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WHO WE ARE

Rumex International Co. is one of the leading manufacturers of ophthalmic handheld instruments and top-quality consumables for eye surgery. With the headquarters based in Florida, USA we have branches and distributors in more than 70 countries all over the world.

Since 1994 for more than 20 years we are constantly developing products for all principal eye surgery techniques, together with top notch surgeons and industry experts. Our experienced engineering team and strong manufacturing facilities allow us to implement vital ideas and innovative trends of the ophthalmic industry.

Today our portfolio includes more than 2,000 product items. We offer to our customers a wide range of titanium and stainless steel reusable instruments; Intraocular lenses (IOLs) and consumables; knives, disposable instruments, cannulas as well as vitreoretinal and sterilization care products.

WHY MORE THAN 17,000 DOCTORS ALL OVER THE WORLD CHOOSE RUMEX

Superior quality products

Rumex is focused on providing the superior quality products to surgeons and medical professionals all over the world. The quality management system of Rumex International Co. is certified in correspondence with ISO 13485 for the design, manufacturing and sale of surgical and microsurgical instruments, as well as medical devices. Rumex production complies with FDA and CE international quality standards.

Lifetime warranty

All Rumex instruments have a lifetime warranty against manufacturing and material defects. Any instrument with such defect detected can be exchanged, free of charge, for the repair or replacement.

Affordable innovations

Our products always stay affordable. Our state of the art technological process allows us to offer high quality innovative products at surprisingly reasonable prices.

Excellent Customer service and support

Our experienced multilingual customer service team is always there to help you make the right choice, get answers to your questions or assist with order placement and delivery. We are proud to work in a company helping doctors and making lives of patients better!
FORCEPS
Tungsten carbide coating on the tips prevents slipping and provides stable fixation. This coating is resistant during sterilization and has the best gripping and resistance results in comparison with surface ribbing or diamond dust.

NEEDLE HOLDERS
RUMEX needle holders are made of titanium (anti-magnetic and light-weight). Thus, a stainless steel needle would not “stick” to a needle holder made of titanium. For secure gripping of the needle we’ve chosen the tungsten carbide coating for the tips. Unlike other techniques of tips strengthening (as surface ribbing or diamond dust), tungsten carbide prevents the needle yawing and is resistant during sterilization.

CROSS-ACTION FORCEPS, SCISSORS AND NEEDLE HOLDERS
Our instruments are easily squeezed and springy due to special technology used for production of springs called cold-working. It allows to transform plastical properties of metal ribbon making it durable and hard.
SCISSORS, PRECHOPPERS
Made of stainless steel only. The hardness of the material used for cutting blades should be 49-55 HRC* to allow for longer life span in regards to remaining sharp and resistant to deformation. In comparison, titanium hardness is only 38 HRC, hence the reason titanium is not recommended for scissors, vitreo and micro incision instruments, choppers, or prechoppers.

With the years of experience, we changed the technique of delicate blade sharpening. We now use an abrasive stone, Arkansas, unlike a diamond needle file in the past.

CHOPPERS, SPATULAS, HOOKS
We combine the advantages of 2 materials for these instruments:
• hardened stainless steel tips are resistant to bending
• ergonomic and light weight titanium handles

CALIPERS, GAUGES AND MARKERS
We use the best way of scale application – laser marking. We now use a special technique called “thermal influence” to increase the contrast and prevent the washing/rinsing away during the sterilization process. In contrast, other types of markings such as burning, engraving and pressing provide grooves that are wide enough for the scale, causing 3-5 degree mistakes when measuring.

The working parts and shafts are made of titanium and the background for the scale is not colored (remains grey) to improve the contrast of the digits. Patented gravity weight at the back of pre-op and single-step markers precisely stabilizes the scale while not interfering with your grip, providing comfortable gripping of the shaft.

*HRC (Rockwell C Hardness) – a measuring unit of material hardness (i.e. resistance to penetration).
MICS AND VITREORETINAL INSTRUMENTS

Consist of a tip and a universal handle.

The branches of MICS, vitreoretinal forceps and scissors are manufactured from stainless steel, a material that ensures superior gripping/cutting function as well as the optimal stiffness and flexibility. Tips are available in 20/21/23/25 and 27 Ga.

The intraocular part of the tip is finished with an anti-glare matte coating which eliminates the risk of light reflection in the course of a surgery.

The universal handle is made of titanium. The property of this material contributes to durability of the entire instrument and minimizes its weight and consequently the surgeon’s hand fatigue.

The universal handle can be used with any kind of RUMEX tips – this is the optimal solution for moneywise customers. Tips can be detached from the handles for better cleaning and sterilization to prevent inflammation after the surgery and expand the lifespan of a tool.

USEFUL NOTES

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 stainess steel (made in Germany).

DataMatrix Barcodes
Instruments manufactured in 2015 and afterwards have DataMatrix Barcodes engraved on their surface. Read more about it at www.rumex.com.

Trademarks
®™ All trademarks are property of their respective owners.
HOW TO PLACE AN ORDER

All the orders can be easily placed and paid online directly via www.rumex.com or through your local RUMEX representatives.

Pricing

The prices are detected automatically by your location. The pricing policy may vary from region to region. Please register online or ask your local distributor for the current prices.

Shipping

We provide our retail customers with two delivery options: via local distributor or by direct shipment from our warehouses. Processing orders quickly and efficiently is a matter of primary importance to us! Either finding your distributor or making a direct order, you are always welcome at www.rumex.com.

WARRANTY, RETURNS AND REPLACEMENTS

Warranty conditions

For all instruments, RUMEX provides a lifetime warranty against any manufacturing or material defects. After carrying out a due expert analysis, if the defect was not caused by the improper handling or misuse, we will provide you either a 100% compensation or a free of charge exchange of a defective instrument for a new one. In some cases when instruments are improperly used or mishandled this may lead to occurrence of non-manufacturing defects which are not covered by RUMEX lifetime warranty. To avoid such cases please read carefully and always follow our Sterilization and care instructions (see pp. 240-243 of this Catalog) or consult our customer service for proper handling instructions.

Returns and replacements

Any instrument returned within 30 days is not charged for restocking provided that it’s being in its original undamaged conditions. Any instrument returned within 30–60 days after shipment is subject to 10% restocking charge. No returns are accepted after 60 days.

To return or replace an instrument please download the RGA form at www.rumex.com, fill it in and send the paper copy by post together with the instrument. Electronic version of RMA is to be e-mailed to RUMEX customer service. You will be contacted by RUMEX customer service within 24 hours (business days only) and informed about further steps.

To obtain a Return Authorization Number prior to returning instruments, please call customer service:

+1 727 535 9600 (for USA, Canada)
+371 6616 3182 (for Europe, Asia, Africa, Latin America)

All used instruments are to be properly cleaned and sterilized before returning and shipping.

Customers will be credited the costs of the instruments but will be responsible for all freight charges for the original order. Refunds are available only in a form of a credit towards future purchases. Disposable (sterile) products, instruments damaged beyond repair and custom orders are not subject to return or replacement.

Repairs

If you require a repair of an instrument we will be glad to offer you this service at a reasonable price. Please contact RUMEX customer service team for details.
NEW

DISPOSABLE INSTRUMENTS 14
REUSABLE INSTRUMENTS 16
DISPOSABLE PRODUCTS 22
DISPOSABLE INSTRUMENTS
FOR ANTERIOR AND POSTERIOR SEGMENT

SAFE AND CONVENIENT
• brand-new, precise and ready for use
• delicate instruments are supplied in a protective blister
• completely biocompatible, non-toxic materials
• zero risk of cross-contamination: utilization of brand new sterile packed surgical instruments can guarantee protection against transferring HIV, hepatitis, and a variety of other infections

COST EFFECTIVE
• considerably reduced price due to the unique composition of materials
• no additional expenses on sterilizing equipment units
• eliminated necessity of reprocessing, examination, repair, cleaning and sterilization
• transparent, fast and easy traceable instrument management

See pages 34-36
NEW

UNIQUE ETCHING TECHNOLOGY PROMOTES THE DISTINGUISHING FEATURES OF RUMEX DISPOSABLE KNIVES:

• Exquisite sharpness for smooth penetration and withdrawal
• Ultra-thin profile reduces penetration force considerably and contributes to re-epithelialization
• Absolutely predictable performance of watertight scleral and corneal incisions
• Satin smooth surface for anti-glare effect

Cataract Retina Glaucoma LRI

VARIOUS IN GEOMETRY AND SIZES – EQUALLY BRILLIANT IN PERFORMANCE AND MANEUVERABILITY!

See pages 32-33
**REUSABLE INSTRUMENTS**

**7-1166S Yeoh Femtosecond Pre-chopper**
Cataract Surgery

Blunt atraumatic tips ideal for complete nucleus separation during femtosecond laser cataract procedure.

**4-0395 Rumex Capsulorhexis Forceps**
Cataract Surgery

Cross-action prevents the leakage of viscoelastic and protects the incision from hyperextension.

**7-0811 Stodulka Enhanced Irrigation Handpiece**
Cataract Surgery

Recommended for bimanual microphaco and femtosecond cataract surgery.

**4-032S MICS Capsulorhexis Forceps with limiter**
Cataract Surgery

Ultra thin vaulted shanks allow to reach the anterior capsule within the limits of 1.50 mm incision.

---

Product design and/or features that do not influence its functionality and main parameters are subject to change.
13-181 Uy Laser Lens Fragmentation Combo Manipulator
Cataract Surgery

Double-ended instrument for femtosecond cataract procedure.

- Chopper
- Spatulated tip for nuclear, epinuclear and cortical fragments manipulating.

20-2041 Donnenfeld Femto Spatula
Cataract Surgery

Special flattened design of the tip helps to open femtosecond created cataract incisions.

4-0582S Forceps for Femtosecond Laser Cataract Procedure
Cataract Surgery

- Ultra thin delicate tips safe for the wound edges.
- Cross-action facilitates quick and safe incision opening.

14-052T Slade-Murdoch Speculum
Cataract Surgery

Quick installation and removal thanks to self-locking mechanism.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**Guell DMEK Forceps**

Corneal surgery

Highly polished broad tips allow to peel the endothelium membrane safely without risk of tearing.

**Tan Marginal DMEK Dissector**

Corneal surgery

Curved single-tipped end is used for convenient separation of the DM from the stroma.

Double-tipped end is designed for cutting the peripheral ends of donor Descemet’s membrane (DM) without risk of radial tears occurrence.

**Holland Spatulated DALK Scissors**

Corneal surgery

Spatulated design of the inner blade keeps the scissors in the proper plane minimizing inadvertent perforation.

Shortened outer blade allows to trim the tissue near the wall in a precise fashion.

**Florakis Endothelial Forceps**

Corneal Surgery

Designed to assist the removal of endothelium from the host cornea.

Reversed tips, angled 75°
Florakis Microinvasive Endothelial Forceps
Corneal Surgery

Designed to assist the removal of endothelium from the host cornea.

Rumex Degree Gauge with beveled face
Corneal Surgery

Calibrated every 5° for precise marking.
Beveled face minimizes the microscope glare.

Markings are clearly visible ensuring high accuracy.
Internal diameter 12 mm, external diameter 16 mm.

Stodulka Forceps for Small Incision Lenticule Extraction
Refractive Surgery

Designed to grasp the lenticule and remove it from the corneal pocket.

Composite surface of the tips (texturized and crocodile) ensures the efficient grasping of the lenticule.

SMILE Spatula
Refractive surgery

Double-ended spatula with spatula on the one side to identify and open the intrastromal pocket and wide disc-shaped beveled tip on the other that allows to dissect the lenticule safely and conveniently.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Compressing Lid Forceps with atraumatic rollers

Dry Eye

Texturized rollers are safe for the conjunctiva. Quick and delicate meibum expression is achieved by even squeezing of the eyelid from its base to the margin.

Nagy Femtosecond Chopper

Cataract Surgery

Cracking the nucleus through the laser-created lines.

Slade/Terao Nucleus Splitter

Cataract Surgery

Chopper type design tip.

* Handles are sold separately

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.
**13-183 Jonh DSAEK Stromal Scrubber**
Corneal Surgery

Decreases the risk of disk detachment after DSAEK surgery.

![Image of Jonh DSAEK Stromal Scrubber]

Roughens the inner corneal stroma at the periphery of Descemetorhexis.

---

**13-184 Jonh DSAEK Glider**
Corneal Surgery

Used for donor disk gliding.

![Image of Jonh DSAEK Glider]

Smoothens the corneal surface and clears fluid in the donor-recipient interface.

---

*Product design and/or features that do not influence its functionality and main parameters are subject to change.*
REVOLUTIONARY PRODUCTS
FOR VITREORETINAL SURGERY

ONE-STEP DISPOSABLE TROCAR SYSTEMS

New Marker
Scleral marker at the distal part of the handpiece allows making the incision right after marking without turning the instrument.

Improved Retractable Blade
Modified spear point (MVR style) blade helps create a smooth incision and provides for low pressure insertion and superior sealing.

Self-Sealing Cannulas
Stainless steel cannula are equipped with redesigned beveled silicone valves, eliminating need for plugs, and promotes easy instrument insertion.

DISPOSABLE BI-BLADE CUTTERS

Constant Aspiration Flow
Highly mobile bi-directional blade keeps the port open throughout the entire cutting cycle ensuring constant aspiration flow and increasing the efficiency of vitreous removal.

Double Cutting Rate
Cutting action on both forward and backward strokes of the probe creates the speed up to 16,000 cpm (standard speed is 8,000 cpm).

Product design and/or features that do not influence its functionality and main parameters are subject to change
IOLs, DISPOSABLE INSTRUMENTS AND CONSUMABLES

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IOLs

HYDROPHOBIC IOLs

AquaFree Yellow Aspheric Hydrophobic

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. incision size</td>
<td>2.20 mm</td>
</tr>
<tr>
<td>Power range</td>
<td>0 .. +30 D</td>
</tr>
<tr>
<td>Overall diameter</td>
<td>13 mm</td>
</tr>
<tr>
<td>Optic diameter</td>
<td>6.0 mm</td>
</tr>
<tr>
<td>Self-unfolding</td>
<td>Yes</td>
</tr>
<tr>
<td>Water content</td>
<td>&lt; 0.50%</td>
</tr>
<tr>
<td>Angulation</td>
<td>0°</td>
</tr>
<tr>
<td>Material</td>
<td>Natural Yellow Hydrophobic Acrylic</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.50</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>5 years</td>
</tr>
</tbody>
</table>

AquaFree Yellow Preloaded

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. incision size</td>
<td>≤ 2.20 mm</td>
</tr>
<tr>
<td>Power range</td>
<td>0 .. +30 D</td>
</tr>
<tr>
<td>Overall diameter</td>
<td>13 mm</td>
</tr>
<tr>
<td>Optic diameter</td>
<td>6.0 mm</td>
</tr>
<tr>
<td>Self-unfolding</td>
<td>Yes</td>
</tr>
<tr>
<td>Water content</td>
<td>&lt; 0.50%</td>
</tr>
<tr>
<td>Angulation</td>
<td>0°</td>
</tr>
<tr>
<td>Material</td>
<td>Natural Yellow Hydrophobic Acrylic</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.50</td>
</tr>
<tr>
<td>Delivery system</td>
<td>Syringe type</td>
</tr>
<tr>
<td>Capsule stretching</td>
<td>None</td>
</tr>
<tr>
<td>Implantation time</td>
<td>5 seconds</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>5 years</td>
</tr>
</tbody>
</table>

Advantages

- Increased contrast sensitivity
- Easy to inject, excellent folding and unfolding ability
- Not tacky – lens does not stick to itself or instruments
- No spherical aberrations

Minimized glare and unwanted images

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not available in the US*
### HYDROPHILIC IOLs

#### Hydro-Sense Aspheric
- Min. incision size: 2.20 mm
- Power range: -5 .. +38 D
- Overall diameter: 12.5 mm
- Optic diameter: 6.0 mm
- Self unfolding: Yes
- Water content: 23.5 – 27.5 %
- Angulation: 5°
- Material: Hydrophilic Acrylic
- Refractive index: 1.46
- Shelf Life: 5 years

#### Hydro-4 Aspheric
- Min. incision size: **1.80 mm**
- Power range: -5 .. +38 D
- Overall diameter: 11 mm
- Optic diameter: 6.0 mm
- Self unfolding: Yes
- Water content: 23.5 – 27.5 %
- Angulation: 5°
- Material: Hydrophilic Acrylic
- Refractive index: 1.46
- Shelf Life: 5 years

#### Hydro-Sense Aspheric Yellow
- Min. incision size: 2.20 mm
- Power range: -5 .. +38 D
- Overall diameter: 12.5 mm
- Optic diameter: 6.0 mm
- Self unfolding: Yes
- Water content: 23.5 – 27.5 %
- Angulation: 5°
- Material: **Natural Yellow** Hydrophilic Acrylic
- Refractive index: 1.46
- Shelf Life: 5 years

---

Product design and/or features that do not influence its functionality and main parameters are subject to change.

*Not available in the US*
**SUPREME**

**Ophthalmic Viscosurgical Device**
Supreme is a dispersive viscoelastic solution of low molecular weight, highly purified grade of hydroxypropyl methylcellulose (HPMC) 2%, clear, isotonic, sterile, non-inflammatory and non-pyrogenic in nature. It is used for intraocular injection during anterior segment surgery.

**Physico-chemical properties**

<table>
<thead>
<tr>
<th>Type</th>
<th>Dispersive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>2% HPMC</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>86 000 Da</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3 000–4 000 cSt</td>
</tr>
<tr>
<td>pH</td>
<td>6.0–7.8</td>
</tr>
<tr>
<td>Osmolality</td>
<td>250–350 mosmol/Kg</td>
</tr>
<tr>
<td>Volume</td>
<td>2 ml</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3 years</td>
</tr>
</tbody>
</table>

**Advantages**
- Highly dispersive
- The best endothelial protection
- Easy removal
- Completely transparent
- No refrigeration necessary
- Easy transportation and storage (2–35 ºC)

**Dispersive Solution**
Supreme is used to:
- coat ocular structures during cataract surgery: in the initial part, during capsulorhexis and phacoemulsification, and during ultrasound;
- protect corneal endothelium in an eye where endothelium pathology is suspected.
SMARTVISC / SMARTVISC+
Ophthalmic Viscosurgical Device

<table>
<thead>
<tr>
<th>SmartVisc</th>
<th>SmartVisc+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hyaluronate 1.6 %</td>
<td>Sodium Hyaluronate 3.0 %</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>1.2–2.0 m Daltons</td>
</tr>
<tr>
<td>Viscosity</td>
<td>approx. 80 000 mPs</td>
</tr>
<tr>
<td>Osmolality</td>
<td>270–400 mOsm/kg</td>
</tr>
<tr>
<td>Storage</td>
<td>2–25°C</td>
</tr>
<tr>
<td>pH</td>
<td>6.8–7.4</td>
</tr>
<tr>
<td>Volume</td>
<td>1.00 ml</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3.5 years</td>
</tr>
</tbody>
</table>

**Advantages**
- No refrigeration necessary
- Good maintenance of the anterior chamber and the capsular bag
- Controlled capsulorhexis
- Easy implantation
- Better adhesiveness on the corneal endothelium during phacoemulsification
- Favorable environment to ophthalmic surgery
- Excellent protection against mechanical damages
- Steam sterilized

**Cohesive Solution**

*SmartVisc* is used to:
- maintain space and pressure in the eye
- keep the empty capsular bag open for IOL insertion
- support the anterior chamber and flatten the anterior capsule
- dilate small pupils
- dissect areas of adhesion

---

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not available in the US*
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 help 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)

- **R2-40400** Blue handle. For cataract surgery.  
  Pack of 5/box of 90

- **R2-40405** Blue handle. For cataract surgery.  
  Can be used for LASIK. Pack of 10/box of 180

- **R2-40401** For cataract surgery. Pack of 5/box of 90  

- **R2-40406** For cataract surgery. Pack of 10/box of 180

### Cellulose Spears and Points

Material: cellulose  
Structure of the material: dense, quickly absorbing  
Shape: lance (planar triangle)

- **R2-40410** Blue handle. For cataract surgery  
  Pack of 5/box of 100

- **R2-40415** Blue handle. For cataract surgery.  
  Pack of 10/box of 200

- **R2-40411** For cataract surgery. Pack of 5/box of 100  

- **R2-40416** For cataract surgery. Pack of 10/box of 200

*Not available in the US
PVA SPONGE RANGE & CELLULOSE EYE SPEARS

Corneal Light Shield
R1-40420  7 mm diameter. Material: PVA.
          Pack of 1/box of 20

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

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

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

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

Lasik Drains
R1-40830  42 × 17 × 11.50 mm opening pack of 1/box of 20
R1-40831  40 × 14 × 10.50 mm opening pack of 1/box of 20

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not available in the US
SMARTSIL 1000/5000®
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
- The choice of viscosity for a balance between easy injection and a stable temporary tamponade

Physico-chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfacial tension</td>
<td>≥ 40 mN/m at 37°C</td>
</tr>
<tr>
<td>Density</td>
<td>0.97</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1000/5000 cSt</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.40</td>
</tr>
<tr>
<td>Volatility</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Polydispersity</td>
<td>&lt; 2.80</td>
</tr>
<tr>
<td>Volume of oil</td>
<td>10 ml</td>
</tr>
<tr>
<td>Syringe</td>
<td>20 ml</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3 years</td>
</tr>
</tbody>
</table>

Formula: Polydimethylsiloxane

\[
\text{CH}_3 \text{CH}_3 \text{CH}_3
\]

\[
\text{H}_3 \text{Si} \text{O} \text{Si} \text{O} \text{Si} \text{H}_3 \text{CH}_3
\]

\[
\text{CH}_3 \text{CH}_3 \text{CH}_3
\]

\[
\text{H}_3 \text{Si} \text{O} \text{Si} \text{O} \text{Si} \text{H}_3 \text{CH}_3
\]

GPC

Arbitrary unit

SmartSil Silicone Oil

Unpurified Silicone Oil

Sterilization
- Silicone oils are dry-heat sterilized
- Syringes are steam sterilized

Packaging
- Syringes are supplied sterile under double pouch

Purification
- Vacuum molecular distillation solvent-free purification
- Potentially toxic low molecular weight oligomers (D₄ to D₂₀) extraction
- Residual volatile components extraction (water, ethanol, etc.)

Post-purification controls
- Gel permeation chromatography (GPC)
- Gaseous chromatography (GC)

Indication
SmartSil 1000/5000 is used for prolonged tamponade after surgical treatment for severe retinal detachment (RD), especially:

- RD with proliferative vitreal retinopathy
- RD with diabetic retinopathy complications
- RD with giant tears
- Traumatic RD
- Secondary RD with viral retinitis

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not available in the US
## SILICONE OIL INFUSION SYSTEMS

<table>
<thead>
<tr>
<th>Surgical System</th>
<th>Reusable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasy™, Optikon®</td>
<td>12-RTUB-1</td>
</tr>
<tr>
<td>Antares®, Alcon® STTO®, Storz®</td>
<td>12-RTUB-1</td>
</tr>
<tr>
<td>Premiere®, DORC® Harmony Budget™</td>
<td>12-RTUB-1</td>
</tr>
<tr>
<td>DORC® Associate™, Alcon®, Constellation™, Accurus™</td>
<td>12-RTUB-2</td>
</tr>
<tr>
<td>B&amp;L® Millenium®, Stellaris™</td>
<td>12-RTUB-3</td>
</tr>
<tr>
<td>Oerit® Orbit™, Faros™, OS3™</td>
<td>12-RTUB-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surgical System</th>
<th>Disposable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasy™, Optikon®</td>
<td>12-DTUB-1</td>
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<td>Antares®, Alcon® STTO®, Storz®</td>
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<td>Premiere®, DORC®, Harmony Budget™</td>
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<td>12-DTUB-2</td>
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<tr>
<td>B&amp;L® Millenium®, Stellaris™</td>
<td>12-DTUB-3</td>
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<tr>
<td>Oerit® Orbit™, Faros™, OS3™</td>
<td>12-DTUB-4</td>
</tr>
</tbody>
</table>

### Viscous Fluid Injection Cannula

10 mm polyimide tip allows injection of viscous fluids such as silicone oil through 23 Ga trocar cannula

Disposable, 5 per box

12-5248 23 Ga

## IRIS RETRACTORS

### Reusable Iris Retractor

Retractors in 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

Product design and/or features that do not influence its functionality and main parameters are subject to change

* * All trademarks are property of their respective owners.
DISPOSABLE KNIVES

MOST

POPULAR

Side Port Knives
Initial stab incisions
Sterile, Box of 6
SP-15 15°, Straight, Double Bevel
SP-30 30°, Straight, Double Bevel
SP-45 45°, Straight, Double Bevel

Paracentesis Knives
Paracentesis incisions/side port incisions
Sterile, Box of 6
PK-11 1.10 mm, Angled, Double Bevel

MOST

POPULAR

Slit Knives
Scleral tunnel incisions
Sterile, Box of 6
SL-15 1.50 mm, Angled, Single Bevel
SL-16 1.65 mm, Angled, Single Bevel
SL-18 1.80 mm, Angled, Single Bevel
SL-22 2.20 mm, Angled, Single Bevel
SL-24 2.40 mm, Angled, Single Bevel
SL-26 2.65 mm, Angled, Single Bevel
SL-27 2.75 mm, Angled, Single Bevel
SL-28 2.80 mm, Angled, Single Bevel

MOST

POPULAR

Crescent Knives
Lamellar dissections / scleral tunnel, flap formation
Sterile, Box of 6
CR-20 2.00 mm, Angled, Single Bevel

*Other sizes are available upon request.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### Trapezoidal Knives
**Tunnel incisions**
Sterile, Box of 6
- **TR-10**  1.20-1.40 mm, Angled, Single Bevel
- **TR-17**  1.50-1.70 mm, Angled, Single Bevel

### Clear Corneal Knives
**Clear cornea incisions**
Sterile, Box of 6
- **CC-22**  2.20 mm, Angled, Double Bevel
- **CC-24**  2.40 mm, Angled, Double Bevel
- **CC-26**  2.65 mm, Angled, Double Bevel
- **CC-27**  2.75 mm, Angled, Double Bevel

### Clear Corneal Knives with Depth Indicators
**Tunnel incisions**
Sterile, Box of 6
- **CCD-22**  2.20 mm, Angled, Double Bevel
- **CCD-24**  2.40 mm, Angled, Double Bevel
- **CCD-26**  2.65 mm, Angled, Double Bevel
- **CCD-27**  2.75 mm, Angled, Double Bevel

### Pre-Set Knives
**Groove making/limbal relaxing incisions**
Sterile, Box of 6
- **PD-60**  600 μm Depth, Multifacet

### MVR Knives
**Posterior segment penetration/side port incisions**
Sterile, Box of 6
- **VRS-19**  19 Ga, Straight, Multifacet
- **VRS-20**  20 Ga, Straight, Multifacet
- **VRS-23**  23 Ga, Straight, Multifacet
- **VRA-19**  19 Ga, Angled, Multifacet
- **VRA-20**  20 Ga, Angled, Multifacet
- **VRA-23**  23 Ga, Angled, Multifacet
DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT

NEW 2 STERILE BOX OF 6

POPPULAR
Speculum
Barraquer Wire Speculum
Overall length 40 mm
14-022D

Spatula
Spatula for Femtosecond Laser Procedure
Overall length 120 mm
20-204D

Forceps
Overall length 104 mm

POPULAR
Utrata Capsulorhexis Forceps
Cystotome Tips
Straight
4-0311D

POPULAR
Castroviejo Suturing Forceps
0.12 mm
4-0600D

POPULAR
McPherson Tying Forceps
Angled
4-174D

MOST POPULAR
Utrata Capsulorhexis Forceps
Cystotome Tips
Curved
4-0331D

MOST POPULAR
Bonn-Catalano Corneal Forceps
0.12 mm
4-0551D

MOST POPULAR
McPherson Tying Forceps
Curved
4-177D

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Manipulators
Overall length 120 mm

- Sinskey Hook
  Angled
  5-032D

- Lester Lens
  Manipulator
  Angled
  5-0331D

- Kuglen Iris Hook
  Angled
  5-030D

- Drysdale Nucleus
  Manipulator
  Universal
  7-093D

Scissors

- Castroviejo
  Universal
  Corneal
  Scissors
  Blunt Tips
  Overall length 106 mm
  11-012D

- Westcott
  Tenotomy
  Scissors
  Blunt Tips
  Overall length 115 mm
  11-040D

- Vannas
  Capsulotomy
  Scissors
  Sharp Tips
  Overall length 84 mm
  11-052D

Product design and/or features that do not influence its functionality and main parameters are subject to change.
IOLs, DISPOSABLE INSTRUMENTS AND CONSUMABLES

DISPOSABLE INSTRUMENTS FOR POSTERIOR SEGMENT

NEW 2 STERILE BOX OF 6

POPULAR

Eckardt End Gripping Forceps
12-410-23D 23 Ga
12-410-25D 25 Ga

End Grasping Forceps
12-420-23D 23 Ga
12-420-25D 25 Ga

Gripping Forceps
With a “crocodile platform”
12-304-23D 23 Ga
12-304-25D 25 Ga

Gripping Forceps
12-301-23D 23 Ga
12-301-25D 25 Ga

Pick Forceps
12-325-23D 23 Ga
12-325-25D 25 Ga

Curved Scissors
12-209-23D 23 Ga
12-209-25D 25 Ga

*Not available in the US

Product design and/or features that do not influence its functionality and main parameters are subject to change.
## DISPOSABLE CANNULAS

### DISPOSABLE CANNULAS GAUGE CONVERSION CHART

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Inner Diameter</th>
<th>Outer Diameter</th>
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</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not an ISO colour code
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

4 mm from the end
21-R2023 23 Ga × 7/8 in (0.60×22 mm)
21-R2025 25 Ga × 7/8 in (0.50×22 mm)
21-R2027 27 Ga × 7/8 in (0.40×22 mm)
21-R2030 30 Ga × 7/8 in (0.30×22 mm)

8 mm from the end
21-R2027-8 27 Ga × 7/8 in (0.40×22 mm)

ANTERIOR CHAMBER MAINTAINER

Lewicky
Anterior Chamber Maintainer

4 mm serrated tip
6 in (15 cm) silicone tubing
ID – 0.75 mm (0.030 in)
OD – 1.65 mm (0.065 in)
21-R2520 20 Ga × 7/8 in (0.90×22 mm)

CANNULAS FOR ANESTHESIA

Retrobulbar Needles
For injecting anesthetic agents into the muscle cone.

