



OPHTHALMIC INSTRUMENTS + IOLs & Consumables

2022



**AFFORDABLE.
RELIABLE. PRECISE.**

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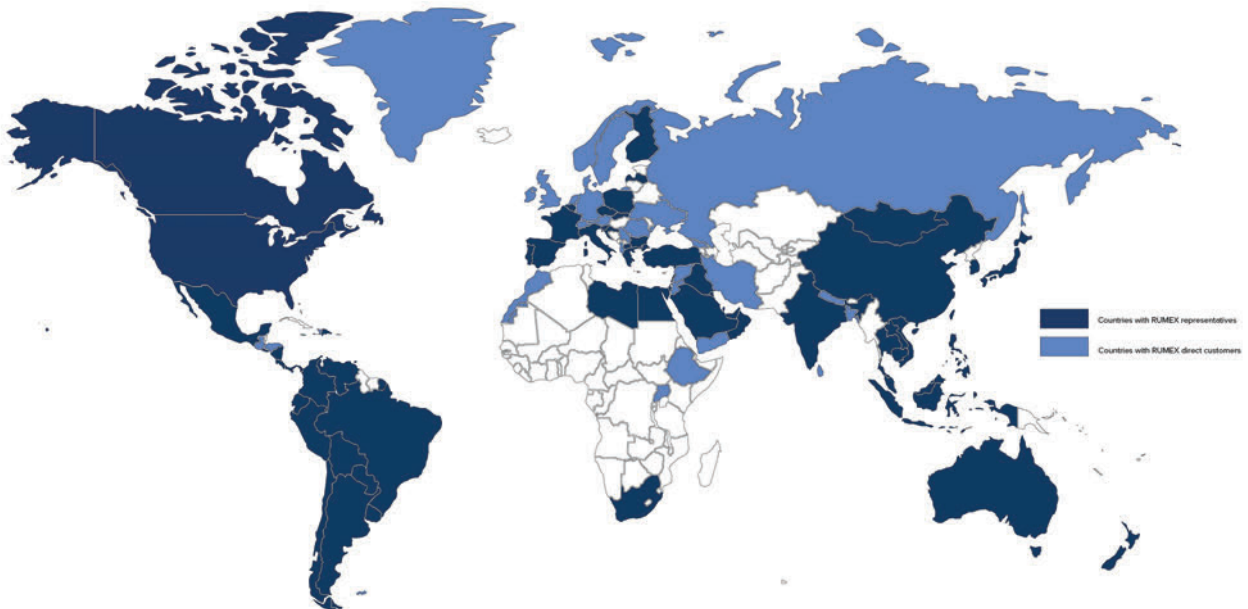
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MORE THAN 25 YEARS OF SUCCESS

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

DOCTORS IN MORE THAN 100 COUNTRIES CHOOSE RUMEX



Over **2000** products
in RUMEX range

HOW TO PLACE AN ORDER

All the orders can be easily placed and paid online according to your shipping location directly via one of RUMEX online stores or through your local RUMEX representatives.

If your shipping country is USA, you are welcome to order at rumex.us

If your shipping country is within Europe, please visit rumex.eu to make your order.

For other regions visit rumex.com and find your local RUMEX representative.

Pricing

The prices are detected automatically by your location. The pricing policy may vary from region to region. Please contact 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!

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 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 condition. 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 fill in the RMA form and send the paper copy by post together with the instrument. To get the RMA form, please contact customer service department.

To obtain a Return Authorization Number prior to returning instruments, please call customer service department +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.

**MOST
POPULAR**

Best-selling item

POPULAR

SKU preferred by the majority of customers

NEW

Recently introduced into the product range of RUMEX International Co.

**COMING
SOON**

This item will be available in RUMEX range soon



Disposable instruments



Available in a single-use edition



Available in Stainless Steel



Featured instrument in the set on page 100

**DON'T FORGET
TO BUY**

Frequently bought together



Quantity in the box

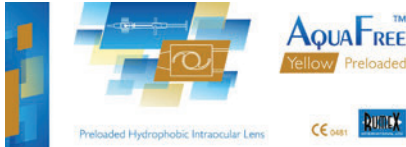
IOLs, DISPOSABLE INSTRUMENTS AND CONSUMABLES

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IOL IMPLANTATION SOLUTIONS

STEP 1. CHOOSE THE IOL AND DELIVERY SYSTEM

PRELOADED IOL+DELIVERY SYSTEM



AquaFree Yellow Aspheric Preloaded

FEATURES:

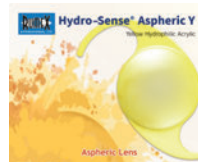
- Fast injection
- Ready-to-use option

OR

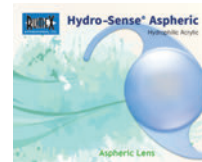
NON-PRELOADED IOLS



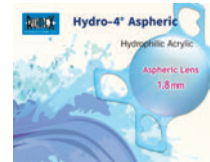
AquaFree Yellow Aspheric



Hydro-Sense Yellow

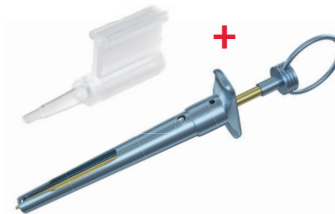


Hydro-Sense



Hydro-4

DELIVERY SYSTEM



Single-Use Cartridge CAT-22 (2.2 mm) or CAT-24 (2.4 mm) + Reusable IOL Injector 16-2853

FEATURES:

- Money-wise solution
- Flexibility in choosing the IOL

OR



VE2200 Disposable IOL Injector

FEATURES:

- Single-use option
- Flexibility in choosing the IOL

STEP 2. ADD THE OVD

DISPERSIVE

SUPREME HPMC 2%

BEST FOR:

- Coating the surgical instruments
- Endothelium protection

AND/OR

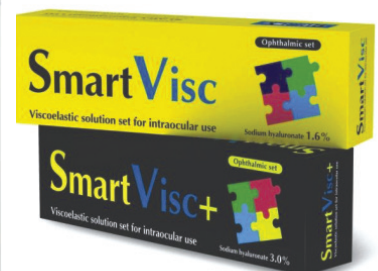
COHESIVE

SMARTVISC Sodium Hyaluronate 1.6%

SMARTVISC PLUS Sodium Hyaluronate 3%

BEST FOR:

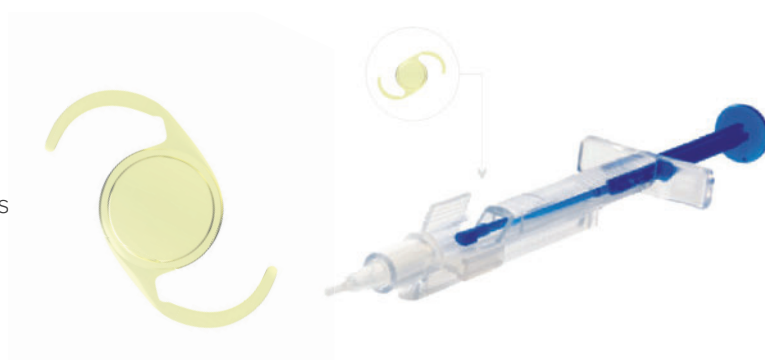
- Keeping the empty capsular bag open for IOL insertion
- Flattening the anterior capsule to facilitate capsulorhexis creation



IOLs

HYDROPHOBIC IOLs*

Foldable aspheric monofocal one-piece IOLs



| | AquaFree Yellow | AquaFree Yellow Preloaded |
|------------------------------|-----------------|---|
| Min. incision size | | 2.2 mm |
| Overall diameter | | 13.0 mm |
| Optic diameter | | 6.0 mm |
| Power range | | 0D to +9D (1D steps) +10D to +30D (0.5D steps) |
| Self-unfolding | | Yes |
| Water content | | <0.5% |
| Angulation | | 0° |
| Material | | Natural Yellow Hydrophobic Acrylic |
| Optic design | | Biconvex, square-edge |
| Refractive index | | 1.5 |
| Abbe number | | 50 |
| Nominal A-constant | | 118.7 |
| Optimized optical constants | | Haigis: a0=1.32, a1=0.40, a2=0.10 HofferQ: pACD=5.51 Holl.1: sf=1.75 SRK/T: 118.9 SRK II: 119.2 n: 190 Ref. : [304],[332] |
| Transition temp. of material | | 11°C |
| Filtration | | UV and Blue Light (400-475 nm) |
| AC-depth | | 5.51 |
| Shelf life | | 5 years |

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
- Manufactured by the lathe-cut (LC) method – no glistenings

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

HYDROPHILIC IOLs*

Foldable aspheric monofocal one-piece IOLs



| | Hydro-4 Aspheric | Hydro-Sense Aspheric | Hydro-Sense Aspheric Yellow |
|-----------------------------|-----------------------------------|---|------------------------------------|
| Min. incision size | 1.8 mm – suitable for MICS | 2.2 mm | 2.2 mm |
| Overall diameter | 11.0 mm | 12.5 mm | 12.5 mm |
| Optic diameter | | 6.0 mm | |
| Power range | | -5D to +9D (1D steps) +14D to +25D (0.5D steps) +25D to +38D (1D steps) | |
| Self-unfolding | | Yes | |
| Water content | | 23.5 – 27.5 % | |
| Angulation | | 5° | |
| Material | Hydrophilic Acrylic | Hydrophilic Acrylic | Natural Yellow Hydrophilic Acrylic |
| Optic design | | Biconvex, square-edge | |
| Refractive index | | 1.46 | |
| Abbe number | | 55 | |
| Nominal A-constant | | 118.0 | |
| | | Haigis: a0=0.92 a1=0.40 a2=0.10 HofferQ: pACD=5.08 Holl1: sf=1.31 SRK/T: 118.2 SRK II: 118.5 n: 213 Ref. :[341] | |
| Optimized optical constants | | | |
| Filtration | UV | UV | UV and Blue Light |
| AC-depth | | 4.65 | |
| Shelf life | | 5 years | |

FEATURES

- High biocompatibility of hydrophilic material with eye tissues – no unwanted biological reactions
 - 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
- Manufactured by the lathe-cut (LC) method – no glistenings
 - 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

DISPOSABLE INJECTION SYSTEMS AND CARTRIDGES

**DON'T FORGET
TO BUY**

Disposable IOL Injection System
MEDICEL VISCOJECT™ Eco

VE2200*

STERILE



- Suitable for Hydrophobic and Hydrophilic IOLs
- Push version
- Soft-tip technology for one-piece IOLs
- Incision sizes range from 2.1 mm to 2.8 mm, depending on the operating technique used (fig.1)

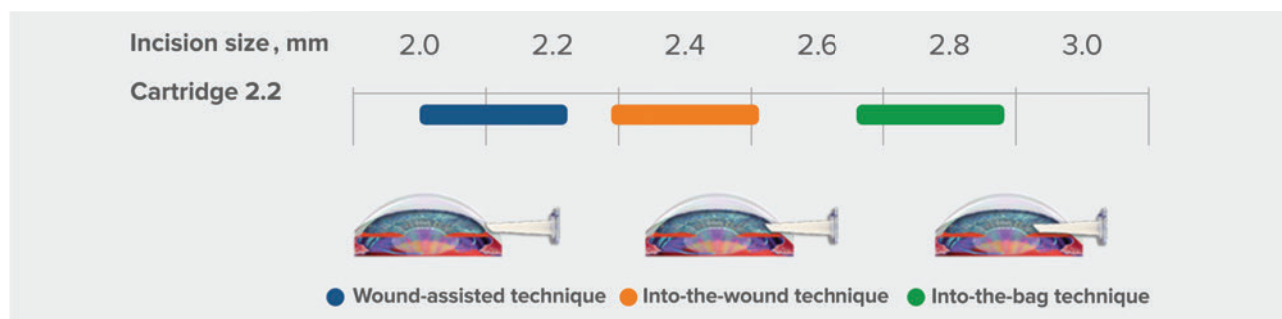


fig.1

Disposable Cartridges for IOL Injector**

Disposable cartridges are to be used with
Reusable IOL Injector **16-2853** (page 116)
for foldable one-piece IOLs

CAT-22 for 2.2 mm incision

CAT-24 for 2.4 mm incision

CAT-27 for 2.7 mm incision

NEW STERILE



*Not available in the US

**Not available in Europe

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

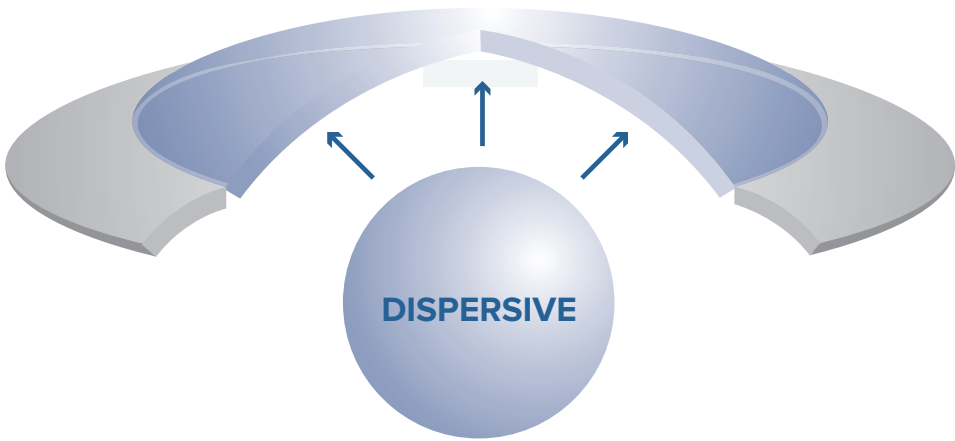
| | |
|------------------|-------------------|
| Classification | Dispersive |
| Composition | HPMC 2% |
| Molecular weight | 86 000 Da |
| Viscosity | 3 000–4 500 cSt |
| pH | 6.0–7.8 |
| Osmolality | 250–350 mOsmol/kg |
| Volume | 2 ml |
| Storage | 2-35°C |
| Shelf Life | 3 years |

