to cut and remove all types of foldable intraocular lens through a small incision.
- Upper blade of the scissors has three bevels for effective cutting and grasping of the IOL.
- Squeeze Titanium Handle
  Overall length 112 mm

4-21731

Rumex

Foldable Lens Removing Forceps
- Designed to grasp and remove all types of foldable intraocular lens through a small incision
- Squeeze Titanium Handle
  Overall length 110 mm

4-21741

Osher

IOL Scissors
- To cut Silicone or Acrylic IOL in case of complications
- 6 mm long blades with serration to fixate the lens
  Overall length 91 mm
  Stainless steel

4-2175S

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
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 gaptic
  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 straight (shown)  
4-121S curved

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

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Teeth</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0600S</td>
<td>1x2 teeth, 0.12 mm</td>
<td></td>
<td>110 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0600T</td>
<td>1x2 teeth, 0.12 mm</td>
<td></td>
<td>108 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0601S</td>
<td>1x2 teeth, 0.3 mm</td>
<td></td>
<td>108 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0610T</td>
<td>1x2 teeth, 0.3 mm</td>
<td></td>
<td>108 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0602S</td>
<td>1x2 teeth, 0.5 mm</td>
<td></td>
<td>108 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0602T</td>
<td>1x2 teeth, 0.5 mm</td>
<td></td>
<td>108 mm</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

**Paufique**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Teeth</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0606T</td>
<td>(shown)</td>
<td></td>
<td>86 mm</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>4-0606S</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bishop-Harmon**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Teeth</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0607S</td>
<td></td>
<td></td>
<td>86 mm</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

**Moorfields**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Teeth</th>
<th>Length</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-2303T</td>
<td></td>
<td></td>
<td>110 mm</td>
<td>Titanium</td>
</tr>
</tbody>
</table>

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, 4 mm  
- **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  
- Standard handle  
  Overall length 84 mm  
  Titanium or Stainless Steel

- **4-171T**  
- **4-171S**

---

**McPherson**  
Tying Forceps  
- Angled  
- Long handle  
- Standard 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**

---

**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
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

5-021

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

5-030
5-0301 Angled (shown)
5-0301 Straight

**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

5-031

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

5-032
5-0321 Angled (shown)
5-0321 Straight

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

5-0322

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
5-0331

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)
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
Overall length 122 mm
Titanium
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
- 2.5 mm 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

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

**Barraquer**

Needle Holder
- Curved
- Strong jaws, 13.5 mm
  - Overall length 125 mm
  - Titanium

8-090T with lock
8-091T 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 105mm
  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
  (Poly-propylene 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* 23Ga

* Handles are sold separately!

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

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
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)
7-127FS RHD, Stainless steel
7-1271 LHD, Titanium handle
7-1271S 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

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

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

- **7-130 RHD**

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

- **7-1361 RHD**

**Axe Quick Chopper**
Overall length 120 mm

- **7-135**

Capsule polishers

**Anterior / Posterior**

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

- **7-101**

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

RUMEX INSTRUMENTS FOR CATARACT SURGERY

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 4sub – 2-mm incision
- Texturized tip for delicate and efficient capsule polishing
- Curved tube for better visualization
- 23 Ga x 25 mm

15-170

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

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

7-080/I AH

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  Most Popular
- 2x0.35 mm side ports

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

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

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

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

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**
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
**DISPOSABLE SYSTEMS - PRELOADED**

**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.

* 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
- Rounded open blades
  Most Popular
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 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

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.

**Whitehouse**

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

**Bores**

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

**Whitehouse**

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

**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

**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

**New**

**3-193**    Angled shaft
**3-1931**    Straight shaft
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

20 Ga

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

**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 105 mm
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

- **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
- **16-0307** 8.0 mm
- **16-0308** 8.25 mm
- **16-0309** 8.5 mm
- **16-0310** 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

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

13-171
13-172
15-450-27
11-036S medium curve
11-0361S strong curve
13-160
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
- 0.6mm diameter head
- Bullet-shaped tip
- 0.3mm x 0.6mm 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 1.0 mm burrs
  16-143B 0.5 mm 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
  16-050-3.5 with 3.5 mm round medium diamond dusted burr
  16-050-5.0 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
  16-052-5.0B - 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

Puttermann

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
LACRIMAL INSTRUMENTS

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
- 4.5mm flat hook
  Overall length 140mm
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

View all our posterior segment products at www.rumex.net
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 (inch)</th>
<th>Outer Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19g</td>
<td>0.043</td>
<td>1.10</td>
</tr>
<tr>
<td>20g</td>
<td>0.036</td>
<td>0.90</td>
</tr>
<tr>
<td>21g</td>
<td>0.032</td>
<td>0.80</td>
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<tr>
<td>22g</td>
<td>0.028</td>
<td>0.70</td>
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<tr>
<td>23g</td>
<td>0.025</td>
<td>0.63</td>
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<tr>
<td>24g</td>
<td>0.022</td>
<td>0.55</td>
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<td>25g</td>
<td>0.020</td>
<td>0.50</td>
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<td>26g</td>
<td>0.018</td>
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<td>27g</td>
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<td>28g</td>
<td>0.014</td>
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<td>29g</td>
<td>0.013</td>
<td>0.33</td>
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<tr>
<td>30g</td>
<td>0.012</td>
<td>0.30</td>
</tr>
</tbody>
</table>

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**

- Scissors
  - PINK
- Forceps
  - GREEN

**GAUGE**

- 17
  - GREY
- 20
  - PINK
- 23
  - GREEN
- 25
  - BLUE
- 27
  - YELLOW

**COMPATIBILITY (adjustable to handles)**

- 12-001T
  - PINK
- 12-001T / 12-003T
  - BLUE

* 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

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

* Tips are sold separately!

