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RUMEX instruments advantages and highlights
How to place an order
Warranty, returns and replacements

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The RUMEX brand founder is Andrey Yakovlev, in 80-s and early 90-s practicing ophthalmologist in S.N. Fedorov NMRC "MNTK "Eye Microsurgery".

1990  business started in Venezuela, Colombia
1994  RUMEX International Company was founded in Florida, USA
1995  RUMEX trademark was registered
1997  distribution business in Russia started
1999  home manufacture was set up in Kazan, Russia
2000s  fast assortment development of reusable instruments
2007  product portfolio was expanded by single-use products
2009  RUMEX web store started working in USA
2009  launch of RUMEX single-use products manufacturing in UK
2010s  sales development outside Americas
2015  the 1st contract exceeding 1 million dollars was signed and fulfilled
2016-now  fast development of single-use product portfolio

**RUMEX INTERNATIONAL CO. NOW**

Over 2000 products in portfolio

![Reusable and single-use instruments](image1)

![Anterior and posterior instruments](image2)

![Instruments, IOLS and consumables](image3)

![Ophthalmic and cardio products](image4)

World quality certificates

[FD](image5) [CE](image6) [ISO](image7)

More than 100 distributors worldwide in over 70 countries

**HAPPY BIRTHDAY RUMEX!**
RUMEX INSTRUMENTS
ADVANTAGES AND HIGHLIGHTS

SCISSORS, PRECHOPPERS

UP TO 10,000 CUTS

MICS AND VITREORETINAL INSTRUMENTS

GENTLE AND PRECISE
EASY CLEANING

CALIPERS, GAUGES AND MARKERS

EFFORTLESS AND ACCURATE MARKING
SHARPLY DEFINED SCALES

NEEDLE HOLDERS

SPECIAL COATING FOR SECURE GRIPPING
DON’T “GRAB” A NEEDLE
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. Purchasing with our company is simple and convenient. 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 RMA 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.
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOST POPULAR</strong></td>
<td>Best-selling item</td>
</tr>
<tr>
<td><strong>POPULAR</strong></td>
<td>SKU preferred by the majority of customers</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td>Recently introduced into the product range of RUMEX International Co.</td>
</tr>
<tr>
<td>2 Disposable instruments</td>
<td>Available in a single-use edition</td>
</tr>
<tr>
<td><strong>SET</strong> p.100</td>
<td>Featured instrument in the set on page 100</td>
</tr>
<tr>
<td><strong>DON'T FORGET TO BUY</strong></td>
<td>Frequently bought together</td>
</tr>
<tr>
<td><strong>6</strong> Quantity in the box</td>
<td></td>
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</table>
# IOLs, DISPOSABLE INSTRUMENTS AND CONSUMABLES

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</thead>
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<td>17</td>
</tr>
<tr>
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<td>IRIS RETRACTORS</td>
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<td>DISPOSABLE KNIVES</td>
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<td>DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT</td>
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<td>DISPOSABLE CANNULAS</td>
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DISPOSABLE PHACO PACK

Complete your set with any 6 or more different items from the list of the most popular RUMEX single-use products.

Choose your Phaco Pack content from the list of items below:

**Non-preloaded IOLs** + **Injector**

- Hydro-Sense Aspheric Hydrophilic IOL
- Hydro-Sense Aspheric Yellow Hydrophilic IOL
- AquaFree Yellow Aspheric Hydrophobic IOL
- Single-use Viscojet™ Eco IOL injection system for 2.2 mm incision VE2200

**Preloaded IOL**

- AquaFree Yellow Aspheric Preloaded
  Easy and controlled implantation through a 2.2 mm incision within less than 5 seconds

**OVDs**

- Cohesive
- Dispersive

SmartVisc. Sodium Hyaluronate 1.60%
SmartVisc PLUS. Sodium Hyaluronate 3.00%
Supreme. HPMC 2.00%

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change
Disposable Knives

Side Port Knife with Safety Lid
SP-15 1.00 mm, 15°

Slit Knife with Safety Lid
SL-18 1.80 mm
SL-22 2.20 mm
SL-27 2.75 mm

Clear Corneal Knife with Safety Lid
CC-22 2.20 mm
CC-27 2.75 mm

Disposable Instruments

Barraquer Wire Speculum
14-022D

Utrata Capsulorhexis Forceps
Cystotome Tips Curved
4-0331D

Nagahara Phaco Chopper
RHD* 7-063D

Sinskey Hook Angled
5-032D

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

**HYDROPHOBIC IOLs**

Foldable aspheric monofocal one-piece IOLs

<table>
<thead>
<tr>
<th></th>
<th>AquaFree Yellow</th>
<th>AquaFree Yellow Preloaded</th>
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<tbody>
<tr>
<td>Min. incision size</td>
<td>2.2 mm</td>
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</tr>
<tr>
<td>Overall diameter</td>
<td>13.0 mm</td>
<td></td>
</tr>
<tr>
<td>Optic diameter</td>
<td>6.0 mm</td>
<td></td>
</tr>
<tr>
<td>Power range</td>
<td>-5D to +9D (1D steps), +10D to +30D (0.5D steps), +31D to +40D (1D steps)</td>
<td>-5D to +9D (1D steps), +10D to +30D (0.5D steps)</td>
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<tr>
<td>Self-unfolding</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Water content</td>
<td>&lt;0.5%</td>
<td></td>
</tr>
<tr>
<td>Angulation</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Natural Yellow Hydrophobic Acrylic</td>
<td></td>
</tr>
<tr>
<td>Optic design</td>
<td>Biconvex, square-edge</td>
<td></td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.5</td>
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<tr>
<td>Abbe number</td>
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<tr>
<td>Nominal A-constant</td>
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<td></td>
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<tr>
<td>Haigis: a0=1.32, a1=0.40, a2=0.10</td>
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<td>HofferQ: pACD=5.51</td>
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<td>n: 190</td>
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<td>Ref.: [304],[332]</td>
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<td>Optimized optical constants</td>
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<td>Transition temp. of material</td>
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<tr>
<td>Filtration</td>
<td>UV and blue light (400-475 nm)</td>
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<tr>
<td>AC-depth</td>
<td>5.51</td>
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</tr>
<tr>
<td>Shelf life</td>
<td>5 years</td>
<td></td>
</tr>
</tbody>
</table>

**Excellent long-term result**

- Low chromatic aberration – increased contrast sensitivity, excellent color perception
- UV and blue light blocking – better protection of Macula
- Extreme double square-edge – no risk of secondary cataract development
- No spherical aberrations – minimized glare and unwanted images
- Implantation through a 2.2 mm incision – fast recovery
- Cryo-lathing method of manufacturing – no glistening

**Easy and controlled implantation**

- Special surface polishing – a lens does not stick to itself or instruments
- Low glass transition temperature – excellent material performance in operating conditions
- Optimal folding and unfolding ability – easy to inject
- Preloaded option available – simple and predictable IOL injection within less than 5 seconds

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change
IOLs

HYDROPHILIC IOLs*
Foldable aspheric monofocal one-piece IOLs

<table>
<thead>
<tr>
<th></th>
<th>Hydro-4 Aspheric</th>
<th>Hydro-Sense Aspheric</th>
<th>Hydro-Sense Aspheric (Yellow)</th>
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<td>Min. incision size</td>
<td>1.8 mm – suitable for MICS</td>
<td>2.2 mm</td>
<td>2.2 mm</td>
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<td>Overall diameter</td>
<td>11.0 mm</td>
<td>12.5 mm</td>
<td>12.5 mm</td>
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<td>6.0 mm</td>
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<td>Power range</td>
<td>-5D to +9D (1D steps)</td>
<td>+14D to +25D (0.5D steps)</td>
<td>+25D to +38D (1D steps)</td>
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<td>Hydrophilic Acrylic</td>
<td>Hydrophilic Acrylic</td>
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<td>Ref. [341]</td>
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</tr>
<tr>
<td>Optimized optical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>constants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filtration</td>
<td>UV</td>
<td>UV and blue light</td>
<td></td>
</tr>
<tr>
<td>AC-depth</td>
<td>4.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelf life</td>
<td>5 years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FEATURES

- Material (copolymer of hydrophilic monomers) – high level of biocompatibility
- No spherical aberrations – minimized glare and unwanted images
- Angulation 5° – reduced risk of secondary cataract development
- Double square-edge – no posterior capsule opacification caused by cellular migration
- Cryo-lathing method of manufacturing – no glistening
- Minimized capsular bag stretching – maximum comfort for the surgeon and patient
- Excellent folding and unfolding ability – easy to inject
- Special surface polishing – a lens does not stick to itself or instruments

*Not available in the US

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

ISO 0481 13485
Disposable IOL injection system
VISCOJECT ™ Eco
VE2200*

- Suitable for Hydrophobic and Hydrophilic IOLs
- Push version
- Soft-tip technology for 1-piece IOLs
- For 2.2 mm incisions (fig.1)

![fig1]

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change
**OVDs**

**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>Classification</th>
<th>Dispersive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</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>Storage</td>
<td>2-35°C</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 °C)

**Dispersion 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

*Not available in the US*

Product design and/or features that do not influence its functionality and main parameters are subject to change.
SMARTVISC / SMARTVISC PLUS®
Ophthalmic Viscosurgical Device

SmartVisc is a cohesive, sterile, highly purified, non-inflammatory, sodium hyaluronate viscoelastic solution with high molecular weight. It is used to create space, for example, when the anterior chamber is shallow, or when the surgeon requires a higher pressure in the anterior chamber compared to the pressure in the posterior chamber.

<table>
<thead>
<tr>
<th>Classification</th>
<th>SmartVisc</th>
<th>SmartVisc PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>Sodium Hyaluronate 1.6 %</td>
<td>Sodium Hyaluronate 3.0 %</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>1.2–2.0 m Da</td>
<td>1.0–1.8 m Da</td>
</tr>
<tr>
<td>Viscosity</td>
<td>approx. 80 000 mPas</td>
<td>approx. 400 000 mPas</td>
</tr>
<tr>
<td>Osmolality</td>
<td>270–400 mOsmol/kg</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>2–25ºC</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>6.8–7.4</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>1 ml</td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3.5 years</td>
<td></td>
</tr>
</tbody>
</table>

Advantages
- No refrigeration necessary
- Good maintenance of the anterior chamber and the capsular bag
- Controlled capsulorhexis
- Easy IOL implantation
- Better adhesiveness on the corneal endothelium during phacoemulsification
- Favorable environment to ophthalmic surgery
- Excellent tissue 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

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SILICONE OIL

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

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

GPC

Arbitrary unit

![GPC Graph](image)

Oligomers Qty In ppm

Sterilization

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

Packaging

Syringes are supplied sterile under double pouch

Indication

SmartSil 1000/5000 is used for prolonged tamponade after surgical treatment for severe retinal detachment (RD), especially:
- RD with proliferative vitreous retinopathy
- RD with diabetic retinopathy complications
- RD with giant tears
- Traumatic RD
- Secondary RD with viral retinitis

Shelf Life 3 years

*Not available in the US

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

<table>
<thead>
<tr>
<th>Surgical System</th>
<th>Reusable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasys™, Optikon® Antares®, Alcon® STTO®, Storz® 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>Oerli® Orbit®, Faros®, OS3®, Optikon®, R-Evolution®</td>
<td>12-RTUB-4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Surgical System</th>
<th>Disposable*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioltech® Pentasys™, Optikon® Antares®, Alcon® STTO®, Storz® Premiere®, DORC®, Harmony Budget®</td>
<td>12-DTUB-1</td>
</tr>
<tr>
<td>DORC® Associate®, Alcon®, Constellation®, Accurus®</td>
<td>12-DTUB-2</td>
</tr>
<tr>
<td>B&amp;L® Millenium®, Stellaris™</td>
<td>12-DTUB-3</td>
</tr>
<tr>
<td>Oerli® Orbit®, Faros®, OS3®, Optikon®, R-Evolution®</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

<table>
<thead>
<tr>
<th></th>
<th>Disposable</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5248* 23 Ga x 10 mm</td>
<td></td>
</tr>
</tbody>
</table>
**DISPOSABLE KNIVES**

**MOST POPULAR**

**Side Port Knives**
Initial stab incisions
Sterile, Box of 6

- **SP-15** 1.00 mm, 15°, Straight, Double Bevel
- **SP-30** 1.00 mm, 30°, Straight, Double Bevel
- **SP-45** 1.00 mm, 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-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.
IOLs, DISPOSABLE INSTRUMENTS AND CONSUMABLES

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

MOST POPULAR

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

MOST POPULAR

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

MOST POPULAR

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

MOST POPULAR

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

MOST POPULAR

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

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

**POPULAR**

**Speculum**
Barraquer Wire Speculum  
Overall length 40 mm  
Sterile, Box of 6  
14-022D

**Spatula**
Spatula for Femtosecond Laser Procedure  
Overall length 120 mm  
Sterile, Box of 6  
20-204D

**Forceps**
Overall length 104 mm

- **POPULAR**
  - Utrata Capsulorhexis Forceps  
    - Cystotome Tips  
    - Straight  
    - Sterile, Box of 6  
    - 4-0311D

- **POPULAR**
  - Utrata Capsulorhexis Forceps  
    - Cystotome Tips  
    - Curved  
    - Sterile, Box of 6  
    - 4-0331D

- **Castroviejo Suturing Forceps**  
  - 0.12 mm  
  - Sterile, Box of 6  
  - 4-0600D

- **Bonn-Catalano Corneal Forceps**  
  - 0.12 mm  
  - Sterile, Box of 6  
  - 4-0551D

- **McPherson Tying Forceps**  
  - Angled  
  - Sterile, Box of 6  
  - 4-174D

- **McPherson Tying Forceps**  
  - Curved  
  - Sterile, Box of 6  
  - 4-177D

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

Manipulators
Overall length 120 mm

- **Sinskey Hook**
  - Angled
  - Sterile, Box of 6
  - 5-032D

- **Lester Lens Manipulator**
  - Angled
  - Sterile, Box of 6
  - 5-0331D

- **Kuglen Iris Hook**
  - Angled
  - Sterile, Box of 6
  - 5-030D

- **Rosen Phaco Chopper**
  - Universal
  - Sterile, Box of 6
  - 7-065D

- **Nagahara Phaco Chopper**
  - RHD
  - Sterile, Box of 6
  - 7-063D

- **Drysdale Nucleus Manipulator**
  - Universal
  - Sterile, Box of 6
  - 7-093D

Scissors

- **Castroviejo Universal Corneal Scissors**
  - Blunt Tips
  - Overall length 106 mm
  - Sterile, Box of 6
  - 11-012D

- **Westcott Tenotomy Scissors**
  - Blunt Tips
  - Overall length 115 mm
  - Sterile, Box of 6
  - 11-040D

- **Vannas Capsulotomy Scissors**
  - Sharp Tips
  - Overall length 84 mm
  - Sterile, Box of 6
  - 11-052D

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

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change
SUTURES

10-0 Nylon Black Mono Sutures
For Scleracornea
Trape Spatula Needle
12 per box

**POPULAR**
22-R1404
Suture length 30 cm, Needle length 5.50 mm, 7/16 (158°) Curve
22-R1410
Suture length 30 cm, Needle length 7 mm, 1/2 (180°) Curve
22-R2002
Suture length 30 cm, Needle length 6.50 mm 3/8, (135°) Curve

**MOST POPULAR**
22-R1404S
Suture length 15 cm, Needle length 5.50 mm 7/16 (158°) Curve

5-0 Polyester Sutures
For Operations on Vitreous
Suture length: 45 cm
Needle length: 8 mm
Curve: 1/4 (90°)
12 per box

22-R3373
Green Braided, Dia Spatula Needle
22-R3377
White Braided, Trape Spatula Needle

6-0 Silk Black Braided Sutures
Curve: 3/8 (135°)
Suture length: 45 cm
12 per box
For Skin and Ocular Muscles
22-R3305
Reverse Cut Needle of 11 mm
For Sclera and Ocular Muscles
22-R2801
Trape Spatula Needle of 6.50 mm

8-0 PGA Absorbable Violet Braided Sutures
For Sclera and Conjunctiva
Curve: 3/8 (135°)
Suture length: 30 cm
12 per box
22-R2090
Trape Spatula Needle of 6.50 mm

*For sale in the USA only
Product design and/or features that do not influence its functionality and main parameters are subject to change
DISPOSABLE CANNULAS

ANESTHESIA CANNULAS
For injecting anesthetic agents into the muscle cone.