Advantages

- The best endothelial protection
- Easy removal
- Completely transparent
- No refrigeration necessary
- Easy transportation and storage (2–35°C)

Dispersive Solution Supreme is used to:

- Coat ocular structures during cataract surgery: in the initial part, during capsulorhexis and phacoemulsification
- 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 keep the anterior chamber formed, to keep the anterior capsule flat during capsulorhexis creation, to move and manipulate iris or other tissues and to keep the empty capsular bag open for IOL insertion.

| | SmartVisc | SmartVisc PLUS |
|------------------|--------------------------|--------------------------|
| Classification | Cohesive | |
| Composition | Sodium Hyaluronate 1.6 % | Sodium Hyaluronate 3.0 % |
| Molecular weight | 1.2–2.0 mDa | 1.0–1.8 mDa |
| Viscosity | approx. 80 000 mPas | approx. 400 000 mPas |
| Osmolality | 270–400 mOsmol/kg | |
| Storage | 2–25°C | |
| pH | 6.8–7.4 | |
| Volume | 1 ml | |
| Shelf Life | 3.5 years | |

supplied with a cannula

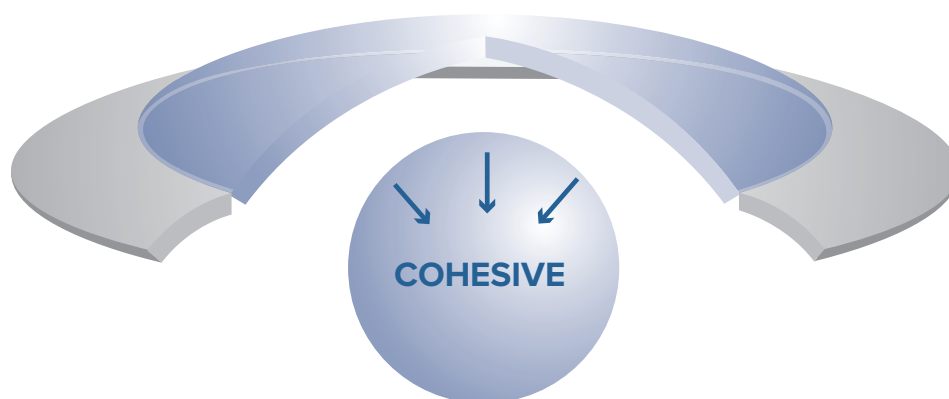


Advantages

- Good maintenance of the anterior chamber and the capsular bag
- Controlled capsulorhexis
- Easy IOL implantation
- Better adhesiveness to the corneal endothelium during phacoemulsification
- Excellent protection against mechanical damages
- No refrigeration necessary
- Ready-to-use

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

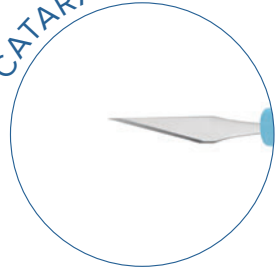
DISPOSABLE KNIVES

Disposable Knives are supplied sterile in a box of 6

STERILE **2** **6** PER BOX

ALL KNIVES ARE EQUIPPED WITH SAFETY LIDS

CATARACT



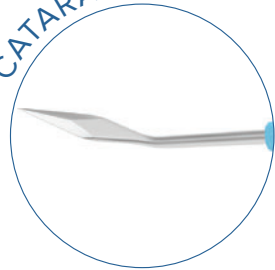
Side Port Knives

Initial stab incisions
Straight, double bevel

SP-15 1.00 mm, 15°
SP-30 1.00 mm, 30°
SP-45 1.00 mm, 45°

**MOST
POPULAR**

CATARACT

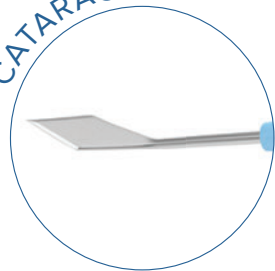


Paracentesis Knives

Paracentesis incisions/side port incisions
Angled, double bevel

PK-11 1.10 mm

CATARACT



Slit Knives

Scleral tunnel incisions
Angled, single bevel

SL-22 2.20 mm **POPULAR**
SL-24 2.40 mm **POPULAR**
SL-26 2.65 mm
SL-27 2.75 mm
SL-28 2.80 mm **POPULAR**
SL-32 3.20 mm

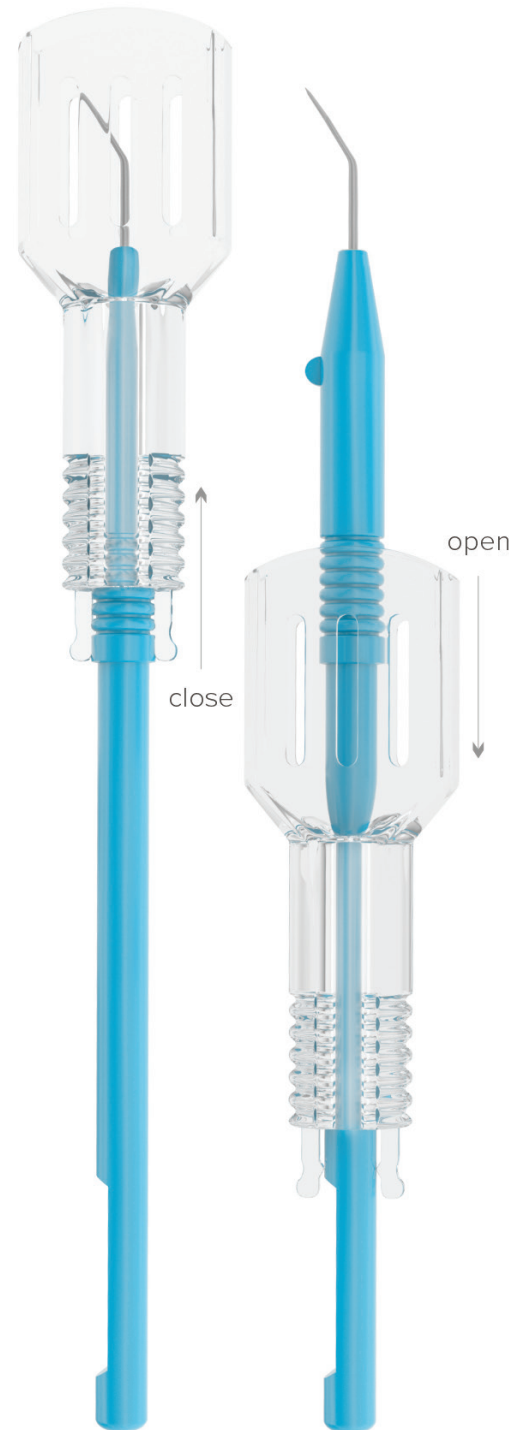
CATARACT



Trapezoidal Knives

Tunnel incisions
Angled, single bevel

TR-10 1.20-1.40 mm
TR-17 1.50-1.70 mm



CE
2803

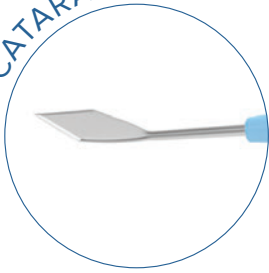
Product design and/or features that do not influence its functionality and main parameters are subject to change

STERILE

2

6
PER
BOX

CATARACT

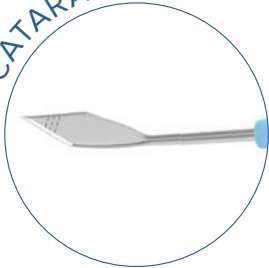
**Clear Corneal Knives**

Clear corneal incisions
Angled, double bevel

CC-22 2.20 mm
CC-24 2.40 mm
CC-26 2.65 mm
CC-27 2.75 mm
CC-30 3.00 mm

**MOST
POPULAR****MOST
POPULAR**

CATARACT

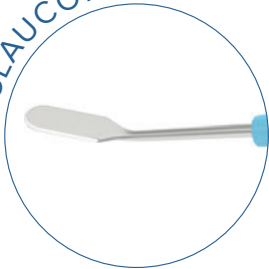
**Clear Corneal Knives with Depth Indicators**

Tunnel incisions
Angled, double bevel

CCD-22 2.20 mm 1.50, 1.75 mm depth indicators
CCD-24 2.40 mm 1.50, 1.75, 2.00 mm depth indicators
CCD-26 2.65 mm 1.50, 1.75, 2.00 mm depth indicators
CCD-27 2.75 mm 1.50, 1.75, 2.00 mm depth indicators

POPULAR

GLAUCOMA

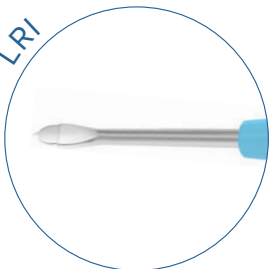
**Crescent Knives**

Lamellar dissections/scleral tunnel,
flap formation
Angled, single bevel

CR-20 2.00 mm

**MOST
POPULAR**

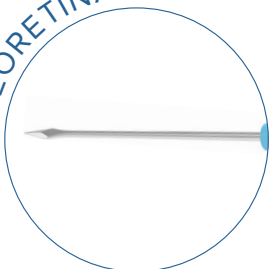
LRI

**Pre-Set Knives**

Groove making/limbal relaxing incisions
Multifacet

PD-60 600 µm Depth

VITREORETINAL

**MVR Knives**

Posterior segment penetration/side port incisions
Straight, multifacet

VRS-19 19 Ga
VRS-20 20 Ga
VRS-23 23 Ga

**MOST
POPULAR
POPULAR**

Angled, multifacet

VRA-19 19 Ga
VRA-20 20 Ga
VRA-23 23 Ga

CE
2803

DISPOSABLE INSTRUMENTS

All stainless steel disposable instruments are designed for precise manipulations during anterior segment surgeries.

STERILE **2** **6** PER BOX

Speculums

Barraquer Wire Speculum

Overall length 40 mm
Sterile, box of 6

14-022D **POPULAR**



Spatulas and Manipulators

Overall length 120 mm
Sterile, box of 6



Sinskey Hook
Angled
5-032D



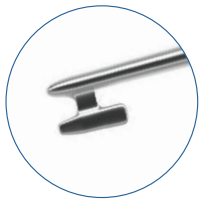
Rosen Phaco Chopper
Universal
7-065D **POPULAR**



Lester Lens Manipulator
Angled
5-0331D



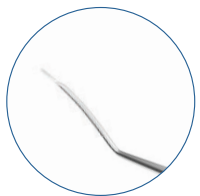
Nagahara Phaco Chopper
RHD
7-063D



Kuglen Iris Hook
Angled
5-030D



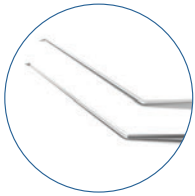
Drysdale Nucleus Manipulator
Universal
7-093D



Spatula for Femtosecond Laser Procedure
20-204D

Forceps

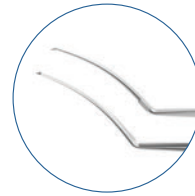
Overall length 104 mm
Sterile, box of 6



Utrata Capsulorhexis Forceps

Cystotome tips
Straight

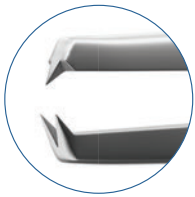
4-0311D **POPULAR**



Utrata Capsulorhexis Forceps

Cystotome tips
Curved

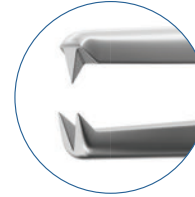
4-0331D **MOST POPULAR**



Castroviejo Suturing Forceps

0.12 mm

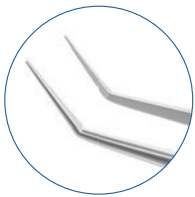
4-0600D **POPULAR**



Bonn-Catalano Corneal Forceps

0.12 mm

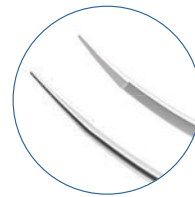
4-0551D



McPherson Tying Forceps

Angled

4-174D



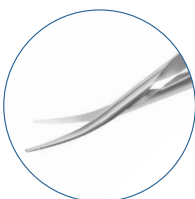
McPherson Tying Forceps

Curved

4-177D **POPULAR**

Scissors

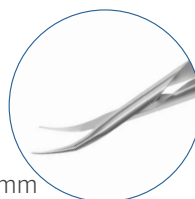
Sterile, box of 6



Castroviejo Universal Corneal Scissors

Blunt tips
Overall length 106 mm

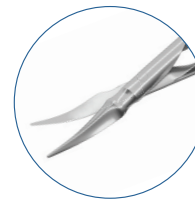
11-012D **POPULAR**



Westcott Tenotomy Scissors

Blunt tips
Overall length 115 mm

11-040D **POPULAR**



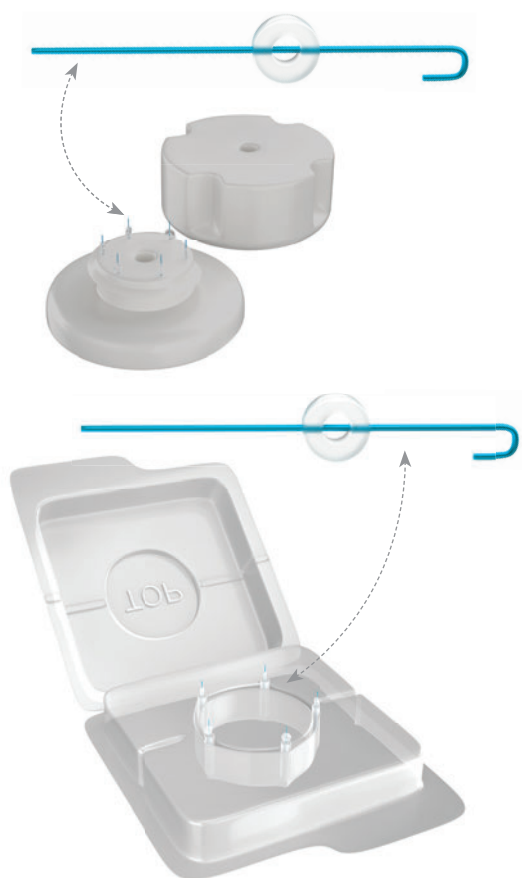
Vannas Capsulotomy Scissors

Sharp tips
Overall length 84 mm

11-052D **POPULAR**



Iris Retractors



Iris Retractor*

Reusable
Supplied sterile in autoclavable PTFE container

10-5127

**MOST
POPULAR**

STERILE

6
PER
BOX

Iris Retractor*

Disposable

10-5016-1

4 per box

POPULAR

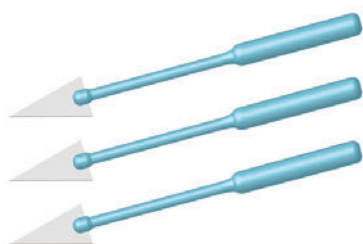
10-5067-1

5 per box

STERILE

2

PVA Spears



STERILE

2

180
PER
BOX

Compressed lint-free PVA spears ideal for controlling and absorbing fluid in and around the orbital area during cataract and refractive procedures