Atkinson
Retrobulbar Needle

21-R1123 23 Ga × 3/2 in (0.60×38 mm)
21-R1125 25 Ga × 3/2 in (0.50×38 mm)

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**Sub-Tenon’s Anesthesia Cannulas**
For administering anesthetic agents into the posterior Sub-Tenon’s space. Curved, flattened tip.

**POPULAR**
Sub-Tenon’s Anesthesia Cannula

- 21-R1319  19 Ga × 1 in (1.10×25 mm)
- 21-R1320  20 Ga × 1 in (0.90×25 mm)

**CYSTOTOMES**

**Short Curve Irrigating Cystotomes**
For capsulotomy on deep-set eyes or small pupils.

Irrigating Cystotome
Small radius

- 21-R3330  30 Ga × 5/8 in (0.30×16 mm)

**Formed Cystotomes**

Pearce
Irrigating Cystotome

- 21-R3025  25 Ga × 5/8 in (0.50×16 mm)
- 21-R3027  27 Ga × 5/8 in (0.40×16 mm)
HYDRODISSECTION

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 27 Ga × 7/8 in (0.40×22 mm)
12 mm from the end
21-R4430 30 Ga × 7/8 in (0.30×22 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-R4727 27 Ga × 7/8 in (0.40×22 mm)

Akahoshi Hydrodissector
Angled 45°, 1.50 mm bend
21-R4827 27 Ga × 7/8 in (0.40×22 mm)

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**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  25 Ga × 7/8 in (0.50×22 mm)

**Hydrodissector**
Angled 32°, Smooth oval shaped tip
10 mm from the end
21-R4027  27 Ga × 7/8 in (0.40×22 mm)

**J Hydrodissector**
Flattened hook
1.50 mm long × 2.00 /1.75 mm wide
Smooth oval shaped tip
21-R4325  25 Ga × 7/8 in (0.50×22 mm)
VISCOELASTIC CANNULAS

For injecting viscoelastic to all meridians of the anterior chamber and for coating intraocular lens. This range of cannulas has smooth rounded tips for the safe introduction of viscoelastic.

**Viscoelastic Cannula**
- 9 mm from the end
- Angled 32°
- 21-R2225  25 Ga × 7/8 in (0.50×22 mm)
- 21-R2227  27 Ga × 7/8 in (0.40×22 mm)

**Viscoelastic Cannula**
- 10 mm from the end
- Angled 32°
- 21-R2323  23 Ga × 7/8 in (0.60×22 mm)
- 21-R2327  27 Ga × 7/8 in (0.40×22 mm)

**Viscoelastic Cannula**
- 11 mm from the end
- Formed
- 21-R2427  27 Ga × 7/8 in (0.40×22 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 capsulorhexis.

**Corydon**
- Hydroexpression Cannula
- 21-R4625  25 Ga × 7/8 in (0.50×22 mm)
- 21-R4627  27 Ga × 7/8 in (0.40×22 mm)

Product design and/or features that do not influence its functionality and main parameters are subject to change.
IRRIGATION / ASPIRATION CANNULAS

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

0.30/0.40/0.50 mm top port
Curved, 6 in (15 cm) silicone tubing
ID – 0.75 mm (0.030 in)
OD – 1.65 mm (0.065 in)
21-R5623 23 Ga/23 Ga × 5/8 in (0.60×16 mm)

LASIK CANNULAS

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 27 Ga × 7/8 in (0.40×22 mm)

Lindstrom
Lasik Irrigating Cannula

3 ports
Angled 7 mm bend to tip
Smooth angle curvature allows for safe flap alignment
21-R7430 25 Ga × 1 in

Product design and/or features that do not influence its functionality and main parameters are subject to change
LACRIMAL INTUBATION AND DCR

For surgical treatment, repair and irrigation of the nasolacrimal system

Lacrical Intubation Set

Olive tip
Silicone tube length 35 cm
Stainless steel probes
21-R7004 27 Ga x 11 cm probe
21-R7004RD 27 Ga x 11 cm probe
(with Retrieval Device)

Notched
Lacrical Intubation Set
35 cm silicone tubing
Stainless steel probes
21-R7005RD 23 Ga x 11 cm probe
(with Retrieval Device)

DCR Set
Silicone tubing length 30 cms (12")
Tubing dimensions 0.50 mm (.020") x 0.95mm (.037")
Stainless steel probes
21-R7011 20 Ga x 45 mm (1 3/4"), Straight
21-R7012 20 Ga x 45 mm (1 3/4"), Angled

Lacrical Cannula
21-R7021 21 Ga x 11/4 in (0.80 x 33 mm)

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

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
VITREORETINAL CANNULAS
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

20 Ga × 1 in (0.90×25 mm) cannula
25 Ga × 5/32 in (0.30×4 mm) tip
6 mm tubing extension
Tubing:
ID – 0.30 mm (0.012")
OD – 0.60 mm (0.025")
21-R7720 Angled
ACCESSORIES

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 – 0.30 mm (0.12 in)
OD – 0.60 mm (0.025 in)
21-R7001  23 Ga × 7 in (0.60×175 mm)

Lacrimal Intubation Tubing
Silicone tubing 30 cm (12 in)
ID – 0.30 mm (0.12 in)
OD – 0.60 mm (0.025 in)
21-R7002

Product design and/or features that do not influence its functionality and main parameters are subject to change
# REUSABLE ANTERIOR INSTRUMENTS BY TYPE

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<td>LASEK/LASIK Instruments</td>
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BLADE HOLDERS

Blade Holder
Round knurled handle with end lock
Polished finish
Overall length 95 mm
Titanium
1-010T

Bard Parker Handle
Flat serrated handle
Overall length 130 mm
Titanium or Stainless steel
1-020T
1-020S

Product design and/or features that do not influence its functionality and main parameters are subject to change
Product design and/or features that do not influence its functionality and main parameters are subject to change.
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 13 mm/ ED 18 mm
2-031T ID 13 mm/ ED 19 mm

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

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
ID 12 mm/ED 14 mm
Dull finish
Overall length 133 mm
Titanium
2-034T

Degree gauge with beveled face
Can be used with 3-091T Bores Axis Marker
ID 12 mm/ED 16 mm
Overall length 132 mm
Titanium
2-036T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
MARKERS

AXIS MARKERS

Bores
Axis Marker
Used with Gauges 2-030T, 2-031T, 2-0311T, 2-033T, 2-0331T to mark the axis
Intra-Op
Overall length 130 mm
Titanium
3-090T

Bores
Axis Marker
Used with Gauges 2-034T, 2-036T to mark the axis
Intra-Op
Overall length 130 mm
Titanium
3-091T

Whipple Capsulorhexis
Centration Marker
Creates circular mark on the cornea to help gauge the size of the capsulotomy and its position
Double-ended with 5.50/6.00 mm diameter
3-040

CORNEAL TRANSPLANT MARKERS

Corneal Transplant
Marker
7 mm ring with 8 radial blades
With center pointer
Overall length 130 mm
Titanium
3-140T

Product design and/or features that do not influence its functionality and main parameters are subject to change
Osher-Neumann Corneal Marker
Low Profile
8 radial blades
Overall length 130 mm
Titanium
3-0304T

Corneal marker for keratoplasty
Double-ended (10.00 mm and 11.00 mm diameters)
With central marking point
Titanium handle
3-0231

**OPTICAL ZONE MARKERS**

**Hoffer**
Optical Zone Marker
With cross hairs
Overall length 130 mm
Titanium
3-0201T 2.50 mm
3-0202T 2.75 mm
3-0203T 3.00 mm
3-0204T 3.25 mm
3-0205T 3.50 mm
3-0206T 3.75 mm
3-0211T 5.00 mm
3-0212T 5.50 mm
3-0213T 6.00 mm
3-0215T 7.00 mm
3-0216T 7.50 mm
3-0217T 8.00 mm
3-0218T 8.50 mm
3-0219T 9.00 mm
3-0220T 9.50 mm

Optical Zone Marker
Used to mark visual center for ICRS implantation procedure
Double-ended
Visual center marker 0.15 mm wide
Sinskey hook 0.50 mm wide
Titanium handle / Stainless steel
3-034

Scleral marker for keratoplasty
Double-ended (16.00 mm and 16.50 mm diameters)
Titanium handle
3-0230

Tunnel Zone Marker
Marking tunnel for future ring position with initial lines for incisions
Internal diameter 4.00 mm
External diameter 6.00 mm
Creates 2.00 mm lines
40 degrees angled to handle
Titanium
3-143T

Product design and/or features that do not influence its functionality and main parameters are subject to change
LASIC MARKERS

Lavery LASIK Marker
8.50 mm optical zone
5 asymmetrical marking lines to ensure right placement of a corneal flap
With an optical center 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

TORIC IOL MARKERS

Toric IOL Marker
Intra-Op
Designed for LRI/Toric IOL implantation
Overall length 130 mm
Titanium
3-181
LRI Marker
Intra-Op
Automatically creates marks at 40-60-80 degrees
Overall length 130 mm
Titanium
3-1801

LRI / TORIC MARKERS WITH GRAVITY WEIGHT SYSTEM

LRI Slit Lamp Gravity Marker
Pre-Op, 14 mm
Horizontal axis 3’ and 9’
Overall length 138 mm
Titanium
3-191

Lum LRI Gravity Axis Marker
Pre-Op, 14 mm
Angled, horizontal axis 3’ and 9’
Overall length 140 mm
Titanium
3-192

Slit Lamp Rumex Toric/ LRI Marker
Pre-Op
To mark horizontal axis of 3 and 9 o’clock at the slit lamp
Overall length 136 mm
3-1921

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Whitehouse Gravity Axis Marker

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

Whitehouse Gravity Axis Marker II

Pre-Op
Marks the cornea at 3, 6 and 9 o’clock
Helps to avoid the effect of cyclotortion
Gravity weight system assures excellent visualization and balance
Internal diameter 9.5 mm/external diameter 12 mm
Overall length 153 mm
3-1932 Straight shaft

Rumex Toric Combo Marker

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

MARKING PEN

DONT FORGET TO BUY

Marking Pen
Double-ended
Disposable, 10 pcs per box
20-050

Product design and/or features that do not influence its functionality and main parameters are subject to change
MARKERS FOR LRI/IOL IMPLANTATION WITH GRAVITY WEIGHT SYSTEM

Velazquez
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 at the end of the surgery
The central 5 mm ring serves as a guide for Capsulorhexis
The outer ring protects blades from damage
Angled shaft helps to avoid touching the lower eyelid

3-195 Angled shaft

Gravity weight at the back of the marker precisely stabilizes the scale not interfering with your grip

MOST POPULAR

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, 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 at the back of the marker precisely stabilizes the scale not interfering with your grip
There is a wide central opening for better centration when marking

3-196 Angled shaft

Product design and/or features that do not influence its functionality and main parameters are subject to change
Utrata
Capsulorhexis Forceps
Straight jaws, 11 mm
Small size
Overall length 82 mm
Titanium or Stainless Steel
4-030T Regular tips
4-0300T Cystotome tips
4-0300S Cystotome tips

Utrata
Capsulorhexis Forceps
Straight jaws, 11 mm
Long handle
Overall length 107 mm
Titanium or Stainless Steel
4-0301T Cystotome tips
4-0301S Cystotome tips

Utrata
Capsulorhexis Forceps
Curved jaws, 11 mm
Long handle
Overall length 107 mm
Titanium
4-0321T Cystotome tips

Utrata
Capsulorhexis Forceps
Straight jaws, 11 mm
Round handle
Overall length 110 mm
Titanium
4-0311T Cystotome tips
4-031T Regular tips

Utrata With Ruler
Capsulorhexis Forceps
Straight jaws, 11 mm
With internal laser marks
Ultra-thin profile
Cystotome tips
Round handle
Overall length 110 mm
Titanium
4-03114T 2 engravings at 3, 6 mm
4-03115T 6 engravings at 1, 2, 3, 4, 5, 6 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Reusable anterior instruments by type

**Utrata**
Capsulorhexis Forceps
Curved jaws, 11 mm
Round handle
Overall length 110 mm
Titanium

4-0331T Cystotome tips

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

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

**Nevyas**
Capsulorhexis Forceps
Straight jaws, 11 mm
Cystotome triangular tips
Overall length 105 mm
Titanium

4-0352T Flat handle
Cystotome claw-shaped tips

**Microcoaxial Forceps**
Capsulorhexis Forceps With Limiter
Curved jaws, 11 mm
Ultra-thin profile and limiter for capsulorhexis even through 2 mm incision
Round handle
Overall length 106 mm
Stainless Steel

4-0312S Cystotome tips

**Inamura Type**
Rumex Capsulorhexis Forceps
Curved jaws
Designed to fit through incisions down to 2 mm
Recommended for Coaxial phacoemulsification
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 design and/or features that do not influence its functionality and main parameters are subject to change
Capsulorhexis Forceps with Scale
2.50 mm, 5.00 mm from the tip
Cross-action
Curved jaws 8.50 mm
For 1.50 mm incisions
Overall length 100 mm
Titanium handle
4-0395

Microincisional Capsulorhexis Forceps
Cystotome tips
Curved MICRO-THIN jaws
For 1.50 mm incision
With limiter
Flat handle
Overall length 104 mm
Stainless steel
4-032S

Forceps for Femtosecond Laser Cataract Procedure
Special blunt-ended tips
Cross-action facilitates quick and safe incision opening
Ultra thin delicate tips safe for the wound edges
Stainless steel
4-0582S
MICS CAPSULORHEXIS FORCEPS

Kershner
One-Pinch Capsulorhexis Forceps
Curved 23 Gauge shaft
For High Vacuum Phaco
Designed to perform Capsulorhexis through 0.80 mm side-port incision
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T
4-03731* 23Ga

Kershner
One-Pinch Capsulorhexis Forceps with Micro Jaws
Curved 23 Gauge shaft
Designed to perform Capsulorhexis through 0.80 mm side-port incision
Micro jaws
Reduced length of the branches for better maneuverability in the anterior chamber during Capsulorhexis
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T
4-03741* 23Ga

Capsulorhexis Forceps with Internal Ruler / with Micro Jaws
The internal laser marks allow to measure the size of rhexis
Curved 23 Gauge shaft
Micro jaws 0.80 mm
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
Capsulorhexis Forceps with Internal Ruler
Shorter jaws facilitate 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.
Reusable Anterior Instruments by Type

**Fine-Ikeda**  
**Capsulorhexis Forceps with Micro Jaws**  
Curved 23 Gauge shaft  
Designed to perform Capsulorhexis through 0.80 mm side-port incision  
Micro jaws  
Reduced length of the branches for better maneuverability in the anterior chamber during Capsulorhexis  
Cystotome tips  
With fixation wheel  
Compatible with Squeeze Handle 12-003T  
4-03751*  
23 Ga

**Ikeda**  
**Micro Capsulorhexis Forceps**  
Curved 23 Gauge shaft  
Designed to perform Capsulorhexis through 0.80 mm side-port incision  
Micro jaws  
Reduced length of the branches for better maneuverability in the anterior chamber during Capsulorhexis  
Cystotome tips  
With fixation wheel  
Compatible with Squeeze Handle 12-003T  
4-03761*  
23 Ga

**Kawai**  
**Capsulorhexis Forceps**  
Curved tapered elongated 23/25 Ga shaft  
Designed to perform Capsulorhexis through 0.80 mm side-port incision  
The construction of the forceps shows 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

**Capsulorhexis Forceps with View Port**  
23 Ga  
7 engravings  
Reduced length, gently curved tube  
Micro jaws 0.80 mm  
Compatible with Squeeze Handle 12-003T  
4-03791*  

*Handles are sold separately.
CILIA FORCEPS

Cilia
Narrow Forceps
Smooth jaws
Overall length 86 mm
Stainless Steel or Titanium
4-042S (shown)
4-042T

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

CONJUNCTIVA FORCEPS

Fechtnner
Conjunctiva Forceps
Delicate ring tip jaws
Overall length 108 mm
Titanium
4-2301T Flat Handle

LID AND CHALASION 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 31×17.40 mm (shown)
4-1907T Small Size 19.80×10.40 mm
4-1912T Medium Size 24×16 mm

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
COMPRESSING LID FORCEPS

Compressing Lid Forceps
Curved
Overall length 112 mm
Titanium
4-1913T

Dysfunctional meibomian glands often cause dry eyes, one of the most 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.

Compressing lid forceps
with atraumatic rollers

Designed for mechanical meibum removal
Texturized rollers are safe for the conjunctiva. Quick and delicate meibum expression is achieved by even squeezing of the eyelid from its base to the margin
Overall length 107 mm
Stainless steel
4-124S

LASIK FLAP FORCEPS

LASIK Flap Forceps
Specially designed for LASIK
For atraumatic corneal flap lifting and holding
Blunt, circle-shaped tips
Criss-cross serrations on the jaws
Curved shafts
Overall length 108 mm
Titanium
4-2206T

SMILE FORCEPS

Forceps for small-incision lenticule extraction

Designed to grasp the lenticule and remove it from the corneal pocket
Composite surface of the tips (texturized and crocodile) ensures the efficient grasping of the lenticule
Angled
Flat handle
Overall length 100 mm
Stainless steel
4-2012S

Product design and/or features that do not influence its functionality and main parameters are subject to change.
CORNEAL FORCEPS

Colibri
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 84 mm
Titanium
4-050T

Colibri
Corneal Forceps
1×2 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
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 84 mm
Stainless Steel
4-0503S

Colibri-Bonn
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 84 mm
Titanium
4-0504T

Micro Colibri
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 73 mm
Titanium
4-0505T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Colibri
Corneal Forceps
Bonn type 1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 115 mm
Titanium
4-053T

Colibri
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Round handle
Overall length 109 mm
Titanium
4-054T 4-0540T
4-054T regular tips
4-0540T Bonn type tips

Castroviejo Colibri
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 107 mm
Titanium
4-0541T

Bonn-Catalano
Corneal Forceps
1×2 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 1×2 teeth 0.12 mm (shown)
4-056T 1×2 teeth 0.30 mm
4-057T 1×2 teeth 0.50 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
CORNEAL FORCEPS

**Bonn**
- Corneal Forceps
- 1×2 teeth, 0.12 mm
- Tying platform, 5 mm
- Overall length 94/72 mm
- Titanium
  - 4-058T Medium size (shown)
  - 4-059T Small size

**Florakis Endothelial Forceps**
- Designed to assist the removal of endothelium from the host cornea
- Reversed triangular tips, angled 75°
- Stainless Steel
  - 4-246S

**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 pullthrough technique
- Security of cornea stromal layer
- Compatible with Squeeze Handle (12-003T)
  - 4-034*

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 design and/or features that do not influence its functionality and main parameters are subject to change.

*Handles are sold separately.
FIXATION FORCEPS

Adson
Fixation Forceps with Teeth
Ideal for plastic & reconstructive surgery
1×2 teeth, 0.50 mm
Overall length 124 mm
Stainless Steel or Titanium
4-0741S
4-0741T

Polack
Corneal Transplant Fixation Forceps
Two point fixation
Delicate 1×2 teeth
1.20 mm between the tips
Curved shafts
Pierse type tips
Round handle
Overall length 112 mm
Titanium
4-0814T

Nevyas-Wallace
Fixation Forceps
Two point fixation
13 mm between the ends
1×2 teeth, 0.12 mm
Straight shafts
Round handle
Overall length 105 mm
Titanium
4-08011T

Castroviejo
Fixation Forceps
Straight shafts
1×2 teeth, 0.50 mm
Overall length 105 mm
Titanium
4-0822T

Product design and/or features that do not influence its functionality and main parameters are subject to change
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 5.50 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 design and/or features that do not influence its functionality and main parameters are subject to change.
IOL REMOVING INSTRUMENTS

Rowen Rescue Kit For Foldable Lens Removal

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

Rumex
Foldable Lens Cutter
Designed to cut and remove all types of foldable intraocular lenses 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 lenses 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 serrations to fixate the lens
Overall length 91 mm
Stainless steel
4-2175S

Product design and/or features that do not influence its functionality and main parameters are subject to change
*Handles are sold separately.
ICL™ Cartridge Loading Forceps
Designed to remove the ICL from the container and push it inside the cartridge
Angled 30 degrees 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

Product design and/or features that do not influence its functionality and main parameters are subject to change
*Handles are sold separately.
**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
- 1×2 teeth
- Overall length 72 mm
- Stainless Steel
- 4-101S straight shaft (shown)
- 4-102S curved shaft

**JEWELLER FORCEPS**

Jewelers #5 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
- Titanium
- 4-115T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
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 1×2 teeth, 0.50 mm
Angled shafts
10 mm from tip to angle
Overall length 107 mm
Stainless Steel
4-136S

Product design and/or features that do not influence its functionality and main parameters are subject to change
SUTURING FORCEPS

Castroviejo
Suturing Forceps
Tying platform, 6 mm
Overall length 110/108/108 mm
Titanium or Stainless Steel
4-0600S 1×2 teeth, 0.12 mm
4-0600T 1×2 teeth, 0.12 mm
4-0601S 1×2 teeth, 0.30 mm
4-0601T 1×2 teeth, 0.30 mm
4-0602S 1×2 teeth, 0.50 mm
4-0602T 1×2 teeth, 0.50 mm

Pauifique
Suturing Forceps
1×2 teeth, 0.50 mm
Tying platform, 6 mm
Overall length 86 mm
Titanium or Stainless Steel
4-0606T (shown)
4-0606S

Bishop-Harmon
Suturing Forceps
1×2 teeth, 0.30 mm
Tying platform, 5 mm
Overall length 86 mm
Stainless Steel
4-0607S

Moorfields
Suturing Forceps
For gripping the tissue, conjunctiva and Tenon’s capsule
Grooved section, 13 mm
Overall length 110 mm
Titanium
4-2303T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
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
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 design and/or features that do not influence its functionality and main parameters are subject to change
Catalano
Tying Forceps
Curved
V-groove tying platform, 6 mm
Round handle
Overall length 105 mm
Titanium
4-182T

Tennant Tying Forceps
Extra delicate smooth jaws
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 (shown)
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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
*Handles are sold separately.
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 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 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 design and/or features that do not influence its functionality and main parameters are subject to change.
INTRAOCULAR LENS HOOKS

Lester
Lens Manipulator
Hourglass shaped 0.20 mm tip
Overall length 124/122 mm
5-033 Straight
5-0331 Angled (shown)

Bechert
Nucleus Rotator
Angled, 10 mm from tip to angle
"Y" shaped tip
Overall length 121 mm
5-034

Fenzl
Lens Manipulating Hook
Angled, 10 mm from tip to angle
"T" shaped tip
Overall length 121 mm
5-036

MUSCLE / TENOTOMY HOOKS
Stainless steel hooks with an ergonomic light-weight flat serrated titanium handle.

Jameson
Muscle Hook
Flat hook
Bulbous tip
Overall length 135 mm
5-040 Standard
2.00 mm tip, 9.50 mm hook
5-0401 Small
1.50 mm tip, 8.00 mm hook

Graefe
Muscle Hook
Flat hook
Overall length 140 mm
5-041 Size 1
1.00 mm tip, 8.00 mm hook
5-042 Size 2
1.50 mm tip, 10.00 mm hook

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Scobee
Oblique Muscle Hook
Curved shaft
4.50 mm flat hook
Overall length 140 mm
5-061

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

RETINAL DETACHMENT HOOK
Stainless steel hook with an ergonomic light-weight flat serrated titanium handle.