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
### Standard Scissors*
- Designed for cutting membranes and junction zones of the proliferative tissue

<table>
<thead>
<tr>
<th><strong>Horizontal Scissors</strong></th>
<th><strong>Type</strong></th>
<th><strong>Angle</strong></th>
<th><strong>Gauge</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Scissors</td>
<td>70 Degrees</td>
<td>Sharp tips</td>
<td>20 Ga</td>
</tr>
<tr>
<td>Horizontal Scissors</td>
<td>55 Degrees</td>
<td></td>
<td>20 Ga</td>
</tr>
<tr>
<td>Klaus Lucke Retinotomy Scissors</td>
<td>With bulbous tip</td>
<td>70 Degrees</td>
<td>23 Ga</td>
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<tr>
<td>Vertical Scissors</td>
<td>45 Degrees</td>
<td></td>
<td>25 Ga</td>
</tr>
<tr>
<td>Straight Scissors</td>
<td>Blunt tips</td>
<td></td>
<td>20 Ga</td>
</tr>
<tr>
<td>Curved Subretinal Scissors</td>
<td>Curvature radius 12 mm</td>
<td>55 Degrees</td>
<td>20 Ga</td>
</tr>
</tbody>
</table>

### Illuminated Scissors*

<table>
<thead>
<tr>
<th><strong>Horizontal Scissors</strong></th>
<th><strong>Type</strong></th>
<th><strong>Angle</strong></th>
<th><strong>Gauge</strong></th>
</tr>
</thead>
<tbody>
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<td>12-208</td>
<td>Angled 45 Degrees</td>
<td>Regular blades 2.2 mm in the closed position</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-2085</td>
<td>Angled 45 Degrees</td>
<td>Short blades 1.7 mm in the closed position</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-208</td>
<td>Angled 45 Degrees</td>
<td>Regular blades 2.2 mm in the closed position</td>
<td>20 Ga</td>
</tr>
</tbody>
</table>

### Curved Subretinal Scissors

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th><strong>Gauge</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>12-209</td>
<td>20 Ga</td>
</tr>
<tr>
<td>12-209-23</td>
<td>23 Ga</td>
</tr>
<tr>
<td>12-2099</td>
<td>25 Ga</td>
</tr>
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</table>

### Side Curved Scissors

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th><strong>Gauge</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>12-215</td>
<td>20 Ga</td>
</tr>
</tbody>
</table>

*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»

![Epiretinal Forceps Diagram]

**Most Popular**

**Diamonized Gripping Forceps**
- 12-301 20 Ga
- 12-301-23 23 Ga
- 12-3019 25 Ga

**End Gripping Forceps**
- With serrated micro jaws
- 12-400 20 Ga

**Lucke Multipurpose Forceps**
- 12-3044 20 Ga

**End Gripping Forceps**
- With extended gripping area at the end of the tip
- 12-401 20 Ga
- 12-4012 23 Ga

**«Crocodile» Gripping Forceps**
- 12-304 20 Ga
- 12-304-23 23 Ga
- 12-304-25 25 Ga

**«Nail» End Gripping Forceps**
- 12-402 20 Ga
- 12-402-23 23 Ga
- 12-4089 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*
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

Tano Asymmetrical End Gripping Forceps
12-411 20 Ga
12-411-23 23 Ga
12-411-25 25 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
Enhanced visualization!

Tanaka Maculorhexis Forceps
12-414 23 Ga

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

Kawai ILM Forceps
12-415 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
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

*Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied*
Delicate Membrane Pick
13-097-23  23 Ga
13-097-25  25 Ga
13-097-27  27 Ga

Membrane Scratcher
13-092    20 Ga

Ogura PVD Spatula
13-1081-23  23 Ga

BRVO Knife
Designed for performing a lateral CRVO incision
13-1091    20 Ga
13-1091-23  23 Ga

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

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

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

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

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

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

**“Crocodile” Gripping Forceps**
- 12-304-23 23 Ga

**“Nail” End Gripping Forceps**
- 12-402-23 23 Ga

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

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

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

- 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*

Enhanced visualization!

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

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

Pick Forceps
12-3259  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

End Grasping Forceps
12-420-25  25 Ga

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

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

**Eckardt End Gripping Forceps**
- J-410
- J-410-23

**End Grasping Forceps**
- 12-420-27

*Enhanced visualization!*

Universal Handle + Interchangeable Tips (non-rotatable)*

**Eckardt End Gripping Forceps**
- J-410
- J-410-23
- J-410-25

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

**Curved Subretinal Scissors**
- J-209-23
- J-2099

**Fine End Gripping Forceps**
- J-4089

*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
12-5189   23 Ga - 1 set per box
12-5190   23 Ga - 5 sets per box

Closure Valves
For Trocar Cannulas
The set includes:
- Closure Valves – 4 ea
Sterile, 1 set per box
12-5209   23 Ga

Angled
MVR Blade
Sterile, 6 per box
12-5184   23 Ga

Scleral plugs
Ergonomically designed holder
Sterile, 5 holders per box
12-5085   19 Ga - 4 ea, 20 Ga - 4 ea
12-5078   19 Ga - 2 ea, 20 Ga - 2 ea

Scleral Plugs Forceps
Cross action mechanism reduces hand fatigue
1 forceps per package
12-5086S   20 Ga
Disposable Trocar Systems

New design!