R2-40405*

*Not available in Europe

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

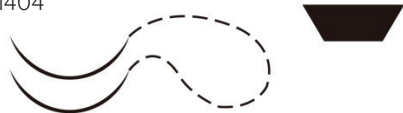
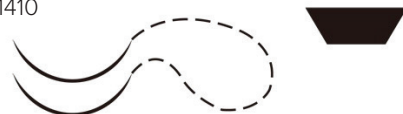


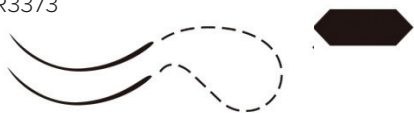
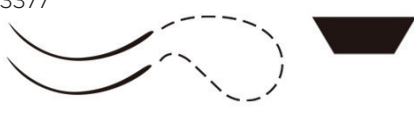

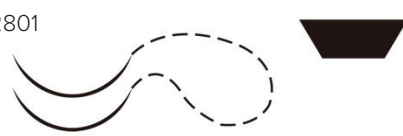

MANI OPHTHALMIC SUTURES*



The following list is for reference only.

The sutures are used depending on the surgeon's techniques and preference.

The sutures are supplied sterile in a box of 12.

| Item Number | Suture | | Needle | | | | | Main Application |
|---|---|--------|--------------------------------------|---------|-------------|----------|---------------------------------------|------------------|
| | Description | Length | Shape | Length | Curve | Diameter | | |
| 10-0 Nylon Black Mono Sutures | | | | | | | | |
| 22-R1404 |  | 30 cm | Trape Spatula | 5.5 mm | 7/16 (158°) | 0.14 mm | Cornea, Scleracornea, Sclera Flap | |
| 22-R1410 |  | 30 cm | Trape Spatula | 7 mm | 1/2 (180°) | 0.14 mm | Scleracornea | |
| 22-R1404S |  | 15 cm | Trape Spatula <i>Single-armed</i> | 5.50 mm | 7/16 (158°) | 0.14 mm | Scleracornea | |
| 22-R2002 |  | 30 cm | Trape Spatula | 6.50 mm | 3/8 (135°) | 0.20 mm | Scleracornea | |
| 5-0 Polyester Green Braided | | | | | | | | |
| 22-R3373 |  | 45 cm | Dia Spatula | 8 mm | 1/4 (90°) | 0.33 mm | Operations on Vitreous | |
| 5-0 Polyester White Braided | | | | | | | | |
| 22-R3377 |  | 45 cm | Trape Spatula | 8 mm | 1/4 (90°) | 0.33 mm | Operations on Vitreous | |
| 6-0 Silk Black Braided Sutures | | | | | | | | |
| 22-R3305 |  | 45 cm | Reverse Cut | 11 mm | 3/8 135° | 0.33 mm | Skin, Ocular Muscles | |
| 22-R2801 |  | 45 cm | Trape Spatula | 6.5mm | 3/8 135° | 0.28 mm | Skin, Ocular Muscles | |
| 8-0 PGA Absorbable Violet Braided Sutures | | | | | | | | |
| 22-R2090 |  | 30cm | Trape Spatula | 6.5mm | 3/8 135° | 0.20 mm | Conjunctiva, Sclera, Closing MVR Port | |

*For sale in the US only

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

DISPOSABLE CANNULAS

DISPOSABLE CANNULAS GAUGE CONVERSION CHART

A hub of each cannula has a color according to its gauge.
To learn more, please see the cannula gauge conversion chart below.

| Gauge | Inner Diameter | | Outer Diameter | | Color Code |
|-------|----------------|-----|----------------|------|------------|
| | In | mm | In | mm | |
| 19G | .028 | .70 | .043 | 1.10 | |
| 20G | .024 | .60 | .036 | .90 | |
| 21G | .020 | .51 | .032 | .80 | |
| 22G | .016 | .41 | .028 | .70 | |
| 23G | .013 | .33 | .025 | .60 | |
| 24G | .012 | .30 | .022 | .55 | |
| 25G | .010 | .25 | .020 | .50 | |
| 26G | .010 | .25 | .018 | .45 | |
| 27G | .008 | .20 | .016 | .40 | |
| 30G | .006 | .15 | .012 | .30 | |

DISPOSABLE CANNULAS*

ANESTHESIA CANNULAS

Used for anesthetic agents administration during ophthalmic surgeries.



Atkinson Retrobulbar Needle

21-R1125 25 Ga × 38 mm

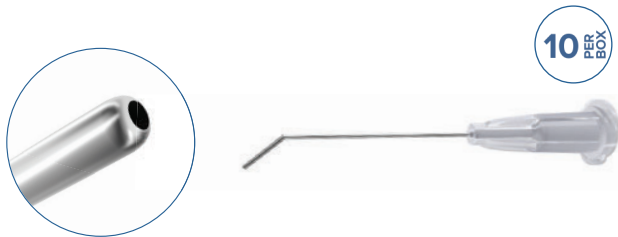


Sub-Tenon's Anesthesia Cannula

21-R1320 20 Ga × 25 mm **POPULAR**

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 angled tip

21-R2023 23 Ga × 22 mm

21-R2025 25 Ga × 22 mm

21-R2030 30 Ga × 22 mm **POPULAR**

8 mm angled tip

21-R2027-8 27 Ga × 22 mm

**MOST
POPULAR**



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

Used for maintaining and forming the anterior or posterior chamber by infusing or aspirating viscoelastic.

9 mm angled tip

21-R2225 25 Ga × 22 mm

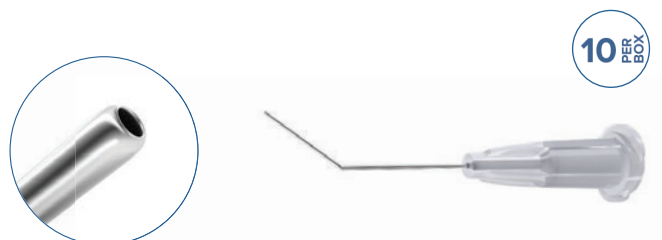
21-R2227 27 Ga × 22 mm

**POPULAR
MOST
POPULAR**

10 mm angled tip

21-R2323 23 Ga × 22 mm

21-R2327 27 Ga × 22 mm **POPULAR**



*Not available 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 angled tip

21-R4025 25 Ga × 22 mm

**MOST
POPULAR**

10 mm angled tip

21-R4027 27 Ga × 22 mm

**MOST
POPULAR**



Hydrodissector

Angled 32°,

Round smooth tip, 10 mm angled tip

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 available 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.

Lindstorm Lasik Irrigating Cannula

3 ports
Formed 7 mm
Smooth angle curvature allows for safe flap alignment

21-R7430 25 Ga × 25 mm



10
PER
BOX

LACRIMAL CANNULAS AND SETS

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



3
PER
BOX



3
PER
BOX

Retrieval Device



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

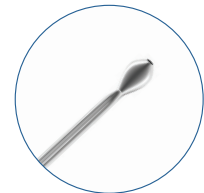
**MOST
POPULAR**

Lacrimal Intubation Set

Olive tip
Silicone tubing 35 cm
Stainless Steel probes

21-R7004 27 Ga × 11 cm probe

21-R7004RD 27 Ga × 11 cm probe
(with retrieval device)



3
PER
BOX



3
PER
BOX

DCR Set

Silicone tubing 30 cm
Stainless Steel probes

21-R7011 20 Ga × 45 mm probe, straight

21-R7012 20 Ga × 45 mm probe, angled
(shown)

Lacrimal Intubation Tubing

Silicone tubing 30 cm
ID – 0.30 mm
OD – 0.60 mm

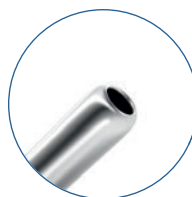
21-R7002 **MOST
POPULAR**

Lacrimal Cannulas

21-R7021 21 Ga × 33 mm

21-R7026 26 Ga × 28 mm

**MOST
POPULAR**



10
PER
BOX

*Not available 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.

**COMING
SOON**

This item will be available in RUMEX range soon



Disposable instruments



Available in a single-use edition



Available in Stainless Steel



Featured instrument in the set on page 100

**DON'T FORGET
TO BUY**

Frequently bought together



Quantity in the box

NEW

RUMEX continuously expands the range of instruments focusing on the latest surgical techniques.

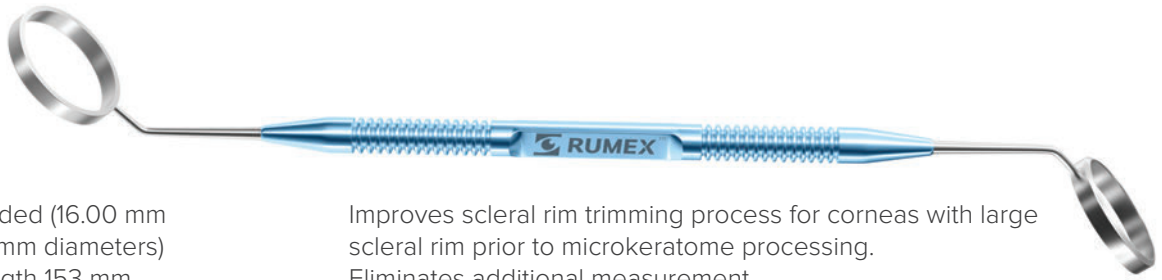
The latest portion of new products for corneal transplantation and cataract surgery has been designed in cooperation with **leading ophthalmic surgeons**.

The set of instruments developed by **Eric Abdullayev MD, USA** includes unique tools that will facilitate graft management and save its integrity.

Femtosecond and Ultrachopper fracturing methods can be easily completed with the help of an atraumatic prechopper invented by **Luis Escaf, MD, Colombia**.

The section also features the newest products such as a double cross-action capsulorhexis forceps with micro-thin jaws, the most delicate tool to enter a 1.50 mm incision, and LRI marker to be used without ink.

We are pleased to offer RUMEX FLUSHING SYSTEM as one of the latest innovative achievements that allows for efficient cleaning without disassembling and promotes longevity of instruments.

3-0230**Abdullayev Scleral Marker for Keratoplasty**

Double-ended (16.00 mm and 16.50 mm diameters)
Overall length 153 mm

Improves scleral rim trimming process for corneas with large scleral rim prior to microkeratome processing.
Eliminates additional measurement.

3-0231**Abdullayev Corneal Marker for Keratoplasty**

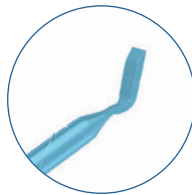
Double-ended (10.00 mm and 11.00 mm diameters)
With central marking point
Overall length 146 mm

Improves centration of cornea during DSAEK microkeratome preparation.
Allows quick placement of the central dot. Facilitates placement of the donor corneas on to the donor punch.

3-024T**Abdullayev I & II Marker**

(for DSAEK/DMEK Grafts)

Overall length 135 mm
Titanium



I & II marks do not interfere with vision.
Provides for more stable staining.
Allows to apply 1.50 mm straight I & II marks at the very edge of the graft.
Requires no additional tissue manipulation (no punch holes, no folding or unfolding of the graft).
Saves time during graft preparation.

**4-261S****Abdullayev DMEK Grasping Forceps**

Overall length 82 mm
Stainless Steel



Improved angle between grasping platform, the rest of the forceps allows relaxing hand position and more control when in use.
Horizontal thin grasping platforms provide more stability in membrane holding during separation.

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

4-033S

Small-Incision Capsulorhexis Forceps with Double Cross-Action and Scale

Cystotome tips
Micro-thin jaws
Flat handle
For 1.50 mm incisions
Overall length 105 mm
Stainless Steel

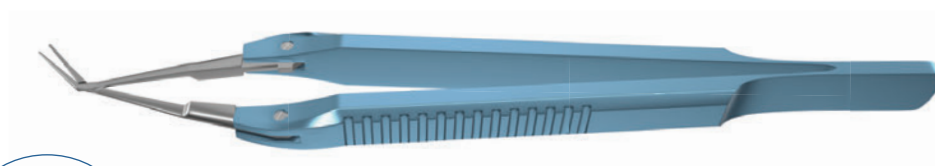


Cross-action prevents the hyperextension of the incision. Micro-thin jaws contribute to free movements in the anterior chamber. Sharp and delicate cystotome tips allow to make the first pinch easily. Tungsten carbide coating provides for better gripping.