Gass
Retinal Detachment Hook
13 mm flat hook
1.50×0.70 mm hole
Overall length 140 mm
5-060

IRIS HOOK

Iris Hook
1.00 mm
Angled
Round Handle
Overall Length 121 mm
5-020

Product design and/or features that do not influence its functionality and main parameters are subject to change
**DIAMOND KNIVES**

**ASTIGMATIC KERATOTOMY AND ICRS**

**ICRS Knife**
Micrometer Titanium Handle
Overall length 110 mm

**ICRS**
1.00 mm
Designed for implantation of intrastromal corneal ring segments (ICRS)
Performs a 1 mm radial incision at 70–80% of corneal thickness
Micrometric scale allows to customize the depth of the blade from 0 to 1000 microns (0 to 1.00 mm)
Increment – 5 microns (0.005 mm)
The maximal depth of the blade is 1700 microns (1.70 mm)
6-00/6-020

**Arcuate**
1.00 mm
6-00/6-030

**UNIVERSAL SIDE-PORT KNIVES**

**Universal Side-Port Knives**
Straight Titanium Handle
Overall length 110 mm
Used for paracentesis

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

- **6-10/6-0501**
  45° Single Edge
  0.60 mm

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

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

- **6-10/6-053**
  Trifacet
  1.00 mm

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

- **6-10/6-070**
  60° Lancet
  1.00 mm

- **6-10/6-0701**
  60° Lancet
  0.80 mm

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
ANGLED PHACO KNIVES

Phaco Knives

Angled Titanium Handle
Overall length 130 mm
Used for tunnel incision

Clear Cornea Blades
- 6-20/6-071 – 2.50 mm
- 6-20/6-072 – 2.80 mm
- 6-20/6-073 – 3.00 mm
- 6-20/6-074 – 3.20 mm
- 6-20/6-075 – 2.20 mm
- 6-20/6-081 – 2.30 mm
- 6-20/6-077 – 2.75 mm
- 6-20/6-078 – 2.70 mm
- 6-20/6-079 – 2.40 mm
- 6-20/6-080 – 2.65 mm

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

Self-Diving Trapezoid Blades
- 6-20/6-100 – 1.90/2.50 mm
- 6-20/6-101 – 2.70/3.20 mm
- 6-20/6-102 – 3.00/3.50 mm
- 6-20/6-103 – 2.30/2.80 mm
- 6-20/6-105 – 2.60/3.00 mm
- 6-20/6-107 – 2.00/2.30 mm

Knives for MICS

Knives for Micro Incision Coaxial Surgery (MICS)
Angled Titanium Handle
Overall length 130 mm
Designed for micro incision

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

Zaldivar Knife for ICL Implantation
- 6-20/6-0551
0.55/1.00 mm
Designed for ICL™ implantation
Can be used for other incisions:
Side port, clear cornea, scleral tunnel

Product design and/or features that do not influence its functionality and main parameters are subject to change
LRI KNIVES

Universal Three-Step Knife for Cataract and LRI Surgery

Precise, easy and stable calibration mechanism with 3 preset depths of 500, 550 and 600 microns. Full extension for side-port incision. Overall length 130 mm

Single footplate for better visualization
20° Trifacet Blade
0.20 – 1.00 mm
6-322/6-0531

Pre-set LRI knives

Pre-Set LRI Knives
Short Titanium Handle
Overall length 78 mm
Can be used with a slit lamp
6-500S/6-0531
Preset depth 500 microns
6-600S/6-0531
Preset depth 600 microns

Pre-Set LRI Knives
Long Titanium Handle
Overall length 110 mm
6-500/6-0531
Preset depth 500 microns
6-600/6-0531
Preset depth 600 microns

Cleaning Pack

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
SAPPHIRE KNIVES

Universal Side-Port Knives

- 6-10/6SK-0501: 45° Double Edge Blade 1.00 mm
- 6-10/6SK-053: Trifacet Blade 1.00 mm
- 6-10/6SK-070: 60° Double Edge Lancet Blade 1.00 mm

Phaco Knives

Clear Cornea Blades
- 6-20/6SK-070 – 1.80 mm
- 6-20/6SK-072 – 2.80 mm
- 6-20/6SK-073 – 3.00 mm
- 6-20/6SK-074 – 3.20 mm
- 6-20/6SK-075 – 2.20 mm
- 6-20/6SK-080 – 2.65 mm

Self-Diving Trapezoid Blades
- 6-20/6SK-145 – 1.80/2.20 mm
- 6-20/6SK-146 – 1.80/2.40 mm
- 6-20/6SK-147 – 1.80/2.90 mm
- 6-20/6SK-148 – 1.80/3.20 mm

Facet-Free Crescent Blades
- 6-20/6SK-092 – 2.00 mm
- 6-20/6SK-093 – 2.20 mm

Zaldivar Knife for ICL Implantation
- 6-20/6SK-0551 – 0.55/1.00 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
PHACO INSTRUMENTS

NUCLEUS CRACKERS

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
2 rows of delicate teeth
Flat handle
Overall length 107 mm
Titanium
7-0201T

Slade/Terao
Vertical Nucleus Cracker
Designed to crack the nucleus in Femtosecond cataract procedure
Side to side moving tip
23 Ga
Curved shaft
Micro jaws
Compatible with 12-003T Squeeze Handle
7-141

PRECHOPPERS

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

Prechopper
Angled
Maximum opening – 2.80 mm
Overall length 117 mm
Stainless Steel
7-111S

Yeoh
Femtosecond Pre-chopper
Blunt atraumatic tips for complete nucleus separation during femtosecond laser cataract procedure
7-1166S

Product design and/or features that do not influence its functionality and main parameters are subject to change

Handles are sold separately.
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 – 2.80 mm
Overall length 121 mm
Stainless Steel
7-1161S

Combo
Prechopper
For sub-2.00 mm Coaxial MicroPhaco
Straight
Specially designed to split nuclei through a small 2.00 mm incision
Maximum opening – 2.00 mm
Overall length 121 mm
Stainless Steel
7-1162S

Akahoshi
Hybrid Combo Prechopper
Straight
Groove enables easy rotation of the nucleus during prechopping
Maximum opening – 2.80 mm
Overall length 121 mm
Stainless Steel
7-1163S

Inamura Eagle
Prechopper
Straight
Narrow tip is easily inserted into the denser nucleus which enables division of a soft nucleus from a dense one without counter force
Maximum opening – 2.80 mm
Overall length 120 mm
Stainless Steel
7-1165S

Inamura
Eagle Prechopper
Straight
Microincisional
Maximum opening 1.80 mm
Round Handle
Overall length 121 mm
Stainless Steel
7-11651S

Product design and/or features that do not influence its functionality and main parameters are subject to change
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 design and/or features that do not influence its functionality and main parameters are subject to change.
Reusable Anterior Instruments by Type

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

**Intraocular Manipulator**
with Ball Tip
0.50 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

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
CHOPPERS

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

**He**
Phaco Chopper
45° 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 1.70 mm tip

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

**Chang**
Micro Finger & Quick Chopper
Modified Micro Finger tip with interior edge to chop and divide soft nucleus
Quick Chopper with sharp point to penetrate and split hard nucleus
Overall length 125 mm
7-127 RHD Titanium handle (shown)
7-127S RHD Stainless steel
7-1271 LHD Titanium handle
7-1271S LHD Stainless steel

Product design and/or features that do not influence its functionality and main parameters are subject to change.
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

Slade/Terao
Nucleus Splitter
Used to crack the femtochopped nucleus
Chopper type design tip
23 Ga
Curved shaft
Micro jaws
Compatible with 12-003T Squeeze Handle
7-143

Nagy
Femtosecond Chopper
Designed for femtosecond laser assisted cataract surgery
Cracking the nucleus through the laser created lines
Overall length 122 mm
7-145

Donnenfeld
Femto Splitter
For splitting the nucleus
Angled shaft
Curved tip
Overall length 121 mm
7-146

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Handles are sold separately.
Capsule polishers

Holz Capsule Polisher

Designed to perform delicate polishing of the capsule
Angled shaft
"Iron"-shape tip
Texturized tip for polishing of all capsule parts
Sharpened ridge at the top for efficient polishing of the bottom part of the anterior capsule
Overall length 120 mm
7-142

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.

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 specially for Bimanual Microphaco.

20 Ga tip with Nagahara type chopper (for 1.00 mm incisions)
The end opening port provides maximum irrigation
The dual oval sideports 0.50×0.70 mm provide supplemental irrigation in case when the front opening is overfilled
Round Handle
Overall length 105 mm
7-0634/I

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

Capsule Polisher

135° angled shaft
Overall length 105 mm
7-101

Designed in cooperation with Huck Holz, M.D., U.S.A.

Product design and/or features that do not influence its functionality and main parameters are subject to change
IRRIGATION/ASPIRATION HANDPIECES

Irrigation / Aspiration Handpiece
For Coaxial Phaco
Round handle
Standard connectors
Overall length 110 mm
Titanium
7-080/IAH

Tips for Irrigation / Aspiration Handpiece
Stainless steel

- Thornton 20° angled
  7-080/20
- Binkhorst
  7-080/BC
- Simcoe
  7-080/SIM
- 45° angled
  7-080/45
- 90° angled
  7-080/90
- Straight
  7-080/ST

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

- 7-081 21 Ga
  2×0.35 mm side ports
- 7-081-23 23 Ga
  2×0.35 mm side ports
- 7-081-23 23 Ga
  2×0.35 mm side ports

Product design and/or features that do not influence its functionality and main parameters are subject to change
Reusable anterior instruments by type

**Aspiration Handpiece For Bimanual Technique**
Curved tube with smooth faced or texturized tip
Titanium handle/Stainless steel tip
Standard connector
Overall length 104 mm

**Stodulka Enhanced Irrigation Handpiece for Bimanual Technique**
Handpiece recommended for bimanual microphaco and femtosecond cataract surgery
Curved, 21 Ga
Two ports on side 0.50×1.00 mm for optimal irrigation
Smooth bullet-shaped tip facilitates instrument insertion
Overall length 105 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
NEEDLE HOLDERS

SMALL SIZE NEEDLE HOLDERS
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 design and/or features that do not influence its functionality and main parameters are subject to change.
**MEDIUM SIZE NEEDLE HOLDERS**

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, 12 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

**LONG SIZE NEEDLE HOLDERS**

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

**Barraquer Needle Holder**
- Curved
- Extra fine jaws, 8 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 design and/or features that do not influence its functionality and main parameters are subject to change.
**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, 12 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 13.50 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 design and/or features that do not influence its functionality and main parameters are subject to change.
**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
- Used to cut suture only
- Straight
- Long size jaws 15 mm
- Round serrated handle
- Overall length 105 mm
- Stainless Steel
- 8-102S

**COAXIAL / INTRAOCULAR NEEDLE HOLDERS**

**Coaxial Needle Holder**

**For IOL Suturing**

- Designed for IOL scleral fixation with suture through a small incision
- Titanium handle with plunger mechanism
- Curved shaft
- To be used with straight and curved spatulated needles with length up to 18 mm (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

*Product design and/or features that do not influence its functionality and main parameters are subject to change

*Handles are sold separately.
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

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 design and/or features that do not influence its functionality and main parameters are subject to change.
RETRACTORS

LACRIMAL SAC RETRACTORS

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

Knapp
Lacrimal Sac Retractor
Blunt 4 mm × 8 mm four prongs 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 mm
10-021 - size 1 - 13 mm (shown)
10-022 - size 2 - 15 mm
10-023 - size 3 - 17 mm

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
IRIS (PUPIL) DILATORS

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

Iris Retractor
Disposable
10-5016-1 1 pack of 4 pcs (4 retractors)
10-5016-5 5 packs of 4pcs (20 retractors)
10-5067-1 1 pack of 5 pcs (5 retractors)
10-5067-6 6 packs of 5 pcs (30 retractors)

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 design and/or features that do not influence its functionality and main parameters are subject to change.
CASTROviejo  
ConneAL Scissors  
Curved  
11 mm blades  
Blunt tips  
Overall length 100 mm  
Stainless Steel  
11-010S Left (shown)  
11-0101S Right  

CASTROviejo  
Universal ConneAL Scissors  
Curved  
Blunt tips  
Overall length 102/106 mm  
Stainless Steel  
11-011S  7.50 mm blades  
11-012S  11.00 mm blades (shown)  

OsheR  
Universal ConneAL Scissors  
Gently curved  
Provide a precise 6.50 mm beveled incision opening with a single snip  
21 mm from pivot to tip  
Blunt tips  
Overall length 120 mm  
Stainless Steel  
11-013S  

CASTROviejo  
Universal ConneAL Scissors  
Curved  
16 mm blades  
Blunt tips  
Overall length 110 mm  
Stainless Steel  
11-015S  

Katzin  
ConneAL Transplant Scissors  
Strongly curved  
Medium blades  
Blunt tips  
10 mm blades  
Overall length 100 mm  
Stainless Steel  
11-020S Left (shown)  
11-0201S Right  

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Castroviejo
Corneal Section Scissors
Lower blade 0.50 mm longer than upper blade
14 mm blades
Overall length 106 mm
Stainless Steel
11-024S Right (shown)
11-0241S Left

Corneal
Universal Scissors
Curved
Round handle
Blunt tips
Overall length 110/112 mm
Stainless Steel
11-034S 7.50 mm blades
11-035S 11 mm blades (shown)

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

DALK
Corneal Transplant Scissors
Blades with blunt ledge (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 106 mm
11-038S Right (shown)
11-0381S Left

Holland Spatulated DALK Scissors
Vannas-style scissors with straight "micro blades" facilitating the dissection of stromal tissue.
Round and blunt tips
Horizontally-oriented, spatulated tip keeps the scissors in the proper plane
Delicate, shortened, outer blade
For RHD/LHD
Stainless Steel
11-134 Right
11-135 Left

Product design and/or features that do not influence its functionality and main parameters are subject to change
**IRIS SCISSORS**

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

**McPherson-Vannas**  
Iris Scissors  
Curved  
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

Product design and/or features that do not influence its functionality and main parameters are subject to change.

*Handles are sold separately.
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 design and/or features that do not influence its functionality and main parameters are subject to change
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
19 mm from tip to pivot
Blunt tips
Overall length 116 mm
Stainless Steel
11-048S

Shepard-Westcott
Tenotomy Scissors
Right
Curved
16 mm blades
21 mm from tip to pivot
Blunt tips
Upper blade serrated («supercut»)
Overall length 123 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 design and/or features that do not influence its functionality and main parameters are subject to change
**CAPSULOTOMY SCISSORS**

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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-03741*</td>
<td>Left (shown) 20 Ga</td>
</tr>
<tr>
<td>11-03751*</td>
<td>Right 20 Ga</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-0501S</td>
</tr>
</tbody>
</table>

**Vannas**
Capsulotomy Scissors
6 mm blades
9 mm from pivot to tip
Sharp pointed tips
Overall length 84/84/81 mm
Stainless Steel

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-050S</td>
<td>straight</td>
</tr>
<tr>
<td>11-052S</td>
<td>curved</td>
</tr>
<tr>
<td>11-054S</td>
<td>angled</td>
</tr>
</tbody>
</table>

**Gills-Vannas**
Capsulotomy Scissors
10 mm blades
13 mm from pivot to tip
Sharp pointed tips
Overall length 88/88/84 mm
Stainless Steel

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-056S</td>
<td>straight</td>
</tr>
<tr>
<td>11-058S</td>
<td>curved</td>
</tr>
<tr>
<td>11-0581S</td>
<td>angled</td>
</tr>
</tbody>
</table>

*Handles are sold separately.*
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

IOL CUTTERS/SCISSORS

Micro Foldable Lens Cutter
Straight scissors
Blades with notches, 19 Ga
Curved shaft
Compatible with Squeeze Handle 12-003T
4-2173*

Osher
IOL Scissors
To cut Silicone or Acrylic IOL
6 mm Long Blades
Stainless Steel
4-2175S

*Handles are sold separately.
SPATULAS

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 130 mm
13-031 0.50 & 1.00 mm width, 12 mm length
13-032 0.30 & 0.50 mm width, 12 mm length

CYCLODIALYSIS SPATULAS

Castroviejo
Double Ended Cyclodialysis Spatula
Overall length 136 mm
13-050 0.50 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 design and/or features that do not influence its functionality and main parameters are subject to change.
FEMTOSECOND CATARACT SPATULAS

Donnenfeld
Femto Spatula
Special flattened design of the tip helps to open femtosecond created cataract incisions.
20-2041

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)
1.40 mm length flat tip
Overall length 120 mm
20-204

Uy Laser Lens Fragmentation Combo Manipulator
Double ended instrument for femtosecond cataract procedure combining a chopper and a spatulated tip for nuclear, epinuclear and cortical fragments manipulating.
13-181

CORNEAL SPATULAS

Paton
Doble Ended Spatula and Spoon
Spatula for manipulations with the cornea (LASIK/PRK/Corneal Transplantation)
Overall length 150 mm
13-110

Product design and/or features that do not influence its functionality and main parameters are subject to change
DSEK, DSAEK, DMEK SPATULAS

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

Corneal Dissector
Curved (curvature radius 22 mm)
For intrastromal dissection
45 degrees 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 design and/or features that do not influence its functionality and main parameters are subject to change
DSEK, DSAEK, DMEK SPATULAS

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

Carlson
DSEK Smoother
Angled/vaulted shaft
7.50 mm from tip to angle
2.50 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 degrees angled shaft
11 mm from tip to angle
45 degrees angled tip
Overall length 125 mm
Titanium
13-154T

Melles Style 2
DSAEK PLK Scraper
45 degrees angled shaft
11 mm from tip to angle
90 degrees angled tip
Overall length 125 mm
Titanium
13-155T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
John DSAEK Descemet’s stripper
Curved shaft
14 mm from bend to tip
“T” shape 1.50 mm wide x 0.60 mm high tip
Round titanium handle
Overall length 120 mm
13-1491

John
Dexatome DMEK/DSAEK Spatula
Spatula for removal of the Descemet’s membrane as a single disc
Strongly Vaulted Shaft
Round Handle
Overall length 114 mm
13-182

Jonh
DSAEK Stromal Scrubber
Strongly Vaulted Shaft
Round Handle
Overall length 114 mm
13-183

John
DSAEK Glider
To diminish and eliminate donor disk wrinkles at the donor host interface.
13-184

Tan
Marginal DMEK Dissector
Double tipped end is designed for cutting the peripheral ends of donor Descemet’s membrane without risk of radial tears occurrence.
Curved single tipped end is used for convenient separation of the DM from the stroma.
13-185

Product design and/or features that do not influence its functionality and main parameters are subject to change
DLEK SPATULAS

Manipulator for DLEK procedure
Designed to tuck the edges of the donor lamella
Z-hook with blunt tip
0.15 mm diameter tip
Blunt Tip
Overall length 120 mm
13-160

DALK SPATULAS

Trisector for DALK Procedure
Flat 1.40×0.70 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 1×9 mm 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 design and/or features that do not influence its functionality and main parameters are subject to change.
FOREIGN BODY SPUD

Davis
Foreign Body Spud
Overall length 130 mm
16-153

PRK / LASIK SPATULAS

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

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
LASEK SPATULAS

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

SMILE SPATULAS

SMILE Spatula
ReLEx Smile double lenticule spatula
Blunt spoon and flat spatula
20-207

SMILE Spatula
ReLEx Smile double lenticule spatula
Blunt spoon and shortened atraumatic spatula
20-2071

Product design and/or features that do not influence its functionality and main parameters are subject to change
FEMTOLASIK SPATULAS

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 design and/or features that do not influence its functionality and main parameters are subject to change
**ICL™ SPATULAS**

**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**

**Elevator for ICSR Implantation**  
To create a small pocket in intended direction of the tunnel with a mild rotatory movement  
Straight shaft  
Tip dimensions: 0.10 mm height, 0.20 mm width, 0.70 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: 0.10 mm height, 0.60 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: 0.30 m height, 0.10 mm width, 5 mm length  
Overall length 121 mm  
13-147

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Speculums with aspiration

Ports on each blade allow continuous aspiration providing better vision during the operation

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

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

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
CASTROVIEJO / KERSHNER 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 design and/or features that do not influence its functionality and main parameters are subject to change.
TEMPORAL SPECULUMS LIEBERMAN STYLE

Lieberman Style
Temporal
«V» style open blades
Round branches
Titanium
Overall length 71 mm
14-040T adult
14-042T child

Lieberman Style
Temporal
«V» style open blades
Flat branches
Titanium
Overall length 76 mm
14-0401T adult

Lieberman Style
Temporal
Kratz style open blades
Round branches
Titanium
Overall length 71 mm
14-040TK adult

Lieberman Style
Temporal
Kratz style open blades
Flat branches
Titanium
Overall length 76 mm
14-0401TK adult

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
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
14-0431T 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 design and/or features that do not influence its functionality and main parameters are subject to change
SOLID BLADES / WIRE SPECULUMS

Sauer
Solid blades
Blade spread 20 mm
Overall length 35 mm

- 14-030 child (8 mm blades)
- 14-031 newborn (5 mm blades)
- 14-032 premature (4 mm blades)

WIRE SPECULUMS

**Barraquer**
Closed wire rounded blades
Stainless steel

- 14-022S adult (14 mm blades)
- 14-023S child (11 mm blades)
- 14-024S infant (10 mm blades)
- 14-0244S newborn (4 mm blades)

Closed wire blades
Stainless steel

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

**Slade-Murdoch Speculum**
Adjustable Wire Speculum
Parallel retraction design, open blades 14 mm
Quick installation and removal thanks to self-locking mechanism

- 14-052T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
REUSABLE CANNULAS

IRRIGATING CANNULAS

Irrigating Cannula
Straight Blunt Tip, Polished
For atraumatic brushing of retina
15-049-23  23 Ga \times 25 \text{ mm}
15-049-25  25 Ga \times 25 \text{ mm}
15-049-30  30 Ga \times 25 \text{ mm}

ANTERIOR CHAMBER CANNULAS

Rycroft
Anterior Chamber Cannula
4 mm bend length
Angled 45°
15-051-23  23 Ga \times 22 \text{ mm}
15-051-25  25 Ga \times 22 \text{ mm}
15-051-27  27 Ga \times 22 \text{ mm}
15-051-30  30 Ga \times 22 \text{ mm}

Rycroft
Anterior Chamber Cannula
6 mm bend length
Angled 45°
15-052-23  23 Ga \times 22 \text{ mm}
15-052-27  27 Ga \times 22 \text{ mm}

Rycroft
Anterior Chamber Cannula
8 mm bend length
Angled 45°
15-053-23  23 Ga \times 22 \text{ mm}
15-053-27  27 Ga \times 22 \text{ mm}

Bishop Harmon
Anterior Chamber Cannula
8 mm from end
Angled 40°
Spatulated
15-055-19  19 Ga \times 25 \text{ mm}

Bracken
Anterior Chamber Cannula
Curved 90°
Flattened bevel tip
15-057  19 Ga \times 23 \text{ mm}

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### McIntyre
**Anterior Chamber Maintainer**
- Angled
- Smooth blunt tip
- Front opening
- 15-061-25  25Ga
- 15-061-26 26 Ga
- 15-061-27 27 Ga
- 15-061-30 30 Ga

### Knolle
**Anterior Chamber Cannula**
- 2 mm angled tip
- 15-063-23  23 Ga × 19 mm
- 15-063-30  30 Ga × 19 mm

### Lewicky
**Anterior Chamber Maintainer**
- Silicone tubing attached
- Unique annular rings for self retaining
- 15-065  20 Ga × 3.50 mm

### Girard
**Anterior Chamber Maintainer**
- With Atkinson point,
- 20 cm silicone tubing
- 15-067  23 Ga × 5 mm

### Jaymce
**Anterior Chamber Maintainer**
- Bulbus Tip allows easy insertion and minimum tissue disturbance
- 15-1067  20 Ga × 4 mm from tip

Product design and/or features that do not influence its functionality and main parameters are subject to change.
CANNULAS FOR ANESTHESIA

Atkinson
Retrobulbar Needle
15-001-23  23 Ga × 38 mm
15-001-27  27 Ga × 38 mm

Sub-Tenon’s
Anesthesia Cannula (Para)
Curved
Flattened Tip
0.30 mm sideports
15-009  19 Ga × 25 mm

Sub-Tenon’s
Anesthesia Cannula
Curved, 3 ports
15-011C-19  19 Ga × 25 mm

Sub-Tenon’s
Anesthesia Cannula
Curved
Flattened Tip
Front Opening
15-013-19  19 Ga × 25 mm

Kelman
Sharp Irrigating Cystotome
Curved sharp cutting edge
15-025  25 Ga × 32 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change
LENS REMOVAL / NUCLEUS REMOVAL CANNULAS

**Knolle-Pearse**
Irrigating Vectis
3 irrigating ports at 12, 10 and 2 o'clock
Loop 5 mm wide, 9 mm long
15-183 23 Ga

**Sheets**
Irrigating Vectis
3 irrigating ports
Serrations on top
Loop 6.50 mm wide × 19 mm long
15-203 21 Ga × 38 mm

CAPSULE POLISHERS

**Jensen**
Capsule Polisher
Gently curved, olive tip
All around sand blasted
15-159-25 25 Ga × 28 mm
15-159-27 27 Ga × 28 mm

**Kratz**
Capsule Polisher
0.30 mm top port
Angled, blasted 3 mm from end
15-169-21 21 Ga × 22 mm
15-169-23 23 Ga × 22 mm

**Microincisional**
Capsule Polisher Cannula
Disc-shaped tip
Curved tube for better visualization
Tungsten carbide coated tip for delicate and efficient capsule polishing
Specially designed for scrubbing all parts of the capsular bag
Obtains performing a procedure through a sub – 2 mm incision
15-170 23 Ga × 25 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change
HYDRODISSECTION / HYDRODELINEATION CANNULAS

Rainin
Nucleus Hydrodissector
Spatulated on horizontal plane
Angled 45°, bend 7 mm
15-069-30 30 Ga × 22 mm

McIntyre
Nucleus Hydrodissector
Spatulated
Flattened on horizontal plane
Angled 45°, bend 11 mm
15-071-23 23 Ga × 22 mm
15-071-25 25 Ga × 22 mm
15-071-27 27 Ga × 22 mm

Pearce
J-Shaped Micro Hydrodissector
Hook 1.75 mm wide × 2.25 mm long.
15-073-25 25 Ga × 22 mm
15-073-27 27 Ga × 22 mm

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 27 Ga × 16 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change
CORTEX ASPIRATION CANNULAS

McIntyre-Binkhorst
Blunt tip, front opening
15-079R  26 Ga × 22 mm, Right
15-079L  26 Ga × 22 mm, Left

SMOOTH CLOSED TIP WITH TOP ASPIRATING PORT INTO CURVE

Simcoe
Cortex Extractor Cannula
15-091-13/23  23 Ga × 13 mm
15-091-21/21  21 Ga × 21 mm
15-091-21/23  23 Ga × 21 mm

Simcoe-Welsh
Cortex Extractor Cannula
Angled 10 mm from tip
0.30 mm aspirating port
15-093-21  21 Ga

Product design and/or features that do not influence its functionality and main parameters are subject to change.
IRRIGATING / ASPIRATING CANNULAS

Simcoe
I/A Cannula with Silicone Tubing
Regular
0.30 / 0.40 mm port
15-129-0.3 23/23 Ga
15-129-0.4 23/22 Ga

Simcoe
I/A Cannula with Silicone Tubing
Reverse
Aspiration through hub 0.30 / 0.40 mm port
Irrigation through tubing
15-133-0.3 23/23Ga
15-133-0.4 23/22Ga

“J” shape facilitates removal of cortex at 12 o’clock position

J Shaped
I/A Cannula with Silicone Tubing
Regular
0.30 mm top port
15-1149L 23/23 Ga, Left (shown)
15-1149R 23/23 Ga, Right

J Shaped
I/A Cannula with Silicone Tubing
Reverse
0.30 mm top port
15-1150L 23/23 Ga, Left
15-1150R 23/23 Ga, Right

Product design and/or features that do not influence its functionality and main parameters are subject to change.
LACRIMAL CANNULAS

Reinforced
Lacrimal Cannula
Malleable
20 Ga
Reinforced shaft 12 mm
15-027  23 Ga × 32 mm, Straight
15-029  23 Ga × 32 mm, Curved (shown)

Bailey
Lacrimal Cannula
Exposed tip, straight
For infants
Short 7mm straight shaft
20 Ga
15-031  23 Ga × 15 mm

Shahinian
Lacrimal Cannula
Smooth bullet shape end
15-032  25 Ga × 35 mm

Fasanella
Lacrimal Cannula
Gently curved
15-033  23 Ga × 42 mm

Anel
Lacrimal Cannula
Curved, special long mount blunt tip
15-035-23C  23 Ga
15-035-25C  25 Ga

Anel
Lacrimal Cannula
Straight, special long mount blunt tip
15-035-23S  23 Ga
15-035-25S  25 Ga

West
Lacrimal Cannula
Gently curved,
0.3 mm bottom port, blunt tip
15-037  23 Ga × 30 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
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 25 Ga /16 Ga × 12 mm shaft

Banaji
LASIK Irrigation Cannula
4 Ports 0.25 mm on periphery
Curved
15-373-25 25 Ga
15-373-27 27 Ga