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
## Vitreoretinal

### Reusable / Anterior

#### 12-5050

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Models</th>
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<tr>
<td>Alcon</td>
<td>Legacy™, STTO™, STTM™, Universal™</td>
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<tr>
<td>AMO</td>
<td>Sovereign™, Signature™, AMO Plus™, Prestige™</td>
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<tr>
<td>Staar Surgical</td>
<td>Wave™</td>
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<tr>
<td>Surgical Design</td>
<td>Ocusystem™</td>
</tr>
<tr>
<td>American Optisurgical</td>
<td>Horizon™</td>
</tr>
<tr>
<td>Nidek</td>
<td>CV-12000™, CV-6000™, CV-7000™</td>
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- 800 CPM
- 20 PSI
- 20 Ga
- With Irrigation Sleeve

#### 12-5102

<table>
<thead>
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<th>Vendor</th>
<th>Models</th>
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<td>Gemini™</td>
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<tr>
<td>B&amp;L</td>
<td>Stellaris™, Millennium™, Premiere™, Prestige™</td>
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<tr>
<td>Optikon</td>
<td>Pulsar 2™, Assistant™</td>
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<td>Croma Pharma</td>
<td>Corneal™, Open Phaco™</td>
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<td>Carl Zeiss Meditec</td>
<td>IOL Tech™, Fritz Ruck™, Pentasys™</td>
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<td>Carl Zeiss</td>
<td>Visalis 100™</td>
</tr>
<tr>
<td>Medical Technical Products</td>
<td>Mediphacos™</td>
</tr>
<tr>
<td>Nidek</td>
<td>CV-24000™</td>
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</table>

- 800 CPM
- 25 PSI
- 20 Ga
- Without Irrigation Sleeve

#### 12-5070

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Models</th>
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<td>AMO</td>
<td>Sovereign™, Signature™, AMO Plus™, Prestige™</td>
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<tr>
<td>Staar Surgical</td>
<td>Wave™</td>
</tr>
<tr>
<td>Surgical Design</td>
<td>Ocusystem™</td>
</tr>
<tr>
<td>American Optisurgical</td>
<td>Horizon™</td>
</tr>
<tr>
<td>Nidek</td>
<td>CV-12000™, CV-6000™, CV-7000™</td>
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</tbody>
</table>

- 800 CPM
- 20 PSI
- 20 Ga
- Without Irrigation Sleeve

#### 12-5119

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Models</th>
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<td>B&amp;L</td>
<td>Stellaris™, Millennium™, Premiere™, Protégé™</td>
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<tr>
<td>Optikon</td>
<td>Pulsar 2™, Assistant™</td>
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<tr>
<td>Croma Pharma</td>
<td>Corneal™, Open Phaco™</td>
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<td>Carl Zeiss Meditec</td>
<td>IOL Tech™, Fritz Ruck™, Pentasys™</td>
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<td>Carl Zeiss</td>
<td>Visalis 100™</td>
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<td>Medical Technical Products</td>
<td>Mediphacos™</td>
</tr>
<tr>
<td>Nidek</td>
<td>CV-24000™</td>
</tr>
</tbody>
</table>

- 800 CPM
- 25 PSI
- 20 Ga
- With Irrigation Sleeve

#### 12-5143

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Models</th>
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<tbody>
<tr>
<td>Alcon</td>
<td>Accurus™, Infiniti™ – Anterior Vitrectomy Pack</td>
</tr>
<tr>
<td>DORC</td>
<td>Harmony Total TTC™</td>
</tr>
</tbody>
</table>

- 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

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

### Reusable / Posterior

#### 12-5065
- **Alcon**: Accurus™
- **DORC**: Harmony Total TTC™

<table>
<thead>
<tr>
<th>800 CPM</th>
<th>30 PSI</th>
<th>20 Ga</th>
<th>Without Irrigation Sleeve</th>
</tr>
</thead>
</table>

#### 12-5026
- **Alcon**: STTO™, Ocutome 800/8000™
- **Nidek**: CV-12000™

<table>
<thead>
<tr>
<th>800 CPM</th>
<th>20 PSI</th>
<th>20 Ga</th>
<th>Without Irrigation Sleeve</th>
</tr>
</thead>
</table>

#### 12-5100
- **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™

<table>
<thead>
<tr>
<th>800 CPM</th>
<th>25 PSI</th>
<th>20 Ga</th>
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</tr>
</thead>
</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*
Vitreoretinal

VITRECTOMY CUTTERS

Disposable / Anterior

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

12-5118
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 With Irrigation Sleeve

12-5142
Alcon®: Accurus™,
Infiniti™ – Anterior Vitrectomy Pack
DORC®: Harmony Total TTC™
Packaged with 21Ga Irrigation Cannula
Nidek®: CV-24000™

800 CPM 30 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

12-5208
Alcon®: Legacy™, STTO™, STTM™, Universal™
AMO®: Sovereign™, Signature™, Prestige™,
AMO Plus™, Staar Surgical®: Wave™
Nidek®: CV-12000™, CV-6000™, CV-7000™

800 CPM 30 PSI 20 Ga Without Irrigation Sleeve

Sterile
One per package

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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

1500–2500 CPM 25 PSI 20 Ga Without Irrigation Sleeve

12-5215
DORC®: Harmony Total TTC™

1500 CPM 25 PSI 20 Ga Without Irrigation Sleeve

Sterile
One per package

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

VITRECTOMY CUTTERS

Disposable / 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®: 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
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