4-0398

Cross-Action SMILE Forceps

Overall length 120 mm

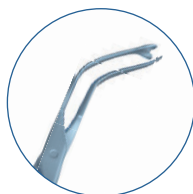
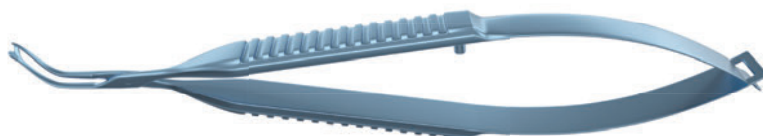


Cross-action prevents the hyperextension of the incision. Serrated jaw facilitates gripping of the lenticule during SMILE procedure.

4-260T

ARTISAN® Implantation Forceps

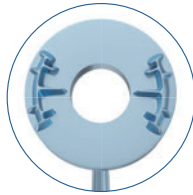
Overall length 100 mm
Titanium



Used for implantation of toric ARTISAN® IOL. Specially designed jaws help to fixate the lens optic during the enclavation.

3-183T**LRI Marker**

Intra-op
30, 45, and 60 degree marks
Overall length 121 mm
Titanium



Low-profile marker

Thin beveled blades on the rotatable head precisely place arcuate marks along the axis even without the use of ink.

3-204T**John DSAEK Double-Ended Marker**

8.00/9.00 mm
Overall length 143 mm
Titanium



Used to mark recipient and donor cornea at at 8.00 or 9.00 mm.
A circular mark on the recipient's cornea serves as a guiding mark for Descemetorhexis.

7-149S**Escaf Prechopper**

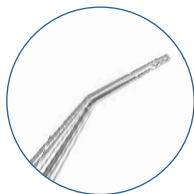
Straight
Round handle
Overall length 118 mm
Stainless Steel



Designed in cooperation with Dr. Escaf from Colombia. Used to complete breakdown after Femtosecond or Ultrachopper and fracture cataract with hardness less than 4+. Tolerates capsulorhexis smaller than 5.00 mm in diameter without injuring the capsule edges. Fits through 2.00 mm micro incision.

4-254S**Lambright-Abdullayev Ultrathin DSAEK Grasping/
Inserting Forceps**

Overall length 105 mm
Stainless Steel



Designed to improve insertion of the ultrathin DSAEK grafts especially with thickness 70 microns and less. Space between the tips is 120 microns to minimize compression and provide more safety for donor endothelial cells. Wave-shaped serration of grasping platforms on tips for nonslip insertion while allowing atraumatic forceps removal.

14-045T**Lancaster Eye Speculum**

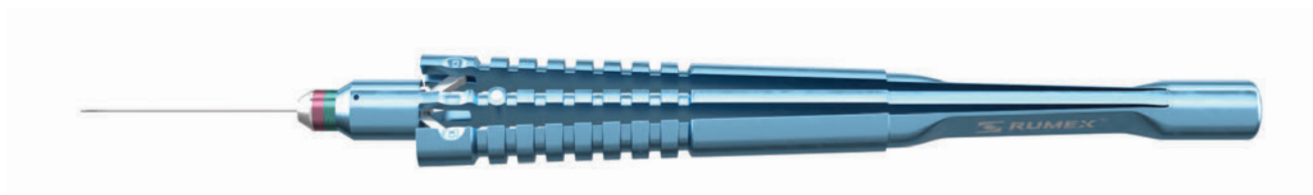
Adjustable Mechanism with Locking Nut

Spring-control with locking mechanism and stabilizing disk
Solid-shaped slightly curved blades fit orbital margin, keep eyelashes from the surgical area, and provide optimal view.

16.00 mm solid blades
Overall length 67 mm
Titanium



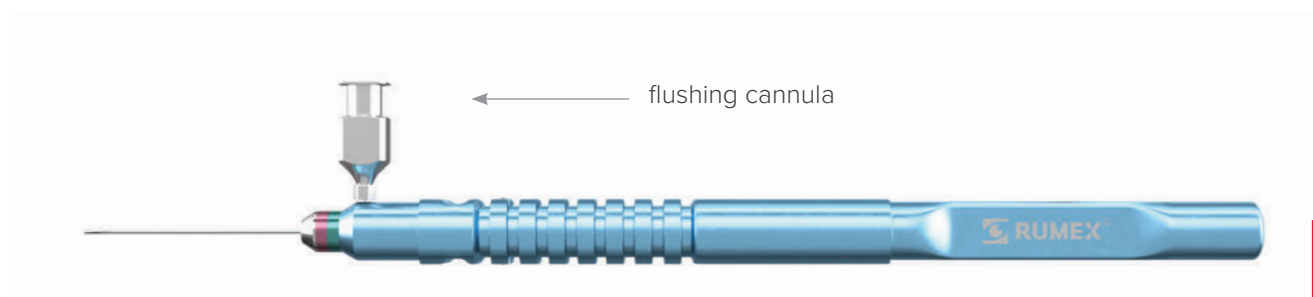
ONE-PIECE VITREORETINAL INSTRUMENTS WITH RUMEX FLUSHING SYSTEM



- The tip can be easily cleaned without disassembling
- Special flushing cannula is provided for free
- Color coding allows to identify the type and gauge of the instrument
- A wide range of tips available in 23 and 25 gauges

Please follow the cleaning instruction to increase the lifespan of the tool:

1. Insert the cannula into the flushing port as illustrated
2. Adjust a syringe to rinse with distilled water, alcohol, dry with air
3. Sterilize the instrument in the regular way



REUSABLE ANTERIOR INSTRUMENTS

| | |
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1 - BLADE HOLDERS

BLADE HOLDERS**Blade Holder**

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

1-010T **POPULAR**

**Bard Parker Handle**

Suitable for blades # 10, 11, 12, 15, 15C
 Flat serrated handle
 Overall length 125 mm
 Titanium or Stainless Steel

1-020S **MOST
POPULAR**



CALIPERS & GAUGES

CALIPERS & KERATOMETERS



Castroviejo Caliper

Measures from 0 to 20 mm.
Scale is engraved on both sides.
Polished finish
Overall length 87 mm
Titanium or Stainless Steel

2-010T 0-20.00 mm
2-010S 0-20.00 mm

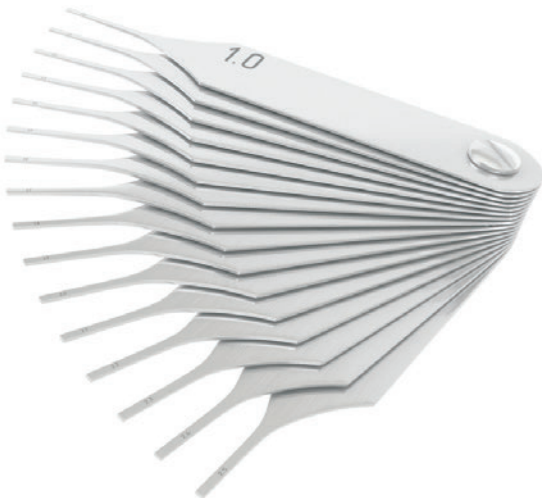


Adler Wound Gauge

Used to measure incision width and depth (peripheral to central dimension) of a corneal/limbal wound.

Dull finish
Diameter 30 mm
Titanium

2-064T 2.00-2.50 mm



RUMEX Internal Micro Incision Gauges

16 stainless steel blades
0.10 mm increments marks
Overall length 75 mm
Stainless Steel

2-062S 1.00-2.50 mm



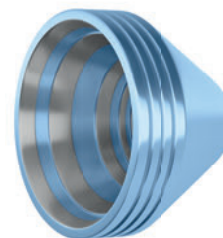
Braunstein Fixed Caliper

To make the mark for MVR blade entrance and intravitreal injections.
Marks the distance from limbus to sclera.
3.50/3.00 mm for aphakic and 4.00/3.50 mm for phakic eyes.

Overall length 80 mm
Titanium or Stainless Steel

2-101T 3.00/3.50 mm
2-100T 3.50/4.00 mm
2-100S 3.50/4.00 mm

**POPULAR
MOST
POPULAR**



Maloney Intraoperative Keratometer

For qualitative measurement of astigmatism
Diameter 32.00 mm
Overall length 23 mm

16-020T

2 - CALIPERS, GAUGES

GAUGES

Accurate axial alignment on the cornea

LRI Gauge

Used to determine incision angles.

Can be used with **3-090T Bores Axis Marker**.

Calibrated every 10 degrees from 0° to 180°.

With atraumatic fixation teeth

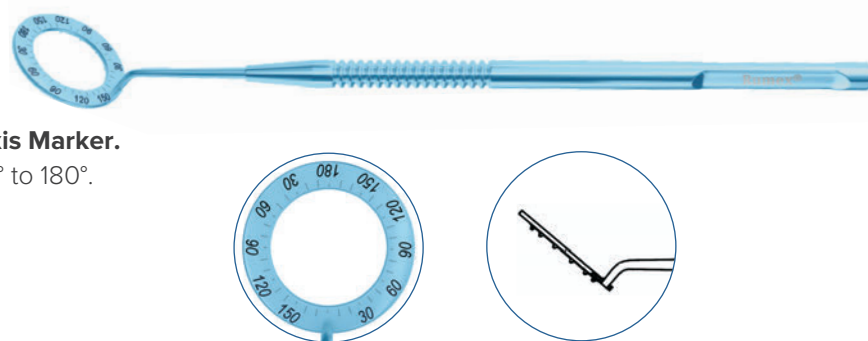
Dull finish

ID 13.00 mm/ED 19.00 mm

Overall length 134 mm

Titanium

2-031T



Mendez Degree Gauge

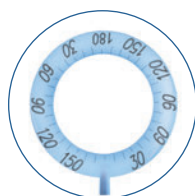
Used to determine incision angles.

Can be used with **3-090T Bores Axis Marker**.

Calibrated every 10 degrees from 0° to 180°.

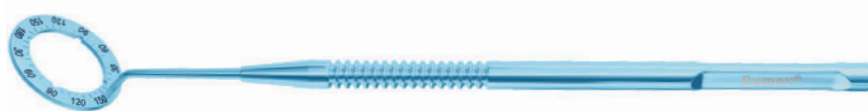
Dull finish

Titanium



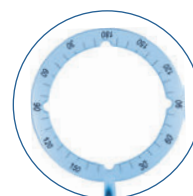
ID 13.00 mm/ ED 19.00 mm
Overall length 134 mm

2-030T **POPULAR**



With 4 grooves for better marks visualization
ID 13.00 mm/ ED 18.00 mm
Overall length 136 mm

2-033T



With 4 grooves for better marks visualization
ID 13.00 mm/ED 16.50 mm
Overall length 122 mm

2-0331T **POPULAR**

Mendez Grooved Fine Degree Gauge

Used to determine incision angles.

Can be used with **3-091T Bores Axis Marker**.

With 4 grooves for better marks visualization

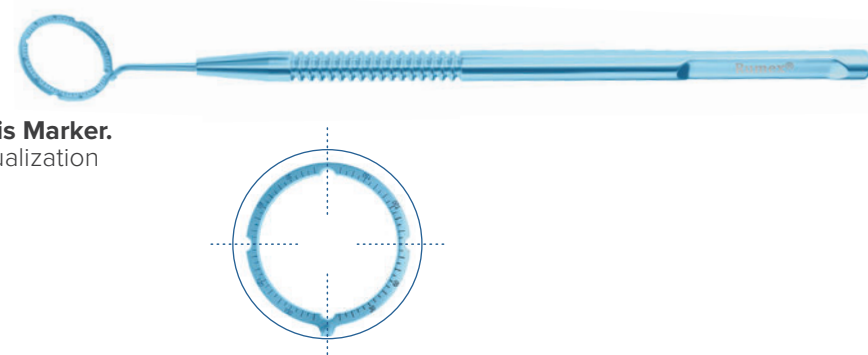
ID 12.00 mm /ED 14.00 mm

Dull finish

Overall length 133 mm

Titanium

2-036T **POPULAR**



Degree Gauge with Beveled Face

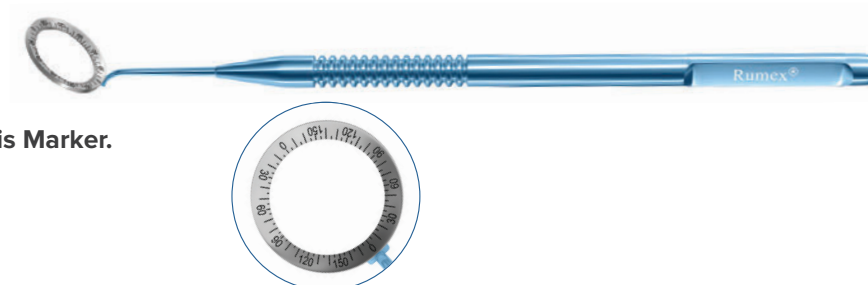
Can be used with **3-091T Bores Axis Marker**.