Slade
LASIK Cannula
Flattened spatulated tip, end opening
15-376 26 Ga

Buratto
LASIK Irrigation Cannula
45° angled triport
15-379-25 25 Ga

Gimbel
LASIK Fountain Cannula
Single port
15-378R 25 Ga × 25.4 mm, Right

Product design and/or features that do not influence its functionality and main parameters are subject to change
DALK CANNULAS

Cannula for DALK procedure
Bottom port 0.2mm
Designed for air injection in order to achieve an ideal “Big Bubble”
15-450-27 27 Ga

GLAUCOMA CANNULAS

Viscocanalostomy Cannula
5 mm beveled tip, slightly angled Micro-Gauge cannula for viscoelastic injection during Glaucoma Surgery
15-1051-30 30 Ga

ACCESSORIES

Silicone Bulb With Adapter
15-301/303

Titanium Microsurgical Handle
Male-Male
15-307T

Titanium Microsurgical Handle
Male-Female
15-308T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**MISCELLANEOUS**

**RUST RING REMOVAL**

**Alger Brush**  
**Rust Ring Remover**  
A complete set of a power handle and a tungsten burr  
Battery operated  
Overall length 105 mm  
16-140 with 1.00 mm tungsten burr  
16-141 with 0.50 mm tungsten burr

**Tungsten Burrs**  
Replacement Burrs for Alger Brush  
Box of 5  
Overall length 22 mm  
Tungsten  
16-142B  1.00 mm burrs  
16-143B  0.50 mm burrs

**PTERYGIUM INSTRUMENTS**

**Alger Brush**  
**Pterygium Instrument**  
A complete set of a power handle and a 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 2.50 mm round fine diamond-dusted burr  
16-050-3.5 with 3.50 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 2.50 mm diameter  
16-051-3.5B  round 3.50 mm diameter  
16-052-5.0B  disk-shaped 5.00 mm diameter

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Product design and/or features that do not influence its functionality and main parameters are subject to change.
EYE CAUTERY

Electric Eye Cautery
Battery operated
Disposable
Sterile
10 / Box
16-041 Fine tip
16-042 Elongated tip

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

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

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 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, D cartridges
Can be supplied with 4-2141T IOL Loading Forceps
16-2806 For A, B, C cartridges
16-2808 For D cartridge

*Product design and/or features that do not influence its functionality and main parameters are subject to change.*
INJECTORS

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 4-2141T IOL Loading Forceps
16-2807

LENS LOOPS

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

LID PLATES

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

PUNCHES & RONGERS

Belz
Lacrimal Sac Rongeur
Polished finish
Stainless steel
16-138

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Trabeculectomy Punch
Micro Punch
0.60 mm diameter head
Bullet-shaped tip
0.30 mm x 0.60 mm deep bite
Compatible with Squeeze Handle 12-003T
Tip only
16-0111*

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

SCLERAL DEPRESSORS

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

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

SPOONS & CURETTES

Bunge
Evisceration Spoon
Round knurled handle
Overall length 130 mm
16-061 small size
16-062 large size

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)

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

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Handles are sold separately.
SURGICAL MALLETS & CHISELS

Surgical Chisel
3.00 mm
Stainless Steel
16-137

Surgical Mallet
Polished finish
Stainless steel
16-135

NASAL SPECULUMS

Nasal Speculum
Polished finish
Stainless steel
16-127  Adult Size

TRABECULOTOME

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

TREPHINE

Corneal Trephine Blades
Polished finish
Stainless steel
16-0300 6.00 mm 16-0307 8.00 mm
16-0301 6.50 mm 16-0308 8.25 mm
16-0303 7.00 mm 16-0309 8.50 mm
16-0305 7.50 mm 16-0310 9.00 mm
16-0306 7.75 mm 16-0311 9.50 mm

TUNNEL MAKERS

Tunnel maker
Internal diameter 4.40 mm
External diameter 5.60 mm
Stainless Steel
16-173S Left
16-174S Right

PERIOSTEAL ELEVATOR

Tenzel Periosteal Elevator
Overall size 130 mm
Shaft size to tip is 30 mm
Paddle Size is 4 mm (width)
Paddle thickness is 1.40 mm
Stainless Steel
The smooth end is used for blunt dissection of the periosteum over the inferior and lateral orbital rim.
The sharp edge is used to reflect periosteum from the incision in a downward direction over the cheekbone.
16-139

Product design and/or features that do not influence its functionality and main parameters are subject to change
STERILIZING TRAYS

PLASTIC TRAYS
Molded from General Electric's ULTEM® resin to guarantee product strength, structural integrity and extended life cycle.
Sterilizable by all standard methods of sterilization (autoclave, steam, dry heat, chemical).

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>Insert Type</th>
<th>Dimensions (LxWxH)</th>
<th>Reference</th>
<th>Insert Type</th>
<th>Dimensions (LxWxH)</th>
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<tbody>
<tr>
<td>18-300</td>
<td>1 special silicone plug-in insert</td>
<td>190x101x38</td>
<td>mm</td>
<td>inches</td>
<td>B medium</td>
</tr>
<tr>
<td>18-301</td>
<td>silicone finger tip mat</td>
<td>152x63.5x19</td>
<td>7.5x4x1.5’</td>
<td>E small</td>
<td></td>
</tr>
<tr>
<td>18-301-1</td>
<td>2 special silicone plug-in inserts</td>
<td>152x63.5x19</td>
<td>6x2.5x0.75’</td>
<td>E small</td>
<td></td>
</tr>
<tr>
<td>18-302</td>
<td>silicone finger tip mat</td>
<td>165x101x19</td>
<td>6.5x4x0.75’</td>
<td>C square</td>
<td></td>
</tr>
<tr>
<td>18-303</td>
<td>silicone finger tip mat</td>
<td>190x101x19</td>
<td>7.5x4x0.75’</td>
<td>B medium</td>
<td></td>
</tr>
<tr>
<td>18-303-1</td>
<td>4 special silicone plug-in inserts</td>
<td>190x101x19</td>
<td>7.5x4x0.75’</td>
<td>B medium</td>
<td></td>
</tr>
<tr>
<td>18-304</td>
<td>silicone finger tip mat</td>
<td>254x152x19</td>
<td>10x6x0.75’</td>
<td>A extralarge</td>
<td></td>
</tr>
<tr>
<td>18-305</td>
<td>silicone finger tip mat</td>
<td>254x152.4x38</td>
<td>10x6x1.5’</td>
<td>A extralarge, 2 levels</td>
<td></td>
</tr>
<tr>
<td>18-305-1</td>
<td>3 special silicone plug-in inserts</td>
<td>254x152.4x38</td>
<td>base and insert tray</td>
<td>\</td>
<td></td>
</tr>
<tr>
<td>18-307</td>
<td>for vitreoretinal microinscision tips</td>
<td>68.6x25.4x38</td>
<td>3x1.5x1’</td>
<td>F very small</td>
<td></td>
</tr>
<tr>
<td>18-308</td>
<td>mat</td>
<td>190x63.5x19</td>
<td>7.5x2.5x0.75’</td>
<td>D long</td>
<td></td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change
PLASTIC TRAYS

Tray
with 1 special silicone plug-in insert
190×101×38 mm
7.50×4.00×1.50 in
18-300 B medium

Tray
with silicone finger tip mat
152×63.5×19 mm
6.00×2.50×1.50 in
18-301 E small

Tray
with 2 special silicone plug-in inserts
152×63.5×19 mm
6.00×2.50×0.75 in
18-301-1 E small

Tray
with silicone finger tip mat
165×101×19 mm
6.50×4.00×0.75 in
18-302 C square

Tray
with silicone finger tip mat
190×101×19 mm
7.50×4.00×0.75 in
18-303 B medium

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Reusable anterior instruments by type

Tray
with silicone finger tip mat
254×152×19 mm
10.00×6.00×0.75 in
18-304  A extra large

Two levels tray
with silicone finger tip mat
Two levels base and insert tray
254×152.4×38 mm
10.00×6.00×1.50 in
18-305  A extra large

Tray for 3 phaco handpieces
with special silicone plug-in inserts
254×152.4×38 mm
10.00×6.00×1.50 in
18-305-1  A extra large

Tray for vitreoretinal / microincisional tips
68.6×38×25.4 mm
3.00×1.50×1.00 in
18-307  F very small

Tray
with mat
190.5×63.5×19 mm
7.50×2.50×0.75 in
18-308  D long

Product design and/or features that do not influence its functionality and main parameters are subject to change.
STERILIZING TRAYS

STAINLESS STEEL TRAYS

18-310 With Silicone Mat, Single Level, 200×170×35 mm

18-311 With Silicone Mat, Single Level, 270×170×35 mm

18-312 With Silicone Mat, Single Level, 240×240×41 mm

18-313 With Silicone Mat, Single Level, 380×240×41 mm

18-314 With Silicone Mat, Single Level, 480×240×41 mm

18-318 With Silicone Mat, Double Level, 240×240×60 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change.
LASEK/ LASIK INSTRUMENTS

EPITHELIUM REMOVAL KNIVES

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

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

SPATULAS

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

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 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

Product design and/or features that do not influence its functionality and main parameters are subject to change
SPATULAS

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

ReLEEx SMILE Double Lenticule Spatula
Blunt spoon and spatula
20-2071

Stodulka
ReLEEx SMILE Double Lenticule Spatula
Blunt spoon and flat spatula
20-207

Product design and/or features that do not influence its functionality and main parameters are subject to change.
TREPHINES AND FUNNELS

**LASEK Trephine**
For epithelial flap creation
Depth of the incision 70 mkm
Overall length 120 mm
- 20-1011 8.00 mm
- 20-1021 9.00 mm

**LASEK Funnel**
For the application of the alcohol solution
For 8 mm and 9 mm optical zones
Overall length 120 mm
Titanium
- 20-1031T 8.50 mm
- 20-1041T 9.50 mm

**LASEK Trephine & Funnel**
For epithelial flap creation
Depth of the incision 70 mkm
For the application of the alcohol solution
For 8 mm and 9 mm optical zones
Overall length 130 mm
- 20-121 8.00 & 8.50 mm
- 20-122 9.00 & 9.50 mm

**MARKING PEN**

**Marking Pen**
Double-ended
Disposable, 10 pcs per box
- 20-050

Product design and/or features that do not influence its functionality and main parameters are subject to change.
FEATURED REUSABLE ANTERIOR INSTRUMENTS AND SETS BY PROCEDURE

CATARACT 146
REFRACTIVE 166
CORNEAL 185
GLAUCOMA 194
PTERYGIUM 198
LACRIMAL SURGERY 201
OCULOPLASTIC SURGERY 209
Cataract

Phacoemulsification

Whipple Capsulorhexis
Centration Marker
Creates circular mark on the cornea to help gauge the size of the capsulotomy and its position
Double-ended with 5.50/6.00 mm diameter
3-040

Utrata With Ruler
Capsulorhexis Forceps
Curved jaws, 11 mm
With internal laser marks
Ultra-thin profile
Cystotome tips
Round handle
Overall length 110 mm
Titanium
4-03314T 2 engravings at 3, 6 mm
4-03315T 6 engravings at 1, 2, 3, 4, 5, 6 mm

Dressing Forceps
with Delicate Serrations
Straight serrated tips, 6 mm
Round handle
Overall length 108 mm
Stainless Steel
4-070S

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

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
Overall length 109 mm
Titanium
4-2141T

Product design and/or features that do not influence its functionality and main parameters are subject to change
Kuglen
Iris Hook and Lens Manipulator
0.15 mm diameter shaft
"H"-shaped tip
Overall length 122 mm
5-030 Angled

Sinskey
Lens Manipulating Hook
Angled
10 mm from tip to angle
0.15 mm diameter tip
Overall length 122 mm
5-032 Angled

Bechert
Nucleus Rotator
Angled
10 mm from tip to angle
"Y" shaped tip
Overall length 121 mm
5-034

Universal Side Port Diamond Knife
Straight titanium handle
Overall length 110 mm
Used for paracentesis

Phaco Diamond Knife
Angled titanium handle
Overall length 130 mm
Used for tunnel incision

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
PHACOEMULSIFICATION

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

Irrigation / Aspiration Handpiece
For Coaxial Phaco
Round handle
Standard connectors
Overall length 110 mm
Titanium
7-080/IAH

Tips for Irrigation / Aspiration Handpiece

- 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

Product design and/or features that do not influence its functionality and main parameters are subject to change
Holz Capsule Polisher
Designed to perform delicate polishing of the capsule
- Angled shaft
- "Iron"- shape tip
- Texturized tip for polishing of all capsule parts
- Sharpened ridge at the top for efficient polishing the bottom part of the anterior capsule
- Overall length 120 mm

7-142

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

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

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

7-0821-23 23 Ga
1x0.35 mm top port
Capsule polisher tip

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
- Extra fine jaws, 8 mm
- Overall length 115 mm
- Titanium
- 8-045T w/out lock

Product design and/or features that do not influence its functionality and main parameters are subject to change.
## PHACOEMULSIFICATION

### Corneal
**Universal Scissors**
- Curved
- Round handle
- Blunt tips
- Overall length 110 mm
- Stainless Steel
- 11-034S 7.50 mm blades
- 11-035S 11.00 mm blades (shown)

### Gills-Vannas
**Capsulotomy Scissors**
- 10 mm blades
- 13 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

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

### Capsule Polisher
**Microincisional Cannula, 23 Ga**
- Designed for polishing all aspects of the capsular bag through a sub-2 mm incision
- Texturized tip for delicate and efficient capsule polishing
- Curved tube for better visualization
- 23 Ga x 25 mm
- 15-170

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Simcoe
I/A Cannula with Silicone Tubing

Regular
0.30 mm port

15-129-0.3 23/23 Ga

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, D cartridges
Can be used with 4-2141 IOL Loading Forceps

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
# PHACOEMULSIFICATION SET

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>2-010T</td>
<td>1</td>
<td>Castroviejo Caliper</td>
</tr>
<tr>
<td>3-040</td>
<td>2</td>
<td>Whipple Capsulohexis Centration Marker</td>
</tr>
<tr>
<td>4-033T</td>
<td>3</td>
<td>Utrata Capsulohexis Forceps, Cystotome Tips, with scale</td>
</tr>
<tr>
<td>4-050T</td>
<td>4</td>
<td>Colibri Corneal Forceps</td>
</tr>
<tr>
<td>4-0600T</td>
<td>5</td>
<td>Castroviejo Suturing Forceps</td>
</tr>
<tr>
<td>4-072T</td>
<td>6</td>
<td>Dressing Forceps With Serrations</td>
</tr>
<tr>
<td>4-120S</td>
<td>7</td>
<td>Hartman Hemostatic Mosquito Forceps</td>
</tr>
<tr>
<td>4-174T</td>
<td>8</td>
<td>McPherson Angled Tying Forceps</td>
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<td>4-185T</td>
<td>9</td>
<td>Tennant Straight Tying Forceps</td>
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<td>10</td>
<td>Steinert Paddle Lens Folding Forceps</td>
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<td>4-2108S</td>
<td>11</td>
<td>Faulkner Lens Holding Forceps</td>
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<tr>
<td>4-241T</td>
<td>12</td>
<td>Cartridge Loading Forceps, For Inserting IOL</td>
</tr>
<tr>
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<td>Kuglen Iris Hook</td>
</tr>
<tr>
<td>5-032</td>
<td>14</td>
<td>Sinsky Hook</td>
</tr>
<tr>
<td>5-034</td>
<td>15</td>
<td>Bechert Nucleus Rotator</td>
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<tr>
<td>6-10/6-053</td>
<td>16</td>
<td>Diamond Knife, Trifacet Blade, 1.00 mm</td>
</tr>
<tr>
<td>6-20/6-107</td>
<td>17</td>
<td>Diamond Knife, Self-Diving Trapezoid Blade, 2.00/2.30 mm</td>
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<tr>
<td>7-0925</td>
<td>18</td>
<td>Ernest Nucleus Cracker</td>
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<tr>
<td>7-063 (7-064)**</td>
<td>19</td>
<td>Nagahama Phaco Chopper RHD (LHD*)</td>
</tr>
<tr>
<td>7-0634/I</td>
<td>20</td>
<td>Lesieur Hydrochopper, 20 Ga</td>
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</table>

* optional
** not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
PHACO PRECHOP

Westcott
Stitch Scissors
Gently curved
16 mm blades
Sharp pointed tips
Overall length 120 mm
Stainless Steel
11-044S Standard jaws

Lieberman Style
Temporal
“V” style open blades
Overall length 71 mm
14-040T adult
14-042T child

Jensen
Capsule Polisher
Gently Curved, Olive tip
All around sand blasted
15-159-25 25 Ga × 28 mm

Irrigating Cystotome
45° tip
21-R3925 25Ga × 5/8 in (0.50×16 mm)

Utrata
Capsulorrhexis Forceps
Straight jaws, 11 mm
Long handle
Overall length 107 mm
Titanium
4-030IT Cystotome tips

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**PHACO PRECHOP**

**Universal Side Port Diamond Knife**
- Straight titanium handle
- Overall length 110 mm
- Used for paracentesis

**Phaco Diamond Knife**
- Angled titanium handle
- Overall length 130 mm
- Used for tunnel incision

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

**Stodulka Enhanced Irrigation**
**Handpiece for Bimanual Technique**
- Curved
- 21 Ga
- Two Ports on Side 0.50 × 1.00 mm
- 7-0811

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Prechopper

**Angled**
- Maximum opening – 2.80 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 – 2.80 mm
- Overall length 121 mm
- Stainless Steel
- 7-1161S

**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 – 2.80 mm
- Overall length 120 mm
- Stainless Steel
- 7-1165S

**Aspiration Handpiece**

**For Bimanual Technique**
- Curved tube with texturized tip
- Round handle
- Titanium handle/Stainless steel tip
- Standard connector
- Overall length 104 mm
- 7-0821-23 23 Ga 1×0.35 mm top port
- Capsule polisher tip

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**PHACO PRECHOP SET**

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<td>6-10/6-053</td>
<td>5</td>
<td>Diamond Knife, Trifacet Blade, 100 mm</td>
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<tr>
<td>6-20/6-104</td>
<td>6</td>
<td>Diamond Knife, Self-Diving Trapezoid Blade, 2.30/2.80 mm</td>
</tr>
<tr>
<td>7-025T</td>
<td>7</td>
<td>Ernest Nucleus Cracker</td>
</tr>
<tr>
<td>7-081</td>
<td>8</td>
<td>Irrigation Handpiece For Bimanual Technique, 21Ga</td>
</tr>
<tr>
<td>7-0821</td>
<td>9</td>
<td>Aspiration Handpiece For Bimanual Technique, 22Ga</td>
</tr>
<tr>
<td>7-1161S</td>
<td>10</td>
<td>Combo Prechopper (Sharp&amp;Blunt Blades)</td>
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<thead>
<tr>
<th>Reference</th>
<th>Key</th>
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<tbody>
<tr>
<td>11-040S</td>
<td>11</td>
<td>Westcott Curved Tenotomy Scissors</td>
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<tr>
<td>11-044S</td>
<td>12</td>
<td>Westcott Stitch Scissors, Sharp Tips</td>
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<td>14-040T</td>
<td>13</td>
<td>Lieberman Temporal Speculum</td>
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<tr>
<td>15-071-25</td>
<td>14</td>
<td>McIntrye Nucleus Hydrodissector, 25Ga</td>
</tr>
<tr>
<td>15-059-27</td>
<td>15</td>
<td>Rycroft Anterior Chamber Cannula, 27Ga</td>
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<tr>
<td>15-159-25</td>
<td>16</td>
<td>Jensen Capsule Polisher, Curved, Olive tip, 25Ga</td>
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<tr>
<td>21-R3925</td>
<td>17</td>
<td>Irrigating Cystotome - Formed 25Ga, 10 per box</td>
</tr>
<tr>
<td>16-020T</td>
<td>18</td>
<td>Maloney Intraoperative Keratometer, TitaniumSterilizing Tray, Large</td>
</tr>
<tr>
<td>18-304*</td>
<td></td>
<td>* not shown</td>
</tr>
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</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
EXTRA CAPSULAR CATARACT EXTRACTION (ECCE)

CASTROviejo
Corneal Section Scissors
Lower blade 0.50 mm longer than upper blade
14 mm blades
Overall length 106 mm
Stainless Steel
11-024S Right (shown)

Vannas
Capsulotomy Scissors
6 mm blades
9 mm from pivot to tip
Sharp pointed tips
Overall length 84/81 mm
Stainless Steel
11-052S curved
11-054S angled

Gills-Vannas
Capsulotomy Scissors
10 mm blades
13 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

Strait Spatula
Overall length 122 mm
13-014 1.00 mm width, 13 mm length

CASTROviejo
Double Ended Cycldialysis Spatula
Overall length 136 mm
13-050 0.50 mm width, 10 & 15 mm length

CASTROviejo
Cycldialysis Spatula
Overall length 124 mm
13-051 1.00 mm width, 10 mm length

Product design and/or features that do not influence its functionality and main parameters are subject to change
EXTRA CAPSULAR CATARACT EXTRACTION

**Barraquer**
- Closed wire rounded blades
- Stainless steel
- Overall length 40 mm
- 14-022S adult (14 mm blades)

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

**Lieberman Style**
- Temporal
- Kratz style open blades
- Round branches
- Titanium
- Overall length 71 mm
- 14-040TK adult

**Knolle-Pearse**
- Irrigating Vectis
- 3 irrigating ports at 12, 10 and 2 O’clock
- Loop 5 mm wide, 9 mm long
- 15-183 23 Ga

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

**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
- 7-1271 LHD, Titanium handle
- 7-127 RHD, Titanium Handle

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Castroviejo
Suturing Forceps
Tying platform, 6 mm
Overall length 110 mm
Titanium or Stainless Steel
4-0600S 1×2 teeth, 0.12 mm
4-0600T 1×2 teeth, 0.12 mm

Kelman-McPherson
Tying Forceps
Overall length 84 mm
Stainless Steel
4-091S Tying Platforms, 8 mm

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

McDonald
Inserting Forceps for Silicone Lens
Concave jaws, 5 mm
Cross-action
Overall length 102 mm
Stainless Steel
4-213S

Akahoshi
Forceps For Acrylic Lens
Thin and smooth jaws, 7 mm
Jaws open up to 5.50 mm
Cross-action
Overall length 102 mm
Titanium
4-2138T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**Fechtner**  
**Conjunctiva Forceps**  
Delicate ring tip jaws  
Overall length 108 mm  
Titanium  
4-2301T Flat Handle

**McPherson**  
**Tying Forceps**  
Angled  
Long handle  
Standard handle  
Overall length 103 mm  
Titanium  
4-174T Tying Platform, 8 mm

**Aspirational Handpiece**  
**For Bimanual Technique**  
Curved tube with texturized tip  
Round handle  
Titanium handle/Stainless steel tip  
Standard connector  
Overall length 104 mm

**Rumex**  
**Lens Manipulator**  
Angled, 10 mm from tip to angle  
0.18 mm diameter shaft  
Button shaped 0.45 mm tip  
Overall length 122 mm  
5-031

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### EXTRA CAPSULAR CATARACT EXTRACCTION (ECCE) SET

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<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>2-010T</td>
<td>1</td>
<td>Castroviejo Caliper, Titanium</td>
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<td>3-040</td>
<td>2</td>
<td>Whipple Capsulorhexis Centration Marker</td>
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<td>4-0331ST</td>
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<td>Utrata Capsulorhexis Forceps with Ruler</td>
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<td>4-050T</td>
<td>4</td>
<td>Collini Corneal Forceps, 0.12 mm 1-2 Teeth</td>
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<td>4-0600T</td>
<td>5</td>
<td>Castroviejo Suturing Forceps, 0.12 mm 1-2 Teeth</td>
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<td>4-120S</td>
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<td>Hartman Mosquito Forceps, Straight</td>
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<tr>
<td>4-174T</td>
<td>7</td>
<td>McPherson Angled Tying Forceps</td>
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<td>4-185T</td>
<td>8</td>
<td>Tennant Straight Tying Forceps</td>
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<td>Tennant Curved Tying Forceps</td>
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<td>4-207T</td>
<td>10</td>
<td>Steinert Paddle Lens Folding Forceps</td>
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<td>4-213T</td>
<td>11</td>
<td>McDonald Style Inserting Forceps</td>
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<tr>
<td>4-214T</td>
<td>12</td>
<td>Cartridge Loading Forceps</td>
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<tr>
<td>4-2300T</td>
<td>13</td>
<td>Fechtner Conjunctiva Forceps</td>
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<td>5-030</td>
<td>14</td>
<td>Kuglen Hook</td>
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<td>5-0331</td>
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<td>Lester Lens Manipulator</td>
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<td>16</td>
<td>Bechert Nucleus Rotator</td>
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<td>6-10/6-053</td>
<td>17</td>
<td>Diamond Knife, Trifacet Blade, 1.00 mm</td>
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<tr>
<td>6-20/6-104</td>
<td>18</td>
<td>Diamond Knife, Self-Diving Trapezoid Blade, 2.30/2.80 mm</td>
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* not shown

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<tr>
<td>7-025T</td>
<td>19</td>
<td>Ernest Nucleus Cracker</td>
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<td>7-065</td>
<td>20</td>
<td>Rosen Phaco Chopper Universal</td>
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<tr>
<td>7-081-23</td>
<td>21</td>
<td>Irrigation Handpiece, Curved, 23 Ga</td>
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<tr>
<td>7-0821-23</td>
<td>22</td>
<td>Aspiration Handpiece, Curved, 23 Ga</td>
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<tr>
<td>8-04IT</td>
<td>23</td>
<td>Barraquer Needle Holder, Medium</td>
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<td>10-5016-1</td>
<td>24</td>
<td>Disposable Iris Retractors (1 pack of 4 pcs)</td>
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<td>11-040S</td>
<td>25</td>
<td>Westcott Curved Tenotomy Scissors</td>
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<td>11-058S</td>
<td>26</td>
<td>Gills-Vennas Capsulotomy Scissors, 10 mm Blades</td>
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<tr>
<td>14-022S</td>
<td>27</td>
<td>Barraquer Wire Speculum, Adult Size</td>
</tr>
<tr>
<td>14-040TK</td>
<td>28</td>
<td>Lieberman Temporal Speculum, Adult Size</td>
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<tr>
<td>15-0681</td>
<td>29</td>
<td>Cheng Nucleus Hydrosector</td>
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<tr>
<td>15-071-25</td>
<td>30</td>
<td>McIntyre Nucleus Hydrosector, Spatulated</td>
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<tr>
<td>15-170</td>
<td>31</td>
<td>Microincisional Capsule Polisher, 23 Ga</td>
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<tr>
<td>15-129-0.3</td>
<td>32</td>
<td>Simcoe I/Va Cannula, 23/23 Ga</td>
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<tr>
<td>15-301/303</td>
<td>33</td>
<td>Silicone Bulb With Adapter</td>
</tr>
<tr>
<td>16-034IT</td>
<td>34</td>
<td>Thornton Fixation Ring With Swivel</td>
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<tr>
<td>16-080S</td>
<td>35</td>
<td>Towel Clamp</td>
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<tr>
<td>16-2806</td>
<td>36</td>
<td>IOL injector for A, B, C cartridges</td>
</tr>
<tr>
<td>18-305*</td>
<td></td>
<td>Plastic Sterilizing Tray, Double Level, Large</td>
</tr>
</tbody>
</table>

**Product design and/or features that do not influence its functionality and main parameters are subject to change.**
MICS

Lieberman Style
Temporal
«V» style open blades
14-080A adult

Kershner
One-Pinch Capsulorhexis Forceps
Curved 23 Gauge shaft
For High Vacuum Phaco
Jaws length 2.50 mm
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T
4-03731* 23Ga

Kershner
One-Pinch Capsulorhexis Forceps with Micro Jaws
Curved 23 Gauge shaft
Micro jaws length 1.80 mm
Reduced length of the branches for better maneuverability in the anterior chamber during capsulorhexis
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T
4-03741* 23Ga