12-5157

Alcon®: Accurus™
DORC®: Associate™

12-5216

DORC®: Harmony Total TTC™

Irrigation Sleeves

Disposal Irrigation Sleeve
5 per package
12-5035

Reusable Irrigation Sleeve
1 per package
12-5034

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
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

- 12-5151   20 Ga
- 12-5164   23 Ga
- 12-5156   25 Ga
- 12-5492   27 Ga

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

- 12-5017   20 Ga
- 12-5162   23 Ga
- 12-5160   25 Ga

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

- 12-5063   20 Ga
- 12-5161   23 Ga
- 12-5152   25 Ga
- 12-5491   27 Ga

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

- 12-5193   20 Ga
- 12-5192   23 Ga

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
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>
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<tbody>
<tr>
<td>12-5066</td>
<td>20Ga (0.90 mm), 2.5 mm</td>
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<tr>
<td>12-5010</td>
<td>20Ga (0.90 mm), 4.0 mm</td>
</tr>
<tr>
<td><strong>12-5011</strong></td>
<td><strong>20Ga (0.90 mm), 6.0 mm</strong></td>
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Reusable

<table>
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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>12-024</td>
<td>20Ga (0.90 mm), 2.5 mm</td>
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<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>
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Silicone Oil Infusion Cannula
Disposable, 5 per box

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

6.0 mm tip Stainless Steel Metal Hub

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

Dual Bore BSS Injection Needle
Enables to control subretinal injection of BSS
Dual bore cannula combined with aspiration capability
Disposable, 1 per box
12-5194  20Ga / 41Ga (0.10 mm) tip

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

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>12-5072 20 Ga</td>
<td>12-5073 20 Ga</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-5177 23 Ga</td>
<td>12-5178 23 Ga</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-5135 25 Ga</td>
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<tr>
<td>B&amp;L®</td>
<td>12-5076 20 Ga</td>
<td>12-5077 20 Ga</td>
<td>–</td>
<td></td>
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<tr>
<td></td>
<td>12-5179 23 Ga</td>
<td>12-5180 23 Ga</td>
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<tr>
<td></td>
<td>12-5138 25 Ga</td>
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<tr>
<td>Ocutome®</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>12-5163 23 Ga</td>
<td>12-5169 23 Ga</td>
<td>12-5210 23 Ga</td>
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<tr>
<td></td>
<td>12-5126 25 Ga</td>
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</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)

**Physicochemical properties:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Interfacial tension at 37°C</td>
<td>43.2 mN/m</td>
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<tr>
<td>Density</td>
<td>0.97 g/cm³</td>
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<tr>
<td>Viscosity</td>
<td>1000 cSt / 5000 cSt</td>
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<tr>
<td>Refractive index</td>
<td>1.404</td>
</tr>
<tr>
<td>Volatility</td>
<td>0.06%</td>
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<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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<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>

Solvent Free

Tubings for syringes are available upon request

Not available in the US
Silicone Oil Infusion Systems

Reusable Tubing System for the Infusion of Silicone Oil

Caprolon Adapter adjustable to:
- ioltech® Pentesys™
- Optikon® Antares™
- Alcon® STTO™
- Storz® Premiere™
- DORC® Harmony Budget™

12-RTUB-1

DORC® Associate™
- Alcon® Constellation™,
- Accurus™

12-RTUB-2

Caprolon 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

View all our sets products at www.rumex.net
Irrigating Cannulas

Irrigating Cannula
Straight Blunt Tip, Polished
For atraumatic brushing of retina

<table>
<thead>
<tr>
<th>Code</th>
<th>Ga x Length</th>
</tr>
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<tbody>
<tr>
<td>15-049-20</td>
<td>20Ga x 25mm</td>
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<tr>
<td>15-049-23</td>
<td>23Ga x 25mm</td>
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<td>15-049-25</td>
<td>25Ga x 25mm</td>
</tr>
<tr>
<td>15-049-30</td>
<td>30Ga x 25mm</td>
</tr>
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</table>

Anterior Chamber Cannulas

Rycroft
Anterior Chamber Cannula
4 mm bend length
Angled 45°

<table>
<thead>
<tr>
<th>Code</th>
<th>Ga x Length</th>
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<tbody>
<tr>
<td>15-051-23</td>
<td>23Ga x 22mm</td>
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<tr>
<td>15-051-25</td>
<td>25Ga x 22mm</td>
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<tr>
<td>15-051-27</td>
<td>27Ga x 22mm</td>
</tr>
<tr>
<td>15-051-30</td>
<td>30Ga x 22mm</td>
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</tbody>
</table>

Rycroft
Anterior Chamber Cannula
6 mm bend length
Angled 45°

<table>
<thead>
<tr>
<th>Code</th>
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<td>23Ga x 22mm</td>
</tr>
<tr>
<td>15-052-27</td>
<td>27Ga x 22mm</td>
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</tbody>
</table>

Rycroft
Anterior Chamber Cannula
8 mm bend length
Angled 45°

<table>
<thead>
<tr>
<th>Code</th>
<th>Ga x Length</th>
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<tbody>
<tr>
<td>15-053-23</td>
<td>23Ga x 22mm</td>
</tr>
<tr>
<td>15-053-27</td>
<td>27Ga x 22mm</td>
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</tbody>
</table>

Bishop Harmon
Anterior Chamber Cannula
8 mm from end
Angled 40°, spatulated

<table>
<thead>
<tr>
<th>Code</th>
<th>Ga x Length</th>
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<tbody>
<tr>
<td>15-055-19</td>
<td>19Ga x 25mm</td>
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</table>