ID 12.00 mm/ED 16.00 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 123 mm

Titanium



3-090T **POPULAR**

Used with Gauges
2-030T, 2-031T,
2-033T, 2-0331T
to mark the axis.
12.00 mm blades

3-091T

Used with Gauges
2-034T, 2-036T
to mark the axis.
11.50 mm blades

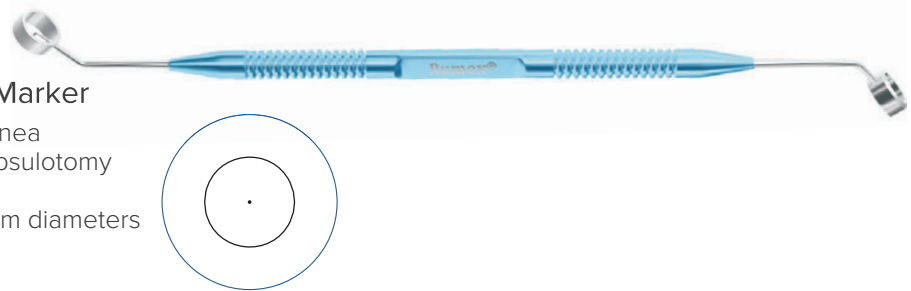
ECCE **PHACO**
p.152 **p.151**

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 diameters
Overall length 140 mm

3-040 **POPULAR**



CORNEAL TRANSPLANT MARKERS

Corneal Transplant Marker

7.00 mm ring with 8 radial blades
With center pointer
Overall length 123 mm
Titanium

3-140T



CORNEAL
p.156

3 - MARKERS

**Osher-Neumann
Corneal Marker**

Low profile
8 radial blades
Overall length 130 mm
Titanium

3-0304T

**NEW****John
DSAEK Double-Ended Marker**

8.00/9.00 mm
Overall length 143 mm
Titanium

3-204T

**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

3-0217T 8.00 mm
3-0218T 8.50 mm
3-0219T 9.00 mm
3-0220T 9.50 mm

**Abdullayev
Scleral Marker for Keratoplasty**

Double-ended
(16.00 mm and 16.50 mm diameters)
Overall length 153 mm

3-0230

Improves scleral rim trimming process for corneas with large scleral rim prior to microkeratome processing.
Eliminates additional measurement.

**NEW**DSEK DSAEK DMEK
p.157**Abdullayev
Corneal Marker for Keratoplasty**

Double-ended
(10.00 mm and 11.00 mm diameters)
With central marking point
Overall length 146 mm

3-0231

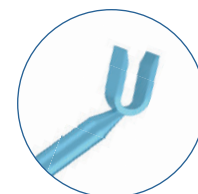
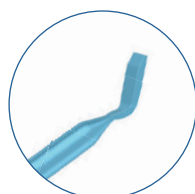
Improves centration of cornea during DSAEK microkeratome preparation.
Allows quick placement of the central dot. Facilitates placement of the donor corneas on to the donor punch.

**NEW**DSEK DSAEK DMEK
p.157**Abdullayev
I & II Marker
(for DSAEK/DMEK Grafts)**

Overall length 135 mm
Titanium

3-024T

I & II marks do not interfere with vision.
Provides for more stable staining.
Allows to apply 1.50 mm straight I & II marks at the very edge of the graft.
Requires no additional tissue manipulation (no punch holes, no folding or unfolding of the graft). Saves time during graft preparation.

**NEW**DSEK DSAEK DMEK
p.157

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

Overall length 141 mm

Titanium handle

3-034

ICRS
p.158



Tunnel Zone Marker

Marks tunnel for future ring position with initial lines for incisions.

ID 4.00 mm/ED 6.00 mm

Creates 2.00 mm lines.

40° angled to handle

Overall length 127 mm

Titanium

3-143T

ICRS
p.158



LASIK MARKERS

Lavery LASIK Marker

With an optical center sight

8.50 mm optical zone

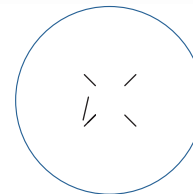
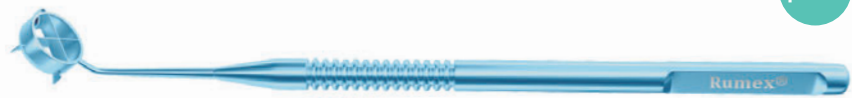
5 asymmetrical marking lines to ensure right placement of a corneal flap

Overall length 130 mm

Titanium

3-174T

LASIK
p.154



LASIK Flap Marker

3 asymmetrical marking lines to ensure right placement of a corneal flap

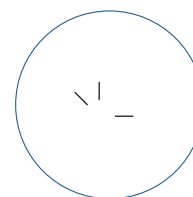
Designed both for nasal and superior hinge.

Overall length 130 mm

Titanium

3-176T **POPULAR**

FEMTOLASIK
p.154



TORIC IOL MARKERS

Toric IOL Marker

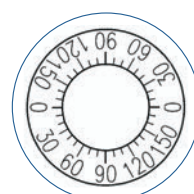
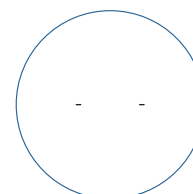
Designed for LRI/Toric IOL implantation.

Intra-Op

Overall length 130 mm

Titanium

3-181

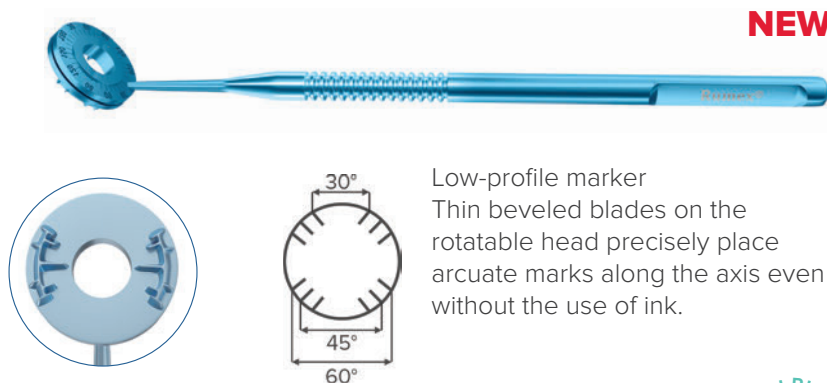


3 - MARKERS

LRI Marker

Intra-Op
30-45-60°
Overall length 121 mm
Titanium

3-183T

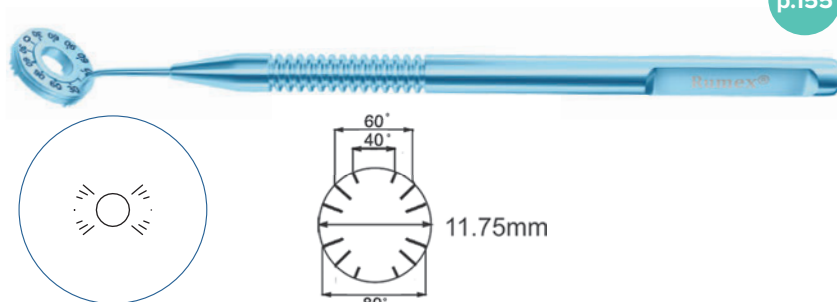


Low-profile marker
Thin beveled blades on the rotatable head precisely place arcuate marks along the axis even without the use of ink.

LRI
p.155**LRI Marker**

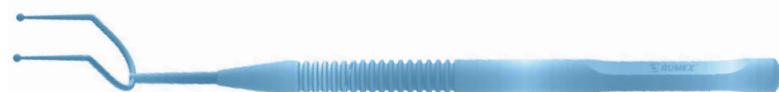
Intra-Op
Automatically creates marks at 40-60-80°.
Overall length 130 mm
Titanium

3-1801

**LRI Axis Marker**

Pre-Op reference marker
Horizontal axis 3' and 9'
Overall length 120 mm
Titanium

3-190T

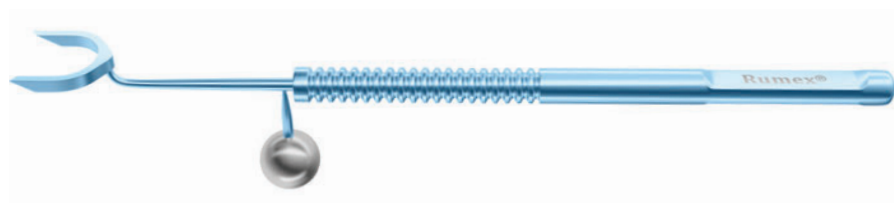
**LRI/TORIC MARKERS WITH GRAVITY WEIGHT SYSTEM**

Gravity weight system for precise stabilization of the scale not interfering with a grip

LRI Slit Lamp Gravity Marker

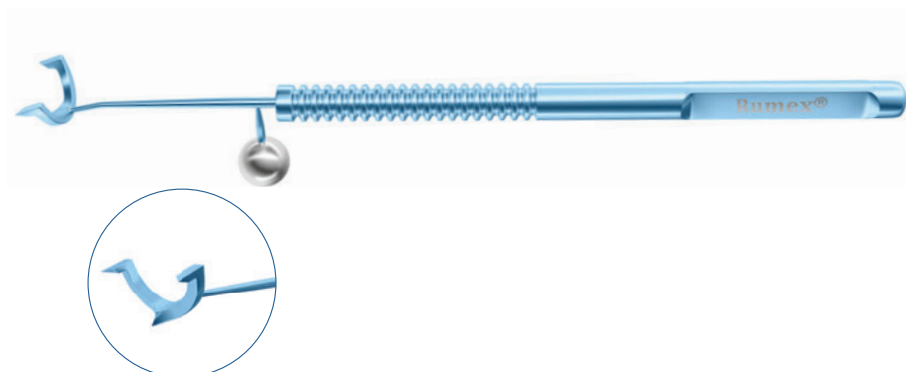
Pre-Op, 14.00 mm
Horizontal axis 3' and 9'
Overall length 138 mm
Titanium

3-191

**Lum LRI Gravity Axis Marker**

Pre-Op, 14.00 mm
Angled, horizontal axis 3' and 9'
Overall length 140 mm
Titanium

3-192

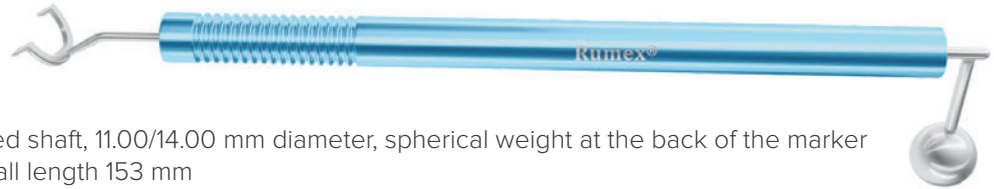


Product design and/or features that do not influence its functionality and main parameters are subject to change

Whitehouse Gravity Axis Marker

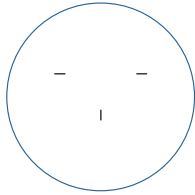
Marks the limbus at 3, 6 and 9 o'clock.
Helps to avoid the effect of cyclotortion.
Gravity weight system assures excellent visualization and balance.

Designed in
cooperation with
Geoff Whitehouse,
M.D., Australia



Angled shaft, 11.00/14.00 mm diameter, spherical weight at the back of the marker
Overall length 153 mm

3-193 **POPULAR**



Straight shaft, 11.00/14.00 mm diameter, spherical weight at the back of the marker
Overall length 152 mm

3-1931

Straight shaft, 9.50/12.00 mm diameter, cylindrical weight at the back of the marker
Overall length 153 mm

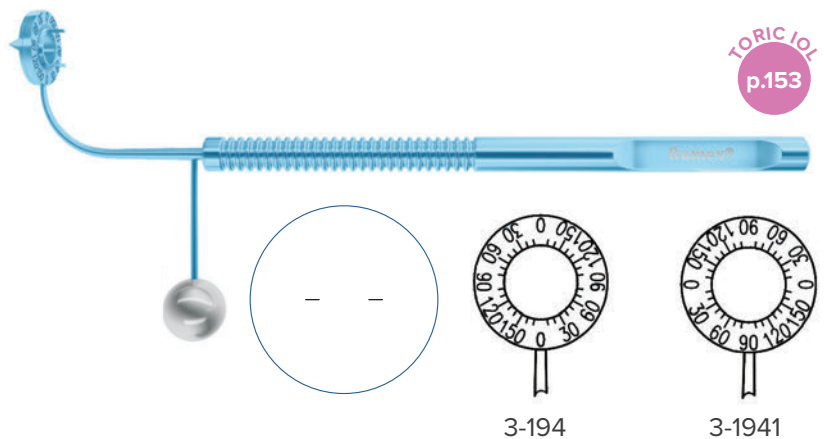
3-1932

RUMEX Toric Combo Marker

Marks both horizontal and toric axis
pre-operatively, which eliminates
an Intra-Op step.
Equipped with rotating ring for accurate
alignment.
Reduces cyclotorsion effect in supine
position.
Overall length 125 mm

3-194 Vertical axis

3-1941 Horizontal axis



TORIC IOL
p.153

3-194

3-1941

MARKING PENS

**DON'T FORGET
TO BUY**

STERILE

2

**10
PER
BOX**



Disposable Marking Pen

Double-ended

20-050

3 - MARKERS

MARKERS FOR LRI/IOL IMPLANTATION WITH GRAVITY WEIGHT SYSTEM

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

Velazquez Gravity Corneal Marker for LRI/Toric IOL Implantation

Overall length 164 mm

3-195

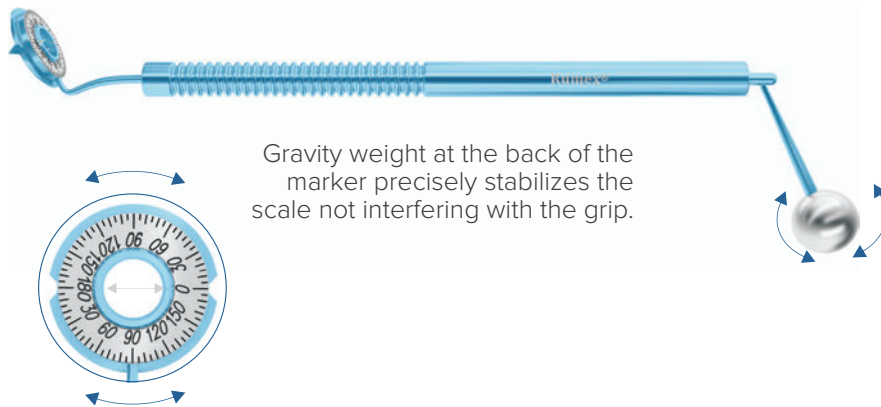
4 radial blades mark the horizontal and vertical meridians of the visual axis.