Atkinson
Retrobulbar Needle
21-R1125  25 Ga × 38 mm

Sub-Tenon’s
Anesthesia Cannula
21-R1320  20 Ga × 25 mm

ANTERIOR CHAMBER CANNULAS
Used for maintaining and forming the anterior chamber by injecting or removing air, fluids, viscoelastics and intraocular medications.

Rycroft
Anterior Chamber Cannula
4 mm bend length
21-R2023  23 Ga × 22 mm
21-R2025  25 Ga × 22 mm
21-R2030  30 Ga × 22 mm
8 mm bend length
21-R2027-8  27 Ga × 22 mm

Lewicky
Anterior Chamber Maintainer
4 mm serrated tip
15 cm silicone tubing
ID – 0.75 mm
OD – 1.65 mm
21-R2520  20 Ga × 22 mm

Viscoelastic Cannulas
For injecting viscoelastic to all meridians of the anterior chamber and for coating the intraocular lens.

MOST
Angled 32°, 9 mm bend length
21-R2225  25 Ga × 22 mm
21-R2227  27 Ga × 22 mm

MOST
Angled 32°, 10 mm bend length
21-R2323  23 Ga × 22 mm
21-R2327  27 Ga × 22 mm

*not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
HYDRODISSECTION CANNULAS

The hydrodissection cannulas with special tips are designed to be placed under the edge of the anterior capsulorhexis and toward the lens equator to deliver fluids to free the adhesions of the cataract from the capsular bag and allow it to rotate fully.

Pearce Hydrodissector
Angled 32°, spatulated tip
8 mm bend length
21-R4025  25 Ga × 22 mm
10 mm bend length
21-R4027  27 Ga × 22 mm

Hydrodissector
Angled 32°; Round smooth tip, 10 mm bend length
21-R4427  27 Ga × 22 mm

CORTEX REMOVAL CANNULAS

Used to remove cortical material during phacoemulsification.

Simcoe Cortex Extractor
0.30 mm Side Port
21-R5023  23 Ga × 22 mm

CYSTOTOME CANNULAS

Used to perform capsulorhexis. Tip is designed for opening of anterior capsule.

Irrigating Cystotome
Small radius. For capsulotomy on deep-set eyes or small pupils.
21-R3330  30 Ga × 16 mm

Pearce Irrigating Cystotome
21-R3027  27 Ga × 16 mm

*Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
REFRACTIVE CANNULAS

Used after ablation to wash away particulates from anterior and posterior sides of flap and stromal bed.

Lindstrom
Lasik Irrigating Cannula
3 ports
Formed, 7 mm bend length
Smooth angle curvature allows for safe flap alignment
10 per box
21-R7430 25 Ga × 25 mm

LACRIMAL CANNULAS AND SETS

For surgical treatment, repair and irrigation of the nasolacrimal system.

DCR and intubation sets

Lacrimal Intubation Set
Silicone tubing 30 cm
Stainless Steel probes
ID – 0.30 mm
OD – 0.60 mm
21-R7001 23 Ga × 17.5 cm probe

DCR Set
Silicone tubing 30 cm
Tubing dimensions 0.50 mm × 0.95 mm
Stainless Steel probes
21-R7011 20 Ga × 45 mm probe, Straight
21-R7012 20 Ga × 45 mm probe, Angled (shown)

Lacrimal Cannulas
21-R7021 21 Ga × 33 mm
21-R7026 26 Ga × 28 mm

*Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
**Best-selling item**

**SKU preferred by the majority of customers**

**Recently introduced into the product range of RUMEX International Co.**

**Disposable instruments**

**Available in a single-use edition**

**Featured instrument in the set on page 100**

**Frequently bought together**

**Quantity in the box**
REUSABLE ANTERIOR INSTRUMENTS

NEW 32
BLADE HOLDERS 39
CALIPERS & GAUGES 40
MARKERS 42
FORCEPS 48
HOOKS 69
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SAPPHIRE KNIVES 75
PHACO INSTRUMENTS 76
NEEDLE HOLDERS 85
PROBES 87
RETRACTORS 88
SCISSORS 90
SPATULAS 96
SPECULUMS 106
CANNULAS 111
MISCELLANEOUS 117
STERILIZING TRAYS 122
LASEK/ LASIK INSTRUMENTS 125
NEW

Cross-Action Capsulorhexis Forceps
Cataract Surgery

Cross-action instruments are very popular among ophthalmologists, as they allow to perform micro-invasive surgeries.

RUMEX developed a range of cross-action capsulorhexis forceps in the most popular length – 110 mm, with a variety of tips, handle designs and materials.

You may choose any option of your preference:

<table>
<thead>
<tr>
<th>HANDLES</th>
<th>CURVED TIPS</th>
<th>STRAIGHT TIPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat Ti</td>
<td>4-0395</td>
<td>4-0396</td>
</tr>
<tr>
<td>Round Ti</td>
<td>4-0394</td>
<td>planned</td>
</tr>
<tr>
<td>Flat STSS</td>
<td>4-0395S</td>
<td>planned</td>
</tr>
</tbody>
</table>

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Cross-Action Capsulorhexis Forceps
with Scale
For 1.50 mm incisions
Jaws 8.50 mm
Scale of 2.50 mm, 5.00 mm from the tip
Overall length 110 mm
Cystotome tips

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

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

Cataract Surgery

Ultra thin delicate tips are safe for the wound edges.

Cross-action facilitates quick and safe incision opening.

---

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

Cataract Surgery

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

---

**7-1167S**
**Crozafon Prechopper**

Cataract Surgery

Provides easy releasing of entrapped gas bubbles for safer hydrodissection

Round handle
Overall length 118 mm
Stainless Steel

Reduced thickness of the blades to use on shallow anterior chambers

---

**7-143**
**Slade/Terao Nucleus Splitter**

Cataract Surgery

Used to crack the femtochopped nucleus.

Chopper type design tip.

---

*Tip only. Handles are sold separately.

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.

- 10 serrations for intraocular measurement (from 1 mm to 10 mm with 1 mm increment)

**7-145 Nagy Femtosecond Chopper**

Cataract Surgery

Used for femtosecond laser-assisted cataract surgery.

- Cracking the nucleus through the laser-created lines.

**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.
**4-251 Cross-Action DMEK Forceps**

Corneal Surgery

Delicate tips to fit through 1.80 mm incision
Overall length 110 mm

Reversed tips are used to peel off the Descemet’s membrane through 1.80 mm incision

**4-247* Florakis Microinvasive Endothelial Forceps**

Corneal Surgery

Reversed tips, angled 75°

*Tip only. Handles are sold separately.

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

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.

John DSAEK Stromal Scrubber
Corneal Surgery

Decreases the risk of disk detachment after DSAEK surgery.

Roughens the inner corneal stroma at the periphery of Descemetorhexis.

John DSAEK Glider
Corneal Surgery

Used for donor disk gliding.

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

**20-2071**  
**ReLEX SMILE Spatula**  
Refractive surgery

Double-ended spatula

Wide disc-shaped beveled tip allows to dissect the lenticule safely and conveniently

Spatula on this side of the instrument to identify and open the intrastromal pocket

**4-21432**  
**Zaldivar - Kraff ICL Pacman Forceps**  
Refractive surgery

Atraumatic ridges and the gentle curve at the tips to grasp the ICL® without damage. Straight shaft, angled tips. Compatible with Squeeze Handle 12-003T

A hole on the upper jaw for perfect visualization

**4-0832S**  
**Lester Fixation Forceps**

Straight tips  
6 mm platforms  
2x3 Teeth  
Flat handle  
Overall length 105 mm  
Stainless Steel

**4-124S**  
**Compressing Lid Forceps with atraumatic rollers**  
Dry Eye

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.

*Tip only. Handles are sold separately.  
Product design and/or features that do not influence its functionality and main parameters are subject to change.*
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° from 0° to 180°
With atraumatic fixation teeth
Dull finish
Overall length 134 mm
Titanium

| 2-031T | 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° from 0° to 180°
Dull finish
Titanium

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

ID 13 mm/ ED 18 mm
With 4 grooves for better marks visualization
ID 13 mm/ ED 19 mm
Overall length 136 mm
2-033T

2-0331T
ID 13 mm/ ED 16.50 mm
Overall length 122 mm
2-0331T

Mendez
Grooved Fine Mendez Degree

Used to determine incision angles
Can be used with **3-091T Bores Axis Marker**
Calibrated every 5° 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
Intra-Op
Overall length 130 mm
Titanium

3-090T
Used with Gauges
2-030T, 2-031T,
2-0311T, 2-033T,
2-0331T
to mark the axis
12 mm blades

3-091T
Used with Gauges
2-034T, 2-036T
to mark the axis
11.5 mm blades

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

R 5.50
R 6.00

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

3-0211T 5.00 mm
3-0212T 5.50 mm
3-0213T 6.00 mm
3-0215T 7.00 mm
3-0216T 7.50 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° angled to handle
Titanium
3-143T

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
LRI Marker
Intra-Op
Automatically creates marks at 40-60-80°
Overall length 130 mm
Titanium
3-1801

LRI Axis Marker
Pre-Op Reference Marker
Horizontal Axis 3° and 9°
Titanium
3-190T

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

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

RUMEX Toric Combo Marker

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

MARKING PEN

Marking Pen
Double-ended
Disposable
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

POPULAR
Richman
SINGLE-STEP toric marker
Designed to mark the desired axis of toric placement. The mark is performed preoperatively, 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

Designed in cooperation with Jaime Velazquez O’Byrne, M.D., Colombia

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

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

FORCEPS

CAPSULORHXIS FORCEPS

Utrata
Capsulorhexis Forceps
11 mm jaws
Flat handle

4-030T
Straight jaws, regular tips, Titanium, 82 mm length

4-0300T
Straight jaws, cystotome tips, Titanium, 82 mm length

4-0300S
Straight jaws, cystotome tips, SS, 82 mm length

4-0301S
Straight jaws, cystotome tips, SS, 107 mm length

4-0301T
Straight jaws, cystotome tips, Titanium, 107 mm length

4-0321S
Curved jaws, cystotome tips, SS, 107 mm length

4-0321T
Curved jaws, cystotome tips, Titanium, 107 mm length

Nevyas
Capsulorhexis Forceps
Straight jaws, 11 mm
Cystotome triangular claw-shaped tips
Overall length 105 mm
Titanium

4-0352T

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

Utrata
Capsulorhexis Forceps
11 mm jaws
Round Handle
Titanium
110 mm length
4-0311T Straight jaws, Cystotome tips
4-031T Straight jaws, Regular tips
4-0314T With ruler, Straight jaws, Cystotome tips, 2 engravings at 3,6 mm
4-0315T With ruler, straight jaws, cystotome tips, 6 engravings at 1,2,3,4,5,6 mm
4-0331T Curved jaws, Cystotome tips
4-03314T With ruler, Curved jaws, Cystotome tips, 2 engravings at 3,6 mm
4-03315T With ruler, Curved jaws, Cystotome tips, 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.
4 - FORCEPS

Small-Incision Capsulorhexis Forceps
Cystotome tips
Curved micro-thin jaws
Fits through 2 mm incision
With limiter
Flat handle
Overall length 104 mm
Stainless Steel
4-032S

Cross-Action Capsulorhexis Forceps with Scale
For 1.50 mm incisions
Jaws 8.50 mm
Scale of 2.50 mm, 5.00 mm from the tip
Overall length 110 mm
4-0395
Curved Stainless Steel Jaws, Flat Titanium Handle
4-0394
Curved Stainless Steel Jaws, Round Titanium Handle
4-0395S
Curved Stainless Steel Jaws, Flat Stainless Steel Handle
4-0395T
Curved Titanium Jaws, Flat Titanium Handle
4-0396
Straight Stainless Steel Jaws, Flat Titanium Handle

FORCEPS FOR LASER-ASSISTED SURGERY

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

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

Kershner
One-Pinch Capsulorhexis Forceps
Curved 23 Gauge shaft
Designed to perform Capsulorhexis through 0.80 mm side-port incision
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T

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* 23 Ga

*Tip only. Handles are sold separately.
Product design and/ or features that do not influence its functionality and main parameters are subject to change.
4 - FORCEPS

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*

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

Cilia
Cilia Forceps, Smooth Jaws

CONJUNCTIVA FORCEPS

Fechtner
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.
Dysfunctional meibomian glands often cause dry eyes. They may also contribute to blepharitis. 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
Curved
Overall length 112 mm
Titanium
4-1913T

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
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.
ICRS FORCEPS