Bracken
Anterior Chamber Cannula
Curved 90°, Flattened bevel tip

<table>
<thead>
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<th>Code</th>
<th>Ga x Length</th>
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</thead>
<tbody>
<tr>
<td>15-057</td>
<td>19Ga x 23mm</td>
</tr>
</tbody>
</table>

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
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

Retrobulbar Needle
Sharp Point
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
**Sub-Tenon’s**
Anesthesia Cannula
Curved, Flattened Tip
Front Opening

**Kelman**
Sharp Irrigating Cystotome
Curved sharp cutting edge

**Knolle-Pearse**
Irrigating Vectis
3 irrigating ports at 12, 10 and 2 O’clock
Loop 5 mm wide, 9 mm long

**Drews**
Irrigating Vectis
Posterior capsule polisher lightly angled,
Sand blasted base irrigating port facing inside circle 25Ga

**Anis**
Irrigating Vectis
Two front opening ports, heart shaped loop

**Simcoe**
Nucleus Delivery Cannula
With serrations

*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
### 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Length x Diameter</th>
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</thead>
<tbody>
<tr>
<td>15-170</td>
<td>23Ga x 25mm</td>
</tr>
</tbody>
</table>

### Graether

Collar Button
Micro Iris retractor sand blasted posterior surface for capsule polishing side irrigation

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>15-171S</td>
<td>23Ga x 25mm, Straight</td>
</tr>
<tr>
<td>15-172</td>
<td>23Ga x 25mm, Angled</td>
</tr>
</tbody>
</table>

### Pearce

Capsule Polisher
Olive Tip, 0.3 mm top port micro sand blasted

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>15-1157-23</td>
<td>25Ga x 25mm</td>
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</tbody>
</table>

### Rainin

Nucleus Hydrodissector
Spatulatated on horizontal plane
Angled 45°, bend 7mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Length x Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-069-30</td>
<td>30Ga x 22mm</td>
</tr>
<tr>
<td>15-070</td>
<td>27Ga x 22mm</td>
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</tbody>
</table>

### McIntyre

Nucleus Hydrodissector
Spatulated
Flattened on horizontal plane
Angled 45°, bend 11mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Length x Diameter</th>
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<tbody>
<tr>
<td>15-071-23</td>
<td>23Ga x 22mm</td>
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<td>15-071-25</td>
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<tr>
<td>15-071-27</td>
<td>27Ga x 22mm</td>
</tr>
<tr>
<td>15-071-30</td>
<td>30Ga x 22mm</td>
</tr>
</tbody>
</table>

*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

Feaster

Nucleus Hydrolineator
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 Hydrolineator
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
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
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 0’clock position

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

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
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
GLAUCOMA CANNULAS, INFUSION HANDLES FOR CANNULAS

Silicone Bulb With Adapter
15-301/303

Titanium Microsurgical Handle
Male-Male
15-307T

Titanium Microsurgical Handle
Male-Female
15-308T
## Gauge Conversation Chart

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Inner Diameter</th>
<th>Outer Diameter</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>19Ga</td>
<td>.028</td>
<td>.70</td>
<td>.043</td>
</tr>
<tr>
<td>20Ga</td>
<td>.024</td>
<td>.60</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

- 21-R1023  23Ga x 5/4 in (.60X32 mm)
- 21-R1025  25Ga x 5/4 in (.50X32 mm)
- 21-R1027  27Ga x 5/4 in (.40X32 mm)

Retrobulbar Needles
For injecting anesthetic agents into the muscle cone.

Atkinson
Retrobulbar Needle

- 21-R1123  23Ga x 3/2 in (.60X38 mm)
- 21-R1125  25Ga x 3/2 in (.50X38 mm)

Retrobulbar Needle
Sharp

- 21-R1225  25Ga x 3/2 in (.50X38 mm)

Sub-Tenon`s Anesthesia Cannulas
For administering anesthetic agents into the posterior Sub-Tenon`s space. Curved, flattened tip.

Sub-Tenon`s
Anesthesia Cannula

- 21-R1319  19Ga x 1 in (1.10X25 mm)
- 21-R1320  20Ga x 1 in (0.90X25 mm)

*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)
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)

Irrigating Cannula

Bishop Harmon
Cannula
8mm, 37° angled
Smooth oval shaped tip
21-R2619 19Ga x 1 in (1.10X25 mm)

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
21-R3225  25Ga x 5/8 in (.50X16 mm)
21-R3227  27Ga x 5/8 in (.40X16 mm)
21-R3330  30Ga x 5/8 in (.30X16 mm)

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
21-R3325  25Ga x 5/8 in (.50X16 mm)
21-R3327  27Ga x 5/8 in (.40X16 mm)

Capsulorrhexis Cystotome
STRAIGHT
21-R3627  27Ga x 5/8 in (.40X16 mm)
21-R3630  30Ga x 5/8 in (.30X16 mm)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
**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-R3050: 30Ga x 5/8 in (.30X16 mm)

- **Side Cutting Cystotome**
  - 21-R3725: 25Ga x 5/8 in (.50X16 mm)

- **Irrigating Cystotome**
  - 45° tip
  - 21-R3925: 25Ga x 5/8 in (.50X16 mm)

**Angled Cystotomes**

- **Angled Cystotome**
  - 21-R3427: 27Ga x 5/8 in (.40X16 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 angeled 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)
CATARACT SURGERY HYDRODISSECTION

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.

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.