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Handles are sold separately
Lesieur
Capsulorhexis Forceps with Internal Ruler
Compatible with Squeeze Handle 12-003T
Tip only
4-03742* 23 Ga

Capsulorhexis Forceps with Internal Ruler, 23Ga
The internal laser marks allow to measure the size of rhexis
Curved 23 Gauge shaft
Micro jaws length 0.80 mm
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T
4-0375* – 6 engravings at 1, 2, 3, 4, 5, 6 mm

Kawai
Capsulorhexis Forceps
Curved tapered elongated 23/25 Ga shaft
Designed to perform Capsulorhexis through 0.80 mm side-port incision.
The construction of the forceps shows least adverse effect on the wound.
Gripping tips are projected out of 25 Ga shaft
Cystotome tips
Compatible with Squeeze Handle 12-003T
4-03771* 23/25 Ga

Colibri
Corneal Forceps
1×2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 77 mm
Titanium
4-0501T

Product design and/or features that do not influence its functionality and main parameters are subject to change
*Handles are sold separately.
MICS

Universal Side Port Knives
Straight Titanium Handle
Overall Length 110 mm
Used for paracentesis

Phaco Diamond Knife
Angled titanium handle
Overall length 130 mm
Used for tunnel incision

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
# BIMANUAL MICROPHACO (MICS) SET

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<thead>
<tr>
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<td>4-03771</td>
<td>1</td>
<td>Kawai Capsulorhexis Forces, Tapered 23/25Ga shaft</td>
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<tr>
<td>4-0501T</td>
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<td>Collar Corneal Forces, 0.12 mm x 2 Teeth</td>
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<td>4-0600T</td>
<td>3</td>
<td>Castroviejo Suturing Forces, 0.12 mm x 2 Teeth</td>
</tr>
<tr>
<td>4-174T</td>
<td>4</td>
<td>McPherson Angled Tying Forces</td>
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<td>5-032</td>
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<td>Sinskey Hooks</td>
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<td>Bechert Nucleus Rotator</td>
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<td>6-10/6-053</td>
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<td>Diamond Knife Trifacet Blade, 1.00 mm</td>
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<td>6-20/6-144</td>
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<td>Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm</td>
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<td>Nagahara Phaco Chopper RHD (LHD*)</td>
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<td>7-081</td>
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<td>Irrigation Handpiece For Bimanual Technique, 21 Ga</td>
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<tr>
<td>7-0821</td>
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<td>Aspiration Handpiece For Bimanual Technique, 22 Ga</td>
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<tbody>
<tr>
<td>11-03741</td>
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<td>Side Port Capsulotomy Scissors, Left, 20Ga</td>
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<td>11-03751</td>
<td>13</td>
<td>Side Port Capsulotomy Scissors, Right, 20Ga</td>
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<td>11-0445</td>
<td>14</td>
<td>Westcott Stitch Scissors</td>
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<td>14-080A</td>
<td>15</td>
<td>Lieberman Temporal Speculum With Aspiration</td>
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<td>15-0681</td>
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<td>Chang Nucleus Hydrodissector, 27Ga</td>
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<tr>
<td>15-170</td>
<td>17</td>
<td>Microincisional Capsule Polisher Cannula, Disc-shaped Tip, 23 Ga</td>
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<tr>
<td>15-129-0.3</td>
<td>18</td>
<td>Simcoe I/A Cannula, 23/23Ga</td>
</tr>
<tr>
<td>15-303/303</td>
<td>19</td>
<td>Silicone Bulb With Adapter</td>
</tr>
<tr>
<td>18-304**</td>
<td></td>
<td>Sterilizing Tray, Large</td>
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<tr>
<td>12-003T**</td>
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<td>Universal Squeeze Handle (3 pcs)</td>
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</table>

* optional
** not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**PRK/LASIK**

**Lieberman Style**
Speculum for LASIK

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

**Lieberman Style**
Speculum for LASIK

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

**Lieberman Style**
Speculum for LASIK

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

**Lieberman Style**
Speculum for LASIK

Rounded open blades
14-080LA temporal
14-081LA nasal

Product design and/or features that do not influence its functionality and main parameters are subject to change
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  25 Ga /16 Ga × 12 mm shaft

Banaji
LASIK Irrigation Cannula
4 Ports 0.25 mm on periphery
Curved
15-373-25  25 Ga
15-373-27  27 Ga

Slade
LASIK Cannula
Flattened spatulated tip, end opening
15-376  26 Ga

Gimbel
LASIK Fountain Cannula
Single port
15-378R  25 Ga × 25.40 mm, Right
15-378L  25 Ga × 25.40 mm, 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  25 Ga

Product design and/or features that do not influence its functionality and main parameters are subject to change
PRK/LASIK

Paton
Double Ended Spatula and Spoon
Spatula for manipulations with the cornea (LASIK/PRK/Corneal Transplantation)
Overall length 150 mm
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

Product design and/or features that do not influence its functionality and main parameters are subject to change
Lavery LASIK Marker
8.50 mm optical zone
5 asymmetrical marking lines to ensure right placement of a corneal flap
With an optical center 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 SET

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<tr>
<th>Reference</th>
<th>Key</th>
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<tbody>
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<td>3-174T</td>
<td>1</td>
<td>Lavery LASIK Marker</td>
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<tr>
<td>4-2206T</td>
<td>2</td>
<td>LASIK Flap Forceps, Curved, Titanium</td>
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<tr>
<td>13-110</td>
<td>3</td>
<td>Paton Double-ended Spatula And Spoon</td>
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<tr>
<td>14-080LA</td>
<td>4</td>
<td>Lieberman Temporal Speculum With Aspiration for LASIK</td>
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<td>15-373-25</td>
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<td>Banaji LASIK Irrigation Cannula, 25Ga</td>
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<td>15-376</td>
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<td>Slade LASIK Cannula, 26Ga</td>
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<tbody>
<tr>
<td>15-378R</td>
<td>7</td>
<td>Gimbel LASIK Fountain Cannula, Right, 25Gax25.4 mm</td>
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<td>15-379-25</td>
<td>8</td>
<td>Buratto LASIK Irrigation Cannula 25Ga, 45° angled triport</td>
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<td>16-034T</td>
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<td>Frei/Thornton Fixation Ring With Swivel</td>
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<td>20-015</td>
<td>10</td>
<td>LASIK Spatula And Flap Retreatment Instrument</td>
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<tr>
<td>20-001</td>
<td>11</td>
<td>Hockey Epithelium Removal Knife</td>
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<td>20-002</td>
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<td>Lindstrom LASIK/PKR Spatula and Epithelium Removal Board</td>
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<tr>
<td>18-304*</td>
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<td>Plastic Sterilizing Tray, Single Level, Large</td>
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LASEK

LASEK Trephine
For epithelial flap creation
Depth of the incision 70 μm
Overall length 120 mm
20-1011  8.00 mm
20-1021  9.00 mm

LASEK Funnel
For the application of alcohol solution
For 8 mm and 9 mm optical zones
Overall length 120 mm
20-1031T  8.50 mm
20-1041T  9.50 mm

LASEK Trephine & Funnel
For epithelial flap creation
Depth of the incision 70 μm
For the application of alcohol solution
For 8 mm and 9 mm optical zones
Overall length 130 mm
20-121  8.00 & 8.50 mm
20-122  9.00 & 9.50 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
Overall length 130 mm
20-001

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### LASEK SET

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>14-040TL</td>
<td>1</td>
<td>Lieberman Temporal Speculum for LASIK</td>
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<tr>
<td>20-0011</td>
<td>2</td>
<td>LASEK Knife</td>
</tr>
<tr>
<td>20-121</td>
<td>3</td>
<td>LASEK 8.00 mm Trephine / 8.50 mm Funnel</td>
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* not shown

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<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>20-122</td>
<td>4</td>
<td>LASEK 9.00 mm Trephine / 9.50 mm Funnel</td>
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<tr>
<td>20-130</td>
<td>5</td>
<td>LASEK Detaching Spatula</td>
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<tr>
<td>20-131</td>
<td>6</td>
<td>LASEK Epithelial Micro Hoe</td>
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<tr>
<td>18-304*</td>
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<td>Plastic Sterilizing Tray, Single Level, Large</td>
</tr>
</tbody>
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Product design and/or features that do not influence its functionality and main parameters are subject to change.
FEMTOLASIK

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

Marking Pen
Double-ended
Disposable, 10 pcs per box
20-050

Product design and/or features that do not influence its functionality and main parameters are subject to change.
# FEMTOLASIK SET

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
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<tbody>
<tr>
<td>3-176T</td>
<td>1</td>
<td>LASIK Flap Marker</td>
</tr>
<tr>
<td>4-2206T</td>
<td>2</td>
<td>LASIK Flap Forceps, Curved, Titanium</td>
</tr>
<tr>
<td>14-040TL</td>
<td>3</td>
<td>Lieberman Temporal Speculum for LASIK</td>
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<tr>
<td>14-080LA</td>
<td>4</td>
<td>Lieberman Temporal Speculum with Aspiration for LASIK</td>
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<tr>
<td>15-379-25</td>
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<td>Buratto LASIK Irrigation Cannula, 25 Ga</td>
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* not shown

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<thead>
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<tr>
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<td>Femtolasik Flap Spatula Double-ended</td>
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<td>20-202</td>
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<td>Femtolasik Flap Spatula</td>
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<td>Zaldivar Femtolasik Spatula</td>
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<td>18-304*</td>
<td></td>
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</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**RELEX SMILE**

**Stodulka**

**ReLEX Smile Double Spatula**
Pocketing spatula for creating the entrance and intrastromal pocket dissector
Fine flat spatula to open the intrastromal pocket

20-207

**20-2071**
ReLEX Smile double lenticule spatula (blunt spoon and shortened atraumatic spatula)

**Stodulka**

**Forceps**
For Small-Incision Lenticule Extraction
Designed to grasp the lenticule and remove it from the corneal pocket
Special configuration of branches for comfortable gripping
Overall length 100 mm
Stainless Steel

**4-2012S**
Designed to grasp the lenticule and remove it from the corneal pocket

Ultra thin tips are safe for the pocket walls

Combination of the tips surface (texturized and crocodile) for efficient grasping of the lenticule

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**LRI**

**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°
4 grooves for better marks visualization
Internal diameter 13 mm/external diameter 16.50 mm
Overall length 122 mm
Titanium

2-0331T

**Rumex**

Degree Gauge With Beveled Face

Can be used with 3-091T Bores Axis Marker
Calibrated every 5 degrees from 0° to 180° for precise marking
Beveled face minimizes the microscope glare
Marks are clearly visible providing high accuracy
Degree marks are close to the cornea
Internal diameter 12 mm / external diameter – 16 mm
Overall length 122 mm
Titanium

2-0361T

**Bores**

Axis Marker

Intra-Op
Overall length 130 mm
Titanium
3-090T used with Gauge 2-0331T to mark the axis
3-091T used with Gauge 2-0361T to mark the axis

**LRI Marker**

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
Universal Three-Step Knife
For Cataract and LRI Surgery

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

LRI SET

Reference  Key  Description
2-0331T  1  Grooved Mendez Degree
3-090T  2  Bores Axis Marker
3-1932  3  Whitehouse Gravity Axis Marker II, Straight
6-322/6-0531  4  Universal Three-Step Diamond Knife for Cataract and LRI Surgery

Reference  Key  Description
* optional
3-1801  1  LRI Marker, 40-60-80 degrees
3-1932  2  Whitehouse Gravity Axis Marker II, Straight
6-322/6-0531  3  Universal Three-Step Diamond Knife for Cataract and LRI Surgery

Product design and/or features that do not influence its functionality and main parameters are subject to change
TORIC IOL IMPLANTATION

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°
4 grooves for better marks visualization
Internal diameter 12 mm/external diameter 14 mm
Dull finish
Overall length 120 mm
Titanium
2-034T

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

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
TORIC IOL IMPLANTATION

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 Capsulorhexis
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 23 Ga × 25 mm

Universal Side Port Diamond Knife
Straight titanium handle
Overall length 110 mm
Used for paracentesis

6-10/6-052
45° Double Edge 1.00 mm

6-10/6-053
Trifacet 1.00 mm

Phaco Diamond Knife
Angled titanium handle
Overall length 130 mm
Used for tunnel incision

Trapezoid Self-Diving Blade
6-20/6-144 1.80/2.00 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change
TORIC IOL IMPLANTATION SET

<table>
<thead>
<tr>
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<th>Key</th>
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<td>Grooved Fine Mendez Degree</td>
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<td>2</td>
<td>Bores Axis Marker</td>
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<td>3-193</td>
<td>3</td>
<td>Whitehouse Gravity Axis Marker, Angled</td>
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<td>15-170</td>
<td>4</td>
<td>Microincisional Capsule Polisher Cannula, Disc-shaped Tip, 23 Ga</td>
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<td>20-050</td>
<td>5</td>
<td>Disposable Marking Pen</td>
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<tr>
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<tbody>
<tr>
<td>3-194</td>
<td>1</td>
<td>Rumex Toric Combo Marker, Vertical 0-0 Axis (Horizontal 0-0 Axis)</td>
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<tr>
<td>3-194*</td>
<td>2</td>
<td>Microincisional Capsule Polisher Cannula, Disc-shaped Tip, 23 Ga</td>
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<tr>
<td>15-170</td>
<td>3</td>
<td>Disposable Marking Pen</td>
</tr>
<tr>
<td>20-050</td>
<td>4</td>
<td>Diamond Knife, Trifacet Blade, 100 mm</td>
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<tr>
<td>6-10/6-053</td>
<td>5</td>
<td>Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm</td>
</tr>
</tbody>
</table>

*optional set

Product design and/or features that do not influence its functionality and main parameters are subject to change.
PHAKIC IOL IMPLANTATION

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
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

Zaldivar Knife for ICL Implantation
Straight titanium handle
Overall length 110 mm
6-20/6-0551

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

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

*Handles are sold separately

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

Reference | Key Description
--- | ---
4-0801T | 1 Nevias-Wallace Fixation Forceps, 0.12mm 1x2 Teeth
4-2011S | 1 CIL™ Cartridge Loading Forceps
4-2143/1 | 2 Coaxial ICL Loading Forceps/Universal Squeeze Handle
12-003T* | 2 Universal Squeeze Handle
13-141 | 3 Paliaris ICL™ Manipulator

Reference | Key Description
--- | ---
13-142 | 5 Zaldivar ICL™ Manipulator
14-040T | 6 Lieberman Temporal Speculum
6-20/6-0551 | 7 Zaldivar Diamond Knife, 0.55/1.00 mm
18-304* | Sterilizing Tray, Single Level, Large

* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
ICRS IMPLANTATION

Optical Zone Marker
Used to mark visual center for ICRS implantation procedure
Double ended
Visual center marker 0.15 mm width
Sinskey hook 0.50 mm width
Titanium Handle/Stainless Steel Tips
Overall length 141 mm
3-034

Tunnel Zone Marker
Marking tunnel for future ring position with initial lines for incisions
Internal diameter 4 mm/external diameter 6 mm
Creates 2 mm lines
40 degree angled to handle
Titanium
Overall length 127 mm
3-143T

Nevyas-Wallace
Fixation Forceps
Two point fixation
13 mm between the ends
1x2 teeth, 0.12 mm
Straight shafts
Round handle
Overall length 105 mm
Titanium
4-08011T

Diamond Knife for ICRS
Micrometric Handle, Titanium
1.00 mm width
Designed for implantation of intrastomal corneal ring segments (ICRS)
Performs a 1 mm radial incision at 70–80% of corneal thickness
Micrometric scale allows to customize the depth of the blade
from 0 to 1000 microns (0 to 1.00 mm)
Increment – 5 microns (0.005 mm)
The maximal depth of the blade is 1700 microns (1.70 mm)
6-00/6-020 1.00 mm width

Product design and/or features that do not influence its functionality and main parameters are subject to change
Forceps for ICRS Implantation
- 0.20 mm 1×1 teeth
- 0.30 mm groove
- Overall length 85 mm
- Titanium
- 4-2144T

Elevator for ICRS Implantation
Creates a small notch in intended direction of the tunnel
- 0.10 mm height, 0.20 mm width, 0.70 mm length
- Straight shaft
- Overall length 123 mm
- 10-035

Suarez Spreader
For widening the notches in both directions in a proper depth
- 0.10 mm height, 0.60 mm width, 1.25 mm length
- Straight shaft
- Overall length 122 mm
- 13-146

Bicalto Guide
For lifting the cornea prior to the Tunnel Maker insertion
- Blunt tip
- 0.30 mm height, 0.10 mm width, 5.00 mm length
- Angled shaft
- Overall length 121 mm
- 13-147

Tunnel Maker
- Internal diameter 4.40 mm
- External diameter 5.60 mm
- Stainless Steel
- 16-173S Left
- 16-174S Right

Product design and/or features that do not influence its functionality and main parameters are subject to change
ICRS SET

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<td>Mendez Degree Gauge</td>
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<td>Optical Zone Marker</td>
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<tr>
<td>3-143T</td>
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<td>Tunnel Zone Marker</td>
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<tr>
<td>4-0801T</td>
<td>4</td>
<td>Nevayas-Wallace Fixation Forceps</td>
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<tr>
<td>4-2144T</td>
<td>5</td>
<td>Forceps for ICRS Implant</td>
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<td>6-00/6-020</td>
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<td>Diamond Knife for ICRS, Micrometer Handle, 100 mm</td>
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<td>10-035</td>
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<td>Elevator for ICRS implantation</td>
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<tr>
<td>13-146</td>
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<td>Suarez Spreader</td>
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<td>13-147</td>
<td>9</td>
<td>Bicatto Guide</td>
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<td>16-173S</td>
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<td>Tunnel Maker Left</td>
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<td>16-174S</td>
<td>11</td>
<td>Tunnel Maker Right</td>
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<tr>
<td>18-304*</td>
<td>11</td>
<td>Plastic Sterilizing Tray, Single Level, Large</td>
</tr>
</tbody>
</table>

* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change
CORNEAL TRANSPLANTATION

Corneal Trephine Blades
Stainless Steel
- 16-0300 6.00 mm
- 16-0301 6.50 mm
- 16-0303 7.00 mm
- 16-0305 7.50 mm
- 16-0306 7.75 mm
- 16-0307 8.00 mm
- 16-0308 8.25 mm
- 16-0309 8.50 mm
- 16-0310 9.00 mm
- 16-0311 9.50 mm

Corneal Transplant Marker
- 7 mm ring with 8 radial blades
- With center pointer
- Overall length 130 mm
- Titanium
- 3-140T

Universal Straight Side Port Diamond Knife
- Straight titanium handle
- Overall length 110 mm
- Used for paracentesis

Polack
Corneal Transplant Fixation Forceps
- Two point fixation
- Delicate 1×2 teeth, 0.12 mm
- 1.2 mm between the ends
- Curved shafts
- Pierce type tips
- Round handle
- Overall length 112 mm
- Titanium
- 4-0814T

Katzin
Corneal Transplant Scissors
- Strongly curved
- Medium blades
- Blunt tips
- Overall length 100 mm
- Stainless Steel
- 11-020S Left (shown)
- 11-0201S Right

Flieeringa Rings
- Sutured to the sclera to support the globe during difficult eye operations.
- Stainless Steel
- 16-030-14 (14 mm)
- 16-030-15 (15 mm)
- 16-030-16 (16 mm)
- 16-030-17 (17 mm)
- 16-030-18 (18 mm)
- 16-030-19 (19 mm)
- 16-030-20 (20 mm)
- 16-030-21 (21 mm)
- 16-030-22 (22 mm)

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### CORNEAL TRANSPLANTATION SET

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<td>Corneal Transplant Marker</td>
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<td>Pollack Corneal Transplantation Fixation Forceps</td>
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<td>Castroviejo Collin Corneal Forceps, 0.12 mm 1-2 Teeth</td>
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<td>Bishop-Harmon Suturing Forceps, 0.30 mm 1-2 Teeth</td>
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<td>5</td>
<td>Castroviejo Suturing Forceps, 0.12 mm 1-2 Teeth</td>
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<td>Castroviejo Suturing Forceps, 0.30 mm 1-2 Teeth</td>
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<td>7</td>
<td>Kelman-McPherson Tying Forceps, 4 mm Platforms</td>
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<td>4-17BS</td>
<td>8</td>
<td>McPherson Straight Tying Forceps, 7 mm Platforms</td>
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<td>4-120S</td>
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<td>Hartman Mosquito Forceps</td>
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<td>6-10/6-053</td>
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<td>Diamond Knife, Trifacet Blade, 1.00 mm</td>
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<td>8-031T</td>
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<td>Barraquer Needle Holder, Medium</td>
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<td>8-045T</td>
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<td>Barraquer Needle Holder, Extra Fine Jaws, Medium</td>
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<tr>
<td>11-020S</td>
<td>13</td>
<td>Katzin Corneal Transplant Scissors, Left</td>
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<tr>
<td>11-0201S</td>
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<td>Katzin Corneal Transplant Scissors, Right</td>
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* Reference Key Description Reference Key Description

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<td>11-024S</td>
<td>14</td>
<td>Castroviejo Corneal Section Scissors, Right</td>
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<td>11-0241S</td>
<td>15</td>
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<td>Westcott Curved Tenotomy Scissors</td>
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<td>Westcott Stitch Scissors</td>
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<td>Paton Double Ended Spathula And Spoon</td>
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<td>14-022S</td>
<td>18</td>
<td>Barraquer Wire Speculum, Adult Size</td>
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<td>19</td>
<td>Rycroft Anterior Chamber Cannula, 25 Ga</td>
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<td>Silicone Bulb With Adapter</td>
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<td>21</td>
<td>Towel Forceps</td>
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<td>16-0305</td>
<td>22</td>
<td>Corneal Trephine Blades, 7.50 mm</td>
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<td>16-0307</td>
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<td>Corneal Trephine Blades, 8.00 mm</td>
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<tr>
<td>18-305*</td>
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<td>Plastic Sterilizing Tray, Double Level, Large</td>
</tr>
</tbody>
</table>

* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
DSEK, DSAEK, DMEK

**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
- Ensuring the 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

**Dexatome DMEK/DSAEK Spatula**
- Spatula for removal of the Descemet's membrane as a single disc
- Strongly vaulted shaft
- Round Handle
- Overall Length 114 mm
- 13-182

*Handles are sold separately.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
DSEK, DSAEK, DMEK

DSAEK Stromal Scrubber
Strongly Vaulted Shaft
Round Handle
Overall Length 114 mm
13-183

DSAEK Glider
To diminish and eliminate donor disk wrinkles at the donor host interface
13-184

Tan Marginal DMEK Dissector
Double tipped end is designed for cutting the peripheral ends of donor Descemet’s membrane without risk of radial tears occurrence
Curved single tipped end is used for convenient separation of the DM from the stroma
13-185

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
DSEK, DSAEK, DMEK SET

<table>
<thead>
<tr>
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<tr>
<td>3-0218T</td>
<td>1</td>
<td>Hoffer Optical Zone Marker, 8.50mm</td>
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<td>Corneal Donor Insertion Forceps</td>
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<td>Reversed Sinskey Hook</td>
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<td>13-137</td>
<td>5</td>
<td>Corneal Dissector, Straight</td>
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<td>13-138</td>
<td>6</td>
<td>Corneal Dissector, Curved</td>
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<td>13-139H</td>
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<td>Endothelial Stripper, Irrigating</td>
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<td>Carlson DSEK Smoother</td>
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<td>Terry DSEK Scraper</td>
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<td>Melles DSAEK PLK Scraper, Style 1</td>
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<td>13-155T</td>
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<td>Melles DSAEK PLK Scraper, Style 2</td>
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</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**DALK**

**DALK Corneal Transplant Scissors**
Blades with blunt ledge (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)
11-038S left

**Trisector for DALK Procedure**
Flat 1.40×0.70 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

**Spatula for DALK Procedure**
Flat 1×8 mm 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
12 mm length blunt beveled tip
Overall length 122 mm

**Cannula for DALK Procedure**
0.20 mm port at the bottom
27 Gauge
Designed for air injection in order to achieve ideal “Big Bubble”
Stainless steel
15-450-27

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### DALK SET

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<thead>
<tr>
<th>Reference</th>
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<tbody>
<tr>
<td>11-038S</td>
<td>1</td>
<td>Scissors for DALK Procedure, Right</td>
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<td>11-0381S</td>
<td>2</td>
<td>Scissors for DALK Procedure, Left</td>
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<td>13-170</td>
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<td>Trisector for DALK Procedure</td>
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<td>13-171</td>
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<td>Spatula for DALK Procedure</td>
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<td>13-172</td>
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<td>Dissector for DALK Procedure</td>
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<td>Cannula for DALK Procedure, 27 Ga</td>
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<td>11-134</td>
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<td>Holland Spatulated DALK Scissors, Right</td>
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<td>11-135</td>
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<td>Holland Spatulated DALK Scissors, Left</td>
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<tr>
<td>4-178S</td>
<td>9</td>
<td>McPherson Tying Forceps, Straight, Stainless Steel</td>
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<tr>
<td>4-174T</td>
<td>10</td>
<td>McPherson Tying Forceps, Angled, Titanium</td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
DLEK

DLEK Corneal Transplant Scissors
Long blades
For the removal of the posterior corneal layers
Overall length 102/110 mm
Stainless Steel
11-036S medium curve
11-0361S strong curve

Manipulator for DLEK procedure
Designed to tuck the edges of the donor lamella 0.15 mm diameter tip
Round handle
Z-hook with Blunt Tip
Overall length 120 mm
13-160

Hoffer
Optical Zone Marker
With cross hairs
Overall length 130 mm
Titanium
3-0201T 2.50 mm  3-0211T 5.00 mm
3-0202T 2.75 mm  3-0212T 5.50 mm
3-0203T 3.00 mm  3-0213T 6.00 mm
3-0204T 3.25 mm  3-0215T 7.00 mm
3-0205T 3.50 mm  3-0216T 7.50 mm
3-0206T 3.75 mm  3-0217T 8.00 mm
3-0207T 4.00 mm  3-0218T 8.50 mm
3-0208T 4.25 mm  3-0219T 9.00 mm
3-0209T 4.50 mm  3-0220T 9.50 mm
3-0210T 4.75 mm

Product design and/or features that do not influence its functionality and main parameters are subject to change
## DLEK SET

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<tr>
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<td>2-010T</td>
<td>1</td>
<td>Castroviejo Caliper</td>
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<td>3-027T</td>
<td>2</td>
<td>Hoffer Optical Zone Marker, 8.00mm</td>
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<tr>
<td>4-0814T</td>
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<td>Pollack Corneal Transplantation Fixation Forceps</td>
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<td>5-0322</td>
<td>4</td>
<td>Reversed Sinskey Hook</td>
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<td>11-036S</td>
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<td>DLEK Scissors, Medium Curve</td>
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<td>11-0361S</td>
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<td>DLEK Scissors, Strong Curve</td>
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<td>Corneal Dissector</td>
</tr>
<tr>
<td>13-160</td>
<td>9</td>
<td>Manipulator for DLEK procedure</td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
GLAUCOMA

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
0.60 mm diameter head
Bullet-shaped tip
0.30 mm × 0.60 mm deep bite
Compatible with Squeeze Handle (12-003T)
16-0111*

Product design and/or features that do not influence its functionality and main parameters are subject to change
Curved Spatula
Overall length 122 mm
13-020  0.25 mm width, 12 mm length

Castroviejo
Double Ended Cycloidalysis Spatula
Overall length 136 mm
13-050  0.50 mm width, 10 & 15 mm length

Castroviejo
Suturing Forceps
Tying platform, 6 mm
Overall length 110 mm
Titanium or Stainless Steel
4-0600S  1×2 teeth, 0.12 mm
4-0600T  1×2 teeth, 0.12 mm