For forceps for ICRS Implantation
0.20 mm 1×1 teeth
0.30 mm groove
Overall length 85 mm
Titanium
4-2144T

CORNEAL FORCEPS

Colibri
Corneal Forceps
5 mm tying platform

MOST POPULAR
4-050T
Colibri
1*2 teeth
0.12 mm
Titanium
Length 84 mm

4-0504T
Colibri-Bonn
1*2 teeth 0.12 mm
Titanium
Length 84 mm

4-0501T
Colibri
1*2 teeth 0.12 mm
Titanium
Length 77 mm

4-0502S
Hoskin Colibri
Pierced tips
Stainless Steel
Length 84 mm

4-0503S
Colibri-Bonn
1*2 teeth 0.12 mm
Stainless Steel
Length 84 mm

Colibri
Corneal Forceps
Bonn type 1*2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 115 mm
Titanium
4-053T

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

Castroviejo Colibri
Corneal Forceps
1.2 teeth, 0.12 mm
Tying platform, 5 mm
Overall length 107 mm
Titanium
4-054T

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

Corneal Forceps
5 mm tying platform
Titanium

POPULAR
4-055T  Catalano
Round handle
1×2 teeth 0.12 mm
Length 105 mm

4-056T  Catalano
Round handle
1×2 teeth 0.30 mm
Length 105 mm

4-057T  Catalano
Round handle
1×2 teeth 0.50 mm
Length 105 mm

MOST POPULAR
4-0551T  Bonn-Catalano
Round handle
1×2 teeth
0.12 mm
Length 105 mm

4-058T  Bonn
Flat handle
1×2 teeth
0.12 mm
Length 94 mm
Medium size

4-059T  Bonn
Flat handle
1×2 teeth
0.12 mm
Length 72 mm
Small size

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

Florakis Endothelial Forceps
Designed to assist in 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° angled, 18 mm tip
Round Handle
Overall length 125 mm
Titanium
4-2019T

Florakis Microinvasive Endothelial Forceps
Designed to assist in the removal of endothelium from the host cornea
Compatible with Squeeze Handle
12-003T
4-247*

Forceps for Corneal Endothelium Implantation
For inserting the donor button with the pullthrough technique
Security of corneal stromal layer
Compatible with Squeeze Handle
12-003T
4-034*

Guell DMEK Forceps
Corneal surgery
Highly polished broad tips allow to peel the endothelial membrane safely without risk of tearing.
4-240

*Tip only. Handles are sold separately.
Product design and/or features that do not influence its functionality and main parameters are subject to change
4 - FORCEPS

Cross-Action DMEK Forceps
Delicate tips to fit through 1.80 mm incision
Overall length 110 mm

Reversed tips are used to peel off the Descemet's membrane through 1.80 mm incision

4-251  Flat Titanium handle
4-262  Round Titanium handle
4-262S  Flat Stainless Steel handle

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
4-071T  Straight
4-072T  Curved

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

Adson
Fixation Forceps with Teeth
Ideal for plastic & reconstructive surgery
Overall length 124 mm
Stainless Steel or Titanium
4-0741S 1x2 teeth, 0.50 mm
4-0741T 1x2 teeth, 0.50 mm
4-0740T Serrated tip
4-0740S Serrated tip

Polack
Corneal Transplant Fixation Forceps
Two point fixation
Delicate 1x2 teeth
1.20 mm between the tips
Curved shafts
Pierce type tips
Round handle
Overall length 112 mm
Titanium
4-0814T

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

Castroviejo
Fixation Forceps
Straight shafts
1x2 teeth, 0.50 mm
Overall length 105 mm
Titanium
4-0822T

Lester
Fixation Forceps
Straight tips,
6 mm platforms
2x3 Teeth
Flat handle
Overall length 105 mm
Stainless Steel
4-0832S

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

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
Convex jaws, 5 mm
Cross-action
Overall length 102 mm
4-2113S Stainless Steel
4-2113T Titanium

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

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

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

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* 20 Ga

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* 18 Ga

*Tip only. Handles are sold separately.
Product design and/or features that do not influence its functionality and main parameters are subject to change.
**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 113 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 114 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

**Micro Foldable Lens Cutter**

Straight scissors

- Blades with notches, 19 Ga
- Curved shaft
- Compatible with Squeeze Handle 12-003T

4-2173*

*Tip only. Handles are sold separately.

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

ICL™ Cartridge Loading Forceps
Designed to remove the ICL from the container and push it inside the cartridge
Angled 30° 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* 20 Ga
ICL™ - registered trademark of STAAR®

Zaldivar-Kraff ICL Pacman Forceps
Atraumatic ridges and the gentle curve at the tips to grasp the ICL® without damage.
Straight shaft, angled tips
Compatible with Squeeze Handle 12-003T
4-21432*
A hole on the upper jaw for perfect visualization

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

Iris Forceps
Overall length 72 mm
Stainless Steel

JEWELER FORCEPS

Jeweler #5
Forceps
Straight jaws
Pointed tips
Tying platform 6 mm
Overall length 110 mm
Titanium
4-111T

Jeweler #3C
Forceps
Straight jaws
Pointed tips
Tying platform 6 mm
Overall length 110 mm
Titanium
4-113T

Jeweler #7
Forceps
Curved jaws
Pointed tips
Tying platform 6 mm
Overall length 110 mm
Stainless Steel and Titanium
4-115T
4-115S

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
Stainless Steel
- 16-090S Large Size, 55 mm
- 16-092S Small Size, 35 mm

MUSCLE FORCEPS

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

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

Paufique
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
Titanium or Stainless Steel

4-090T Tying Platforms, 4 mm, length 81 mm
4-091S Tying Platforms, 8 mm, length 84 mm

McPherson
Tying Forceps

Straight
Tying platforms, 4 mm
Overall length 84 mm
Standard handle
4-171T Titanium (shown)
4-171S Stainless Steel

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

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

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

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

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

TOWEL CLAMPS AND FORCES

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

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

*Tip only. Handles are sold separately.
Product design and/ or features that do not influence its functionality and main parameters are subject to change
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 diameter tip
Overall length 116 mm
5-0322

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

**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
5-043 Size 3
2.00 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

Rychwalski Muscle Hook
with groove
1.80 mm tip
12.20 mm hook
Overall length 140 mm
5-046

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
100 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
1.00/0.20 mm
Tapered Blade
Sterile, Box of 6
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 – 3.30 mm
6-20/6-076 – 3.60 mm
6-20/6-077 – 3.80 mm
6-20/6-078 – 4.00 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 – 2.00/2.50 mm
6-20/6-102 – 2.60/3.00 mm
6-20/6-103 – 2.60/3.00 mm
6-20/6-104 – 2.30/2.80 mm
6-20/6-105 – 2.30/2.80 mm
6-20/6-106 – 2.00/2.30 mm
6-20/6-107 – 2.00/2.30 mm

Profile of the incision directed to the Anterior Chamber

Knives for MICS

Knives for Micro Incision Cataract 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

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 from 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

**MOST POPULAR**

- 6-10/6SK-0501
  45° Double Edge Blade
  1.00 mm

**POPULAR**

- 6-10/6SK-053
  Trifaceted Blade
  1.00 mm

**MOST POPULAR**

- 6-10/6SK-070
  60° Double Edge Lancet Blade
  1.00 mm

Phaco Knives

**POPULAR MOST POPULAR**

- Clear Cornea Blades
  6-20/6SK-072 – 2.80 mm
  6-20/6SK-075 – 2.20 mm
  6-20/6SK-080 – 2.65 mm

**POPULAR**

- 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

- Facet-Free Crescent Blades
  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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
PRECHOPPERS
Cross-action Prechopper Forceps with an ergonomic round serrated squeeze-handle are made of high quality Stainless Steel.

Akahoshi
Hybrid Combo Prechopper
Prechopper
Cross-action
Ergonomic serrated squeeze-handle
Stainless Steel

7-111S
Angled
Max opening 2.80 mm
Overall length 117 mm

7-1161S
Combo
Straight
Max opening 2.80 mm
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
Overall length 121 mm

7-1163S
Akahoshi
Straight
Max opening 2.80 mm
Groove enables easy rotation of the nucleus during prechopping
Overall length 121 mm

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

Crozafon Prechopper
Provides easy releasing of entrapped gas bubbles for safer hydrodissection
Round handle
Overall length 118 mm
Stainless Steel
7-1167S

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

7-1166S
Yeooh
Straight
Max opening 2.00 mm
Blunt atraumatic tips for complete nucleus separation during femtosecond laser cataract procedure
Overall length 120 mm

7-11651S
Inamura
Straight
Microincisional
Max opening 1.80 mm
Overall length 121 mm

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.
Koch Nucleus Spatula
Curved
Duck Bill Tips with Notches
Round Handle
Overall length 124 mm
7-070

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.
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

Quick Chopper With Rounded Edge
Overall length 120 mm
7-128 RHD
7-1281 LHD

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

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

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

Capsule polishers

Anterior / Posterior
Capsule Polisher
135° angled shaft
Overall length 105 mm
7-101

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.

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

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

Thorton 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 tip
Titanium handle / Stainless Steel tip
Standard connector
Overall length 104 mm

MOST POPULAR

7-081 21 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.
Aspiration Handpiece For Bimanual Technique
Curved tube with smooth 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
7-0811

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

KALT NEEDLE HOLDERS

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

CASTROVIEJO NEEDLE HOLDER

Castroviejo
Needle Holder
Titanium
Flat Serrated Handle

8-092IT w/ lock
Straight delicate jaws, 13.50 mm
Overall length 125 mm

8-096T w/ o lock
Curved delicate jaws, 8 mm
Overall length 135 mm

8-100T w/ lock
Curved standard jaws, 11 mm
Overall length 140 mm

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

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

*Tip only. Handles are sold separately.
Product design and/or features that do not influence its functionality and main parameters are subject to change.
8 - 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

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

Barraquer Needle Holder
Titanium
Ergonomic round serrated handle

8-010T w/ lock
8-011T w/o lock
Curved standard jaws, 12 mm
Overall length 100 mm

8-013T w/o lock
Straight standard jaws, 12 mm
Overall length 100 mm

8-020T w/ lock
8-021T w/o lock
Curved fine jaws, 12 mm
Overall length 100 mm

8-024T w/ lock
8-025T w/o lock
Curved extra fine jaws, 8 mm
Overall length 100 mm

8-030T w/ lock
8-031T w/o lock
Curved standard jaws, 12 mm
Overall length 115 mm

8-040T w/ lock
8-041T w/o lock
Curved fine jaws, 12 mm
Overall length 115 mm

8-045T w/ o lock
Curved extra fine jaws, 8 mm
Overall length 115 mm

8-050T w/ lock
8-051T w/o lock
Curved extra fine jaws, 8 mm
Overall length 125 mm

8-060T w/ lock
8-061T w/o lock
Curved standard jaws, 12 mm
Overall length 125 mm

8-070T w/ lock
8-071T w/o lock
Curved fine jaws, 12 mm
Overall length 125 mm

8-090T w/ lock
8-091T w/o lock
Curved strong jaws, 12 mm
Overall length 125 mm

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

LA CRIMAL 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
4 mm × 8 mm four prongs tip
Round serrated handle
Overall length 140 mm
10-014 Blunt tip
10-114 Sharp tip

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

Schepens Orbital Retractor
Stainless Steel
10-030S

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
6 retractors in PTFE container
10-5127

Iris Retractor*
Disposable
10-5016-1 1 pack of 4 pcs (4 retractors)
10-5067-1 1 pack of 5 pcs (5 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

*Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SCISSORS

CORNEAL SCISSORS

Castroviejo
Corneal Scissors
Curved 11 mm blades
Overall length 100 mm
Blunt tips
11-010S Left
11-0101S Right

Castroviejo
Universal Corneal Scissors
7.50 mm blades
Overall length 102 mm
Blunt tips
11-011S
11 mm blades
Overall length 106 mm
Blunt tips
11-012S

Castroviejo
Universal Corneal Scissors
Curved 16 mm blades
Overall length 110 mm
Blunt tips
11-015S

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

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)

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

Castroviejo
Universal Corneal Scissors
Curved 11 mm blades
Overall length 100 mm
Blunt tips
11-024S Right
11-0241S Left

DALK
Corneal transplant scissors
Blades with blunt ledge (Descemet’s membrane protection) are 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.
Overall length 106 mm
11-038S Right
11-0381S Left

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

Holland Spatulated DALK Scissors
Vannas-style scissors with straight “micro blades” facilitating the dissection of stromal tissue
Rounded 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

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

*Tip only. Handles are sold separately.
Product design and/ or features that do not influence its functionality and main parameters are subject to change
Barraquer
Iris Scissors
8 mm blades
Blunt tips
Squeeze action handle
Overall length 54 mm
Stainless Steel
11-1223

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

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
Stainless Steel
Curved
Blunt tips

Westcott
Tenotomy Scissors
13 mm blades
Overall length 115 mm
11-040S

Westcott
Tenotomy Scissors
16 mm blades
Overall length 120 mm
11-042S

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)

Westcott
Tenotomy Scissors
15 mm blades
Overall length 116 mm
Right
11-048S

Shepard-Westcott
Tenotomy scissors
16 mm blades
Serrated upper blade (supercut)
Overall length 123 mm
Right
11-0481S

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

**Capsulotomy Scissors**
Sharp pointed tips
Stainless Steel

**Vannas**
Capsulotomy Scissors
Straight
Overall length 84 mm
6 mm blades
9 mm from pivot to tip
11-050S

**Vannas**
Capsulotomy Scissors
Curved
Overall length 84 mm
6 mm blades
9 mm from pivot to tip
11-052S

**Vannas**
Capsulotomy Scissors
Angled
Overall length 81 mm
6 mm blades
9 mm from pivot to tip
11-054S

**Gills-Vannas**
Capsulotomy Scissors
Straight
Overall length 88 mm
10 mm blades
13 mm from pivot to tip
11-056S

**Gills-Vannas**
Capsulotomy Scissors
Curved
Overall length 88 mm
10 mm blades
13 mm from pivot to tip
11-058S

**Gills-Vannas**
Capsulotomy Scissors
Angled
Overall length 84 mm
10 mm blades
13 mm from pivot to tip
11-0581S

**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
11-0501S

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

*Tip only. Handles are sold separately.
Product design and/ or features that do not influence its functionality and main parameters are subject to change.
13 - SPATULAS

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

Castroviejo
Cycloidalysis 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° 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° 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
13-139/1