Corydon
Hydroexpression Cannula
21-R4625 25Ga x 7/8 in (.50X22 mm)
21-R4627 27Ga x 7/8 in (.40X22 mm)
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)

**Binkhorst**
J Cortex Extractor Angled
Angled 18°, 12 mm from the end
- 21-R5425  25Ga x 7/8 in (.50X22 mm)

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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)

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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 1 in (.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

Thorton
J Capsule Polisher
Hook 2 mm long X 2 mm wide
21-R6323  23Ga x 7/8 in (.60X22 mm)
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
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.
Lacrimal Cannula
Curved, malleable
20G shaft having reinforced 12 mm
21-R7013 23Ga x 42 mm

Fasanella
Lacrimal Cannula
Gently curved
21-R7023 23Ga x 42 mm

Anel
Lacrimal Cannula
Straight
Special long mount blunt tip
21-R7025 25Ga

Lacrimal Cannula
21-R7026 26Ga x 11/8 in (0.45 X 28 mm)

Shahinian
Lacrimal Cannula
Straight
Smooth bullet shape end
21-R7027 25Ga x 35 mm

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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
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
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

Peyman
High Viscosity Fluid Cannula
21-R7516 16Ga x 9mm (3/8 in)

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)

Product images, including color, may slightly differ from actual product appearance due to the 3d effect applied
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>Code</th>
<th>Gauge/Size</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>
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<th>Code</th>
<th>Gauge/Size</th>
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<tr>
<td>12-5193</td>
<td>20Ga (0.90 mm)</td>
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<tr>
<td>12-5192</td>
<td>23Ga (0.60 mm)</td>
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</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>
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<th>Code</th>
<th>Gauge/Size</th>
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<tbody>
<tr>
<td>12-5151</td>
<td>20Ga (0.90 mm)</td>
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<tr>
<td>12-5164</td>
<td>23Ga (0.60 mm)</td>
</tr>
<tr>
<td>12-5156</td>
<td>25Ga (0.50 mm)</td>
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</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.

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<tr>
<td>20Ga (0.90 mm), 2.5 mm tip</td>
</tr>
<tr>
<td>12-5010</td>
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<tr>
<td>20Ga (0.90 mm), 4.0 mm tip</td>
</tr>
<tr>
<td>12-5011</td>
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<tr>
<td>20Ga (0.90 mm), 6.0 mm tip</td>
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</tbody>
</table>

Silicone Oil Infusion Cannulas
Unique design facilitates injection of silicone oil and other viscous fluids.

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<th>Silicone Oil Infusion Cannula</th>
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</thead>
<tbody>
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<td>12-5012</td>
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<tr>
<td>20Ga (0.90 mm), 4.0 mm tip</td>
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<td>12-5013</td>
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<tr>
<td>20Ga (0.90 mm), 6.0 mm tip</td>
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Self-Retaining Sutureless Cannulas
Sutureless fixation. Retaining ridge holds cannula in place.

<table>
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<th>Self-Retaining Infusion Cannula</th>
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<td>4.0 mm tip Stainless Steel Metal Hub</td>
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<tr>
<td>20Ga (0.90 mm)</td>
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<td>12-5144</td>
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<tr>
<td>23Ga (0.60 mm)</td>
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<tr>
<td>6.0 mm tip Stainless Steel Metal Hub</td>
</tr>
<tr>
<td>12-5219</td>
</tr>
<tr>
<td>20Ga (.90 mm)</td>
</tr>
<tr>
<td>12-5221</td>
</tr>
<tr>
<td>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
|   190   |
Sets

View all our sets products at www.rumex.net
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<td>12 McPherson Straight Tying Forceps, 7 mm Platform</td>
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<td>13 Hartman Mosquito Forceps, Straight, Short</td>
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<td>5-060</td>
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<td>15 Jameson Muscle Hook</td>
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<tr>
<td>8-045T</td>
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### Reference | Key Description
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3-040 | 2. Whipple Capsulorrhexis Centration Marker
4-0331T | 3. Colibri Corneal Forceps, .12 mm 1x2 Teeth
4-0510T | 4. Castroviejo Suturing Forceps, .12 mm 1x2 Teeth
4-0650T | 5. Tennant Straight Tying Forceps
4-1220S | 6. Hartman Mosquito Forceps, Straight
4-1741T | 7. McPherson Angled Tying Forceps
4-185S | 8. Tennant Curved Tying Forceps
4-186S | 9. Tennant Straight Tying Forceps
4-2107T | 10. Steinert Paddle Lens Folding Forceps
4-2113S | 11. McDonald Style Inserting Forceps
4-2141T | 12. Cartridge Loading Forceps
4-2301T | 13. Fuchtert Conjunctiva Forceps
5-030 | 14. Kuglen Hook
5-0331 | 15. Lester Lens Manipulator
5-034 | 16. Bechert Nucleus Rotator
6-016-053 | 17. Diamond Knife, Trifacet Blade, 1.0 mm
6-206-104 | 18. Diamond Knife, 2.3/2.8 mm Self-Diving Trapezoid Blade

### Reference | Key Description
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33 | 19. Ernest Nucleus Cracker
36 | 20. Rosen Phaco Chopper Universal
51 | 21. Irrigation Handpiece, Curved, 23 Ga
56 | 22. Aspiration Handpiece, Curved, 23 Ga
64 | 23. Barraquer Needle Holder, Medium
66 | 24. Disposable Iris Retractors (1 pack of 4 pcs)
67 | 25. Westcott Curved Tenotomy Scissors
67 | 26. Gillis-Vannas Capsulotomy Scissors, 10 mm Blades
68 | 27. Barraquer Wire Speculum, Adult Size
70 | 28. Lieberman Temporal Speculum, Adult Size
60 | 29. Chang Nucleus Hydrossector
60 | 30. McIntyre Nucleus Hydrossector, Spatulated
64 | 31. Microincisional Capsule Polisher, 23 Ga
65 | 32. Simcoe I/A Cannula, 23/23 Ga
66 | 33. Silicone Bulb With Adapter
67 | 34. Thornton Fixation Ring With Swivel
68 | 35. Towel Clamp
69 | 36. IOL injector for A, B, C cartridges
70 | 37. Plastic Sterilizing Tray, Double Level, Large