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.



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

Richman Single-Step Toric Marker

Designed to mark the desired axis of toric placement.

Angled shaft

Overall length 132 mm

3-196

**MOST
POPULAR**

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.

A wide central opening for better centration when marking.

A VARIETY OF CAPSULORHEXIS FORCEPS

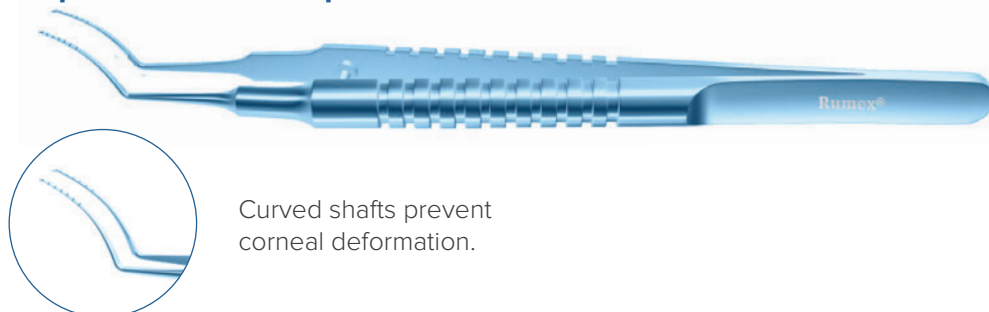
STANDARD

3.0 mm

4-03315T Utrata Capsulorhexis Forceps with Scale

Cystotome tips, TC*

Scale for measuring the size of capsulorhexis



Curved shafts prevent corneal deformation.

4-0331D Disposable Utrata Capsulorhexis Forceps

STERILE

2 6 PER BOX

MOST POPULAR

Cystotome tips



- ✓ Meets quality standards applied to reusable tools
- ✓ Always ready to use

SMALL-INCISION



Internal limiter prevents the jaws from opening wider than intended.

2.0 mm

4-0312S Microcoaxial Capsulorhexis Forceps with Alignment Mechanism

Cystotome tips, TC*

MOST POPULAR

Limited to 2.00 mm



4-032S Small-Incision Capsulorhexis Forceps with Limiter and Wide Opening

Cystotome tips, TC*

POPULAR

Scale for measuring the size of capsulorhexis

Limited to 2.00 mm



View-port for better visualization

*TC – Tungsten Carbide coating makes the platform rough enough for controlled gripping and prevents adhesion of the capsule. Product design and/or features that do not influence its functionality and main parameters are subject to change

SMALL-INCISION

1.5 mm

4-0395 Capsulorhexis Forceps with Cross-Action and Scale

MOST POPULAR

Cystotome tips, TC*



Scale for measuring the size of capsulorhexis



- ✓ Cross-action prevents hyperextension of the incision
- ✓ Hinge joints ensure even distribution of pressure at three points of forceps

4-033S Small-Incision Capsulorhexis Forceps with Double Cross-Action and Scale

Cystotome tips, TC*



Scale for measuring the size of capsulorhexis



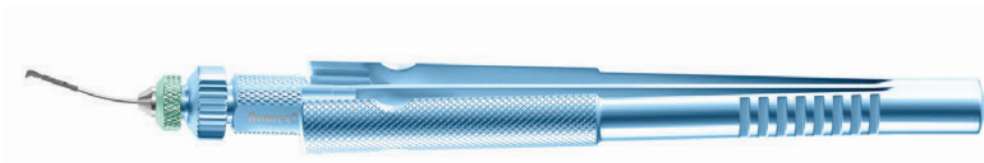
- ✓ Double cross-action guarantees fixed opening for free movements within the wound

MICS

sub 1.0 mm

4-03742 Lesieur Capsulorhexis Forceps with Internal Ruler

12-003T Universal Squeeze Handle



Scale for measuring the size of capsulorhexis



Cystotome tips

Anti-glare coating

- ✓ 23 Ga tube minimally disrupts biomechanics of cornea
- ✓ MICS tips are used with RUMEX Universal Handle and can be easily disassembled for cleaning after the surgery

FORCEPS

CAPSULORHEXIS FORCEPS

Tungsten carbide coated cystotome tips for better gripping

Utrata Capsulorhexis Forceps

11.50 mm jaws
Flat handle



Straight jaws
Regular tips
Titanium
Overall length 82 mm
4-030T



Straight jaws
Cystotome tips
Titanium
Overall length 82 mm
4-0300T **MOST POPULAR**

4-0300S
SS



Straight jaws
Cystotome tips
Titanium
Overall length 107 mm
4-0301T **MOST POPULAR**

4-0301S
SS

4-0321S
SS

Curved jaws
Cystotome tips
Titanium
Overall length 107 mm
4-0321T **MOST POPULAR**



Nevyas Capsulorhexis Forceps

Straight jaws, 11.50 mm
Cystotome triangular claw-shaped tips
Overall length 105 mm
Titanium
4-0352T

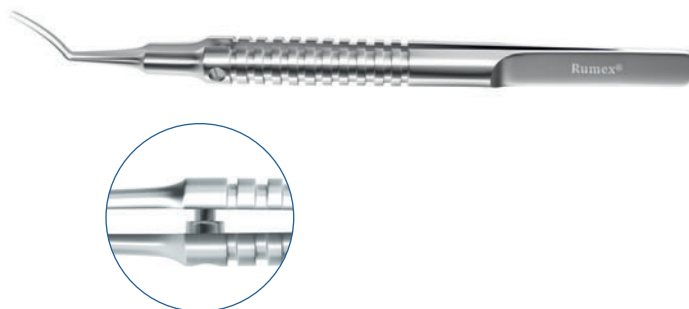


4 - FORCEPS

Microcoaxial Capsulorhexis Forceps with Limiter

Curved jaws, 11.50 mm
Cystotome tips
Ultra-thin profile and limiter for capsulorhexis even through 2.00 mm incision
Round handle
Overall length 106 mm
Stainless Steel

4-0312S

**MOST
POPULAR****Inamura Type RUMEX Capsulorhexis Forceps**

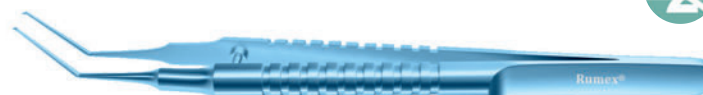
Designed to fit through incisions down to 2.00 mm.
Recommended for coaxial phacoemulsification.
Cross-action maintains alignment of tips, prevents leakage of viscoelastic from anterior chamber.
Curved jaws
Cystotome tips
Round handle
Overall length 115/117 mm
Stainless Steel

4-0391S jaws 10.00 mm, for corneal incision

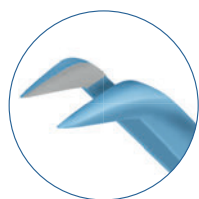
4-0392S jaws 12.00 mm, for scleral incision

**MOST
POPULAR
POPULAR****Utrata Capsulorhexis Forceps**

11.50 mm jaws
Round handle
Titanium
Overall length 110 mm

A-0311D
2

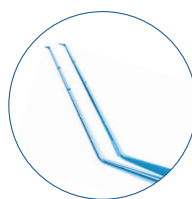
4-03114T, 4-03115T, 4-03314T, 4-03315T
Engravings for precise measurement inside the anterior chamber

A-0311S
SS

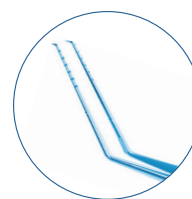
Straight jaw
Cystotome tips
4-0311T



Straight jaws
Regular tips
4-031T

**MOST
POPULAR**

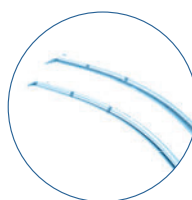
Straight jaws
Cystotome tips, with ruler
2 engravings at 3,6 mm
4-03114T

A-03115S
SS

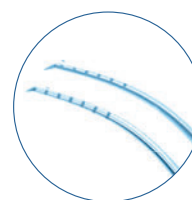
Straight jaws
Cystotome tips, with ruler
6 engravings at 1,2,3,4,5,6 mm
4-03115T

POPULARA-0331S
SSA-0331D
2

Curved jaws
Cystotome tips
4-0331T

**MOST
POPULAR**A-03314S
SS

Curved jaws
Cystotome tips, with ruler
2 engravings at 3,6 mm
4-03314T

POPULARA-03315S
SS

ECCE PHACO
p.152 p.151

Curved jaws
Cystotome tips, with ruler, 6 engravings
at 1,2,3,4,5,6 mm
4-03315T

POPULAR

Small-Incision Capsulorhexis Forceps

Curved micro-thin jaws
Cystotome tips
With limiter
For 2.00 mm incisions
Flat handle
Overall length 105 mm
Stainless Steel

4-032S **POPULAR**



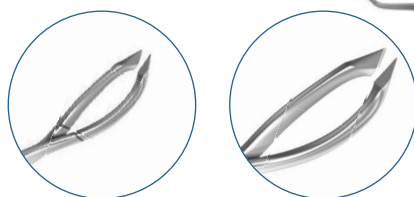
PHACO
p.151

Small-Incision Capsulorhexis Forceps with Double Cross-Action and Scale

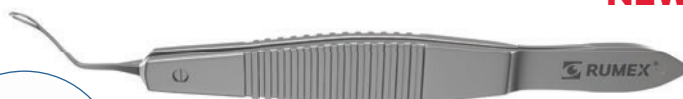
Micro-thin jaws with fixed opening contribute to free movements in the anterior chamber

Micro-thin jaws
Cystotome tips
Flat handle
For 1.50 mm incisions
Overall length 105 mm
Stainless Steel

4-033S



NEW



PRECHOP
p.151

MICS
p.151

Cross-Action Capsulorhexis Forceps with Scale

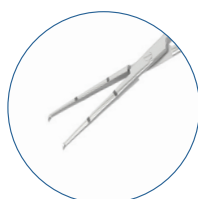
Cross-action prevents the viscoelastic leakage and protects the incision from hyperextension

Jaws 8.50 mm
Scale of 2.50 mm, 5.00 mm from the tip
For 1.50 mm incisions
Overall length 110 mm

Hinge joints allow for enhanced durability and even distribution of pressure at three points of the tool



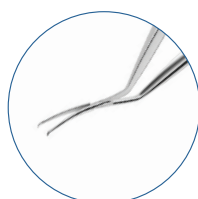
Curved Stainless Steel



Flat Handle,
Titanium

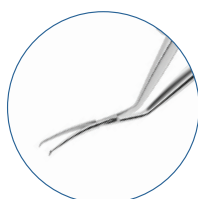
4-0395

**MOST
POPULAR**



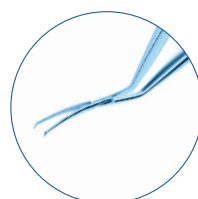
Round Handle,
Titanium

4-0394



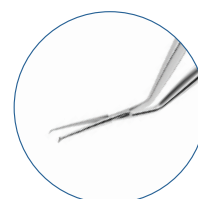
Flat Handle,
Stainless Steel

4-0395S



Curved Jaws,
Titanium
Flat Titanium Handle

4-0395T



Straight Jaws,
Stainless Steel
Flat Titanium Handle

4-0396

FORCEPS FOR LASER-ASSISTED SURGERY

Forceps for Femtosecond Laser Cataract Procedure

Special blunt-ended tips
Cross-action facilitates quick and safe incision opening.
Ultrathin delicate tips are safe for the wound edges.
Flat handle
Overall length 108 mm
Stainless Steel

4-0582S



FEMTOCATARACT
p.153

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

4 - FORCEPS

MICS CAPSULORHEXIS FORCEPS

Micro jaws, 0.80 mm incision

Exquisite gripping function

Anti-glare matte finishing

Stiff and flexible Stainless Steel tube

**Kershner
One-Pinch Capsulorhexis Forceps**

Curved shaft
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T



4-03731* 23 Ga
For high vacuum phaco



4-03741* 23 Ga **POPULAR**
Micro jaws
Reduced length of the
branches for better
maneuverability in the anterior
chamber during capsulorhexis

**Capsulorhexis Forceps
with Micro Jaws and Internal Ruler**

The internal laser marks allow to measure
the size of rhexis.

Curved shaft
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



4-0374



4-0375

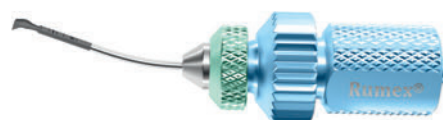
**Lesieur
Capsulorhexis Forceps with Internal Ruler**

Shorter jaws facilitate gripping the capsule
close to the wound.

Gently curved and short 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

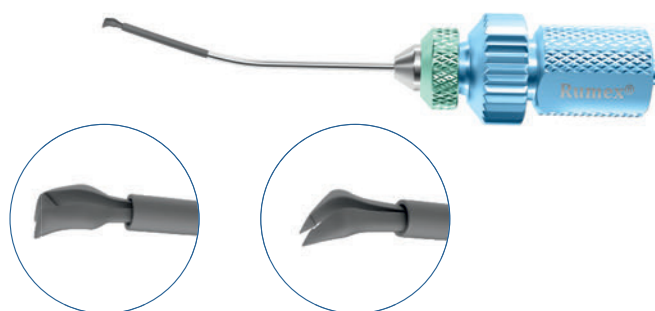


*Tip only. Handles are sold separately.