Moorfields
Suturing Forceps
For gripping the tissue, conjunctiva and Tenon’s capsule
Grooved section, 13 mm
Overall length 110 mm
Titanium
4-2303T

Fechtner
Conjunctiva Forceps
Delicate ring tip jaws
Overall length 108 mm
Titanium
4-2301T  Flat Handle

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
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

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

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

Universal Straight Side Port
Diamond Knife
Straight titanium handle
Overall length 110 mm
Used for flap formation

Diamond Knife for Flap Dissection
Angled titanium handle
Overall length 130 mm
Used for flap dissection

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Product design and/or features that do not influence its functionality and main parameters are subject to change.
PTERYGIUM

Alger Brush
Pturgyum 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 Pturgyum 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

Castroviejo
Suturing Forceps
Tying platform, 6 mm
Overall length 110 mm
Titanium or Stainless Steel
4-0600S 1×2 teeth, 0.12 mm
4-0600T 1×2 teeth, 0.12 mm

Moorfields
Suturing Forceps
For gripping the tissue, conjunctiva and Tenon’s capsule
Grooved section, 13 mm
Overall length 110 mm
Titanium
4-2303T

Product design and/or features that do not influence its functionality and main parameters are subject to change
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
Tying Platform, 8 mm
Standard handle
Overall length 103 mm
Titanium
4-174T

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

Barraquer
Needle Holder
Curved
Extra fine jaws, 8 mm
Overall length 100 mm
Titanium
8-024T with lock
8-025T w/out lock (shown)

Barraquer
Needle Holder
Curved
Standard jaws, 12 mm
Overall length 115 mm
Titanium
8-030T with lock
8-031T w/out lock (shown)

Product design and/or features that do not influence its functionality and main parameters are subject to change
PTERYGIUM SET

Product design and/or features that do not influence its functionality and main parameters are subject to change.
DACRYOCYSTORRHINOSTOMY

Bowman
Lacrimal Probe
Overall length 133 mm

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

DCR Set
Silicone tubing length 30 cm (12")
Tubing dimensions
0.50 mm (0.020") × 0.95 mm (0.037")
Stainless steel probes
21-R7011 20 Ga × 45 mm (1 3/4"), Straight

Product design and/or features that do not influence its functionality and main parameters are subject to change.
DACRYOCYSTORHINOSTOMY

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 Speculum
Polished finish
Stainless steel
16-127 Adult Size

Surgical Mallet
Polished finish
Stainless steel
16-135

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
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<td>Blade Holder</td>
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<td>Dressing Forceps, 12 mm Serrated Tips</td>
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<td>4-300T</td>
<td>3</td>
<td>Bonaccolto Utility Forceps</td>
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<td>4</td>
<td>Castroviejo Suturing Forceps, 0.3 mm 1x2 Teeth</td>
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<td>4-122S</td>
<td>5</td>
<td>Holsted Mosquito Forceps, Straight</td>
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<td>5-03T</td>
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<td>Barraquer Needle Holder, Medium</td>
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<td>Bowman Lacrimal Probe, Size 1-2</td>
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<td>Pigtail Lacrimal Probe</td>
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<td>Castroviejo Double-Ended Lacrimal Dilator, Size 1&amp;2</td>
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<td>Stevens Scissors, Straight</td>
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<td>Silicone Bulb With Adapter</td>
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<td>20</td>
<td>Towel Forceps</td>
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<td>Nasal speculum, adult size</td>
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<td>16-135</td>
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<td>Surgical Mallet, Polished Finish</td>
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<td>Kerrison Rongeur, Size 0</td>
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<td>Belz Lacrimal Sac Rongeur</td>
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<td>21-R7011</td>
<td>25</td>
<td>DCR Set – Straight 4.5 cm</td>
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<tr>
<td>18-305*</td>
<td>26</td>
<td>Plastic Sterilizing Tray, Double Level, Large</td>
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</tbody>
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Product design and/or features that do not influence its functionality and main parameters are subject to change.
LID SURGERY

Desmarres
Lid Retractor
Round serrated handle
Overall length 130 mm
10-020 - size 0–11 mm
10-021 - size 1–13 mm (shown)
10-022 - size 2–15 mm
10-023 - size 3–17 mm

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
MEIBOMIAN GLAND DYSFUNCTION

Compressing Lid Forceps
Physical expression of disfunctional 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

Compressing Lid Forceps with atraumatic rollers
Designed for mechanical meibum removal from lids. Texturized rollers are safe for the conjuctiva and obtain quick and equal squeezing of the eyelid from its base to the margin.
Overall length 112 mm
Stainless steel
4-124S

Product design and/or features that do not influence its functionality and main parameters are subject to change.
LID SURGERY SET

Reference | Key | Description
---|---|---
1-010T | 1 | Blade Holder
2-010T | 2 | Castroviejo Caliper
4-060T | 3 | Castroviejo Suturing Forceps, 0.30 mm 1×2 Teeth
4-0607S | 4 | Bishop-Harmon Suturing Forceps, 0.30 mm 1×2 Teeth
4-072T | 5 | Dressing Forceps With 12 mm Serrated Tips
4-090T | 6 | Kelman-McPherson Tying Forceps
4-120S | 7 | Hartman Mosquito Forceps, Straight, Short
4-140T | 8 | Putterman Type Lid Clamp
4-1906T | 9 | Desmarres Chalazion Forceps, Large
4-1912T* | 9 | Desmarres Chalazion Forceps, Medium
4-1245* | 10 | Compressing Lid Forceps
4-193T* | 10 | Compressing Lid Forceps (MGD), Curved, Titanium
4-2300T | 11 | Bonaccotto Utility Forceps
5-042 | 12 | Graefe Muscle Hook, Size 2
8-031T | 13 | Barraquer Needle Holder, Medium

Reference | Key | Description
---|---|---
8-080T | 14 | Kalt Needle Holder
10-014 | 15 | Knapp Lacrimal Sac Retractor
15-055-19 | 16 | Bishop Harman AC Cannula
15-301/303 | 17 | Silicone Bulb With Adapter
16-080S | 18 | Schaedecl Towel Clamp
16-505 | 19 | Lid Plate, Stainless Steel
10-020* | 20 | Desmarres Lid Retractor, Size 0
10-021 | 20 | Desmarres Lid Retractor, Size 1
10-022* | 20 | Desmarres Lid Retractor, Size 2
10-023* | 20 | Desmarres Lid Retractor, Size 3
11-040S | 21 | Westcott Tenotomy Scissors, Blunt Tips
11-0445 | 22 | Westcott Stitch Scissors, Sharp Tips
11-080S | 23 | Straight Iris Scissors
11-133S | 24 | Stevens Tenotomy Scissors, Straight
20-050 | 25 | Marking Pen
18-305* | 25 | Plastic Sterilizing Tray, Double Level, Large

Product design and/or features that do not influence its functionality and main parameters are subject to change
CHALAZION

Desmarres
Chalazion Forceps
Solid lower plate, open upper plate
Locking thumb screw mechanism
Overall length 96/90/92 mm
Titanium
4-1906T Large Size 31×20mm
4-1907T Small Size 20×13mm
4-1912T Medium Size 24×16mm

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))

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
# CHALAZION SET

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<tr>
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<th>Description</th>
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<tbody>
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<td>1-020S</td>
<td>1</td>
<td>Bard Parker Handle</td>
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<td>4-1906T</td>
<td>2</td>
<td>Desmarres Chalazion Forceps, Large</td>
</tr>
<tr>
<td>4-1912T</td>
<td>3</td>
<td>Desmarres Chalazion Forceps, Medium</td>
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<tr>
<td>4-1908T</td>
<td>4</td>
<td>Lambert Chalazion Forceps, Small</td>
</tr>
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<td>4-1909T</td>
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<td>Lambert Chalazion Forceps, Medium</td>
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<th>Reference</th>
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<tbody>
<tr>
<td>16-063*</td>
<td>6</td>
<td>Meyerhoefer Chalazion Curette, Size 0</td>
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<td>16-064*</td>
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<td>Meyerhoefer Chalazion Curette, Size 1</td>
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<td>Meyerhoefer Chalazion Curette, Size 2</td>
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<td>Meyerhoefer Chalazion Curette, Size 3</td>
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<td>16-067*</td>
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<td>Meyerhoefer Chalazion Curette, Size 4</td>
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<tr>
<td>16-505</td>
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<td>Lid plate</td>
</tr>
<tr>
<td>18-304*</td>
<td></td>
<td>Plastic Sterilizing Tray, Single Level, Large</td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
STRABISMUS

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 1×2 teeth, 0.50 mm
Angled shafts
10 mm from tip to angle
Overall length 107 mm
Stainless Steel
4-136S

Jameson
Muscle Hook
Flat hook
Bulbous tip
Overall length 135 mm
5-040 Standard (2.00 mm tip, 9.50 mm hook)
5-0401 Small (1.50 mm tip, 8.00 mm hook)

Graefe
Flat hook
Overall length 140 mm
5-041 Size 1 (1.00 mm tip, 8.00 mm hook)
5-042 Size 2 (1.50 mm tip, 10.00 mm hook)

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**MUSCLE SET**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>1-020S</td>
<td>1</td>
<td>Bard Parker Handle</td>
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<td>2-010T</td>
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<td>Castroviejo Caliper</td>
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<tr>
<td>4-072T</td>
<td>3</td>
<td>Dressing Forceps With 12 mm Serrated Tips</td>
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<td>4-0551T</td>
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<td>Corneal Forceps, Born-Catalano Type</td>
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<td>4-0602T</td>
<td>5</td>
<td>Castroviejo Suturing Forceps, 0.50 mm 1×2 Teeth</td>
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<td>4-090T</td>
<td>6</td>
<td>Kelman-McPherson Tying Forceps</td>
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<td>4-12IS</td>
<td>7</td>
<td>Hartman Mosquito Forceps, Curved, Short</td>
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<td>4-130S</td>
<td>8</td>
<td>Jameson Muscle Forceps, Left</td>
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<td>4-135S*</td>
<td>9</td>
<td>Jameson Muscle Forceps, Right</td>
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<td>4-136S</td>
<td>10</td>
<td>Osher Superior Rectus Forceps</td>
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<td>10-022</td>
<td>11</td>
<td>Desmarres Lid Retractor, Size 2</td>
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<tr>
<td>5-040</td>
<td>12</td>
<td>Jameson Muscle Hook, 2.00 mm Bulbous Tip</td>
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<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
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<tr>
<td>5-042</td>
<td>12</td>
<td>Graefe Muscle Hook, Size 2</td>
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<tr>
<td>5-061</td>
<td>13</td>
<td>Scobee Oblique Muscle Hook, Curved</td>
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<td>5-062</td>
<td>14</td>
<td>Stevens Curved Tenotomy Hook</td>
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<tr>
<td>8-090T</td>
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<td>Barraquer Needle Holder, Curved, w/lock</td>
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<td>8-0921T</td>
<td>16</td>
<td>Castroviejo Needle Holder, Straight, w/lock</td>
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<td>11-040S</td>
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<td>Westcott Tenotomy Scissors, Blunt Tips, 13 mm Blades</td>
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<td>11-044S</td>
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<td>Westcott Stitch Scissors, Sharp Tips, 16 mm Blades</td>
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<td>14-0601T</td>
<td>19</td>
<td>Kershner Reversible Solid Blade Speculum</td>
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<td>15-055-19</td>
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<td>Bishop Harmon AC Cannula</td>
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<td>15-300/303</td>
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<td>Silicone Bulb With Adapter</td>
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<td>16-090S</td>
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<td>Serrefine, Straight</td>
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<tr>
<td>18-305*</td>
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<td>Plastic Sterilizing Tray, Double Level, Large</td>
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* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### OculoPlastic Set

<table>
<thead>
<tr>
<th>Reference</th>
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<th>Description</th>
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<tbody>
<tr>
<td>1-020S</td>
<td>1</td>
<td>Bard Parker Handle</td>
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<td>Wilder Lacrimal Dilator, Size 1</td>
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<td>Hartman Mosquito Forceps, Straight, Short</td>
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<td>Knapp Lacrimal Sac Retractor</td>
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<td>Desmares Chalazion Forceps, Large</td>
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<td>Curved Enucleation Scissors, Short</td>
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<td>Adson Fixation Forceps, 0.50 mm 1-2 Teeth</td>
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<td>Stevens Tenotomy Scissors, Straight</td>
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<td>4-0822T</td>
<td>6</td>
<td>Castroviejo Fixation Forceps, 0.50 mm 1-2 Teeth</td>
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<td>17</td>
<td>Kershner Reversible Solid Blade Speculum</td>
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<td>5-042</td>
<td>7</td>
<td>Graefe Muscle Hook, Size 2</td>
<td>16-505</td>
<td>18</td>
<td>Lid Plate, Stainless Steel</td>
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<td>8-080T</td>
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<td>Kalt Needle Holder</td>
<td>16-061</td>
<td>19</td>
<td>Bunge Evisceration Spoon, Small</td>
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<tr>
<td>8-0921T</td>
<td>9</td>
<td>Castroviejo Needle Holder, straight, w/lock</td>
<td>16-066</td>
<td>20</td>
<td>Meyerhoefer Chalazion Curette, Size 3</td>
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<td>9-025</td>
<td>10</td>
<td>Bowman Lacrimal Probe, Size 1-2</td>
<td>18-305*</td>
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<td>Plastic Sterilizing Tray, Double Level, Large</td>
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<td>9-031</td>
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<td>Pigtail Lacrimal Probe</td>
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</tr>
</tbody>
</table>

* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**ENUCLEATION / EVISCERATION**

**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

**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

**Knapp**
Strabismus Scissors
Ring handle
Overall length 125 mm
Stainless Steel
11-100S Straight (shown)
11-101S Curved

Product design and/or features that do not influence its functionality and main parameters are subject to change
ENUCLEATION / EVISCERATION SET

Reference Key Description Reference Key Description
4-0741S 1 Adson Fixation Forceps, 0.50 mm 1×2 Teeth 14-040T 6 Lieberman Temporal Speculum
4-123S 2 Halsted Mosquito Forceps, Curved 16-060 7 Wells Enucleation Spoon
5-042 3 Graefe Muscle Hook, Size 2 16-062 8 Bunge Evisceration Spoon, Large
11-090S 4 Curved Enucleation Scissors, Medium 18-304* Plastic Sterilizing Tray, Single Level, Large
11-101S* 5 Knapp Curved Strabismus Scissors

* not shown

Product design and/or features that do not influence its functionality and main parameters are subject to change.
VITREORETINAL INSTRUMENTS, CONSUMABLES AND SETS

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Universal End Grasping Forceps with Asymmetrical Branches

Universal End Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.

End Grasping Forceps

The special design of the tips promotes delicate, precise and safe ILM peeling. The strengthened jaws ensure enhanced gripping power. Expanded space between branches contributes to greater visualization of the grasped membrane in the macular area.

Gripping Forceps with a ‘Crocodile’ Platform

Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
VITREORETINAL INSTRUMENT TIPS, MANUAL CLEANING:
GAUGE CONVERSION CHART, COLOR CODE SYSTEM

We offer various models of vitreoretinal tips that can be adjusted to Universal Handles (12-001T or 12-003T).

Gauge Conversion Chart

<table>
<thead>
<tr>
<th>Gauge</th>
<th>(inch)</th>
<th>(mm)</th>
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<tbody>
<tr>
<td>19 Ga</td>
<td>0.043</td>
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<tr>
<td>20 Ga</td>
<td>0.036</td>
<td>0.90</td>
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<tr>
<td>21 Ga</td>
<td>0.032</td>
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<tr>
<td>22 Ga</td>
<td>0.028</td>
<td>0.70</td>
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<tr>
<td>23 Ga</td>
<td>0.025</td>
<td>0.63</td>
</tr>
<tr>
<td>25 Ga</td>
<td>0.020</td>
<td>0.50</td>
</tr>
<tr>
<td>27 Ga</td>
<td>0.016</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Color Code System
Color code system is used to indicate vitreoretinal tips, their function and size.

Function
- Pink: Scissors
- Green: Forceps

Gauge
- Grey: 17
- Pink: 20
- Green: 23
- Blue: 25
- Yellow: 27

COMPATIBILITY
(adjustable to handles)
- Pink: 12-001T
- Blue: 12-001T / 12-003T

Manual Cleaning
Proper cleaning of the instrument is necessary to preserve its working condition.

Rumex manufactures interchangeable microincisional and vitreoretinal instrument tips that can be cleaned with a regular syringe.

Product design and/or features that do not influence its functionality and main parameters are subject to change.

*Handles are sold separately! **Colors of details may differ slightly from those displayed in this catalog.
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

- Two fingers linear actuation
- Ergonomic handle with specially designed gripping area for amplified control over the instrument
- Optimal diameter round handle allows 360° rotation
- Non compatible with the following tips: 12-206, 12-313, 12-321, 12-335, 12-412

**Classic Model**

One Finger Control Handle
12-001T

- One finger linear actuation
- Classic design approved by decades of work
- Compatible with all models of tips

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Tips are sold separately!
**SCISSORS**

Designed for cutting membranes and junction zones of the proliferative tissue

Vertical Scissors
- 70 Degrees
- Sharp tips
- 12-202 20 Ga
- 12-202-23 23 Ga

Klaus Lucke
Retinotomy Scissors
- With bulbous tip
- 12-2020 20 Ga

Horizontal Scissors
- 55 Degrees
- 12-206 20 Ga

Horizontal Scissors
- Angled
- 45 Degrees
- Regular blades (2.20 mm in the closed position)
- 12-208 20 Ga

Horizontal Scissors
- Angled
- 45 Degrees
- Short blades (1.70 mm in the closed position)
- 12-2085 20 Ga

**MOST POPULAR**

Curved Subretinal Scissors
- Curvature radius 12 mm
- 12-209 20 Ga
- 12-209-23 23 Ga
- 12-2099 25 Ga

Horizontal Scissors
- Angled
- 45 Degrees
- With illumination
- 12-2084 20 Ga

Horizontal Scissors
- Angled
- 45 Degrees
- Regular blades (2.20 mm in the closed position)
- 12-208 20 Ga

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
INTERNAL LIMITING MEMBRANE (ILM) FORCEPS

Delicate branches for ILM peeling

**ILM**

**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!

**ILM**

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

**ILM**

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

**ILM**

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

**ILM**

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

Universal End Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.

The special design of the tips promotes delicate, precise and safe ILM peeling. The strengthened jaws ensure enhanced gripping power. Expanded space between branches contributes to greater visualization of the grasped membrane in the macular area.

Product design and/or features that do not influence its functionality and main parameters are subject to change.

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

- Strengthened jaws for the removal of epiretinal membranes
- Gripping function is enhanced by diamonized / serrated platform or nail shaped jaws

![Diagram of EPIRETINAL FORCEPS](image)

**ERM**

**Gripping Forceps**
With a diamond dusted platform
- 12-301  20 Ga
- 12-301-23  23 Ga
- 12-301-9  25 Ga

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

**Lucke Multipurpose Forceps**
- 12-304  20 Ga

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

**Gripping Forceps**
With a “crocodile” platform
- 12-304  20 Ga
- 12-304-23  23 Ga
- 12-304-25  25 Ga

**End Gripping Forceps**
With nail shaped jaws
- 12-402  20 Ga
- 12-402-23  23 Ga
- 12-4089  25 Ga

Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.

*Handles are sold separately: 12-003T and 12-001T.*
PICK / SUBRETINAL FORCEPS

- Pick Forceps
  - 12-325  20 Ga
  - 12-325-23  23 Ga (POPULAR)
  - 12-3259  25 Ga (POPULAR)

- Diamonized Angled Gripping Forceps
  - 12-303  20 Ga

- De Juan Pick Forceps
  - 12-413  20 Ga

- Subretinal Forceps
  - 12-343  20 Ga

FOREIGN BODY REMOVAL FORCEPS

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

- Spring Gripping Forceps
  - 12-321**  20 Ga (POPULAR)
  - 12-321-23***  23 Ga

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

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

*Handles are sold separately: 12-003T and 12-001T.
** Compatible with Universal Handle 12-001T only
*** Compatible with Universal Handles 12-001T and 12-003T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
MEMBRANE INSTRUMENTS

Delicate Membrane Pick
- 13-097-23  23 Ga
- 13-0979  25 Ga
- 13-097-27  27 Ga

Membrane Scratcher
- 13-092  20 Ga

Membrane Spatula
- 13-084  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

Most popular membrane instruments

Product design and/or features that do not influence its functionality and main parameters are subject to change.
### 23 GAUGE INSTRUMENTS

#### ILM

**Most Popular**

**Eckardt End Gripping Forceps**
- Part Number: 12-410-23
- Gauge: 23 Ga

**Tano Asymmetrical End Gripping Forceps**
- Part Number: 12-411-23
- Gauge: 23 Ga

**End Grasping Forceps**
- Elongated branches, 30 mm
- Designed for myopic eyes
- Part Number: 12-420-23
- Gauge: 23 Ga

**End Grasping Forceps**
- Expanded space between branches
- Part Number: 12-4013
- Gauge: 23 Ga

**End Grasping Forceps**
- Enhanced visualization!

**End Grasping Forceps**
- Enhanced visualization!

#### ERM

**Most Popular**

**Gripping Forceps**
- With a diamond dusted platform
- Part Number: 12-301-23
- Gauge: 23 Ga

**Vertical Scissors**
- 70 Degrees
- Sharp tips
- Part Number: 12-202-23
- Gauge: 23 Ga

**Pick Forceps**
- Part Number: 12-325-23
- Gauge: 23 Ga

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

**Spring Gripping Forceps**
- Part Number: 12-321-23
- Gauge: 23 Ga

**Curved Subretinal Scissors**
- Curvature radius 12 mm
- Part Number: 12-209-23
- Gauge: 23 Ga

**End Gripping Forceps**
- With nail shaped jaws
- Part Number: 12-402-23
- Gauge: 23 Ga

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Product design and/or features that do not influence its functionality and main parameters are subject to change.

*Handles are sold separately: 12-003T and 12-001T.*
25 GAUGE INSTRUMENTS

**ILM**

**POPULAR**
- Eckardt End Gripping Forceps
  - 12-410-25 25 Ga
- Tano Asymmetrical End Gripping Forceps
  - 12-411-25 25 Ga

**ERM**

**POPULAR**
- GRIPTING Forceps
  - With a diamond dusted platform
    - 12-3019 25 Ga
- Vertical Scissors
  - 45 Degrees
  - Sharp tips
    - 12-2029 25 Ga
- **POPULAR**
  - Curved Subretinal Scissors
    - Curvature radius 12 mm
    - 12-2099 25 Ga

**NEW**
- Eckardt End Gripping Forceps
  - 12-410-27 27 Ga

**ERM**

**POPULAR**
- GRIPTING Forceps
  - With a “crocodile” platform
    - 12-304-25 25 Ga
- Pick Forceps
  - 12-3259 25 Ga
- **POPULAR**
  - End Gripping Forceps
    - With nail shaped jaws
    - 12-4089 25 Ga

**27 GAUGE**

**ILM**

**NEW**
- Eckardt End Gripping Forceps
  - 12-410-27 27 Ga

Product design and/or features that do not influence its functionality and main parameters are subject to change.

*Handles are sold separately: 12-003T and 12-001T.
**ONE-PIECE INSTRUMENTS: TIP WITH HANDLE**

### ILM
- **Eckardt End Gripping Forceps**
  - 12-410-23H 23 Ga
  - 12-410-25H 25 Ga
- **End Grasping Forceps**
  - 12-420-23H 23 Ga
  - 12-420-25H 25 Ga
- **Tano Asymmetrical End Gripping Forceps**
  - 12-411-23H 23 Ga
  - 12-411-25H 25 Ga
- **End Grasping Forceps**
  - Expanded space between branches
  - 12-4013H 23 Ga
  - 12-4013-25H 25 Ga
  - Enhanced visualization!

### ERM
- **Gripping Forceps**
  - With a “crocodile” platform
  - 12-304-23H 23 Ga
  - 12-304-25H 25 Ga
- **Gripping Forceps**
  - With a diamond dusted platform
  - 12-301-23H 23 Ga
  - 12-301-25H 25 Ga
- **Pick Forceps**
  - 12-325-23H 23 Ga
  - 12-325-25H 25 Ga
- **Curved Subretinal Scissors**
  - Curvature radius 12 mm
  - 12-209-23H 23 Ga
  - 12-209-25H 25 Ga
- **End Gripping Forceps**
  - With nail shaped jaws
  - 12-402-23H 23 Ga
  - 12-402-25H 25 Ga
- **Vertical Scissors**
  - Sharp tips
  - 12-202-23H 23 Ga
  - 12-202-25H 25 Ga

Other models of tips in 20/23/25 and 27 Ga are available upon request.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
**DISPOSABLE ONE-PIECE INSTRUMENTS**

Most popular models of scissors and forceps in 23 and 25 Ga
All instruments are supplied sterile, in a box of 6

**ILM**

- Disposable Eckardt End Gripping Forceps
  - 12-410-23D 23 Ga
  - 12-410-25D 25 Ga

- Disposable End Grasping Forceps
  - 12-420-23D 23 Ga
  - 12-420-25D 25 Ga

**ERM**

- Disposable Gripping Forceps
  - With a “crocodile” platform
  - 12-304-23D 23 Ga
  - 12-304-25D 25 Ga

- Disposable Gripping Forceps
  - 12-301-23D 23 Ga
  - 12-301-25D 25 Ga

- Disposable Curved Scissors
  - 12-209-23D 23 Ga
  - 12-209-25D 25 Ga

**ILM**

- Disposable Pick Forceps
  - 12-325-23D 23 Ga
  - 12-325-25D 25 Ga

- Disposable Curved Scissors
  - 12-209-23D 23 Ga
  - 12-209-25D 25 Ga

---

Product design and/or features that do not influence its functionality and main parameters are subject to change

*Not available in the US*
REUSABLE TWO STEP TROCAR SYSTEMS

Product design and/or features that do not influence its functionality and main parameters are subject to change.

Reusable Trocar System with closure valves

Package includes:
- Trocar Cannula with closure valves – 5 pcs
- Loading Forceps – 1 pc
- Fixation Plate – 1 pc
- Blunt Cannula Inserter – 3 pcs
- Universal Infusion Line – 1 pc
- Sterilizing Tray – 1 pc

12-5173-23
12-5173-25

NEW

Loading Forceps

12-5186  23/25 Ga

Instrument Cannula Inserter

12-5187-23  23 Ga
12-5187-25  25 Ga

Fixation Plate

12-5188  23/25 Ga

MVR Knives

Multifacet Blade, sterile, 6 per box

- Straight
  - VRS-19 - 19 Ga
  - VRS-20 - 20 Ga
  - VRS-23 - 23 Ga

- Angled
  - VRA-19 - 19 Ga
  - VRA-20 - 20 Ga
  - VRA-23 - 23 Ga

Trocar Cannula Set

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

12-5189  23 Ga – 1 set per box

Scleral Plugs Forceps

Cross-action mechanism reduces hand fatigue

12-5086S  20 Ga

Watzke Sleeve Spreading Forceps

- Used to stretch the silicone sleeve placed around the eyeball
- Serrated tips aid in gripping the sleeve and allow for adjustable traction

4-2201T

Product design and/or features that do not influence its functionality and main parameters are subject to change.
NEW Marker
Scleral marker at the distal part of the handpiece allows for making the incision right after marking without turning the instrument.

Improved Retractable Blade
Modified spear point (MVR style) blade helps create a smooth incision and provides for low pressure insertion and superior sealing.

Self-Sealing Cannulas
Stainless steel cannulas are equipped with redesigned beveled silicone valves, that eliminate need for plugs and promote easy instrument insertion.

High-Flow Infusion
RUMEX stainless steel cannula is designed to work with a high flow infusion tube connection, offering the maximum diameter channel possible for infusion flow.