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° angled shaft
- 11 mm from tip to angle
- 45° angled tip
- Overall length 125 mm
- Titanium
13-154T

Melles Style 2
DSAEK PLK Scraper
- 45° angled shaft
- 11 mm from tip to angle
- 90° 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.
13 - SPATULAS

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

John
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 of the rest of stromal attachments from the of Descemet’s membrane at the periphery
- Blunt bottom surface is safe for Descemet’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 Descemet’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 the edge of the epithelium flap
Overall length 130 mm
20-130

**LASEK**
Epithelial Micro Hoe
Can be used to detach and lift the 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 slightly forked tips to place the lens corners under the iris
Overall length 130 mm
13-142

**ICRS SPATULAS**

**Elevator for ICRS 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 mm 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

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

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

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

Child Lieberman Style
Temporal
«V» style open blades
14-082A Child

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

Lieberman Style
for LASIK
Rounded open blades
14-080LA Temporal

Lieberman Style
for LASIK
Rounded open blades
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 both for nasal and temporal approach

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

Kershner
Solid blades
Titanium
Overall length 70 mm
14-060T Adult, Round branches
14-0601T Adult, Flat branches

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

Temporal Speculum
Lieberman Style
Titanium

14-040T adult
«V» style open blades
Round branches
Overall length 71 mm

14-042T child
«V» style open blades
Round branches
Overall length 71 mm

14-040TK adult
Kratz style open blades
Round branches
Overall length 71 mm

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

14-0401TL adult
For LASIK
Rounded open blades
Round branches
Overall length 71 mm

14-0401TK adult
Kratz style open blades
Flat branches
Overall length 76 mm

Specially designed to accommodate microkeratome suction ring

14-0401TL adult
For LASIK
Rounded open blades
Flat branches
Overall length 76 mm

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

Nasal Speculum Lieberman Style
Titanium

14-041T adult
«V» Style open blades
Round branches
Overall length 76 mm

14-043T child
«V» Style open blades
Round branches
Overall length 76 mm

14-0411T adult
«V» Style open blades,
Flat branches
Overall length 76 mm

14-0431T child
«V» Style open blades
Flat branches
Overall length 76 mm

14-041TK adult
Kratz style open blades
Round branches
Overall length 76 mm

14-0411TL adult
For LASIK
Rounded open blades
Flat branches
Overall length 70 mm

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
REUSABLE ANTERIOR INSTRUMENTS

110

14 - SPECULUM

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)

Barraquer
Solid blades
Stainless Steel
14-0221S adult (14 mm blades)
14-0231 child (11 mm blades)
14-0241S newborn (5 mm blades)
14-0242S premature (4 mm blades)

Barraquer
Open blades
Stainless Steel
14-025S adult
14-026S child

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.
CANNULAS

ANESTHESIA CANNULAS
Used to deliver anesthetic agents inside the muscle cone or the posterior Sub-Tenon’s space.

Sub-Tenon’s Anesthesia Cannulas
Para Needle
Curved
0.30 mm side port
15-009  19 Ga × 25 mm

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

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

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

ANTERIOR CHAMBER CANNULAS
Used for maintaining and forming the anterior chamber by injecting or removing air, fluids, viscoelastics and intraocular medications.

Rycroft
Anterior Chamber Cannula
Angled 45°
4 mm bend length
15-051-23  23 Ga × 22 mm
15-051-25  25 Ga × 22 mm
15-051-27  27 Ga × 22 mm
15-051-30  30 Ga × 22 mm
6 mm bend length
15-052-27  27 Ga × 22 mm
8 mm bend length
15-053-27  27 Ga × 22 mm

Bishop Harmon
Anterior Chamber Cannula
8 mm bend length
Angled 40°
Spatulated
15-055-19  19 Ga × 25 mm

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

15 - CANNULAS

Bracken
Anterior Chamber Cannula
Curved 90°
Flattened bevel tip
15-057  19 Ga × 23 mm

McIntyre
Anterior Chamber Cannula
Angled
Smooth blunt tip
Front opening
15-061-26  26 Ga × 20 mm

Lewicky
Anterior Chamber Maintainer
Silicone tubing attached
Unique annular rings for self-retaining
15-065  20 Ga × 3.5 mm tip

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

Irrigating Cannulas
Straight
Blunt polished tip
15-049-23  23 Ga × 25 mm
15-049-30  30 Ga × 25 mm

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

IRRIGATING / ASPIRATING CANNULAS

Used for removing cortical debris or viscoelastic solution while maintaining the anterior chamber during cataract surgery.

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

Reverse
Aspiration through 0.30 / 0.40 mm port
Irrigation through tubing
15-133-0.3  23 / 23Ga
15-133-0.4  23 / 22Ga

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

Specifically designed to aid in phacoemulsification during the lens extraction phase. The loop is placed between the lens and the posterior chamber, ensuring an atraumatic lens removal.

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 × 35 mm

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

HYDRODISSECTION / HYDRODELINEATION CANNULAS

Designed for easy placement under the anterior capsule to deliver fluids to facilitate the separation of the cortex from the capsule.

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

Chang Nucleus Hydrodissector
Angled 90°
Flat tip for easy insertion under the capsular rim, provides the broad stream of fluid
Beveled tip used to rotate the nucleus
15-0681  27 Ga × 16 mm

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

Product design and/or features that do not influence its functionality and main parameters are subject to change.
CORTEX REMOVAL CANNULAS
Used to remove cortical material during phacoemulsification.

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

**Simcoe**  
Cortex Extractor Cannula  
Smooth closed tip  
15-091-13/23  23 Ga × 13 mm

CYSTOTOME CANNULAS
Used to perform capsulorhexis. Tip is designed for opening of anterior capsule.

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

CAPSULE POLISHERS
Specially designed for scrubbing all parts of the capsular bag. Tungsten carbide coating of the tip ensures the delicate and efficient capsule polishing.

**Microincisional**  
Capsule Polisher  
Disc-shaped sandblasted tip  
Curved tube for better visualization  
For a sub-2 mm incision  
15-170  23 Ga × 25 mm

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

**Jensen**  
Capsule Polisher  
Gently curved, olive-shaped sandblasted tip  
15-159-25  25 Ga × 28 mm  
15-159-27  27 Ga × 28 mm

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

Viscocanalostomy Cannula for Glaucoma surgery
5 mm beveled tip, slightly angled micro-gauge cannula for viscoelastic injection during Glaucoma Surgery
15-1051-30  30 Ga × 20 mm

REFRACTIVE CANNULAS

Vidaurri
LASIK Double Cannula
8 irrigating ports
Universal cannula simultaneously irrigates both sides of the flap, washes the stromal bed and enables the flap positioning
15-371-25  16 Ga × 12 mm Shaft

Buratto
LASIK Irrigation Cannula
45° angled triport
15-379-25  25 Ga × 32 mm

Slade
LASIK Cannula
Flattened spatulated tip
15-376  26 Ga × 25 mm

Banaji
LASIK Irrigation Cannula
4 Ports 0.25 mm on periphery Curved
15-373-25  25 Ga × 22 mm

Cannula for DALK procedure
Bottom port 0.20 mm
Designed for air injection in order to achieve an ideal “Big Bubble”
15-450-27  27 Ga × 38 mm

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

LACRIMAL CANNULAS

For surgical treatment, repair and irrigation of the nasolacrimal system.

Malleable
Lacrimal Cannulas
Reinforced
20G shaft having reinforced 12mm 23G cannula
15-027 23 Ga × 32 mm, Straight
15-029 23 Ga × 32 mm, Curved
(shown)

Bailey
Lacrimal Cannula
Exposed tip, straight
For infants short 20G Straight Shaft having 7mm exposed tip of 23G
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 Cannulas
Special long mount blunt tip
Straight
15-035-23S 23 Ga × 20 mm
15-035-25S 25 Ga × 20 mm

Anel
Lacrimal Cannulas
Special long mount blunt tip
Curved
15-035-23C 23 Ga × 20 mm
15-035-25C 25 Ga × 20 mm

ACCESSORIES

Designed to be attached to a cannula for irrigation and / or aspiration during ophthalmic surgeries.

Silicone Bulb With Adapter
15-301/303

Titanium Microsurgical Handle
Male-Male (shown) 15-307T
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 5.00 mm disk-shaped diamond burr

Diamond Burr Brush
Replacement burrs with chucks for Alger Brush
Burr only
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

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
Low temperature
16-041 adjustable fine tip
16-042 elongated fine 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
16-034IT 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
16-253
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

IOL Injector for cartridges
16-2806* For A, B, C cartridges
16-2808* 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
With ring
For A, B, C, D cartridges
Can be supplied with 4-2141T IOL Loading

*Not for sale in USA, Japan, Germany, Switzerland
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 & RONGEURS

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

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

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 × 0.60 mm deep bite
Compatible with Squeeze Handle 12-003T
Tip only
16-0111*

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

SCLERAL DEPRESSORS

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

Schocket 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

*Tip only. Handles are sold separately.
Product design and/ or features that do not influence its functionality and main parameters are subject to change.
SURGICAL MALLETS & CHISELS

Surgical Chisel
3 mm
Stainless Steel
16-137

Surgical Mallet
Polished finish
Stainless Steel
16-135

NASAL SPECULUMS

Nazal 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.
### 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).

### Size Chart

<table>
<thead>
<tr>
<th>Reference</th>
<th>Insert Type</th>
<th>Dimensions (LxWxH)</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-300</td>
<td>1 special silicone plug-in insert</td>
<td>190x101x38</td>
<td>B medium</td>
</tr>
<tr>
<td>18-300-1</td>
<td>silicone finger tip mat</td>
<td>190x101x38</td>
<td>B medium</td>
</tr>
<tr>
<td>18-301</td>
<td>silicone finger tip mat</td>
<td>152x63.5x19</td>
<td>E small</td>
</tr>
<tr>
<td>18-301-1</td>
<td>2 special silicone plug-in inserts</td>
<td>152x63.5x19</td>
<td>E small</td>
</tr>
<tr>
<td>18-302</td>
<td>silicone finger tip mat</td>
<td>165x101x19</td>
<td>C square</td>
</tr>
<tr>
<td>18-303</td>
<td>silicone finger tip mat</td>
<td>190x101x19</td>
<td>B medium</td>
</tr>
<tr>
<td>18-303-1</td>
<td>no inserts</td>
<td>190x101x19</td>
<td>B medium</td>
</tr>
<tr>
<td>18-304</td>
<td>silicone finger tip mat</td>
<td>254x152x19</td>
<td>A extralarge, 2 levels base and insert tray</td>
</tr>
<tr>
<td>18-305</td>
<td>silicone finger tip mat</td>
<td>254x152.4x38</td>
<td>A extralarge</td>
</tr>
<tr>
<td>18-305-1</td>
<td>3 special silicone plug-in inserts</td>
<td>254x152.4x38</td>
<td>A extralarge</td>
</tr>
<tr>
<td>18-307</td>
<td>silicone finger tip mat</td>
<td>68.6x25.4x38</td>
<td>F very small</td>
</tr>
<tr>
<td>18-308</td>
<td>silicone finger tip mat</td>
<td>190.5x63.5x19</td>
<td>D long</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
no inserts
190×101×19 mm
7.50×4.00×0.75 in
18-303-1  B medium

Tray
with silicone finger tip mat
152×63.50×19 mm
6.00×2.50×1.50 in
18-301  E small

Tray
with 2 special silicone plug-in inserts
152×63.50×19 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

Sterilization Tray
with silicone finger tip mat
190×101×38 mm
7.50×4.00×1.50 in
18-300-1  B medium

Product design and/or features that do not influence its functionality and main parameters are subject to change.
TRAY WITH SILICONE FINISH MAT

254×152×19 mm
10.00×6.00×0.75 in
18-304 A extra large

TWO LEVELS TRAY
WITH SILICONE FINISH MAT

Two levels base and insert tray
254×152.40×38 mm
10.00×6.00×1.50 in
18-305 A extra large

TRAY FOR 3 PHACO HANDPIECES
WITH SPECIAL SILICONE PLUG-IN INSERTS

254×152.40×38 mm
10.00×6.00×1.50 in
18-305-1 A extra large

TRAY FOR VITREORETINAL/
MICROINCISIONAL TIPS
WITH SILICONE FINISH MAT

69.60×38×25.40 mm
3.00×1.50×1.00 in
18-307 F very small

TRAY WITH SILICONE FINISH MAT

190.50×63.50×19 mm
7.50×2.50×0.75 in
18-308 D long

STAINLESS STEEL TRAYS

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

*Other sizes are available upon request
Product design and/or features that do not influence its functionality and main parameters are subject to change
**LASEK/ LASIK INSTRUMENTS**

**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

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

Stodulka
ReLEx 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
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

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
20-050

Product design and/or features that do not influence its functionality and main parameters are subject to change.
<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOST POPULAR</strong></td>
<td>Best-selling item</td>
</tr>
<tr>
<td><strong>POPULAR</strong></td>
<td>SKU preferred by the majority of customers</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td>Recently introduced into the product range of RUMEX International Co.</td>
</tr>
<tr>
<td><strong>Disposable instruments</strong></td>
<td>Available in a single-use edition</td>
</tr>
<tr>
<td><strong>Featured instrument in the set on page 100</strong></td>
<td>Don’t forget to buy</td>
</tr>
<tr>
<td><strong>Quantity in the box</strong></td>
<td>Don’t forget to buy</td>
</tr>
</tbody>
</table>

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

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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.
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>
</tr>
</thead>
<tbody>
<tr>
<td>19 Ga</td>
<td>0.043</td>
<td>1.10</td>
</tr>
<tr>
<td>20 Ga</td>
<td>0.036</td>
<td>0.90</td>
</tr>
<tr>
<td>21 Ga</td>
<td>0.032</td>
<td>0.80</td>
</tr>
<tr>
<td>22 Ga</td>
<td>0.028</td>
<td>0.70</td>
</tr>
<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: 12-000T
- 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.