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

Ikeda Capsulorhexis Forceps

Curved shaft
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



Fine-Ikeda
Capsulorhexis
Forceps with Micro
Jaws, 23 Ga

4-03751* 23 Ga

Ikeda Micro
Capsulorhexis Forceps, 23
Ga

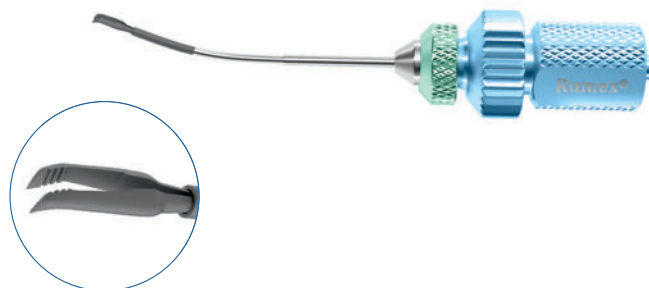
4-03761* 23 Ga

MICS
p.151

Kawai Capsulorhexis Forceps

Curved tapered elongated 23/25 Ga shaft
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

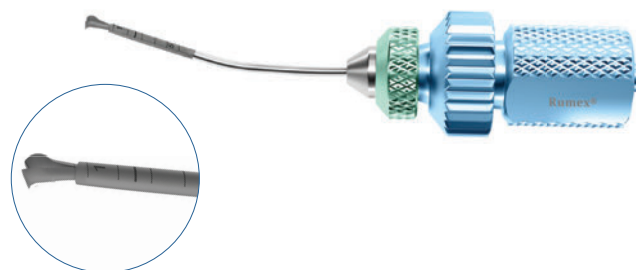
4-03771* 23/25 Ga



Capsulorhexis Forceps with View Port

7 engravings at 1,2,2.5,3,4,5,6 mm
for perfect sizing of the rhexis
Reduced length, gently curved tube
Cystotome tips
With fixation wheel
Compatible with Squeeze Handle 12-003T

4-03791* 23 Ga



*Tip only. Handles are sold separately.

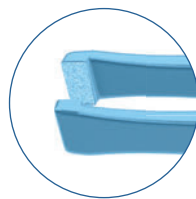
Product design and/or features that do not influence its functionality and main parameters are subject to change

4 - FORCEPS

CILIA FORCEPS

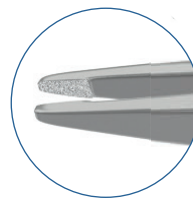
Cilia

Smooth jaws
Flat handle



Wide forceps
Overall length 85 mm
Titanium

4-043T **POPULAR**



Narrow forceps
Overall length 86 mm

4-042T Titanium **POPULAR**

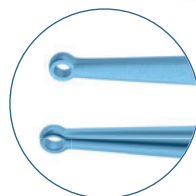
4-042S Stainless Steel

CONJUNCTIVA FORCEPS

Fechtner
Conjunctiva Forceps

Delicate ring tip jaws
Flat handle
Overall length 108 mm
Titanium

4-2301T **MOST
POPULAR**



A-2301S
SS

LID AND CHALASION FORCEPS

Desmarres
Chalazion Forceps

Solid lower plate, open upper plate
Locking thumb screw mechanism
Flat handle
Overall length 96/90/92 mm
Titanium

4-1906T Large size 31.00×17.40 mm (shown)
4-1907T Small size 19.80×10.40 mm
4-1912T Medium size 24.00×16.00 mm

**POPULAR
POPULAR
POPULAR**



**CHALAZION
p.161**

4-1907S
SS

4-1912S
SS

Lambert
Chalazion Forceps

Round solid lower plate, open upper plate
Locking thumb screw mechanism
Flat handle
Overall length 92/97 mm
Titanium

4-1908T Small, 8.00 mm ID of the upper plate
4-1909T Medium, 12.00 mm ID of the upper plate (shown)

**MOST
POPULAR**



**CHALAZION
p.161**

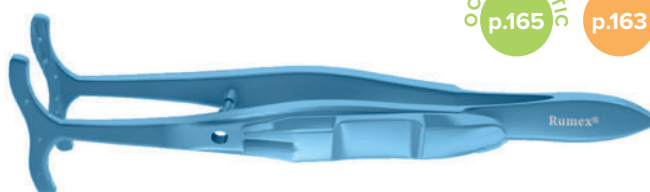
4-1908S
SS

4-1909S
SS

Putterman
Lid Clamp

6 Pins
Serrated jaws
Sliding lock
Overall length 100 mm
Titanium

4-140T **POPULAR**



**OCULOPLASTIC
p.165**

**LID
p.163**

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

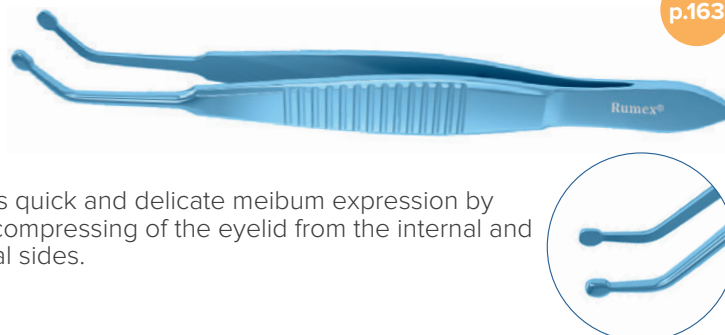
COMPRESSING LID FORCEPS

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.

Compressing Lid Forceps

Designed for mechanical meibum removal.
Curved
Flat handle
Overall length 112 mm
Titanium

4-1913T **MOST
POPULAR**

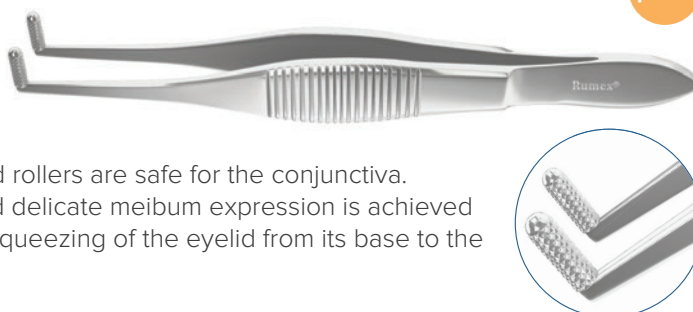


Obtains quick and delicate meibum expression by equal compressing of the eyelid from the internal and external sides.

Compressing Lid Forceps with Atraumatic Rollers

Designed for mechanical meibum removal.
Flat handle
Overall length 107 mm
Stainless Steel

4-124S **POPULAR**



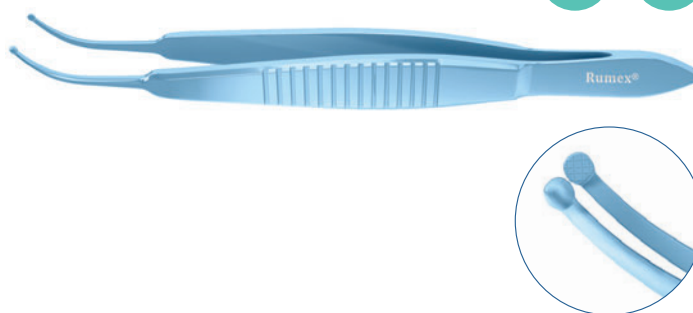
Texturized rollers are safe for the conjunctiva. Quick and delicate meibum expression is achieved by even squeezing of the eyelid from its base to the margin.

LASIK FLAP FORCEPS

LASIK Flap Forceps

Specially designed for LASIK.
For atraumatic corneal flap lifting and holding
Blunt, circle-shaped tips
Criss-cross serrations on the jaws
Curved shafts
Flat handle
Overall length 108 mm
Titanium

4-2206T



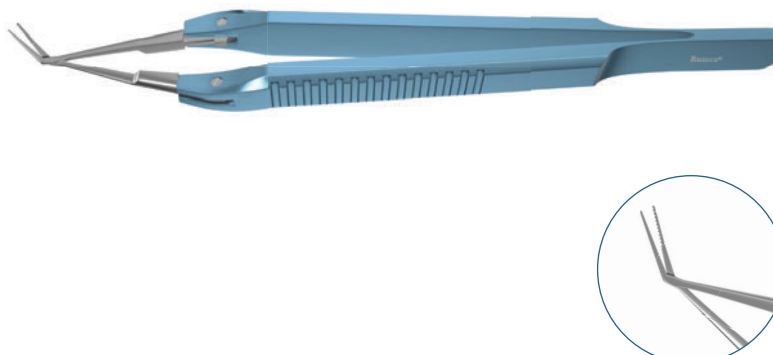
SMILE FORCEPS

Cross-Action SMILE Forceps

Cross-action prevents the hyperextension of the incision.
Serrated jaw facilitates gripping of the lenticule during SMILE procedure.

Flat handle
Overall length 120 mm

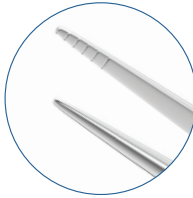
4-0398



4 - FORCEPS

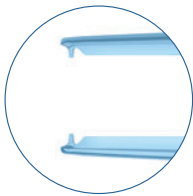
SMILE FORCEPS**Stodulka Forceps for Small-Incision Lenticule Extraction**

Designed to grasp the lenticule and remove it from the corneal pocket. Composite surface of the tips (texturized and serrated) ensures the efficient grasping of the lenticule.
Angled
Flat handle
Overall length 100 mm
Stainless Steel

4-2012S **POPULAR****ICRS FORCEPS****Forceps for ICRS Implantation**

0.20 mm 1x1 teeth
0.30 mm groove
Flat handle
Overall length 85 mm
Titanium

4-2144T

ICRS
p.158**CORNEAL FORCEPS**

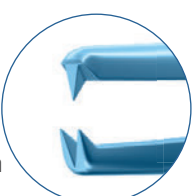
Tungsten carbide coated platform for an even greater grip and increased control

Colibri Corneal Forceps

5.00 mm tying platform
Flat handle

4-050S
SS4-0504S
SS4-0501S
SS

Colibri
1x2 teeth 0.12 mm
Titanium
Overall length 84 mm
4-050T **MOST POPULAR**



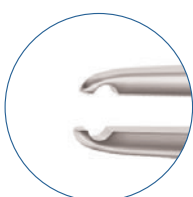
Colibri-Bonn
1x2 teeth 0.12 mm
Titanium
Overall length 77 mm
4-0504T **MOST POPULAR**



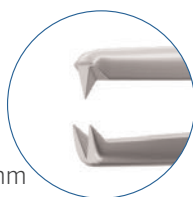
Colibri
1x2 teeth 0.12 mm
Titanium
Overall length 77 mm
4-0501T **MOST POPULAR**



Micro Colibri
1x2 teeth 0.12 mm
Titanium
Overall length 73 mm
4-0505T **MOST POPULAR**



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



Colibri-Bonn
1x2 teeth 0.12 mm
Stainless Steel
Overall length 84 mm
4-0503S **MOST POPULAR**

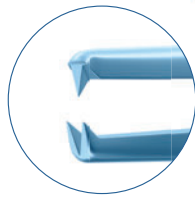
Product design and/or features that do not influence its functionality and main parameters are subject to change

Tungsten carbide coated platform for an even greater grip and increased control

Colibri Corneal Forceps

Bonn type 1x2 teeth, 0.12 mm
Tying platform, 5.00 mm
Flat handle
Overall length 115 mm
Titanium

4-053T



Castroviejo Colibri Corneal Forceps

1.2 teeth, 0.12 mm
Tying platform, 5.00 mm
Flat handle
Overall length 107 mm
Titanium

4-0541T



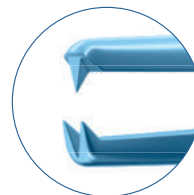
Colibri Corneal Forceps

1x2 teeth, 0.12 mm
Tying platform, 5.00 mm
Round handle
Overall length 109 mm
Titanium

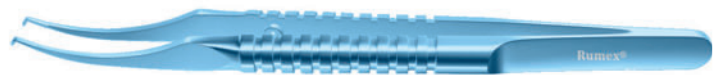
4-054T Regular tips
4-0540T Bonn type tips



4-054T



4-0540T



Corneal Forceps

5.00 mm tying platform
Titanium



Catalano
Round handle
Overall length 105 mm

1x2 teeth 0.12 mm
4-055T **POPULAR**

1x2 teeth 0.30 mm
4-056T

1x2 teeth 0.50 mm
4-057T

A-055S
SS



Bonn-Catalano
1x2 teeth 0.12 mm
Round handle
Overall length 105 mm
4-0551T **POPULAR**

A-0551D
2

A-0551S
SS



Bonn
1x2 teeth 0.12 mm
Flat handle
Overall length 94 mm
Medium size
4-058T **MOST POPULAR**

A-058S
SS

Bonn
1x2 teeth 0.12 mm
Flat handle
Overall length 72 mm
Small size
4-059T

CORNEAL TRANSPLANTATION FORCEPS

Florakis Endothelial Forceps

Designed to assist in the removal of endothelium from the host cornea.
Reversed triangular tips, angled 75°
Flat handle
Overall length 103 mm
Stainless Steel

4-246S

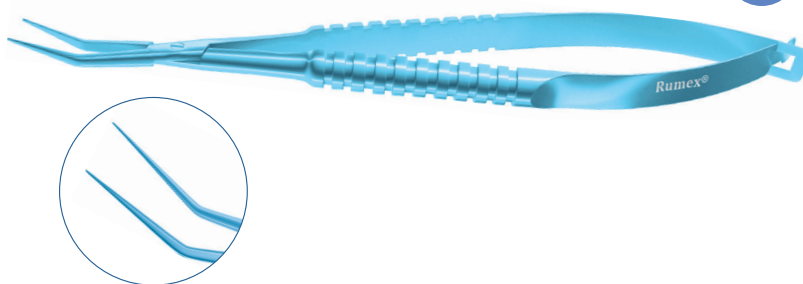


DSEK, DSAEK, DMEK
p.157

Corneal Donor Insertion Forceps

Designed for atraumatic insertion of the donor lamella folded in a taco shape.
30° angled, 18.00 mm tip
Round handle
Overall length 125 mm
Titanium

4-2019T

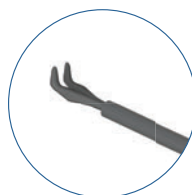


DSEK, DSAEK, DMEK
p.157

Florakis Microinvasive Endothelial Forceps

Designed to assist in the removal of endothelium from the host cornea.
With fixation wheel
Compatible with Squeeze Handle 12-003T

4-247* 23 Ga



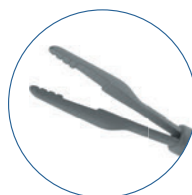
DSEK, DSAEK, DMEK
p.157

Forceps for Corneal Endothelium Implantation

For inserting the donor button with the pull-through technique
Provides for security of corneal stromal layer.
Compatible with Squeeze Handle 12-003T

Can be used for SMILE lenticule extraction.