Available in 23/25/27 Ga

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMTR.23</td>
<td>Disposable One Step Trocar System, 23 Ga</td>
</tr>
<tr>
<td>RMTR.25</td>
<td>Disposable One Step Trocar System, 25 Ga</td>
</tr>
<tr>
<td>RMTR.27</td>
<td>Disposable One Step Trocar System, 27 Ga</td>
</tr>
</tbody>
</table>
**VITRECTOMY CUTTERS**

### Reusable: posterior

Sterile
One per package

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5100</td>
<td>AMO®</td>
</tr>
<tr>
<td></td>
<td>B&amp;L®</td>
</tr>
<tr>
<td></td>
<td>Optikon®</td>
</tr>
<tr>
<td></td>
<td>Carl Zeiss Meditec® / IOL Tech®</td>
</tr>
<tr>
<td></td>
<td>Fritz Ruck®</td>
</tr>
<tr>
<td></td>
<td>Croma Pharma® / Corneal®</td>
</tr>
<tr>
<td></td>
<td>Alcon®</td>
</tr>
<tr>
<td></td>
<td>Nidek®</td>
</tr>
<tr>
<td></td>
<td>MID Labs®</td>
</tr>
<tr>
<td></td>
<td>Syntec®</td>
</tr>
</tbody>
</table>

| Model 12-5100 |gemsii® | Premiere®, Millennium®, Daisy® |
| Model 12-5100 |Pulsar 2®, Assistant® |
| Model 12-5100 |Pentasys® |
| Model 12-5100 |Pentasys® |
| Model 12-5100 |Open Phaco® |
| Model 12-5100 |Microtome®, MVS®, STTO Dx® |
| Model 12-5100 |CV-24000®, VT-5000® |
| Model 12-5100 |MVS®, SupraVit® |
| Model 12-5100 |VitMan® |

| Model 12-5100 |800 CPM |
| Model 12-5100 |25 PSI |
| Model 12-5100 |20 Ga |
| Model 12-5100 |Without Irrigation Sleeve |

### Disposable: anterior

Sterile
One per package

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5068</td>
<td>Alcon®</td>
</tr>
<tr>
<td></td>
<td>AMO®</td>
</tr>
<tr>
<td></td>
<td>Staar Surgical®</td>
</tr>
<tr>
<td></td>
<td>Surgical Design®</td>
</tr>
<tr>
<td></td>
<td>American Optisurgical®</td>
</tr>
<tr>
<td></td>
<td>Nidek®</td>
</tr>
</tbody>
</table>

| Model 12-5068 |Legacy®, STTO®, STTM®, Universal® |
| Model 12-5068 |Sovereign®, Signature®, AMO Plus®, Prestige® |
| Model 12-5068 |Wave® |
| Model 12-5068 |Ocusystem® |
| Model 12-5068 |Horizon® |
| Model 12-5068 |CV-12000®, CV-6000®, CV-7000® |

| Model 12-5068 |800 CPM |
| Model 12-5068 |20 PSI |
| Model 12-5068 |20 Ga |
| Model 12-5068 |Without Irrigation Sleeve |

### Disposable: posterior

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5064</td>
<td>Alcon®</td>
</tr>
<tr>
<td></td>
<td>DORC®</td>
</tr>
</tbody>
</table>

| Model 12-5064 |Accurus® |
| Model 12-5064 |Harmony Total TTC® |
| Model 12-5064 |800 CPM |
| Model 12-5064 |30 PSI |
| Model 12-5064 |20 Ga |
| Model 12-5064 |Without Irrigation Sleeve |

| Model 12-5172 |Accurus® |
| Model 12-5172 |Associate® |
| Model 12-5172 |2500 CPM |
| Model 12-5172 |30 PSI |
| Model 12-5172 |23 Ga |
| Model 12-5172 |Without Irrigation Sleeve |

Product design and/or features that do not influence its functionality and main parameters are subject to change
**DISPOSABLE BI-BLADE CUTTERS – REVOLUTIONARY PRODUCT**

The best choice for vitreoretinal surgery

**Constant Aspiration Flow**
Highly mobile bi-directional blade keeps the port open throughout the entire cutting cycle ensuring constant aspiration flow and increasing the efficiency of vitreous removal.

**Double Cutting Rate**
Cutting action on both forward and backward strokes of the probe creates the speed up to 16,000 cpm (standard speed is 8,000 cpm).

**Various Gauges**
Cutters are available in 23/25/27 Gauges, compatible with major brands.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Type of Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMVIT.23CON</td>
<td>23 Ga Bi-blade cutter; 16,000 cpm</td>
<td>Constellation, Alcon (compatible)</td>
</tr>
<tr>
<td>RMVIT.25CON</td>
<td>25 Ga Bi-blade cutter; 16,000 cpm</td>
<td>Stellaris PC, Bausch+Lomb (compatible)</td>
</tr>
<tr>
<td>RMVIT.27CON</td>
<td>27 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
<tr>
<td>RMVIT.23STEL</td>
<td>23 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
<tr>
<td>RMVIT.25STEL</td>
<td>25 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
<tr>
<td>RMVIT.27STEL</td>
<td>27 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
<tr>
<td>RMVIT.23EVA</td>
<td>23 Ga Bi-blade cutter; 16,000 cpm</td>
<td>EVA, D.O.R.C. (tubing)</td>
</tr>
<tr>
<td>RMVIT.25EVA</td>
<td>25 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
<tr>
<td>RMVIT.27EVA</td>
<td>27 Ga Bi-blade cutter; 16,000 cpm</td>
<td></td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
BACKFLUSH HANDLES

Titanium Backflush Handle
Active Aspiration
12-6000

Titanium Backflush Handle
Passive Aspiration
12-6010

Backflush Handle
Passive Aspiration
Sterile
5 per box
12-5197

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

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

Product design and/or features that do not influence its functionality and main parameters are subject to change
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
12-5164  23 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

DUAL BORE CANNULAS
For simultaneous infusion and aspiration of liquids.

Dual Bore PFC Cannula
Simultaneous infusion of heavy liquids and aspiration of intracocular fluids. Dual bore for constant control of intraocular pressure during injection.
Disposable, 5 per box
12-5203  23 Ga (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  20 Ga / 41 Ga (0.10 mm) tip

INFUSION CANNULAS
Reusable:
Infusion Cannula
12-024  20 Ga  2.50 mm
12-025  20 Ga  4.00 mm
12-026  20 Ga  6.00 mm

Disposable:
Self-Retaining Silicone Oil Cannula
12-5165  23 Ga  4.00 mm  5 per box
12-5222  23 Ga  6.00 mm  5 per box

Product design and/or features that do not influence its functionality and main parameters are subject to change
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)

No risk of emulsification

SOLVENT FREE

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

Physicochemical properties

- Interfacial tension at 37°C: 43.2 mN/m
- Density: 0.97 g/cm³
- Viscosity: 1000 cSt / 5000 cSt
- Refractive index: 1.404
- Volatility: 0.06%
- Polydispersity: 2.33
- Elements potentially toxic: < 3 ppm
- Low molecular weights: D4–D9: < 24 ppm, D10–D20: 4 ≤ ppm

*Not available in the US
### SILICONE OIL INFUSION SYSTEMS

#### Surgical System
<table>
<thead>
<tr>
<th>Reusable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasys™</td>
</tr>
<tr>
<td>Optikon® Antares™</td>
</tr>
<tr>
<td>Alcon® STTO™</td>
</tr>
<tr>
<td>Storz® Premiere™</td>
</tr>
<tr>
<td>DORC® Harmony Budget™</td>
</tr>
<tr>
<td>DORC® Associate™</td>
</tr>
<tr>
<td>Alcon® Constellation™, Accurus™</td>
</tr>
<tr>
<td>B&amp;L® Millennium™, Stellaris™</td>
</tr>
<tr>
<td>Oertli® Orbit™, Faros™, OS3™</td>
</tr>
</tbody>
</table>

#### Disposable
<table>
<thead>
<tr>
<th>Disposable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasys™</td>
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<td>Optikon® Antares™</td>
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</tr>
<tr>
<td>Storz® Premiere™</td>
</tr>
<tr>
<td>DORC® Harmony Budget™</td>
</tr>
<tr>
<td>DORC® Associate™</td>
</tr>
<tr>
<td>Alcon® Constellation™, Accurus™</td>
</tr>
<tr>
<td>B&amp;L® Millennium™, Stellaris™</td>
</tr>
<tr>
<td>Oertli® Orbit™, Faros™, OS3™</td>
</tr>
</tbody>
</table>

#### Viscous Fluid Injection Cannula
10 mm polyimide tip allowing injection of viscous fluids such as silicone oil through 23 Ga trocar cannula

<table>
<thead>
<tr>
<th>Disposable, 5 per box</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5248</td>
</tr>
</tbody>
</table>
## SET OF VITREORETINAL INSTRUMENTS, 20 GAUGE

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-001T</td>
<td>1</td>
<td>Universal Instrument Handle, One Finger Control</td>
</tr>
<tr>
<td>12-003T</td>
<td>2</td>
<td>Universal Instrument Handle, Squeeze Model, Two Fingers Control</td>
</tr>
<tr>
<td>12-202</td>
<td>3</td>
<td>Vertical Vitreoretinal Scissors, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-209</td>
<td>4</td>
<td>Curved Subretinal Scissors, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-410</td>
<td>5</td>
<td>Eckardt End Gripping Forceps, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-411</td>
<td>6</td>
<td>Tano Asymmetrical End Gripping Forceps, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-301</td>
<td>7</td>
<td>Vitreoretinal Forceps with a Diamond Dusted Platform, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-304</td>
<td>8</td>
<td>Gripping Forceps with a “Crocodile” Platform, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-325</td>
<td>9</td>
<td>Pick Vitreoretinal Forceps, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-335</td>
<td>10</td>
<td>Stolyarenko Forceps for Large Foreign Bodies, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-313</td>
<td>11</td>
<td>Vitreoretinal Forceps With Cup Jaws, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-321</td>
<td>12</td>
<td>Spring Gripping Forceps, 20 Ga, Tip only</td>
</tr>
<tr>
<td>12-6000</td>
<td>13</td>
<td>Titanium Backflush Handle Active Aspiration</td>
</tr>
<tr>
<td>12-5063</td>
<td>14</td>
<td>Soft Tip Cannula, 20 Ga, 5 per box</td>
</tr>
<tr>
<td>13-092</td>
<td>15</td>
<td>Membrane Scratcher, 20 Ga</td>
</tr>
<tr>
<td>SmartSil1000</td>
<td>16</td>
<td>Purified Silicone Oil for Retinal Endotamponade, 1000 cSt</td>
</tr>
</tbody>
</table>

---

**DON'T FORGET TO BUY**

Two racks tray
with silicone finger tip mat
Two levels base and insert tray
254×152.4×38 mm
10.00×6.00×1.50 in
18-305 extra large
## SET OF VITREORETINAL INSTRUMENTS, 23 GAUGE

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-001T</td>
<td>1</td>
<td>Universal Instrument Handle, One Finger Control</td>
</tr>
<tr>
<td>12-003T</td>
<td>2</td>
<td>Universal Instrument Handle, Squeeze Model, Two Fingers Control</td>
</tr>
<tr>
<td>12-202-23</td>
<td>3</td>
<td>Vertical Vitreoretinal Scissors, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-209-23</td>
<td>4</td>
<td>Curved Subretinal Scissors, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-410-23</td>
<td>5</td>
<td>Eckardt End Gripping Forceps, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-4013</td>
<td>6</td>
<td>End Grasping Forceps, Expanded Space between Branches, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-301-23</td>
<td>7</td>
<td>Gripping Forceps with a Diamond Dusted Platform, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-304-23</td>
<td>8</td>
<td>Vitreoretinal Forceps with a “Crocodile” Platform, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-325-23</td>
<td>9</td>
<td>Pick Vitreoretinal Forceps, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-321-23</td>
<td>10</td>
<td>Spring Gripping Forceps, 23 Ga, Tip only</td>
</tr>
<tr>
<td>12-6000</td>
<td>11</td>
<td>Titanium Backflush Handle Active Aspiration</td>
</tr>
<tr>
<td>12-5161</td>
<td>12</td>
<td>Soft Tip Cannula, 23 Ga, 5 per box</td>
</tr>
<tr>
<td>13-097-23</td>
<td>13</td>
<td>Delicate Membrane Pick, 23 Ga</td>
</tr>
<tr>
<td>12-6173-23</td>
<td>14</td>
<td>Reusable Trocar System, 23 Ga</td>
</tr>
<tr>
<td>SmartSil1000</td>
<td>15</td>
<td>Purified Silicone Oil for Retinal Endotamponade, 1000 cSt</td>
</tr>
</tbody>
</table>

### DON’T FORGET TO BUY

**Bi-Blade Vitrectomy Cutter**
- 23 Ga
- 16,000 cpm
- Compatible with Constellation/Stellaris PC/EVA
- See page 23f for details
**SET OF VITREORETINAL INSTRUMENTS, 25 GAUGE**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Key</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>12-001T</td>
<td>1</td>
<td>Universal Instrument Handle, One Finger Control</td>
</tr>
<tr>
<td>12-003T</td>
<td>2</td>
<td>Universal Instrument Handle, Squeeze Model, Two Fingers Control</td>
</tr>
<tr>
<td>12-2029</td>
<td>3</td>
<td>Vertical Vitreoretinal Scissors, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-2099</td>
<td>4</td>
<td>Curved Subretinal Scissors, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-410-25</td>
<td>5</td>
<td>Eckardt End Gripping Forceps, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-420-25</td>
<td>6</td>
<td>End Grasping Forceps, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-3019</td>
<td>7</td>
<td>Vitreoretinal Forceps with a Diamond Dusted Platform, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-304-25</td>
<td>8</td>
<td>Vitreoretinal Forceps with a “Crocodile” Platform, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-3259</td>
<td>9</td>
<td>Pick Vitreoretinal Forceps, 25 Ga, Tip only</td>
</tr>
<tr>
<td>12-6000</td>
<td>10</td>
<td>Titanium Backflush Handle with Active Aspiration</td>
</tr>
<tr>
<td>12-5160</td>
<td>11</td>
<td>Brush Tip Cannula, 25 Ga, 5 per box</td>
</tr>
<tr>
<td>12-5173-25</td>
<td>12</td>
<td>Reusable Trocar System, 25 Ga</td>
</tr>
<tr>
<td>13-0979</td>
<td>13</td>
<td>Delicate Membrane Pick, 25 Ga</td>
</tr>
<tr>
<td>SmartSil1000</td>
<td>14</td>
<td>Purified Silicone Oil for Retinal Endotamponade, 1000 cSt</td>
</tr>
</tbody>
</table>

**DON’T FORGET TO BUY**

**Bi-Blade Vitrectomy Cutter**

25 Ga  
16,000 cpm  
compatible with Constellation/Stellaris PC/EVA  
see page 231 for details

Product design and/or features that do not influence its functionality and main parameters are subject to change
STERILIZATION AND CARE

DIAMOND KNIVES STERILIZATION

APPLICATION
Ophthalmic microsurgical knives with diamond blades are used for cutting and dissection of tissues during ophthalmic, microvascular, neurosurgical, and plastic surgery.

CHARACTERISTICS
The blades are made of natural diamonds and the handles are manufactured from titanium alloy. The thickness of the diamond blade cutting edge should not exceed 0.2 μm. The blade points must be edged with no visible chips (visible at 100x power magnification).

DEVICE
The diamond knife consists of a titanium handle and a diamond blade. The handle is fit with a mechanism providing blade installation and its safe fixation in an operative and non-operative position. The construction of the knife can be changed in order to improve its usability.

COMPLETED UNITS
Each complete set contains:
- diamond knife — 1 unit
- label — 1 unit
- sterilization tray — 1 unit
- care and cleaning instructions — 1 unit

USAGE INSTRUCTIONS
1. The diamond blade is very fragile, therefore, each knife must be handled, cleaned, and stored delicately. Avoid blows or vibrations. Any contact 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 retracted into the handles (non-operative position). We recommend the knives to be kept and carried in sterilizing cases or with a PTFE shipping clamp to avoid self-movement. When a knife is not in use, its blade must be retracted 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 its operative position. The blade is to be set in the operative position for the surgical operation just prior to usage.
5. After usage, slightly pull the movable part of the handle downwards and rotate counterclockwise to return the blade into its 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 occur.
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 0.005 mm. Rotate the handle upwards then put on the protective cap to set the knife in the initial non-operative position.

The service life of the knife varies due to usage and handling. The blade must never be dropped or be in contact with foreign objects. The blade and the spring mechanism need to be handled with care and caution. 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 handle, remove blood, tissue debris and viscoelastic directly after the operation.

MANUAL CLEANING:
- use a syringe with distilled water to flush the instrument;
- dip the knife (blade retracted) into weak alkaline cleaning solution and keep for 60 minutes at a temperature of +22°C (+72°F);
• the handle of a knife can be cleaned with a soft brush;
• flush the instrument with flowing water for 30 seconds, then sluice with distilled water for other 30 seconds;
the blade should be pointed down for flushing.

We recommend to use 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 manufacturer's instruction.

ULTRASONIC CLEANING:
• The cleaning machine should be filled with warm distilled water +70°C (+152°F). Immerse the knife with the retracted blade into the water. The sterilizing case with finger mats will reduce vibration and protect the blade. (see Tray with silicone finger tip mat 18-301 on p. 134).
• 2 to 3 min washing cycle should be enough to clean the knife.
• Rinse the instrument with distilled water before steam sterilization.

STERILIZATION:
The knives should be sterilized before each surgical case by one of these methods:

<table>
<thead>
<tr>
<th>Sterilization Method</th>
<th>Type of Sterilization</th>
<th>Item</th>
<th>Temperature</th>
<th>Exposure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam</td>
<td>Gravity Displacement</td>
<td>Wrapped</td>
<td>+132°C (+270°F)</td>
<td>30 min</td>
</tr>
<tr>
<td>Flash Process</td>
<td>Gravity Displacement</td>
<td>Unwrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
</tr>
<tr>
<td>Steam</td>
<td>Prevacuum</td>
<td>Wrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
</tr>
<tr>
<td>Flash Process</td>
<td>Prevacuum</td>
<td>Unwrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
</tr>
</tbody>
</table>

Make sure the blade is in its non-operative position (retracted) before sterilization; self-movement must be avoided. We recommend sterilizing the knives in trays specially designed for diamond knives as the silicone holders will help stabilize them.

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 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 and observe the instruction provided by the manufacturer of sterilization and cleaning units.

STORAGE
Diamond knives must be kept at a temperature from +10°C to +35°C (+50°F to +95°F) and relative air humidity at max 98%. Indoor air must not contain corrosive additive agents. The blade must be fully retracted into the handle (nonoperative position). Self-movement must be avoided and blows or vibrations should be avoided.

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 spring mechanism and titanium parts. The 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);
• 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 the event any defect is noticed. Damaged knives should be sent for resharpening or blade replacement.
CARE & CLEANING OF VITREORETINAL AND MICROINCISIONAL INSTRUMENTS

RUMEX Instruments (ophthalmic scissors and forceps for vitreoretinal and microincisional surgery) are designed for various applications in ophthalmic surgery. It is essential that the instrument is cleaned and sterilized before initial use and after each surgery, following as outlined in this instruction brochure.

CARE AND HANDLING
The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. Proteins may also accumulate inside of the mechanism. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument malfunction. Ensure the cleaning procedure is implemented after each surgery — warranty shall not extend to instruments that have been improperly handled.

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 a 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.
6. Dry with air.
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.

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 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 PTFE, which is autoclavable. RUMEX International Co. designed two models of safety protectors. The photos below illustrate the way to fix a tip in a protector.
Please insert the tips into PTFE protectors as shown in the picture:

1. Match the nut indicating the gauge with the hub, press the tip gently
   Make sure the branches do not touch the protector
2. The tips in their final position — safely fixed by the protector.

   Note: the tips should be sterilized in the protector to avoid any contact with other 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 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 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>
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<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</th>
<th>Prevacuum Gravity Displacement</th>
</tr>
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<tr>
<td>Sample Config.</td>
<td>wrapped</td>
<td>wrapped</td>
</tr>
<tr>
<td>Temperature</td>
<td>121 °C – 123 °C</td>
<td>132 °C – 135 °C</td>
</tr>
<tr>
<td>Exposure time</td>
<td>15 to 30 minutes</td>
<td>3 to 4 minutes</td>
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</table>

“Flash” Autoclaving

<table>
<thead>
<tr>
<th>Sterilizer Type</th>
<th>Gravity Displacement</th>
<th>Prevacuum Gravity Displacement</th>
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</thead>
<tbody>
<tr>
<td>Sample Config.</td>
<td>unwrapped</td>
<td>unwrapped</td>
</tr>
<tr>
<td>Temperature</td>
<td>132 °C</td>
<td>132 °C</td>
</tr>
<tr>
<td>Exposure time</td>
<td>3 minutes</td>
<td>3 minutes</td>
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</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 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 RUMEX products.

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.
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 in 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 f 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 lintfree 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>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>850±50 mg/l</td>
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<tr>
<td>Temperature</td>
<td>37ºC–47ºC</td>
</tr>
<tr>
<td>Exposure time</td>
<td>3–4 hours</td>
</tr>
<tr>
<td>Humidity</td>
<td>70% RH minimum</td>
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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>
</tbody>
</table>
| Temperature        | wrapped
121ºC to 123ºC      | 132ºC to 135ºC                |
| Exposure time      | 15 to 30 minutes 3 to 4 minutes|

FLASH' AUTOCLAVING

<table>
<thead>
<tr>
<th>Sterilizer Type</th>
<th>Gravity Displacement Prevacuum</th>
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</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>unwrapped [132ºC]</td>
</tr>
<tr>
<td>Exposure time</td>
<td>132ºC 3 minutes 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.
# ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRVO</td>
<td>Branch Retinal Vein Occlusion</td>
</tr>
<tr>
<td>BSS</td>
<td>Balanced Salt Solution</td>
</tr>
<tr>
<td>CPM</td>
<td>Cuts per Minute</td>
</tr>
<tr>
<td>CRVO</td>
<td>Central Retinal Vein Occlusion</td>
</tr>
<tr>
<td>DALK</td>
<td>Deep Anterior Lamellar Keratoplasty</td>
</tr>
<tr>
<td>DLEK</td>
<td>Deep Lamellar Endothelial Keratoplasty</td>
</tr>
<tr>
<td>DMEK</td>
<td>Descemet's Membrane Endothelial Keratoplasty</td>
</tr>
<tr>
<td>DSAEK</td>
<td>Descemet's Stripping Automated Endothelial Keratoplasty</td>
</tr>
<tr>
<td>DSEK</td>
<td>Descemet's Stripping Endothelial Keratoplasty</td>
</tr>
<tr>
<td>ECCE</td>
<td>Extracapsular Cataract Extraction</td>
</tr>
<tr>
<td>ERM</td>
<td>Epiretinal Membrane</td>
</tr>
<tr>
<td>I/A</td>
<td>Irrigation / Aspiration</td>
</tr>
<tr>
<td>ICL</td>
<td>Implantable Collamer Lens</td>
</tr>
<tr>
<td>ICRS (implantation)</td>
<td>Intrastromal Corneal Ring Segments</td>
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<tr>
<td>ID</td>
<td>Inner Diameter</td>
</tr>
<tr>
<td>ILM</td>
<td>Internal Limiting Membrane</td>
</tr>
<tr>
<td>IOL</td>
<td>Intraocular Lens</td>
</tr>
<tr>
<td>LASEK</td>
<td>Laser-Assisted Sub-Epithelial Keratectomy</td>
</tr>
<tr>
<td>LASIK</td>
<td>Laser-Assisted in Situ Keratomileusis</td>
</tr>
<tr>
<td>LHD</td>
<td>Left Handed Doctor</td>
</tr>
<tr>
<td>LRI</td>
<td>Limbal Relaxing Incisions</td>
</tr>
<tr>
<td>MICS</td>
<td>Micro Incision Coaxial Surgery</td>
</tr>
<tr>
<td>MVR (knife)</td>
<td>Myringo-vitreoretinal</td>
</tr>
<tr>
<td>OD</td>
<td>Outer Diameter</td>
</tr>
<tr>
<td>OVD</td>
<td>Ophthalmic Visco-surgical Device</td>
</tr>
<tr>
<td>PFC</td>
<td>Perfluorocarbon</td>
</tr>
<tr>
<td>PRK</td>
<td>Photorefractive Keratectomy</td>
</tr>
<tr>
<td>PVA</td>
<td>Polyvinyl Acetate</td>
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<tr>
<td>PVD</td>
<td>Posterior Vitreous Detachment</td>
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<tr>
<td>ReLEx SMILE</td>
<td>Refractive LEnticule Extraction SMall Incision Lenticule Extraction</td>
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<tr>
<td>RHD</td>
<td>Right Handed Doctor</td>
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<td>SMILE</td>
<td>SMall Incision Lenticule Extraction</td>
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<tr>
<td>STSS</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Ti</td>
<td>Titanium</td>
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<td><strong>AquaFree Hydrophobic IOLs</strong></td>
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<td>AquaFree Yellow Aspheric Hydrophobic Preloaded 24</td>
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<td>Arcuate Incision Diamond Knife, 100/0.20 mm Tapered Blade 80</td>
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<td><strong>Aspiration Handpiece For Bimanual Technique, Curved</strong></td>
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<td>7-082</td>
<td>21Ga, One Top Port 35 mm 92</td>
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<td>7-0821</td>
<td>22Ga, One Top Port 35 mm 92</td>
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<td>7-135</td>
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<tr>
<td>15-031</td>
<td>Bailey Lacrimal Cannula, 23Ga 129</td>
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<tr>
<td>15-373-25</td>
<td>Banaji LASIK Irrigation Cannula, 4 Ports, Curved, 25Ga 130, 167</td>
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<tr>
<td>15-373-27</td>
<td>Banaji LASIK Irrigation Cannula, 4 Ports, Curved, 27Ga 130, 167</td>
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<tr>
<td>1-020S</td>
<td>Bard Parker Handle, Flat Handle, Length 130 mm, STSS 48</td>
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<td><strong>Barraquer</strong></td>
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<tr>
<td>11-1223</td>
<td>Iris Scissors, Blunt tips, 8 mm blades. Length 54 mm, STSS 102, 196</td>
</tr>
<tr>
<td><strong>Needle Holder</strong></td>
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<tr>
<td><strong>Extra Fine Jaws</strong></td>
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</tr>
<tr>
<td>8-050T</td>
<td>8.0 mm, Curved With Lock, Long Size, Ti 94</td>
</tr>
<tr>
<td>8-024T</td>
<td>8.0 mm, Curved With Lock, Small Size, Ti 93, 199</td>
</tr>
<tr>
<td>8-051T</td>
<td>8.0 mm, Curved With Out Lock, Long Size, Ti 94</td>
</tr>
<tr>
<td>8-045T</td>
<td>8.0 mm, Curved With Out Lock, Medium Size, Ti 94, 149</td>
</tr>
<tr>
<td>8-025T</td>
<td>8.0 mm, Curved With Out Lock, Small Size, Ti 93, 199</td>
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<tr>
<td><strong>Fine Jaws</strong></td>
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<tr>
<td>8-070T</td>
<td>12.0 mm, Curved With Lock, Long Size, Ti 95</td>
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<tr>
<td>8-040T</td>
<td>12.0 mm, Curved With Lock, Medium Size, Ti 94</td>
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<tr>
<td>8-020T</td>
<td>12.0 mm, Curved With Lock, Small Size, Ti 93</td>
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<tr>
<td>8-071T</td>
<td>12.0 mm, Curved With Out Lock, Long Size, Ti 95</td>
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<tr>
<td>8-041T</td>
<td>12.0 mm, Curved With Out Lock, Medium Size, Ti 94</td>
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<tr>
<td>8-021T</td>
<td>12.0 mm, Curved With Out Lock, Small Size, Ti 93</td>
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<td><strong>Standard Jaws</strong></td>
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<td>8-060T</td>
<td>12.0 mm, Curved With Lock, Long Size, Ti 94</td>
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<td>8-030T</td>
<td>12.0 mm, Curved With Lock, Medium Size, Ti 94, 149, 199</td>
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<tr>
<td>8-010T</td>
<td>12.0 mm, Curved With Lock, Small Size, Ti 93</td>
</tr>
<tr>
<td>8-061T</td>
<td>12.0 mm, Curved With Out Lock, Long Size, Ti 94</td>
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<tr>
<td>8-031T</td>
<td>12.0 mm, Curved With Out Lock, Medium Size, Ti 94, 149, 199</td>
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<tr>
<td>8-011T</td>
<td>12.0 mm, Curved With Out Lock, Small Size, Ti 93</td>
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<tr>
<td>8-013T</td>
<td>12.0 mm, Straight With Out Lock, Small Size, Ti 93</td>
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<tr>
<td><strong>Strong Jaws</strong></td>
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<tr>
<td>8-090T</td>
<td>12.0 mm, Curved With Lock, Ti 95</td>
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<tr>
<td>8-091T</td>
<td>12.0 mm, Curved With Out Lock, Ti 95</td>
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<tr>
<td><strong>Speculum</strong></td>
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<tr>
<td>14-0287S</td>
<td>Open 11 mm Blades, Child Size, STSS 121</td>
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<tr>
<td><strong>Solid Blades</strong></td>
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<tr>
<td>14-0231</td>
<td>Child size, 11 mm blades, STSS 121</td>
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<tr>
<td>14-0241S</td>
<td>Newborn size, 5 mm blades, STSS 121</td>
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<tr>
<td>14-0221S</td>
<td>Adult Size, 14 mm Blades, Length 40 mm, STSS 121</td>
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<tr>
<td>14-0222S</td>
<td>Premature Size, 4 mm Blades, STSS 121</td>
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<tr>
<td><strong>Wire</strong></td>
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<tr>
<td>14-024S</td>
<td>Infant Size, 10 mm Blades, Length 40 mm, STSS 121</td>
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<tr>
<td>14-022S</td>
<td>Adult Size, 14 mm Blades, Length 40 mm, STSS 121, 158</td>
</tr>
<tr>
<td>14-023S</td>
<td>Child Size, 11 mm Blades, Length 40 mm, STSS 121</td>
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<tr>
<td>14-0281S</td>
<td>Fenestrated 11 mm Blades, Child Size, Length 40 mm, STSS 121, 158</td>
</tr>
<tr>
<td>14-028S</td>
<td>Fenestrated 18 mm Blades, Adult Size, Length 40 mm, STSS 121</td>
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<td>Item Number</td>
<td>Description</td>
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<tr>
<td>14-0244S</td>
<td>Newborn Size, 4 mm Blades, Length 25 mm</td>
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<tr>
<td>14-026S</td>
<td>Open 11 mm Blades, Child Size, Length 40 mm</td>
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<tr>
<td>14-025S</td>
<td>Open 18 mm Blades, Adult Size, Length 45 mm</td>
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<td>14-0286S</td>
<td>Open Blades, Adult Size, Length 45 mm</td>
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<tr>
<td>14-0283</td>
<td>Round Open 11 mm Blades, Child Size, Length 45 mm</td>
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<tr>
<td>14-0282S</td>
<td>Round Open Blades, Adult Size, Length 45 mm</td>
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<tr>
<td>5-034</td>
<td>Bechert Nucleus Rotator, Angled, &quot;Y&quot;-Tip, Length 121 mm</td>
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<tr>
<td>10-091</td>
<td>Beehler Pupil Dilator With Plunger, 17Ga, Curved</td>
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<tr>
<td>10-083</td>
<td>Beehler Pupil Dilator, Intraocular Handle, 17Ga, Curved</td>
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<tr>
<td>16-138</td>
<td>Belz Lacrimal Sac Rounger</td>
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<tr>
<td>13-147</td>
<td>Bicallo Guide, Blunt Tip, 5 mm Length, Angled</td>
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<tr>
<td>7-080/BC</td>
<td>Binkhorst I/A Tip</td>
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<tr>
<td>15-055-19</td>
<td>Bishop Harmon Anterior Chamber Cannula, 19Ga x 25 mm, Angled</td>
</tr>
<tr>
<td>4-0607S</td>
<td>Bishop-Harmon Suturing Forceps, 3 mm 1x2 Teeth, STSS</td>
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<tr>
<td>1-010T</td>
<td>Blade Holder, Round Handle, With Lock, Length 95 mm, Ti</td>
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<tr>
<td>4-2300T</td>
<td>Bonaccolto Utility Forceps, 15.0 mm Atraumatic Serration, Ti</td>
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<tr>
<td>4-059T</td>
<td>Bonn Corneal Forceps, Curved, 12 mm, 1x2 Teeth, 72 mm, Ti</td>
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<tr>
<td>4-058T</td>
<td>Bonn Corneal Forceps, Straight, 12 mm, 1x2 Teeth, 94 mm, Ti</td>
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<tr>
<td>3-090T</td>
<td>Bowers Axis Marker, Used with Mendez Degree, Length 130 mm, Ti</td>
</tr>
<tr>
<td>3-091T</td>
<td>Bowers Axis Marker, Length 130 mm, Ti</td>
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**Bowman Lacrimal Probe**