*Handles are sold separately! **Colors of details may differ slightly from those displayed in this catalog. Product design and/or features that do not influence its functionality and main parameters are subject to change.
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

Safe and easy adjustable mechanism

Adjustable screw mechanism (to customize the opening of branches before manipulation)

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

Designed for cutting membranes and junction zones of the proliferative tissue

**MOST POPULAR**

Vertical Scissors
- 70°
- Sharp tips
  - 12-202 20 Ga
  - 12-202-23 23 Ga

Klaus Lucke
Retinotomy Scissors
- With bulbous tip
  - 12-2020 20 Ga

**POPULAR**

Vertical Scissors
- 45°
  - 12-2029 25 Ga

**MOST POPULAR**

Horizontal Scissors
- 55°
  - 12-206 20 Ga

Curved Subretinal Scissors
- Curvature radius 12 mm
  - 12-209 20 Ga
  - 12-209-23 23 Ga
  - 12-2099 25 Ga

**COMPATIBLE WITH 12-003T ONLY**

Horizontal Scissors
- Angled
  - 45°
  - Short blades (1.70 mm in the closed position)
    - 12-2085 20 Ga

Straight Scissors
- Blunt tips
  - 12-211 20 Ga

Horizontal Scissors
- Angled
  - 45°
  - With illumination
    - 12-2084 20 Ga

Side Curved Scissors
- 12-215 20 Ga

*Tip only. Handles are sold separately. 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

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.

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

- Strengthened jaws for the removal of epiretinal membranes
- Gripping function is enhanced by diamonized / serrated platform or nail shaped jaws

**Gripping Forceps**
With a diamond dusted platform
12-301  20 Ga
12-301-23  23 Ga
12-3019  25 Ga

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

**End-Gripping Forceps**
With serrated micro jaws
12-400  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.

*Tip only. Handles are sold separately.
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.

**PICK / SUBRETINAL FORCEPS**

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

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

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

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

**FOREIGN BODY REMOVAL FORCEPS**

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

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

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

*Tip only. Handles are sold separately.
** 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
- 13-097-27: 27 Ga

**Ogura PVD Spatula**
- 13-1081-23: 23 Ga

**Membrane Scratcher**
- 13-092: 20 Ga

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

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
  12-410-23 23 Ga

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

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

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

### ERM

**MOST POPULAR**
- Gripping Forceps
  - With a diamond dusted platform
  12-301-23 23 Ga

**MOST POPULAR**
- Vertical Scissors
  - 70°
  - Sharp tips
  12-202-23 23 Ga

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

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

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

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

**MOST POPULAR**
- Curved Subretinal Scissors
  12-325-23D 23 Ga

**MOST POPULAR**
- Spring Gripping Forceps
  12-304-23 23 Ga

**MOST POPULAR**
- Gripping Forceps
  With a “crocodile” platform
  12-304-23 23 Ga

**MOST POPULAR**
- Spring Gripping Forceps
  12-301-23D 23 Ga

**MOST POPULAR**
- Curved Subretinal Scissors
  12-209-23D 23 Ga

**POPULAR**
- End-Gripping Forceps
  - With nail shaped jaws
  12-402-23 23 Ga

---

*Tip only. Handles are sold separately.*

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

**ILM**

**MOST POPULAR**

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

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

**ERM**

**POPULAR**

- Gripping Forceps
  - With a diamond dusted platform
  - 12-3019
  - 25 Ga

- Vertical Scissors
  - 45°
  - Sharp tips
  - 12-2029
  - 25 Ga

**MOST POPULAR**

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

**27 GAUGE INSTRUMENTS**

**ILM**

**NEW**

- Eckardt End-Gripping Forceps
  - 12-410-27
  - 27 Ga

**ERM**

**MOST POPULAR**

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

- Pick Forceps
  - 12-3259
  - 25 Ga

- End-Gripping Forceps
  - With nail shaped jaws
  - 12-4089
  - 25 Ga

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

**MOST POPULAR**

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

**ILM**

**MOST POPULAR**

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

**ERM**

**MOST POPULAR**

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

**ERM**

**MOST POPULAR**

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

**ERM**

**MOST POPULAR**

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

**ERM**

**MOST POPULAR**

Disposable Pick Forceps
12-325-23D  23 Ga
12-325-25D  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.
**REUSABLE TWO STEP TROCAR SYSTEMS**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Gauge</th>
<th>Notes</th>
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<tbody>
<tr>
<td>12-5173-23</td>
<td>23 Ga</td>
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<tr>
<td>12-5173-25</td>
<td>25 Ga</td>
<td>POPULAR</td>
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</tbody>
</table>

**MOST POPULAR**

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  POPULAR

MVR Knives

Multifacet Blade, sterile

- Straight  MOST POPULAR
  - 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

Replacement Cannula Kit

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

12-5189  23 Ga – 1 set per box

**POPULAR**

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.
Disposable Trocar Systems with closure valves

Package includes:
- Trocar knife with preloaded trocar cannula – 3 pcs
- Self-sealing trocar cannula (preloaded) – 3 pcs
- Universal infusion line – 1 pc

12-5229  23 Ga  POPULAR
12-5244  25 Ga

Trocar Knife
with preloaded cannulas

Trocar Cannulas
with self-sealing silicone valves
(no plugs required)

Trocar Cannula Inserter
the proximal end of the plastic handle
(opposite to the knife) can be used as a caliper
(2 dimensions, 3.00 and 4.00 mm) and a scleral marker

Universal Infusion Line for BSS

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

Used with the backflush cannulas.

- **MOST POPULAR**
  - Reusable Backflush Handle, Titanium
    - Active Aspiration
    - 12-6000

- **MOST POPULAR**
  - Reusable Backflush Handle, Titanium
    - Passive Aspiration
    - 12-6010

- Disposable Backflush Handle*
  - Passive Aspiration
  - Disposable, Sterile
  - 12-5197

- Replacement Reservoir for Backflush Handle*
  - Passive Aspiration
  - Disposable, Sterile
  - 12-5147

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

Disposable Cannulas For Backflush Instruments*

Designed for efficient and safe manipulations in the posterior segment. Used with the backflush handle.

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 x 33 mm
12-5492  27 Ga x 33 mm

Soft Tip Cannulas
Flexible silicone tip allows atraumatic entry through retinal or macular tears or holes and enables aspiration of subretinal fluid.
Disposable, 5 per box
12-5161  23 Ga x 33 mm
12-5152  25 Ga x 33 mm

Brush Tip Cannulas
The soft silicone brush tip cannula designed for atraumatic brushing of retina.
Disposable, 5 per box
12-5162  23 Ga x 33 mm
12-5160  25 Ga x 33 mm

Brush Tip Cannulas
Flexible silicone brush tip designed for atraumatic brushing of retina.
Disposable, 5 per box
12-5162  23 Ga x 33 mm
12-5160  25 Ga x 33 mm

DUAL BORE CANNULAS*

Dual Bore PFC Cannula
Simultaneous infusion of heavy liquids and aspiration of intraocular fluids.
Disposable
12-5203  23 Ga x 32 mm

INJECTION CANNULA

Reusable Silicone Oil Infusion Cannula
Self-Retaining Hub of 6.00 mm
12-026  20 Ga

BACKFLUSH HANDLES

Titanium Backflush Handles
Reusable
12-6010 Passive Aspiration

Disposable Backflush Handle
Disposable
12-5197* Passive Aspiration

*not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
ULTRA PURIFIED SILICONE OIL SMARTSIL 1000/5000

For Vitreoretinal Surgery SmartSil 1000/5000 is used for prolonged tamponade after surgical treatment for severe retinal detachment.

- 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

SmartSil 1000 1000 cSt
SmartSil 5000 5000 cSt

Physicochemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Interfacial tension at 37°C</td>
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<tr>
<td>Density</td>
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<tr>
<td>Viscosity</td>
<td>1000 cSt / 5000 cSt</td>
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<tr>
<td>Refractive index</td>
<td>1.404</td>
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<tr>
<td>Volatility</td>
<td>0.06%</td>
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<td>Polydispersity</td>
<td>2.33</td>
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<tr>
<td>Elements potentially toxic</td>
<td>&lt; 3 ppm</td>
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<tr>
<td>Low molecular weights</td>
<td>D4–D9: &lt; 24 ppm  D10–D20: 4 ≤ ppm</td>
</tr>
</tbody>
</table>

*Not available in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change
## SILICONE OIL INFUSION SYSTEMS

### Surgical System

- **Reusable**
  - Ioltech® Pentasys™
  - Optikon® Antares™
  - Alcon® STTO™
  - Storz® Premiere™
  - DORC® Harmony Budget™
  - DORC® Associate™
  - Alcon® Constellation™
  - Accurus™
  - B&L® Millenium™
  - Stellaris™
  - Oerlii® Orbit™, Faros™, OS3™, Optikon®, R-Evolution™
  - 12-RTUB-1
  - 12-RTUB-2
  - 12-RTUB-3
  - 12-RTUB-4

### Surgical System

- **Disposable**
  - Ioltech® Pentasys™
  - Optikon® Antares™
  - Alcon® STTO™
  - Storz® Premiere™
  - DORC® Harmony Budget™
  - DORC® Associate™
  - Alcon® Constellation™
  - Accurus™
  - B&L® Millenium™
  - Stellaris™
  - Oerlii® Orbit™, Faros™, OS3™, Optikon®, R-Evolution™
  - 12-DTUB-1
  - 12-DTUB-2
  - 12-DTUB-3
  - 12-DTUB-4

### Viscous Fluid Injection Cannula

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

- Disposable, 5 per box
- 12-5248* 23 Ga x 10 mm

---

*Not for sale in Europe

Product design and/or features that do not influence its functionality and main parameters are subject to change.
| MOST POPULAR | Best-selling item |
| POPULAR | SKU preferred by the majority of customers |
| NEW | Recently introduced into the product range of RUMEX International Co. |
| Disposable instruments | |
| Available in a single-use edition | |
| Featured instrument in the set on page 100 | |
| DON'T FORGET TO BUY | Frequently bought together |
| Quantity in the box | |
### FEATURED SETS

<table>
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<tr>
<td>Refractive Surgery</td>
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<tr>
<td>Corneal Surgery</td>
<td>158</td>
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<td>Glaucoma Surgery</td>
<td>161</td>
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<tr>
<td>Pterygium Surgery</td>
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<td>Lid Surgery</td>
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<td>Oculoplastic Surgery</td>
<td>166</td>
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<tr>
<td>Vitreoretinal Surgery</td>
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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.
### EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET

<table>
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<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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<tr>
<td>3-040T</td>
<td>2</td>
<td>Whipple Capsulorhexis Centration Marker</td>
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<tr>
<td>4-0335ST</td>
<td>3</td>
<td>Utrata Capsulorhexis Forceps with Ruler</td>
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<td>4-050T</td>
<td>4</td>
<td>Colibri Corneal Forceps, 0.12 mm 1-2 Teeth</td>
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<tr>
<td>4-0600T</td>
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<td>Castroviejo Suturing Forceps, 0.12 mm 1×2 Teeth</td>
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<td>4-120S</td>
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<td>Holtman Mosquito Forceps, Straight</td>
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<tr>
<td>4-174T</td>
<td>7</td>
<td>McPherson Angled Tying Forceps</td>
<td>67</td>
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<tr>
<td>4-185ST</td>
<td>8</td>
<td>Tennant Straight Tying Forceps</td>
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<td>4-186S</td>
<td>9</td>
<td>Tennant Curved Tying Forceps</td>
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<td>4-2113T</td>
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<td>McDonald Style Inserting Forceps</td>
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<td>4-2141T</td>
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<td>Cartridge Loading Forceps</td>
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<td>4-2301T</td>
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<td>Fechtner Conjunctiva Forceps</td>
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<td>Kuglen Hook</td>
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<td>Lester Lens Manipulator</td>
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<td>5-034</td>
<td>16</td>
<td>Bechet Nucleus Rotator</td>
<td>70</td>
</tr>
<tr>
<td>6-10/6-053</td>
<td>17</td>
<td>Diamond Knife, Trifacet Blade, 100 mm</td>
<td>72</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

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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<td>Kawai Capsulorhexis Forceps, Tapered 23/25Ga shaft</td>
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<td>12-003T</td>
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<td>Universal Squeeze Handle</td>
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<td>Side Port Capsulotomy Scissors, Right, 20 Ga</td>
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<td>4-0501T</td>
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<td>Colibri Corneal Forceps, 0.12 mm x 2 Teeth</td>
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<td>Westcott Stitch Scissors</td>
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<td>Castroviejo Suturing Forceps, 0.12 mm x 2 Teeth</td>
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<td>Lieberman Temporal Speculum With Aspiration</td>
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<tr>
<td>4-174T</td>
<td>4</td>
<td>McPherson Angled Tying Forceps</td>
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<td>Chang Nucleus Hydrodissector, 27 Ga</td>
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<td>5-032</td>
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<td>Sinskey Hook</td>
<td>15-170</td>
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<td>Micromanipulator Capsule Polishing Cannula, Disc-shaped Tip, 23 Ga</td>
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<td>5-034</td>
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<td>Bechert Nucleus Rotator</td>
<td>15-129-0.3</td>
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<td>Side Port I/A Cannula, 23/23 Ga</td>
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<td>6-10/6-053</td>
<td>7</td>
<td>Diamond Knife, Trifaceted Blade, 1.00 mm</td>
<td>15-301/303</td>
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<td>Silicone Bulb With Adapter</td>
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<td>Diamond Knife, Self-Diving Trapeziod Blade, 1.80/2.00 mm</td>
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<td>9</td>
<td>Sterilizing Tray, Large</td>
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<td>7-0637/0647</td>
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<td>Nagahara Phaco Chopper RHD (UHD)**</td>
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<td>10</td>
<td>Iridotomy Handpiece For Bimanual Technique, 21 Ga</td>
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<td>Nagahara Phaco Chopper RHD (UHD)**</td>
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<td>Aspiration Handpiece For Bimanual Technique, 22 Ga</td>
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Product design and/or features that do not influence its functionality and main parameters are subject to change.
**LASIK SET**

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<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>3-174T</td>
<td>1</td>
<td>Lavery LASIK Marker</td>
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<td>4-2206T</td>
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<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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<td>14-080LA</td>
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<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, 25 Ga</td>
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<td>15-376</td>
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<td>Slade LASIK Cannula, 26 Ga</td>
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**LASEK SET**

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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>
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<td>LASEK Knife</td>
<td>103, 125</td>
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<td>20-121</td>
<td>3</td>
<td>LASEK 9.00 mm Trephine / 8.50 mm Funnel</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.
## FEMTOLASIK SET

<table>
<thead>
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<td>LASIK Flap Marker</td>
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<td>LASIK Flap Forceps, Curved, Titanium</td>
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<td>14-040TL</td>
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<td>Lieberman Temporal Speculum for LASIK</td>
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<td>14-080LA</td>
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<td>Lieberman Temporal Speculum with Aspiration for LASIK</td>
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<td>15-379-25</td>
<td>5</td>
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## LRI SET