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<td>Whitehouse Gravity Axis Marker II, Straight</td>
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# 24-09 LACRIMAL SET

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24-11 MUSCLE SET

**Reference** | **Key** | **Description** | **Page**
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2-010T | 2 | Castroviejo Caliper |
4-072T | 3 | Dressing Forceps With 12mm Serrated Tips |
4-051T | 4 | Corneal Forceps, Bonn-Catalano Type |
4-0602T | 5 | Castroviejo Suturing Forceps, .5mm 1x2 Teeth |
4-090T | 6 | Kelman-McPherson Tying Forceps |
4-121S | 7 | Hartman Mosquito Forceps, Curved, Short |
4-130S | 8 | Jameson Muscle Forceps, Left |
4-131S | 9 | Jameson Muscle Forceps, Right |
4-136S | 10 | Osher Superior Rectus Forceps |
5-040 | 11 | Jameson Muscle Hook, 2.0mm Bulbous Tip |
5-0401 | 12 | Jameson Muscle Hook, 1.5mm Bulbous Tip |
5-041* | 13 | Graefe Muscle Hook, Size 1 |
5-042 | 14 | Graefe Muscle Hook, Size 2 |
5-061 | 15 | Scobee Oblique Muscle Hook, Curved |
5-062 | 16 | Stevens Curved Tenotomy Hook |
8-090T | 17 | Barraquer Needle Holder, curved, w/lock |
8-0921T | 18 | Castroviejo Needle Holder, straight, w/lock |
11-040S | 19 | Westcott Tenotomy Scissors, Blunt Tips, 13mm Blades |
11-044S | 20 | Westcott Stitch Scissors, Sharp Tips, 16mm Blades |
14-0601T | 21 | Kershner Reversible Solid Blade Speculum |
15-301/303 | 22 | Silicone Bulb With Adapter |
16-090S | 23 | Serrefine, Straight |
18-305* | 24 | Plastic Sterilizing Tray, Double Level, Large |

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## Sets 213

### 12-142 VITREORETINAL SET 23 Ga

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**VITREORETINAL INSTRUMENTS (REUSABLE)**

| Handles (to be adjusted to a tip) | 12-003T | - | Vitreoretinal Instrument Handle (squeeze model) |
|                                   | (12-001T) | - | Vitreoretinal Instrument Handle (one finger control) |
| **Scissors**                     | 12-202-23 | 24 | Vertical Scissors, 70 Degrees |
|                                   | (12-209-23) | - | Curved Subretinal Scissors |
| **Forceps, Epiretinal**          | 12-301-23 | 25 | Diamonized 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 |
| **Forceps, ILM**                 | 12-410-23 | 26 | Eckardt End Gripping Forceps |
|                                   | (12-411-23) | - | Tano Asymmetrical End-Gripping Forceps |
|                                   | (12-420-23) | - | End-grasping Forceps |
| **Forceps for foreign bodies**   | 12-321-23 | 27 | Spring Gripping Forceps |
| **Forceps, Pick**                | 12-325-23 | 28 | Pick Forceps |
| **Spatulas & Picks**             | 13-097-23 | 29 | Delicate Membrane Pick |

**VITREORETINAL PRODUCTS (DISPOSABLE)**

| Trocars             | 12-5220 | 30 | Disposable One Step Trocar System |
|                    | (12-5173-1) | - | Reusable Two Step Trocar System with closure valves |
| **Vitrectomy Cutters** | 12-5171 | 31 | Vitrectomy Cutter, B&L: Millenium, Premiere-750 cpm. 25psi |
|                    | (12-5172) | - | Vitrectomy Cutter HIGH SPEED, Alcon® Accurus- 2500 cpm, 30psi |
| **Cannulas, Asparing** | 12-5162 | 32 | Brush Tip Cannula |
|                    | (12-5161) | - | Soft Tip Cannula |
|                    | (12-5164) | - | Charles Flute Cannula |
|                    | (12-5192) | - | Diamond Dusted Soft Tip Cannula |
| **Cannulas, Infusion** | 12-5203 | 33 | Self-Retaining Infusion Cannula, 4.0mm |
|                    | 12-6000 | 34 | Dual Bore PFC Cannula |
| **Backflush Handles** | 12-6010 | 35 | Titanium Backflush Handle, Reusable - Active |
|                    | (12-6196) | - | Titanium Backflush Handle, Reusable - Passive |
|                    | (12-5187) | - | Disposable Backflush Instrument – Active |
|                    | (12-6177) | - | Disposable Backflush Instrument – Passive |
| **Fiber Optic Probes** | 12-5197 | 36 | Fiber Optic Probe-Alcon® Accurus |
|                    | (12-6179) | - | Fiber Optic Probe-B&L® |