<table>
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<tr>
<th>Item Number</th>
<th>Description</th>
<th>Size/Overall Length</th>
<th>STSS</th>
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<tbody>
<tr>
<td>9-011S</td>
<td>Size 0.0-0, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
</tr>
<tr>
<td>9-010S</td>
<td>Size 0.000-0.00, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
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<tr>
<td>9-012S</td>
<td>Size 1.2, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
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<tr>
<td>9-013S</td>
<td>Size 3.4, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
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<tr>
<td>9-014S</td>
<td>Size 5.6, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
</tr>
<tr>
<td>9-015S</td>
<td>Size 7.8, Overall Length 133 mm</td>
<td>STSS</td>
<td>97, 201</td>
</tr>
<tr>
<td>15-057</td>
<td>Bracken Flattened Anterior Chamber Cannula, 19Ga x 23 mm</td>
<td>STSS</td>
<td>122</td>
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**Braunstein Fixed Caliper**

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<tr>
<th>Item Number</th>
<th>Description</th>
<th>Size/Overall Length</th>
<th>STSS</th>
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<tbody>
<tr>
<td>2-101T</td>
<td>3.0-3.5 mm, Overall Length 80 mm</td>
<td>Ti</td>
<td>49</td>
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<tr>
<td>2-100S</td>
<td>3.5-4.0 mm, Overall Length 80 mm</td>
<td>STSS</td>
<td>49</td>
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<tr>
<td>2-100T</td>
<td>3.5-4.0 mm, Overall Length 80 mm</td>
<td>Ti</td>
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</tr>
<tr>
<td>6-10/6-076</td>
<td>Brown-Osher Five Facet Blade Diamond Knife, 100 mm</td>
<td>STSS</td>
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**Brush Tip Cannula**

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<th>Item Number</th>
<th>Description</th>
<th>Size/Overall Length</th>
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<tbody>
<tr>
<td>12-5017</td>
<td>20Ga, 5 per box</td>
<td>STSS</td>
<td>233</td>
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<tr>
<td>12-5162</td>
<td>23Ga, 5 per box</td>
<td>STSS</td>
<td>233</td>
</tr>
<tr>
<td>12-5160</td>
<td>25Ga, 5 per box</td>
<td>STSS</td>
<td>233</td>
</tr>
<tr>
<td>13-1091</td>
<td>BRVO Knife, 20Ga</td>
<td>STSS</td>
<td>223</td>
</tr>
<tr>
<td>13-1091-23</td>
<td>BRVO Knife, 23Ga</td>
<td>STSS</td>
<td>223</td>
</tr>
<tr>
<td>16-062</td>
<td>Bunge Evisceration Spoon, Large, Overall Length 130 mm</td>
<td>STSS</td>
<td>135, 212</td>
</tr>
<tr>
<td>16-061</td>
<td>Bunge Evisceration Spoon, Small, Overall Length 130 mm</td>
<td>STSS</td>
<td>135, 212</td>
</tr>
<tr>
<td>15-379-25</td>
<td>Buratto LASIK Irrigation Cannula 25Ga, 45° angled triport</td>
<td>STSS</td>
<td>130, 167</td>
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</table>

**Cannula for DALK Procedure, 0.2 mm port, 27Ga**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>STSS</th>
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</thead>
<tbody>
<tr>
<td>15-450-27</td>
<td>Cannula for DALK Procedure, 0.2 mm port, 27Ga</td>
<td>131, 190</td>
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</table>

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<tr>
<th>Item Number</th>
<th>Description</th>
<th>Size/Dimensions</th>
<th>STSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-0374</td>
<td>W/Rule, 23Ga, 2 engraving, W/Lock, Micro Jaws, Tip Only</td>
<td>60</td>
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</tr>
<tr>
<td>4-0375</td>
<td>W/Rule, 23Ga, 6 engraving, W/lock, Micro Jaws, Tip Only</td>
<td>60, 163</td>
<td></td>
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<tr>
<td>4-0395</td>
<td>W/SCALE, cross action, curved jaws 8.5 mm, 15 mm incision</td>
<td>16, 59</td>
<td></td>
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<tr>
<td>4-03791</td>
<td>W/View Port, 23Ga, 7 engraving, micro jaws 0.8 mm, Tip Only</td>
<td>61</td>
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</tr>
<tr>
<td>4-0391S</td>
<td>Inamura Style, S-R, Curved Jaws 10 mm, Length 115 mm, STSS</td>
<td>58</td>
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</tr>
<tr>
<td>4-0392S</td>
<td>Inamura Style, S-R, Curved Jaws 12.0 mm, Length 117 mm, STSS</td>
<td>58</td>
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<tr>
<td>13-152S</td>
<td>Carlson DSEK Smoother, STSS</td>
<td>STSS</td>
<td>110</td>
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<tr>
<td>4-2141T</td>
<td>Cartridge Loading Forceps, A, B, C, D Cartridges, 109 mm, Ti</td>
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</table>

**Castroviejo**

<table>
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<th>Size/Dimensions</th>
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<td>2-010S</td>
<td>Caliper, Measure 0-20 mm, Both Sides Scale, STSS</td>
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<tr>
<td>2-010T</td>
<td>Caliper, Measure 0-20 mm, Both Sides Scale, Ti</td>
<td>49</td>
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</tr>
<tr>
<td>4-0541T</td>
<td>Colibri Corneal Forceps, 12 mm, 1x2 Teeth, Length 107 mm, Ti</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>11-0241S</td>
<td>Corneal Section Scissors, Left, 14.0 mm Blades, STSS</td>
<td>101</td>
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<tr>
<td>11-024S</td>
<td>Corneal Section Scissors, Right, 14.0 mm Blades, STSS</td>
<td>101, 157</td>
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<tr>
<td>11-015S</td>
<td>Curved Corneal Scissors, Blunt, 16 mm Blades, 110 mm, STSS</td>
<td>107</td>
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<tr>
<td>13-052</td>
<td>Cycloidalysis Spatula, 0.75 mm x 10 mm Blades, Length 124 mm</td>
<td>107, 157</td>
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<tr>
<td>13-051</td>
<td>Cycloidalysis Spatula, 1.0 mm x 10 mm Blades, Length 124 mm</td>
<td>107, 157</td>
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<tr>
<td>13-050</td>
<td>Double Ended Cycloidalysis Spatula, 0.5 mm Wide, Blades 10/15 mm</td>
<td>107, 157, 195</td>
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<tr>
<td>Appendix</td>
<td>Item Description</td>
<td>Code</td>
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<tr>
<td>9-060T</td>
<td>Double-Ended Lacrimal Dilator, Size 1 &amp; 2, Length 100 mm, Ti</td>
<td>97, 201</td>
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<tr>
<td>4-0822T</td>
<td>Fixation Forceps, 5 mm 1x2 Teeth, W/O Platform, Ti</td>
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<tr>
<td>11-012S</td>
<td>Universal Corneal Scissors, Blunt, 11 mm Blades, 106 mm, STSS</td>
<td>100</td>
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<tr>
<td>11-011S</td>
<td>Universal Corneal Scissors, Blunt, 7.5 mm Blades, 102 mm, STSS</td>
<td>100</td>
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<tr>
<td><strong>Corneal Scissors</strong></td>
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<td>11-010S</td>
<td>Left, Blunt Tips, 11 mm Blades, Length 100 mm, STSS</td>
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<tr>
<td>11-0101S</td>
<td>Right, Blunt Tips, 11 mm Blades, Length 100 mm, STSS</td>
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<td><strong>Needle Holder</strong></td>
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<tr>
<td>8-0921T</td>
<td>Delicate jaws 13.5 mm, 125 mm length, straight w/lock, Ti</td>
<td>95</td>
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<tr>
<td>8-096T</td>
<td>Delicate jaws, 8 mm, curved w/o lock, 135 mm length, Ti</td>
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<tr>
<td>8-100T</td>
<td>Standart jaws, 11 mm, curved w/lock, 140 mm length, Ti</td>
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<tr>
<td>14-061T</td>
<td>Speculum, Flat branches, Fenestrated 15 mm Blades, Adult Size, 80 mm, Ti</td>
<td>118</td>
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<td><strong>Suturing Forceps</strong></td>
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<tr>
<td>4-0600S</td>
<td>12 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, STSS</td>
<td>73, 159, 195, 198</td>
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<td>4-0600T</td>
<td>12 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, Ti</td>
<td>73, 159, 195, 198</td>
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<tr>
<td>4-0601S</td>
<td>3 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, STSS</td>
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<td>4-0601T</td>
<td>3 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, Ti</td>
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<tr>
<td>4-0602S</td>
<td>5 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, STSS</td>
<td>73</td>
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<td>4-0602T</td>
<td>5 mm 1x2 Teeth, 6.0 mm Tying Platform, Flat Handle, Ti</td>
<td>73</td>
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<td><strong>Catalano</strong></td>
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<tr>
<td>4-055T</td>
<td>Corneal Forceps, 12 mm, 1x2 Teeth, Round Handle, Ti</td>
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<tr>
<td>4-056T</td>
<td>Corneal Forceps, 3 mm, 1x2 Teeth, Round Handle, Ti</td>
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<tr>
<td>4-057T</td>
<td>Corneal Forceps, 5 mm, 1x2 Teeth, Round Handle, Ti</td>
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<tr>
<td>4-182T</td>
<td>Curved Micro Tying Forceps, 6.0 mm Tying Pl., 105 mm, Ti</td>
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<td>R2-40416</td>
<td>Cellulose Points, pack of 10/box: 250</td>
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<td>R2-40411</td>
<td>Cellulose Points, pack of 5/box: 100</td>
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<td>R2-40415</td>
<td>Cellulose Spears, pack of 10/box: 200</td>
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<td>R2-40410</td>
<td>Cellulose Spears, pack of 5/box: 100</td>
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<td><strong>Chang</strong></td>
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<tr>
<td>7-1271S</td>
<td>Double Ended Micro Finger&amp;Quick Chopper, LHD, 125 mm, STSS</td>
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<td>7-127S</td>
<td>Double Ended Micro Finger&amp;Quick Chopper, RHD, 125 mm, STSS</td>
<td>88</td>
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<tr>
<td>15-0681</td>
<td>Nucleus Hydrodissector, 27Gax16 mm</td>
<td>126</td>
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<td>12-5164</td>
<td>Charles Flute Cannula, 23Ga, 5 per box</td>
<td>233</td>
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<td>12-5492</td>
<td>Charles Flute Cannula, 27Ga, 5 per box</td>
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<td><strong>Cilia Forceps</strong></td>
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<td>Cindy Sweeper DSEK Spatula, 7 mm Tip, Angled, 114 mm, STSS</td>
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<td>Claus Lucke Retinotomy Scissors, Bulbous Tip 20Ga, Tip only</td>
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<td>4-0503S</td>
<td>12 mm, 1x2 Teeth, Flat Handle, Overall Length 84 mm, STSS</td>
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<tr>
<td>4-0551D Bonn-Catalano Corneal Forceps, 012 mm, 6 per box</td>
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<tr>
<td>12-301-23D</td>
<td>Diamonized Gripping Forceps w/Sandblasted Platform, 23Ga</td>
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<td>12-301-25D</td>
<td>Diamonized Gripping Forceps w/Sandblasted Platform, 25Ga</td>
<td>25Ga</td>
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<tr>
<td>7-093D</td>
<td>Drysdale Nucleus Manipulator, 6 per box</td>
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<td>12-410-23D</td>
<td>Eckardt End Gripping Forceps, 23Ga, Stainless, 6 per Box</td>
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<td>Eckardt End Gripping Forceps, 25Ga, Stainless, 6 per Box</td>
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<tr>
<td>7-063D</td>
<td>Nagahara Phaco Chopper, RHD, 6 per box</td>
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<td>12-304-23D</td>
<td>Gripping Forceps with a &quot;Crocodile Platform&quot;, 23Ga</td>
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<tr>
<td>5-030D</td>
<td>Kuglen Iris Hook, Angled, 6 per box</td>
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<td>Lester Lens Manipulator, Angled, 6 per box</td>
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<td>McPherson Tying Forceps, Angled, 6 per box</td>
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<td>12-5064</td>
<td>Posterior Vitrectomy Cutter, 20Ga, 1 per box</td>
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<td>12-5172</td>
<td>Posterior Vitrectomy Cutter, 23Ga, HIGH SPEED</td>
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<td>5-032D</td>
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<td>11-040D</td>
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<td>10-5016-1</td>
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<td>10-5067-1</td>
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<td>10-5016-5</td>
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<td>6 packs of 5 pcs (30 retractors)</td>
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<td>12-DTuB-3</td>
<td>Adjustable to B&amp;L® Millenium”, Stellaris”</td>
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<td>12-DTuB-2</td>
<td>Adjustable to DORC® Associate, Alcon® Constellation”, Accurus”</td>
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<td>Adjustable to Alcon® STTO; Storz® Premiere; DORC® Harmony Budget” etc</td>
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| 7-0201T | Kansas-Alfonso Nucleus Fragment Removing Forceps, 107 mm, Ti |
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| 11-0201S | Katzin Corneal Transplant Scissors, Right, Strongly Curved, 100 mm, STSS |
| 4-03771 | Kawai Capsulorhexis Forceps, 23/25Ga, Tip Only |
| 12-415 | Kawai ILM Forceps, 25Ga, Tip only |
| 16-011 | Kelly Descemet's Membrane Punch, 75 mm, Serrated Handle, 131 mm |
| 15-025 | Kelman Sharp Irrigating Cystotome, 25Ga, 32 mm |

**Kelman-McPherson**

| 4-092S | Tying Forceps W/10.0 mm Tying Platforms, Length 86 mm, STSS |
| 4-092T | Tying Forceps, With 10.0 mm Tying Platforms, Length 86 mm, Ti |
| 4-090T | Tying Forceps, With 4.0 mm Tying Platforms, Length 81 mm, Ti |
| 4-091S | Tying Forceps, With 8.0 mm Tying Platforms, Length 84 mm, STSS |

**Kershner**

**Capsulorhexis Forceps**

| 4-03731 | One-Pinch, Cystotome Tips, 23Ga, W/Lock, Tip Only |
| 4-03741 | One-Pinch, Micro Jaws, Cystotome Tips, 23Ga, W/Lock, Tip Only |

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| 14-0601T | Reversible, Solid Blades, Flat Branches, Length 70 mm, Ti |
| 14-060T | Reversible, Solid Blades, Round Branches, Length 70 mm, Ti |
| 14-060A | Reversible with Aspiration, Rounded Branches |
| 14-062T | Reversible, Length 70 mm, Ti |

**Knapp**

| 11-101S | Curved Strabismus Scissors, Ring Handle, Length 125 mm, STSS |
| 10-014 | Lacrimal Sac Retractor, Blunt 4x8 mm Four Prongs Tip |
| 11-100S | Straight Strabismus Scissors, Length 125 mm, STSS |

**Knolle**

| 15-063-23 | Anterior Chamber Cannula, 23Gax9 mm |
| 15-063-30 | Anterior Chamber Cannula, 30Gax9 mm |
| 15-183 | Knolle-Pearse Irrigating Vectis, 23Ga, 3 port |
| 15-169-21 | Kratz Capsule Polisher, 21Gax22 mm, 0.3 mm top port |
| 15-169-23 | Kratz Capsule Polisher, 23Gax22 mm, 0.3 mm top port |
| 5-030 | Kuglen Iris Hook, Angled, "H" Shaped Tip, Length 122 mm |
| 5-0301 | Kuglen Iris Hook, Straight, "H" Shaped Tip, Length 124 mm |

**L**

**Lacrimal Cannula**

| 21-R7025 | Anel - 25Ga (50 mm), blunt tip, straight, 10 per box |
| 21-R7023 | Fasanella - 23Ga (60 mm)x42 mm, 10 per box |
| 21-R7021 | 21Ga (80 mm)x33 mm, 10 per box |
| 21-R7026 | 26Ga (45 mm)x28 mm, 10 per box |
| 15-027 | Reinforced, Straight, 23Ga x32 mm |
| 15-029 | Reinforced, Curved, 23Ga x32 mm |

**Lacrimal Intubation Set**

| 21-R7001 | 23Gax7 in (60x175 mm), 30 cm silicone tubing, 3 per box |
| 21-R7004 | 27Ga, olive tip, 11 cm probe, 3 per box |
| 21-R7005RD | w/retrieval device 23Ga, 11 cm probe, 35cm tubing, 3 per box |
| 21-R7004RD | w/retrieval device 27Ga, olive tip, 11 cm probe, 3 per box |
| 21-R7002 | Lacrimal Intubation Tubing - 30 cm, 3 per box |
| 4-1909T | Lambert Chalazion Forceps, Medium, 12 mm Diameter, Ti |
| 4-1908T | Lambert Chalazion Forceps, Small, 8 mm Diameter, Ti |
| 6-10/6-0701 | Lancet Blade, 0.80 mm, Straight Ti Universal Handle |
| 6-10/6-070 | Lancet Blade, 1.00 mm/ Straight Ti Universal Handle |

**LASEK**

| 20-121 | 8.0 mm Trephine / 8.5mm Funnel |
| 20-122 | 9 mm Trephine / 9.5 mm Funnel |
| 20-130 | Detaching Spatula |
| 20-131 | Epithelial Micro Hoe |
| 20-1031T | Funnel 8.5 mm, Ti |
| 20-1041T | Funnel 9.5 mm, Ti |
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<td>Phaco Chopper, RHD, Dull Finish, Overall Length 120 mm</td>
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<td>11-013S</td>
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<td>18-305-1</td>
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<td>18-303</td>
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<tr>
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<td>25Ga, 16 000 cpm, Constellation compatible</td>
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<tr>
<td>RMVIT.25EVA</td>
<td>25Ga, 16 000 cpm, EVA compatible</td>
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<tr>
<td>RMVIT.25STEL</td>
<td>25Ga, 16 000 cpm, Stellars PC compatible</td>
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<tr>
<td>RMVIT.27CON</td>
<td>27Ga, 16 000 cpm, Constellation compatible</td>
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<tr>
<td>RMVIT.27EVA</td>
<td>27Ga, 16 000 cpm, EVA compatible</td>
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<tr>
<td>RMVIT.27STEL</td>
<td>27Ga, 16 000 cpm, Stellars PC compatible</td>
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<td>PVA Points, pack of 10/box: 180</td>
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<td>R2-40401</td>
<td>PVA Points, pack of 5/box: 90</td>
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<tr>
<td>R2-40405</td>
<td>PVA Spears, pack of 10/box: 180</td>
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<td>R2-40400</td>
<td>PVA Spears, pack of 5/box: 90</td>
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<tr>
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<tr>
<td>7-128</td>
<td>Quick Chopper with Rounded Edge, RHD, Round Handle, 120 mm</td>
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9-023S  Size 2, Overall Length 140 mm, STSS  
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15-069-30 Rainin Nucleus Hydrodissector, 30Ga, Horizontally Spatulated  
16-143B Replacement Burr for Alger Brush, 0.5 mm (Box of 5)  
16-142B Replacement Burr for Alger Brush, 10 mm (Box of 5)  
12-5189 Replacement Cannula Kit, 23Ga, 1 kit per box  
21-R1123 Retrobulbar Needle-Atkinson 23Ga (60x38 mm), 10 per box  
21-R1125 Retrobulbar Needle-Atkinson 25Ga (50x38 mm), 10 per box  
10-5127 Reusable Iris Retractor, 1 pack of 6  
12-5100 Reusable Posterior Vitrectomy Cutter, 20Ga, 1 per box  

Reusable Tubing System for the Infusion of Silicone Oil

Caprolon Adapter adjustable to

12-RTUB-4 Oerli® Orbit®, Faros®, OS3™  
12-RTUB-3 B&L® Millenium®, Stellars™  
12-RTUB-2 DORC® Associate; Alcon® Constellation™  
12-RTUB-1 Ioltech® Pentasy; Optikon® Antares; Alcon® STTO; Storz® Premiere  
5-0322 Reversed Sinskey Hook, Angled, 15 mmx10.0 mm, Length 16 mm  
3-196 Richman Toric Marker, Angled shaft  

Rosen

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16-051-3 5B Round Diamond Dusted Burr 3.5 mm Diameter (burr only)  
4-2150 Rowen Rescue Kit For Lens Removal, Crocodile Forceps, 20Ga  
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Rumex

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4-21731 Foldable Lens Cutter  
2-062S Internal Micro Incision Gauges, 16 Blades 10-2.5 mm, STSS  
5-031 Lens Manipulator, 0.45 mm Tip, Angled, Length 122 mm  
3-1941 Toric Combo Marker II, Horizontal 0-0 Axis  
3-194 Toric Combo Marker, Vertical 0-0 Axis  
3-1921 Toric/LRI Slit Lamp Marker, Pre-Op, 14 mm, 3’ and 9’, 137 mm  

Rycroft Anterior Chamber Cannula

15-051-23 23Gax22 mm, 4 mm bend length  
15-052-23 23Gax22 mm, 6 mm bend length  
15-053-23 23Gax22 mm, 8 mm bend length  
15-051-25 25Gax22 mm, 4 mm bend length  
15-051-27 27Gax22 mm, 4 mm bend length  
15-052-27 27Gax22 mm, 6 mm bend length  
15-053-27 27Gax22 mm, 8 mm bend length  
15-051-30 30Gax22 mm, 4 mm bend length  

Sapphire Knife

Clear Corneal Blade

6-20/6SK-070 60°, 1.80 mm  
6-20/6SK-075 60°, 2.20 mm  
6-20/6SK-080 60°, 2.65 mm  
6-20/6SK-072 60°, 2.80 mm  
6-20/6SK-073 60°, 3.00 mm  
6-20/6SK-074 60°, 3.20 mm  

Crescent Blade

6-20/6SK-092 2.00 mm  
6-20/6SK-093 2.20 mm  

Double Edge Blade

6-10/6SK-0501 45°, 100 mm  
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<td>2.20 mm, Angled, 6 per box</td>
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<tr>
<td>SL-24</td>
<td>2.40 mm, Angled, 6 per box</td>
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<td>SL-26</td>
<td>2.65 mm, Angled, 6 per box</td>
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<td>SL-27</td>
<td>2.75 mm, Angled, 6 per box</td>
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<td>2.80 mm, Angled, 6 per box</td>
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<td>TR-17</td>
<td>1.50-1.70 mm, Angled, 6 per box</td>
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<td><strong>Single Use Trocar System</strong></td>
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<td><strong>Soft Tip Cannula</strong></td>
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<td>12-5063</td>
<td>20Ga, 5 per box</td>
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