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<tbody>
<tr>
<td>2-0331T</td>
<td>1</td>
<td>Grooved Mendez Degree Bores Axis Marker</td>
<td>41</td>
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<td>3-050T</td>
<td>2</td>
<td>Whitehouse Gravity Axis Marker II, Straight Universal Three-Step Diamond Knife for Cataract and LRI Surgery</td>
<td>42</td>
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<tr>
<td>3-1932</td>
<td>3</td>
<td>Whitehouse Gravity Axis Marker II, Straight Universal Three-Step Diamond Knife for Cataract and LRI Surgery</td>
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<tr>
<td>6-322/6-0531</td>
<td>4</td>
<td>Universal Three-Step Diamond Knife for Cataract and LRI Surgery</td>
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</table>

* optional set

*optional set

Product design and/or features that do not influence its functionality and main parameters are subject to change.
Ref 2-0347  1 Grooved Fine Mendez Degree  41
Ref 3-091T  2 Bores Axis Marker  42
Ref 3-193  3 Whitehouse Gravity Axis Marker, Angled  46
Ref 15-170  4 Micronincisional Capsule Polisher Cannula, Disc-shaped Tip, 23 Ga  194
Ref 20-050  5 Disposable Marking Pen  46, 127

* optional set

Ref 1  RUMEX Toric Combo Marker, Vertical 0-0 Axis (Horizontal 0-0 Axis)  46
Ref 2  Micronincisional Capsule Polishing Cannula, Disc-shaped Tip, 23 Ga  114
Ref 3  Disposable Marking Pen  46, 127
Ref 4  Diamond Knife, Self-Diving Trapezoid Blade, 1.00 mm  72
Ref 5  Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm  73

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

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<tr>
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<td>Mendez Degree Gauge</td>
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<td>3-034</td>
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<td>Optical Zone Marker</td>
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<td>3-433T</td>
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<td>Tunnel Zone Marker</td>
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<td>4-08011T</td>
<td>4</td>
<td>Nevivas-Wattle Fixation Forceps</td>
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<td>4-2144T</td>
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<td>Forceps for ICRS Implant</td>
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<td>10-035</td>
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<td>Elevator for ICRS implantation</td>
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<td>13-146</td>
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LID SURGERY

**LID SURGERY SET**

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**Reference Key**

- 1-010T: Kalt Needle Holder
- 1-010T: Knapp Lacrimal Sac Retractor
- 1-0601T: Bishop-Harmon AC Cannula
- 1-0607S: Silicone Bulb With Adapter
- 1-072T: Desmarres Lid Retractor, Size 0
- 1-090T: Desmarres Lid Retractor, Size 1
- 1-020S: Desmarres Lid Retractor, Size 2
- 1-021S: Stevens Tenotomy Scissors, Sharp Tips
- 1-022S: Stevens Tenotomy Scissors, Straight
- 1-023S: Westcott Tenotomy Scissors, Blunt Tips
- 1-024S: Westcott Stitch Scissors, Sharp Pets
- 1-025S: Westcott Stitch Scissors, Straight
- 1-026S: Plastic Sterilizing Tray, Double Level, Large

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CHALAZION SET

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## SET OF VITREORETINAL INSTRUMENTS, 20 GAUGE

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**DON'T FORGET TO BUY**

Two racks tray with silicone finger tip mat

Two levels base and insert tray

254×152.40×38 mm
10.00×6.00×1.50 in

18-305 extra large

Product design and/or features that do not influence its functionality and main parameters are subject to change.
SET OF VITREORETINAL INSTRUMENTS, 23 GAUGE

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DON’T FORGET TO BUY

Two racks tray with silicone finger tip mat
Two levels base and insert tray
254×152.40×38 mm
10.00×6.00×1.50 in
18-305 extra large

Product design and/or features that do not influence its functionality and main parameters are subject to change.
## SET OF VITREORETINAL INSTRUMENTS, 25 GAUGE

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<td>Purified Silicone Oil for Retinal Endotamponade, 1000 cSt</td>
<td>19, 146</td>
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</tbody>
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**DON’T FORGET TO BUY**

Two racks tray with silicone finger tip mat

Two levels base and insert tray
254×152.40×38 mm
10.00×6.00×1.50 in

18-305 extra large

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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). Immersing 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>
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<th>Drying Cycle</th>
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<td>Steam</td>
<td>Gravity Displacement</td>
<td>Wrapped</td>
<td>+132°C (+270°F)</td>
<td>30 min</td>
<td>30 min</td>
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<td>Flash Process</td>
<td>Gravity Displacement</td>
<td>Unwrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
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<td>Wrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
<td>30 min</td>
</tr>
<tr>
<td>Flash Process</td>
<td>Prevacuum</td>
<td>Unwrapped</td>
<td>+132°C (+270°F)</td>
<td>4 min</td>
<td>15 min</td>
</tr>
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</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 thermostable 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:

<table>
<thead>
<tr>
<th></th>
<th>100% ETO cycles</th>
<th>Steam Autoclaving</th>
<th>“Flash” Autoclaving</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration ETO</strong></td>
<td>850±50mg/l</td>
<td>Gravity Displacement</td>
<td>Gravity Displacement</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>37 °C – 47 °C</td>
<td>Prevacuum</td>
<td>Prevacuum</td>
</tr>
<tr>
<td><strong>Exposure time</strong></td>
<td>3–4 hours</td>
<td>3–4 hours</td>
<td>3 minutes</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>70% RH minimum</td>
<td>1 hour</td>
<td>15 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 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 of the instrument.
• only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in the cleaning process. The cleaning guidelines of the solution manufacturer and your institution should be observed.
• use a mild soap solution and with a soft brush to clean the instrument and remove any stains. Never use abrasive powders or steel wool to remove stubborn stains – these can damage the superfine finish of an instrument and can actually help cause corrosion of stainless instruments.
• use distilled or demineralized water to rinse instruments thoroughly, and then carefully dry them with a hot air blower or 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>37°C–47°C</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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<tr>
<td>Drying Cycle</td>
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STEAM AUTOCLAVING

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<td>Gravity Displacement Prevacuum</td>
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<tr>
<td>Sample Config.</td>
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<tr>
<td>Temperature</td>
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<tr>
<td>Exposure time</td>
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<td>Drying Cycle</td>
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FLASH AUTOCLAVING

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<tr>
<td>Temperature</td>
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</tr>
<tr>
<td>Exposure time</td>
<td>132°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>3 minutes</td>
</tr>
<tr>
<td>Drying Cycle</td>
<td>15 min</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 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>
</tr>
<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>
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<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 Relining Incisions</td>
</tr>
<tr>
<td>MICS</td>
<td>Micro Incision Coaxial Surgery</td>
</tr>
<tr>
<td>MVR (knife)</td>
<td>Micro-vitreoretinal</td>
</tr>
<tr>
<td>OD</td>
<td>Outer Diameter</td>
</tr>
<tr>
<td>OVD</td>
<td>Ophthalmic Viscosurgical Device</td>
</tr>
<tr>
<td>PFC</td>
<td>Perfluorocarbon</td>
</tr>
<tr>
<td>PRK</td>
<td>Photorefractive Keratectomy</td>
</tr>
<tr>
<td>PVD</td>
<td>Posterior Vitreous Detachment</td>
</tr>
<tr>
<td>ReLEx SMILE</td>
<td>Refractive Lenticule Extraction SMal Incision Lenticule Extraction</td>
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<tr>
<td>RHD</td>
<td>Right Handed Doctor</td>
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<tr>
<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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# INDEX

## A

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<tbody>
<tr>
<td>4-2132T</td>
<td>Acrylic Lens Insertion Forceps, Flat Handle, Ti</td>
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<tr>
<td>2-064T</td>
<td>Adler Wound Gauge, 2.00-2.50 mm Ranges, Ti</td>
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<tr>
<td>2-065T</td>
<td>Adler Wound Gauge, 2.60-3.00 mm Ranges, Ti</td>
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<tr>
<td>4-0740S</td>
<td>Dressing Forceps, Flat Handle, STSS</td>
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<td>4-0740T</td>
<td>Dressing Forceps, Flat Handle, Ti</td>
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<tr>
<td>4-0741S</td>
<td>Fixation Forceps, 0.50 mm 1x2 Teeth, Length 124 mm, STSS</td>
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<tr>
<td>4-0741T</td>
<td>Fixation Forceps, 0.50 mm 1x2 Teeth, Length 124 mm, Ti</td>
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<td>4-2138T</td>
<td>Akahoshi Forceps For Acrylic Lens, Ti</td>
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<tr>
<td>7-1163S</td>
<td>Akahoshi Hybrid Combo Prechopper, Cross-action, Max op 2.80 mm</td>
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### Alger Brush

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<tr>
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<tbody>
<tr>
<td>16-051-2.5</td>
<td>Power handle W/ 2.50 mm Round Diamond Dusted Burr</td>
<td>117</td>
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<tr>
<td>16-050-3.5</td>
<td>Power handle W/ 3.50 mm Round Medium Diamond Dusted Burr</td>
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<tr>
<td>16-050-5.0</td>
<td>Power handle W/ 5.00 mm Disk Shaped Diamond Dusted Burr</td>
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<tr>
<td>16-141</td>
<td>Power handle W/ 0.50 mm tungsten Burr</td>
<td>117</td>
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<tr>
<td>16-140</td>
<td>Power handle W/ 1.00 mm tungsten Burr</td>
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### Replacement Burr

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<tbody>
<tr>
<td>16-143B</td>
<td>Tungsten, 0.50 mm Diameter</td>
<td>117</td>
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<tr>
<td>16-142B</td>
<td>Tungsten, 1.00 mm Diameter</td>
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</tr>
<tr>
<td>16-051-2.5B</td>
<td>Diamond Dusted, Round, 2.50 mm Diameter</td>
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<td>16-051-3.5B</td>
<td>Diamond Dusted, Round, 3.50 mm Diameter</td>
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<tr>
<td>16-052-5.0B</td>
<td>Diamond Dusted, Disk Shaped, 5.00 mm Diameter</td>
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### Anel Lacrimal Cannula

<table>
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<tbody>
<tr>
<td>15-035-23C</td>
<td>Curved, 23 Ga, special long mount blunt tip</td>
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<tr>
<td>15-035-25C</td>
<td>Curved, 25 Ga, special long mount blunt tip</td>
<td>116</td>
</tr>
<tr>
<td>15-035-23S</td>
<td>Straight, 23 Ga, special long mount blunt tip</td>
<td>116</td>
</tr>
<tr>
<td>15-035-25S</td>
<td>Straight, 25 Ga, special long mount blunt tip</td>
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### Anterior Chamber Cannula (Rycroft)

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<th>Code</th>
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<tbody>
<tr>
<td>21-R2023</td>
<td>23 Ga x22 mm, 4 mm bend length, 10 per box</td>
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<tr>
<td>21-R2025</td>
<td>25 Ga x7 x22 mm, 4 mm bend length, 10 per box</td>
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</tr>
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<td>21-R2030</td>
<td>30 Ga x22 mm, 4 mm bend length, 10 per box</td>
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<tr>
<td>21-R2027-8</td>
<td>27 Ga x22 mm, 8 mm bend length, 10 per box</td>
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<tr>
<td>21-R2520</td>
<td>Anterior Chamber Maintainer (Lewicky) 20 Ga, 15.2 cm tubing</td>
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<td>7-101</td>
<td>Anterior/Posterior Capsule Polisher, Angled, Length 105 mm</td>
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### AquaFree Hydrophobic IOLs

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<tr>
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<td>12, 14</td>
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### Aspiration Handpiece For Bimanual Technique, Curved

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<th>Code</th>
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<tbody>
<tr>
<td>7-082</td>
<td>21 Ga, One Top Port 0.35 mm</td>
<td>84</td>
</tr>
<tr>
<td>7-0821</td>
<td>22 Ga, One Top Port 0.35 mm</td>
<td>84</td>
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<tr>
<td>7-0821-23</td>
<td>23 Ga, One Top Port 0.35 mm</td>
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</tr>
<tr>
<td>7-0826</td>
<td>23 Ga, 1x0.30 mm port, Length mm</td>
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<tr>
<td>15-001-23</td>
<td>Atkinson Retinobular Needle, 23 Ga x38 mm</td>
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<tr>
<td>12-412</td>
<td>Avci Foreign Body Forceps, 17 Ga, Tip only</td>
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<td>7-135</td>
<td>Axe Quick Chopper, Angled, 10 mm from Band to Tip</td>
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## B

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<tr>
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<td>Banaji LASIK Irrigation Cannula, 4 Ports, Curved, 25 Ga</td>
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<td>Bard Parker Handle, Flat Handle, Length 130 mm, STSS</td>
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<td>12-5197</td>
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<td>12-6000</td>
<td>Active Aspiration, Ti, 1 piece</td>
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<td>12-6010</td>
<td>Passive Aspiration, 1 piece</td>
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<tr>
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<td>Barraquer Eye Speculum, Fenestrated Round Open Blades, Adult Size</td>
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</tr>
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Barraquer Needle Holder

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- **8-024T** 8 mm, Curved W/ Lock, Small Size, Ti 86
- **8-051T** 8 mm, Curved W/ Out Lock, Long Size, Ti 86
- **8-045T** 8 mm, Curved W/ Out Lock, Medium Size, Ti 86
- **8-025T** 8 mm, Curved W/ Out Lock, Small Size, Ti 86

**Fine Jaws**

- **8-070T** 12 mm, Curved W/ Lock, Long Size, Ti 86
- **8-040T** 12 mm, Curved W/ Lock, Medium Size, Ti 86
- **8-020T** 12 mm, Curved W/ Lock, Small Size, Ti 86
- **8-071T** 12 mm, Curved W/ Out Lock, Long Size, Ti 86
- **8-041T** 12 mm, Curved W/ Out Lock, Medium Size, Ti 86
- **8-021T** 12 mm, Curved W/ Out Lock, Small Size, Ti 86