**SILICONE OIL**

<p>| Silicone Oil* not available in the US | SmartSil 5000 | 37 | Purified Silicone Oil for retinal endotamponade, 5000 cSt, 10 ml in a 20 ml syringe |
| Infusion Systems                  | (SmartSil 1000) | - | Purified Silicone Oil for retinal endotamponade, 1000 cSt, 10 ml in a 20 ml syringe |
|                                  | 12-RTUB-1 / 12-RTUB-2 / 12-RTUB-3 / 12-RTUB-5 | 38 | Reusable Tubing System for the Infusion of Silicone Oil |</p>
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<td>Silicon Oil* not available in the US</td>
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<td>Purified Silicone Oil for retinal endotamponade, 5000 cSt, 10 ml in a 20 ml syringe</td>
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<tr>
<td>Silicone Oil*</td>
<td>SmartSil 5000</td>
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<td>Purified Silicone Oil for retinal endotamponade, 1000 cSt, 10 ml in a 20 ml syringe</td>
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<td>Reusable Tubing System for the Infusion of Silicone Oil</td>
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<td>12-RTUB-1 / 12-RTUB-2 / 12-RTUB-3</td>
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<td></td>
<td>12-RTUB-5</td>
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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) mm</th>
<th>Dimensions (LxWxH) inches</th>
<th>Size</th>
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<tbody>
<tr>
<td>18-300</td>
<td>with 1 special silicone plug-in insert</td>
<td>190 x 101 x 38</td>
<td>7.5 x 4 x 1.5'</td>
<td>B</td>
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<tr>
<td>18-301</td>
<td>with silicone finger tip mat</td>
<td>152 x 63.5 x 19</td>
<td>6 x 2.5 x 0.75'</td>
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<tr>
<td>18-301-1</td>
<td>with 2 special silicone plug-in inserts</td>
<td>152 x 63.5 x 19</td>
<td>6 x 2.5 x 0.75'</td>
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<tr>
<td>18-302</td>
<td>with silicone finger tip mat</td>
<td>165 x 101 x 19</td>
<td>6.5 x 4 x 0.75'</td>
<td>C</td>
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<tr>
<td>18-303</td>
<td>with silicone finger tip mat</td>
<td>190 x 101 x 19</td>
<td>7.5 x 4 x 0.75'</td>
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<tr>
<td>18-303-1</td>
<td>with 4 special silicone plug-in inserts</td>
<td>190 x 101 x 19</td>
<td>7.5 x 4 x 0.75'</td>
<td>B</td>
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<tr>
<td>18-304</td>
<td>with silicone finger tip mat</td>
<td>254 x 152 x 19</td>
<td>10 x 6 x 0.75'</td>
<td>A</td>
</tr>
<tr>
<td>18-305</td>
<td>with silicone finger tip mat two levels base and inset tray</td>
<td>254 x 152.4 x 38</td>
<td>10 x 6 x 1.5'</td>
<td>A</td>
</tr>
<tr>
<td>18-305-1</td>
<td>with 3 special silicone plug-in inserts</td>
<td>254 x 152.4 x 38</td>
<td>10 x 6 x 1.5'</td>
<td>A</td>
</tr>
<tr>
<td>18-307</td>
<td>for vitreoretinal/ microincision tips</td>
<td>68.6 x 25.4 x 38</td>
<td>3 x 1.5 x 1'</td>
<td>F</td>
</tr>
<tr>
<td>18-308</td>
<td>with mat</td>
<td>190.5 x 63.5 x 19</td>
<td>7.5 x 2.5 x 0.75'</td>
<td>D</td>
</tr>
</tbody>
</table>

- 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
Sterilization Trays

Tray
with 1 special silicone plug-in insert
190 x 101 x 38 mm  
7.5 x 4 x 1.5 in
18-300 B - medium

Tray
with silicone finger tip mat
152 x 63.5 x 19 mm  
6 x 2.5 x 1.5 in
18-301 E - small

Tray
with 2 special silicone plug-in inserts
152 x 63.5 x 19 mm  
6 x 2.5 x 0.75 in
18-301-1 E - small

Tray
with silicone finger tip mat
165 x 101 x 19 mm  
6.5 x 4 x 0.75 in
18-302 C - Square

Tray
with silicone finger tip mat
190 x 101 x 19 mm  
7.5 x 4 x 0.75 in
18-303 B - medium
STERILIZATION & CARE

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.

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.

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>Concentration ETO:</th>
<th>850±50mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>37°C - 47°C</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>3-4 hours</td>
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<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>121°C to 123°C</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>15 to 30 minutes</td>
</tr>
</tbody>
</table>

### 'Flash' Autoclaving

<table>
<thead>
<tr>
<th>Sterilizer Type:</th>
<th>Gravity Displacement Prevacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>unwrapped</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>132°C</td>
</tr>
<tr>
<td>Humidity:</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, neurosurgical 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 downwards 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 off 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˚ to +35˚C (+50˚ 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.
Sterilization & care

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.

<table>
<thead>
<tr>
<th>Protector for instruments with a straight tube (vitreoretinal)</th>
<th>Protector for instruments with a curved tube (microincisional)</th>
</tr>
</thead>
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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: 37ºC - 47ºC
Exposure time: 3-4 hours
Humidity: 70% RH minimum

Steam Autoclaving:

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<tr>
<th>Sterilizer Type:</th>
<th>Gravity Displacement</th>
<th>Prevacuum</th>
<th>Gravity Displacement</th>
<th>Prevacuum</th>
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<tbody>
<tr>
<td>Sample Config.:</td>
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<td>wrapped</td>
<td>unwrapped</td>
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<tr>
<td>Temperature:</td>
<td>121ºC to 123ºC</td>
<td>132ºC to 135ºC</td>
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<tr>
<td>Exposure time:</td>
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<td>3 to 4 minutes</td>
<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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