**Standard Jaws**

- **8-060T** 12 mm, Curved W/ Lock, Long Size, Ti 86
- **8-030T** 12 mm, Curved W/ Lock, Medium Size, Ti 86
- **8-010T** 12 mm, Curved W/ Lock, Small Size, Ti 86
- **8-061T** 12 mm, Curved W/ Out Lock, Long Size, Ti 86
- **8-041T** 12 mm, Curved W/ Out Lock, Medium Size, Ti 86
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- **14-0241S** Newborn size, 5 mm blades, STSS 110
- **14-0221S** Adult Size, 14 mm Blades, Length 40 mm, STSS 110
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- **14-022S** Adult Size, 14 mm Blades, Length 40 mm, STSS 110
- **14-023S** Child Size, 11 mm Blades, Length 40 mm, STSS 110
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- **14-0284S** Newborn Size, 4 mm Blades, Length 25 mm, STSS 110
- **14-026S** Open 11 mm Blades, Child Size, Length 40 mm, STSS 110
- **14-0285S** Open 18 mm Blades, Adult Size, Length 45 mm, STSS 110
- **14-0286S** Open Blades, Adult Size, Length 45 mm, STSS 110
- **14-0283** Round Open 11 mm Blades, Child Size, Length 45 mm, STSS 110
- **14-0282S** Round Open Blades, Adult Size, Length 45 mm, STSS 110

**Bechert Nucleus Rotator**

- **5-034** Bechert Nucleus Rotator, Angled, "Y"-Tip, Length 121 mm 70
- **10-091** Beehler Pupil Dilator W/ Plunger, 17 Ga, Curved 89
- **10-083** Beehler Pupil Dilator, Intraocular Handle, 17 Ga, Curved 89
- **16-138** Betz Lacrimal Sac Rounger 119
- **13-147** Bicalto Guide, Blunt Tip, 5 mm Length, Angled 105
- **15-055-19** Bishop Harmon Anterior Chamber Cannula, 19 Ga x25 mm, Angled 111
- **4-0607S** Bishop-Harmon Suturing Forceps, 0.30 mm 1x2 Teeth, STSS 66
- **1-010T** Blade Holder, Round Handle, W/ Lock, Length 95 mm, Ti 39
- **4-2300T** Bonaccolto Utility Forceps, 15 mm Atraumatic Serration, Ti 68
- **3-090T** Bores Axis Marker, Used W/ Mendez Degree, Length 130 mm, Ti 42
- **3-091T** Bores Axis Marker, Length 130 mm, Ti 42

**Bowman Lacrimal Probe**

- **9-011S** Size 00-0, Length 133 mm, STSS 87
- **9-010S** Size 0000-0000, Length 133 mm, STSS 87
- **9-012S** Size 1-2, Length 133 mm, STSS 87
- **9-013S** Size 3-4, Length 133 mm, STSS 87
- **9-014S** Size 5-6, Length 133 mm, STSS 87
- **9-015S** Size 7-8, Length 133 mm, STSS 87
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<tr>
<td>2-101T</td>
<td>Braunstein Fixed Caliper</td>
<td>3.00-3.50 mm, Length 80 mm, Ti</td>
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<td>Braunstein Fixed Caliper</td>
<td>3.50-4.00 mm, Length 80 mm, STSS</td>
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<td>2-100T</td>
<td>Brush Tip Cannula</td>
<td>3.50-4.00 mm, Length 80 mm, Ti</td>
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<tr>
<td>2-101T</td>
<td>2.101T 3.00-3.50 mm, Length 80 mm, Ti</td>
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<td>2.100S 3.50-4.00 mm, Length 80 mm, STSS</td>
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<td>13-1091-23</td>
<td>BRVO Knife, 23 Ga</td>
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<td>16-062</td>
<td>Bunge Evisceration Spoon, Large, Length 130 mm</td>
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<td>16-061</td>
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<td>15-450-27</td>
<td>Cannula for DALK Procedure, 0.20 mm port, 27 Ga</td>
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<tr>
<td>4-0374</td>
<td>Capsulorhexis Forceps</td>
<td>W/Ruler, 23 Ga, 2 engraving, W/Lock, Micro Jaws, Tip only</td>
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<td>Capsulorhexis Forceps</td>
<td>W/Ruler, 23 Ga, 6 engraving, W/Lock, Micro Jaws, Tip only</td>
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<td>4-0395</td>
<td>Capsulorhexis Forceps</td>
<td>W/SCALE, Cross-action, Curved jaws 8.50 mm, 1.50 mm incision</td>
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<tr>
<td>4-0394</td>
<td>Capsulorhexis Forceps</td>
<td>W/SCALE, Cross-action, Curved Jaws 8.50 mm, 1.50 mm Incision, Length 110 mm, Ti</td>
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<td>4-0395S</td>
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<td>W/SCALE, Cross-action, Curved Jaws 8.50 mm, 1.50 mm Incision, Length 110 mm, STSS</td>
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<td>Capsulorhexis Forceps</td>
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<td>4-03791</td>
<td>Capsulorhexis Forceps</td>
<td>W/View Port, 23 Ga, 7 engravings, micro jaws 0.80 mm, Tip only</td>
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<td>4-0392S</td>
<td>Capsulorhexis Forceps</td>
<td>Inamura Style, S-R, Curved Jaws 12 mm, Length 117 mm, STSS</td>
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<tr>
<td>12-5162</td>
<td>Brush Tip Cannula</td>
<td>23 Ga, 5 per box</td>
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<td>12-5160</td>
<td>Brush Tip Cannula</td>
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<td>11-0241S</td>
<td>Corneal Section Scissors, Left, 14 mm Blades, STSS</td>
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<tr>
<td>11-024S</td>
<td>Corneal Section Scissors, Right, 14 mm Blades, STSS</td>
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<tr>
<td>13-052</td>
<td>Cyclodialysis Spatula</td>
<td>0.75 mm x 10 mm Blades, Length 124 mm</td>
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<tr>
<td>13-051</td>
<td>Cyclodialysis Spatula</td>
<td>1.00 mm x 10 mm Blades, Length 124 mm</td>
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<tr>
<td>13-050</td>
<td>Cyclodialysis Spatula</td>
<td>0.50 mm Wide, Blades 10/15 mm</td>
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<tr>
<td>9-0821S</td>
<td>Fixation Forceps</td>
<td>0.50 mm 1x2 Teeth, W/O Platform, Ti</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>11-010S</td>
<td>Right, Blunt Tips, 11 mm Blades, Length 100 mm, STSS</td>
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<td>11-012S</td>
<td>Universal, Blunt, 11 mm Blades, Length 106 mm, STSS</td>
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<td>11-011S</td>
<td>Universal, Blunt, 7.50 mm Blades, mm, STSS</td>
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<td>11-012D</td>
<td>Universal, Blunt Tips, Disposable, 6 per box</td>
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<td>11-015S</td>
<td>Curved, Blunt, 16 mm Blades, 110 mm, STSS</td>
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<td>8-0921T</td>
<td>Delicate jaws 13.50 mm, 125 mm length, straight w/lock, Ti</td>
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<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>Standard 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>
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<td>4-0600S</td>
<td>Suturing Forceps</td>
<td>0.12 mm 1x2 Teeth, 6 mm Tying Platform, Flat Handle, STSS</td>
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<td>4-0600T</td>
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<td>0.12 mm 1x2 Teeth, 6 mm Tying Platform, Flat Handle, Ti</td>
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<td>4-0601S</td>
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<td>0.30 mm 1x2 Teeth, 6 mm Tying Platform, Flat Handle, STSS</td>
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<td>4-0601T</td>
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<td>4-0602S</td>
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<td>4-0602T</td>
<td>Suturing Forceps</td>
<td>0.50 mm 1x2 Teeth, 6 mm Tying Platform, Flat Handle, Ti</td>
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<tr>
<td>4-0600D</td>
<td>Suturing Forceps</td>
<td>0.12 mm, Disposable, 6 per box</td>
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<td>4-055T</td>
<td>Catalano</td>
<td>0.12 mm, 1x2 Teeth, Round Handle, Ti</td>
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<td>0.30 mm, 1x2 Teeth, Round Handle, Ti</td>
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<tr>
<td>4-057T</td>
<td>Catalano</td>
<td>0.50 mm, 1x2 Teeth, Round Handle, Ti</td>
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<td>4-182T</td>
<td>Catalano</td>
<td>Curved Micro Tying Forceps, 6 mm Tying Pt., 105 mm, Ti</td>
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### Chang
- 7-127S Double-ended Micro Finger & Quick Chopper, LH, 125 mm, STSS
- 7-127R Double-ended Micro Finger & Quick Chopper, RH, 125 mm, STSS
- 15-0681 Nucleus Hydrodissector, 27 Ga x 16 mm

### Charles Flute Cannula
- 12-5164 23 Ga, 5 per box
- 12-5492 27 Ga, 5 per box

### Cillia Forceps
- 4-042S Narrow, Flat Handle, Length 86 mm, STSS
- 4-042T Narrow, Flat Handle, Length 86 mm, Ti
- 4-043T Wide, Flat Handle, Length 85 mm, Ti
- 13-151S Cindy Sweeper DSEK spatula, 0.70 mm tip, Angled, 114 mm, STSS
- 12-2020 Claus Lucke Retinotomy Scissors, bulbous tip 20 Ga, tip only
- 11-050S Clayman-Vannas Straight Scissors, Sharp 7 mm blades, 81 mm, STSS
- 4-21431 Coaxial angled ICL loading forceps, 20 Ga, tip only
- 8-120 Coaxial Needle Holder for IOL suturing, Ti

### Colibri Corneal Forceps
- 4-050T 0.12 mm, 1x2 Teeth, Flat Handle, Length 84 mm, Ti
- 4-051T 0.12 mm, 1x2 Teeth, Flat Handle, Length 77 mm, Ti
- 4-054T 0.12 mm, 1x2 Teeth, Round Handle, Length 109 mm, Ti
- 4-0540T 0.12 mm, 1x2 Teeth, Round Handle, Length 115 mm, Ti

### Colibri-Bonn Corneal Forceps
- 4-0503S 0.12 mm, 1x2 Teeth, Flat Handle, Length 84 mm, STSS
- 4-0504T 0.12 mm, 1x2 Teeth, Flat Handle, Length 84 mm, Ti
- 4-053T 0.12 mm, 1x2 Teeth, 5 mm platform, Length 115 mm, Ti
- 4-0550D 0.12 mm, 1x2 Teeth, Disposable, 6 per box
- 7-1162S Combo Prechopper, Cross-action, Max opening 2.00 mm, 121 mm, STSS
- 7-1161S Combo Prechopper, Sharp & Blunt Blades, Cross-action, 121 mm, STSS

### Compressing Lid Forceps
- 4-1913T Compressing Lid Forceps (MGD), Curved, Ti
- 4-124S Compressing lid forceps w/ atraumatic rollers, 107 mm, STSS

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

### Crocodile Vitreoretinal Gripping Forceps
- 12-304 20 Ga, tip only
- 12-304-23H 23 Ga, Attached to a Universal Handle
- 12-304-25H 25 Ga, Attached to a Universal Handle
- 12-304-23 23 Ga, tip only
- 12-304-25 25 Ga, Tip only
- 12-304-23D 23 Ga, STSS, Disposable, 6 per box
- 12-304-25D 25 Ga, STSS, Disposable, 6 per box

### Curved Subretinal Scissors
- 12-209 Curvature Radius 12 mm, 20 Ga, Tip only
- 12-2099 Curvature Radius 12 mm, 25 Ga, Tip only
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<td>12-209-23</td>
<td>Curvature Radius 12 mm, 23 Ga, Tip only</td>
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<tr>
<td>12-209-25H</td>
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<tr>
<td>12-209-23D</td>
<td>23 Ga, STSS, Disposable, 6 per box</td>
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<td>12-209-25D</td>
<td>25 Ga, STSS, Disposable, 6 per box</td>
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<tr>
<td>7-1167S</td>
<td>Crozafon Prechopper, Round Handle, STSS</td>
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**D**

16-153 | Davis Foreign Body Spud |
21-R7012 | DCR Set - Angled 4.5 cm, 3 per box |
21-R7011 | DCR Set - Straight 4.5 cm, 3 per box |
12-413 | De Juan Diamond Dusted Pick Forceps, 20 Ga, Tip only |
2-036T | Degree gauge W/ beveled face, 16/12 mm, Length 132 mm, Ti |

**Delicate Membrane Pick**

13-097-23 | 23 Ga |
13-0979 | 25 Ga |
13-097-27 | 27 Ga |

**Desmarres Chalazion Forceps**

4-1906T | Large, 31x17.40 mm Platform, Ti |
4-192T | Medium, 24x16 mm Platform, Ti |
4-1907T | Small, 19.80x9.40 mm Platform, Ti |

**Desmarres Lid Retractor**

10-020 | Size 0, 9 mm, Length 130 mm |
10-021 | Size 1, 13 mm, Length 130 mm |
10-022 | Size 2, 15 mm, Length 130 mm |
10-023 | Size 3, 17 mm, Length 130 mm |

**Diamond Knife**

6-00/6-030 | Astigmatic and Arcuate Keratotomy, 1.00 mm Blade |
6-00/6-020 | Arcuate Incision, 100/0.20 mm Tapered Blade |

**Glaucoma Knife**

6-20/6-091 | 1.50 mm Round Crescent, Angled Handle |
6-20/6-092 | 2.00 mm Round Crescent, Angled Handle |

**LRI Knife**

6-322/6-053I | 1.00 mm, 500/550/600 microns Preset Depths |
6-500/6-053I | 0.20/100 mm, 500 microns Preset Depth |
6-500S/6-053I | 0.20/100 mm, 600 microns Preset Depth, w/Slit Lamp |
6-600/6-053 | 0.20/100 mm, 600 microns Preset Depth |
6-600S/6-053 | 0.20/100 mm, 600 microns Preset Depth, w/Slit Lamp |

**Phaco Knife**

6-20/6-071 | 2.50 mm Clear Cornea, Angled Handle |
6-20/6-072 | 2.80 mm Clear Cornea, Angled Handle |
6-20/6-073 | 3.00 mm Clear Cornea, Angled Handle |
6-20/6-074 | 3.20 mm Clear Cornea, Angled Handle |
6-20/6-075 | 2.20 mm Clear Cornea, Angled Handle |
6-20/6-077 | 2.75 mm Clear Cornea Blade, Angled Handle |
6-20/6-078 | 2.70 mm Clear Cornea, Angled Handle |
6-20/6-081 | 2.30 mm Clear Cornea, Angled Handle |
6-20/6-100 | 1.90/2.50 mm Trapezoid Self-Diving, Angled Handle |
6-20/6-101 | 2.70/3.20 mm Trapezoid Self-Diving, Angled Handle |
6-20/6-102 | 3.00/3.50 mm Trapezoid Self-Diving, Angled Handle |
6-20/6-104 | 2.30/2.80 mm Trapezoid Self-Diving, Angled Handle |
6-20/6-105 | 2.60/3.00 mm Trapezoid Self-Diving, Angled Handle |
6-20/6-107 | 2.00/2.30 mm Trapezoid Self-Diving, Angled Handle |

**Side-Port Knife**

6-10/6-050 | 45° Single Edge Blade, Straight Handle |
6-10/6-0501 | 45° Side-Port Single Edge 0.60 mm, Straight Handle |
6-10/6-051 | 30° Single Edge Blade, Angled Handle |
6-10/6-052 | 45° Double Edge Blade, Straight Handle |
6-10/6-053 | Trifacet Blade, 100 mm Straight Ti Universal Handle |
6-10/6-0531 | 20° Trifacet Blade 100 mm, Straight Handle |
6-10/6-070 | Lancet Blade, 100 mm/ Straight Ti Universal Handle |
6-10/6-0701 | Lancet Blade, 0.80 mm/ Straight Ti Universal Handle |
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**Micro-Incision Diamond Knife**

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<td>Diamonized Angled Vitreoretinal Gripping Forceps, 20 Ga, Tip only</td>
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<td>End-Gripping Vitreoretinal Forceps, 20 Ga, Tip only</td>
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<td>End-Gripping Vitreoretinal Forceps, 23 Ga, Tip only</td>
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<td>12-301-23D</td>
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<tr>
<td>12-301-25D</td>
<td>Gripping Forceps w/Sandblasted Platform, 25 Ga, Disposable, 6 per box</td>
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<tr>
<td>12-301-23H</td>
<td>Gripping Forceps with a Diamond Dusted Platform, Attached to a Universal Handle, 23 Ga</td>
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<tr>
<td>12-301-25H</td>
<td>Gripping Forceps with a Diamond Dusted Platform, Attached to a Universal Handle, 25 Ga</td>
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**Disposable Knife**

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<td>W/ Depth Indicators, 2.40 mm, Angled, 6 per box</td>
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<td>CCD-26</td>
<td>W/ Depth Indicators, 2.65 mm, Angled, 6 per box</td>
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<td>CCD-27</td>
<td>W/ Depth Indicators, 2.75 mm, Angled, 6 per box</td>
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<td>CC-22</td>
<td>2.20 mm, Angled, 6 per box</td>
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<td>CC-24</td>
<td>2.40 mm, Angled, 6 per box</td>
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<td>CC-26</td>
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<td>CC-27</td>
<td>2.75 mm, Angled, 6 per box</td>
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<td>CC-30</td>
<td>3.00 mm, Angled, 6 per box</td>
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<td>CR-20</td>
<td>Crescent, 2.00 mm, Angled, 6 per box</td>
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**Clear Corneal Knife**

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<th>Item</th>
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<th>Box Count</th>
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</thead>
<tbody>
<tr>
<td>CR-20</td>
<td>Paracentesis, 110 mm, Angled, 6 per box</td>
<td>22</td>
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</tbody>
</table>

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<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>VRA-19</td>
<td>19 Ga, Angled, 6 per box</td>
<td>22, 142</td>
</tr>
<tr>
<td>VRS-19</td>
<td>19 Ga, Straight, 6 per box</td>
<td>22, 142</td>
</tr>
<tr>
<td>VRA-20</td>
<td>20 Ga, Angled, 6 per box</td>
<td>22, 142</td>
</tr>
<tr>
<td>VRS-20</td>
<td>20 Ga, Straight, 6 per box</td>
<td>22, 142</td>
</tr>
<tr>
<td>VRA-23</td>
<td>23 Ga, Angled, 6 per box</td>
<td>22, 142</td>
</tr>
<tr>
<td>VRS-23</td>
<td>23 Ga, Straight, 6 per box</td>
<td>22, 142</td>
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<table>
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<tr>
<td>PD-60</td>
<td>Pre-Set, 600 μm Depth, 6 per box</td>
<td>13, 21</td>
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**Side-Port Knife**

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<tbody>
<tr>
<td>SP-15</td>
<td>100 mm, 15°, Straight, 6 per box</td>
<td>13, 21</td>
</tr>
<tr>
<td>SP-30</td>
<td>100 mm, 30°, Straight, 6 per box</td>
<td>21</td>
</tr>
<tr>
<td>SP-45</td>
<td>100 mm, 45°, Straight, 6 per box</td>
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**Slit Knife**

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<th>Item</th>
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<tbody>
<tr>
<td>SL-18</td>
<td>1.80 mm, Angled, 6 per box</td>
<td>13, 21</td>
</tr>
<tr>
<td>SL-22</td>
<td>2.20 mm, Angled, 6 per box</td>
<td>13, 21</td>
</tr>
<tr>
<td>SL-24</td>
<td>2.40 mm, Angled, 6 per box</td>
<td>21</td>
</tr>
<tr>
<td>SL-26</td>
<td>2.65 mm, Angled, 6 per box</td>
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<tr>
<td>SL-27</td>
<td>2.75 mm, Angled, 6 per box</td>
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<tr>
<td>SL-28</td>
<td>2.80 mm, Angled, 6 per box</td>
<td>21</td>
</tr>
<tr>
<td>SL-32</td>
<td>3.20 mm, Angled, 6 per box</td>
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<thead>
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<tbody>
<tr>
<td>TR-10</td>
<td>1.20-1.40 mm, Angled, 6 per box</td>
<td>22</td>
</tr>
<tr>
<td>TR-17</td>
<td>1.50-1.70 mm, Angled, 6 per box</td>
<td>22</td>
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<tr>
<td>13-172</td>
<td>Dissector for DALK Procedure, 12 mm Length, Length 122 mm</td>
<td>101</td>
</tr>
<tr>
<td>11-036S</td>
<td>DLEK Scissors, Medium Curve, Long Blades, Length mm, STSS</td>
<td>91</td>
</tr>
<tr>
<td>11-036S</td>
<td>DLEK Scissors, Strong Curve, Long Blades, Length mm, STSS</td>
<td>91</td>
</tr>
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<td>20-2041</td>
<td>Donnenfeld Femto Spatula</td>
<td>35, 97</td>
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<tr>
<td>7-146</td>
<td>Donnenfeld Femto Splitter</td>
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</tr>
<tr>
<td>10-034T</td>
<td>Double-ended Orbital Globe Retractor-Elevator, 10/14 mm, Ti</td>
<td>88</td>
</tr>
<tr>
<td>7-079</td>
<td>Double Phaco Spatula: Small Pupil Snapper Hook &amp; Micro Finger, 142 mm</td>
<td>79</td>
</tr>
<tr>
<td>13-032</td>
<td>Double Spatula, 0.30/0.50 mm Wide, 12 mm Long, 130 mm</td>
<td>96</td>
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</tbody>
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<td>118</td>
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<tr>
<td>16-030-17</td>
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<td>16-030-19</td>
<td>19 mm, 1 each</td>
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<tr>
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<td>1.50 mm x10.00 mm, Flat Handle, Length 140 mm</td>
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<tr>
<td>5-043</td>
<td>2.00 mm x10.00 mm, Flat Handle, Length 140 mm</td>
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<td>7-1061</td>
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<tr>
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<tr>
<td>3-0220T</td>
<td>9.50 mm, Ti</td>
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<tr>
<td>IOLs</td>
<td>Hydro-Sense Aspheric</td>
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</tr>
<tr>
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<td>AquaFree Yellow Aspheric Hydrophobic</td>
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</tr>
<tr>
<td>AquaFree Yellow Aspheric Hydrophobic Preloaded</td>
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#### Hydrodissector

<p>| | |</p>
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<tbody>
<tr>
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<td>Flattened, Angled 10 mm 27 Ga x22 mm, 10 per box</td>
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<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>7-080/90</td>
<td>Angled 90° Angled</td>
</tr>
<tr>
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</tr>
<tr>
<td>7-080/20</td>
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</tr>
<tr>
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<td>Straight</td>
</tr>
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<td>7-080/SIM</td>
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<tr>
<td>4-2011S</td>
<td>ICL Cartridge Loading Forceps, Angled Long Jaws, STSS</td>
</tr>
<tr>
<td>4-2011T</td>
<td>ICL Cartridge Loading Forceps, Angled Long Jaws, Ti</td>
</tr>
<tr>
<td>4-03761</td>
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</tr>
<tr>
<td>7-1651S</td>
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</tr>
<tr>
<td>7-1655</td>
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</tr>
<tr>
<td>7-1206</td>
<td>Infusion Cannula 6 mm, Reusable, 1 piece</td>
</tr>
<tr>
<td>8-102S</td>
<td>Ing's Needle Holder/Scissors, 15 mm Jaws, Length 105 mm, STSS</td>
</tr>
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<td>Injector For Capsular Ring W/ Irrigation</td>
</tr>
<tr>
<td>12-5127-23 ICL Cartridge Loading Forceps</td>
<td>21 Ga, 1 per box</td>
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<tr>
<td>7-075</td>
<td>Manipulator W/ 5 mm Ball Tip, Angled, Length 123 mm</td>
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<tr>
<td>7-074</td>
<td>Manipulator W/ 5 mm Ball Tip, Straight, Length 123mm</td>
</tr>
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<td>8-121-23</td>
<td>Needle Holder, 23 Ga</td>
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<tr>
<td>4-189F</td>
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</tr>
<tr>
<td>4-214S</td>
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<td>Hydro-Sense Aspheric</td>
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<tr>
<td>Hydro-Sense Aspheric Yellow</td>
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#### IOLs - Hydrophobic

<table>
<thead>
<tr>
<th>IOLs</th>
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<tbody>
<tr>
<td>AquaFree Yellow Aspheric Hydrophobic</td>
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<tr>
<td>AquaFree Yellow Aspheric Hydrophobic Preloaded</td>
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#### IOL Injector

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<tr>
<th>Injector</th>
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<tr>
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<td>Disposable Viscoject eco Injector for 2.20 mm incisions</td>
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<tr>
<td>16-2806</td>
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</tr>
<tr>
<td>16-2807</td>
<td>Reusable, for D cartridge w/plunger</td>
</tr>
<tr>
<td>16-2808</td>
<td>Reusable, for D cartridge w/plunger &amp; ring handle</td>
</tr>
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#### Iris Forceps

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<th>Forceps</th>
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<tbody>
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<td>4-101S</td>
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<td>4-100S</td>
<td>W/ Serrations, Flat Serrated Handle, STSS</td>
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<td>10-5067-1</td>
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<td>5-020</td>
<td>Iris Hook, 100 mm, Angled, Round Handle, Length 121 mm</td>
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<tr>
<td>11-080S</td>
<td>Iris Scissors, Straight, Sharp Tips, 28 mm Blades, Length 125 mm, STSS</td>
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<table>
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<th>Cannula</th>
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<td>Lacrimal Intubation Set</td>
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<td>21-R7004RD 27G, w/retrieval device, olive tip, 11 cm probe, 3 per box</td>
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<td>21-R7002 Lacrimal Intubation Tubing - 30 cm, 3 per box</td>
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<td>4-1909T Lambert Chalazion Forceps, Medium, 12 mm Diameter, Ti</td>
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<td>4-1908T Lambert Chalazion Forceps, Small, 8 mm Diameter, Ti</td>
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<td>21-R2227</td>
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*Please note: The table includes codes and page numbers, with AquaFree Yellow Aspheric and Hydrophobic highlighted for emphasis.*
RUMEX reusable and disposable surgical instruments and consumables are produced in compliance with the following standards:

- ISO 13485:2016
- ISO 11979:1 - 2018
- ISO 11979:2 - 2014
- ISO 11979:3 - 2012
- ISO 11979:4 - 2008/Amd 1:2012
- EN ISO 15223-1:2016
- ISO 11979:5 - 2006
- ISO 11979:6 - 2014
- ISO 11135:2014/Amd 1:2018
- ISO 14155:2011/Cor 1:2011
- ISO 1997 - 7: 2018
- ISO 14971:2007
- MDD 93/42/EEC
- ISO 10993-1: 2018
- ISO 10993-3: 2009
- ISO 10993-6: 2016
- ISO 10993-7: 2008/Cor 1:2009
- ISO 10993-9: 2009
- ISO 10993-10: 2010
- ISO 10993-11: 2017
- ISO 10993-13: 2010
- ISO 10993-16: 2017
- ISO 2248: 1985
- ISO 8655-6: 2002 / Cor 1: 2008
- ISO 10012: 2003
- ISO 11607-1:2019
- EN ISO 13485: 2016
- ISO 14644 - 1: 2015
- ISO 14644 - 2: 2015
- ISO 14644 - 5: 2004
- ISO 11737 - 1: 2018
- ISO 11737 - 2: 2009
- DIN EN ISO 15798:2018-02
- DIN EN ISO 16067-1:2017-10
- 21 CFR
- ISO 11979 - 8: 2017
- ISO 19979:2018
- ISO 11138-7:2019
- DIN EN ISO 15223-1:2017-04
- BS EN ISO 11737:2018
- ISO 11137-1:2006/Amd 2:2018
- ISO 11137-2:2013
- EN ISO 14971:2012
- ISO 15223:2016
- EN 1041:2008
- EN ISO 17664:2004
- EN 62366:2008
- ISO 7153-1:2016
- ISO 7151:1988
- ISO 7741:1986
- ISO 14630: 2012
- ISO 15225 - 2016
- DIN EN 556 - 1: 2002-03
- EN ISO 17664:2017
- ISO 1807-2:2019
- BS EN ISO 9000: 2015
- BS EN ISO 19011:2018
- BS EN 556 - 1: 2001
- BS EN ISO 15223 - 1: 2016
- BS EN ISO 10993-1: 2009
- ANSI/ASQ Z1.4 : 2008
- ISO 17665 - 1:2006
- ISO 17598:2013/Amd 1:2017
- ISO 9001: 2015
- NF EN ISO 13485 : 2016
- NF EN ISO 17665-1 : 2006
- ISO 20857 : 2010
- NF EN ISO 11737-1:2018
- NF EN ISO 11737 - 2: 2010
- NF EN 556 - 1: 2002
- ISO 15223 - 1: 2016
- NF EN 1041 - A1: 2013
- NF EN ISO 14555 - 2012
- NF EN ISO 14971 : 2013
- DIN EN ISO 10993-12:2010-04
- DIN EN ISO 10993-5:2009-10
- DIN EN ISO 10993-12:2012-10
- DIN EN ISO 14971:2013-04
- DIN EN 868 - 1: 1997
- DIN EN 868-3:2017-05
- DIN EN ISO 13485 : 2016
- DIN EN 554 : 1994