4-034* 23 Ga



DSEK, DSAEK, DMEK
p.157

Guell DMEK Forceps

Highly polished broad tips allow to peel the endothelial membrane safely without risk of tearing.
Overall length 103 mm
Stainless Steel

4-240



DSEK, DSAEK, DMEK
p.157

*Tip only. Handles are sold separately.

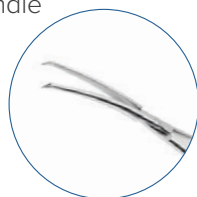
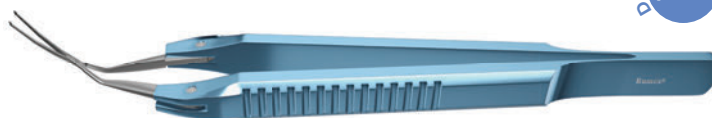
Product design and/or features that do not influence its functionality and main parameters are subject to change



Cross-Action DMEK Forceps

Overall length 110 mm

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



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

Lambright-Abdullayev

Ultrathin DSAEK Grasping/Inserting Forceps

NEW

Flat handle
Overall length 105 mm
Stainless Steel

4-254S



Designed to improve insertion of the ultrathin DSAEK grafts especially with thickness 70 microns and less. Space between the tips is 120 microns to minimize compression and provide more safety for donor endothelial cells. Wave-shaped serration of grasping platforms on tips for nonslip insertion while allowing atraumatic forceps removal.

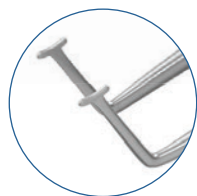
Abdullayev

DMEK Grasping Forceps

NEW

Flat handle
Overall length 82 mm
Stainless Steel

4-261S



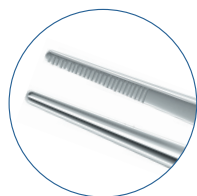
Improved angle between grasping platform, the rest of the forceps allows relaxing hand position and more control when in use. Horizontal thin grasping platforms provide more stability in membrane holding during separation.

DRESSING FORCEPS

Dressing Forceps with Delicate Serrations

Straight serrated tips, 6.00 mm
Round handle
Overall length 108 mm
Stainless Steel

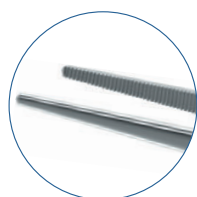
4-070S **POPULAR**



Dressing Forceps with Delicate Serrations

Serrated tips, 12.00 mm
Flat handle
Overall length 100 mm
Stainless Steel or Titanium

4-071S **MOST POPULAR**
4-072T **MOST POPULAR**



4-071S

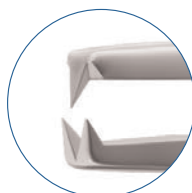
4-072T

4 - FORCEPS

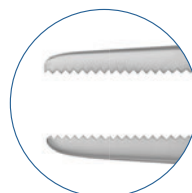
FIXATION FORCEPS**Adson
Fixation Forceps with Teeth**

Ideal for plastic & reconstructive surgery
Flat handle
Overall length 124 mm
Stainless Steel or Titanium

| | | |
|---------|--------------------|----------------|
| 4-0741S | 1x2 teeth, 0.50 mm | POPULAR |
| 4-0741T | 1x2 teeth, 0.50 mm | |
| 4-0740T | Serrated tip | |
| 4-0740S | Serrated tip | |



4-0741S



4-0740S

CORNEAL **DLEK**
p.156 p.158

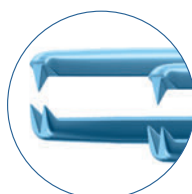
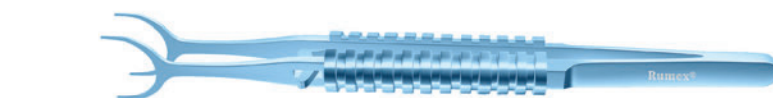
**Polack
Corneal Transplant Fixation Forceps**

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 **POPULAR****Nevyas-Wallace
Fixation Forceps**

Two point fixation
13.00 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
Flat handle
Overall length 109 mm
Titanium

4-0822T **POPULAR****Lester
Fixation Forceps**

Straight tips
6.00 mm platforms
2x3 teeth
Flat handle
Overall length 105 mm
Stainless Steel

4-0832S



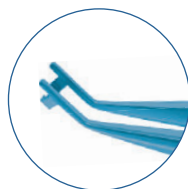
LENS INSERTERS

Steinert

Paddle Lens Folding Forceps

Angled shafts
Flat handle
Overall length 110 mm
Titanium

4-2107T



PHACO
p.151

ECCE
p.152

4-2107S
SS

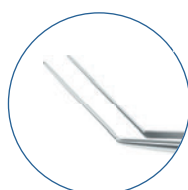
Faulkner

Lens Holding Forceps

Angled shafts
Smooth jaws
Flat handle
Overall length 105 mm
Stainless Steel

4-2108S

**MOST
POPULAR**

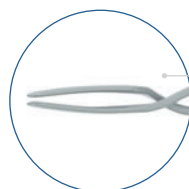


McDonald

Inserting Forceps for Silicone Lens

Concave jaws, 5.00 mm
Cross-action
Flat handle
Overall length 107 mm
Stainless Steel

4-2113S



topside view



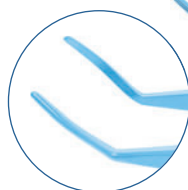
ECCE
p.152

Acrylic Lens Insertion Forceps

Flat handle
Overall length 105 mm
Titanium

4-2132T

**MOST
POPULAR**



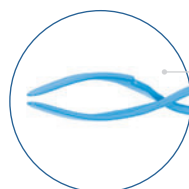
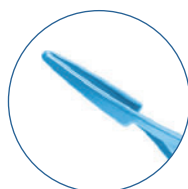
4-2132S
SS

Akahoshi

Forceps for Acrylic Lens

Thin and smooth jaws, 7.00 mm
Jaws open up to 5.50 mm
Cross-action
Flat handle
Overall length 108 mm
Titanium

4-2138T



topside view



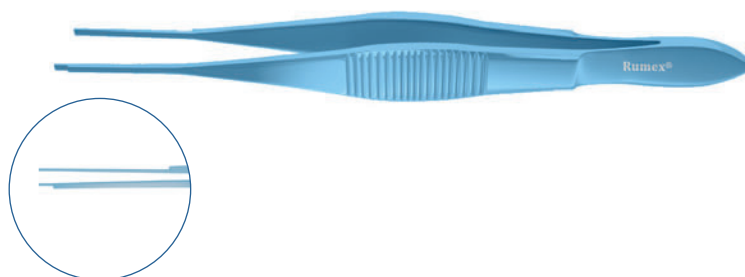
4 - FORCEPS

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
Flat handle
Overall length 109 mm
Titanium

4-2141T

**IOL Grasping Forceps**

Designed to reach and hold the IOL optic and haptic.
Curved shaft
Sand-blasted surfaces for efficient gripping
Fenestrated jaws for better visualization and haptic manipulation
With fixation wheel
Compatible with Squeeze Handle 12-003T

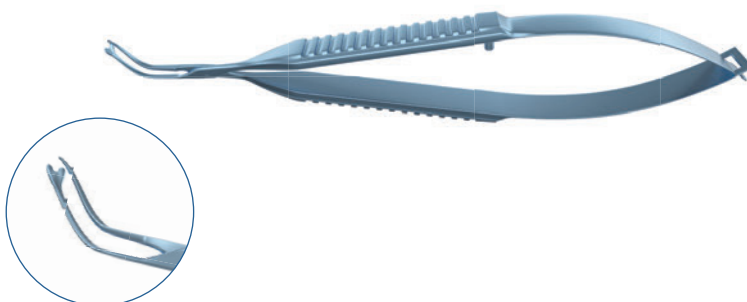
4-2145* 21 Ga

**ARTISAN® Implantation Forceps**

Used for implantation of toric ARTISAN® IOL.
Specially designed jaws help to fixate the lens optic during the enclavation.

Flat handle
Overall length 100 mm
Titanium

4-260T

**IOL REMOVING INSTRUMENTS****Rowen Rescue Kit for Foldable Lens Removal****Rowen Rescue Kit Forceps**

Crocodile type intraocular forceps for foldable lens removal
To remove silicone or acrylic IOL in case of complications
Curved shaft
Compatible with Squeeze Handle 12-003T

4-2150* 19 Ga **MOST POPULAR****Rowen Rescue Kit Scissors**

Intraocular scissors for foldable lens removal
To remove silicone or acrylic IOL in case of complications
Curved shaft
Compatible with Squeeze Handle 12-003T

4-2151* 18 Ga **POPULAR**

*Tip only. Handles are sold separately.

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

Micro Foldable Lens Cutter

Intraocular scissors for foldable lens removal

To remove silicone or acrylic IOL in case of complications

Blades with notches

Curved shaft

Compatible with Squeeze Handle 12-003T

4-2173* 19 Ga



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.

Flat squeeze Titanium handle

Overall length 113 mm

4-21731 **MOST POPULAR**



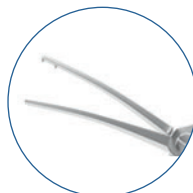
RUMEX Foldable Lens Removing Forceps

Designed to grasp and remove all types of foldable intraocular lenses through a small incision.

Flat squeeze Titanium handle

Overall length 114 mm

4-21741 **POPULAR**



Osher IOL Scissors

To cut silicone or acrylic IOL in case of complications

8.50 mm blades with serrations to fixate the lens

Flat handle

Overall length 91 mm

Stainless Steel

4-2175S **POPULAR**



*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

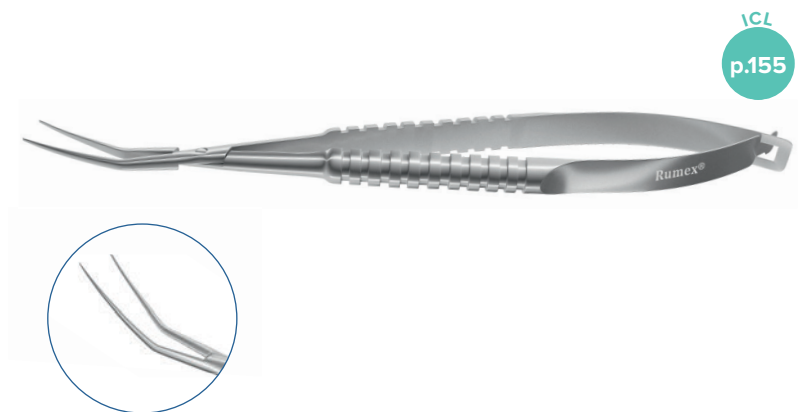
ICL FORCEPS**ICL™
Cartridge Loading Forceps**

Designed to remove the ICL from the container and push it inside the cartridge.
Angled 30° long jaws
Round handle
Overall length 120 mm

4-20111T Titanium

4-20111S Stainless Steel

ICL™ - registered trademark of STAAR®

**ICL™
Coaxial Angled ICL™ Loading
Forceps**

Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening.

Straight shaft

Non rotatable

With fixation wheel

Compatible with Squeeze Handle 12-003T

4-21431* 20 Ga

ICL™ - registered trademark of STAAR®

**Zaldivar-Kraff ICL™ Pacman Forceps**

Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening.

Atraumatic ridges and the gentle curve at the tips to grasp the ICL® without damage.

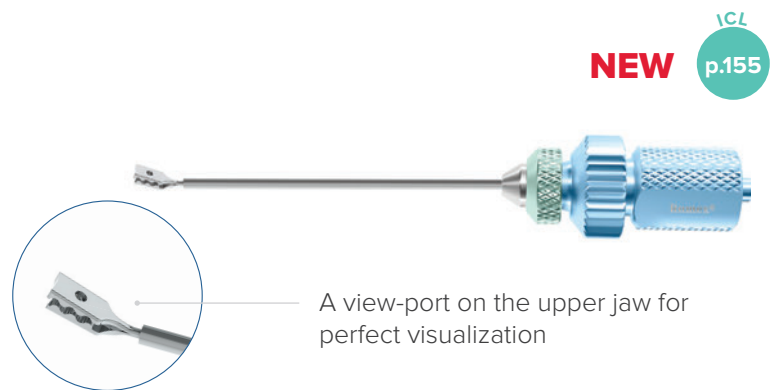
Straight shaft, angled tips

With fixation wheel

Compatible with Squeeze Handle 12-003T

4-21432* 20 Ga

ICL™ - registered trademark of STAAR®



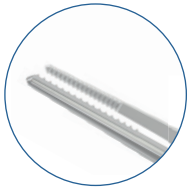
*Tip only. Handles are sold separately.

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

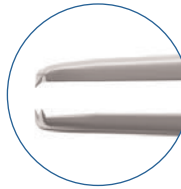
IRIS FORCEPS

Iris Forceps

Flat handle
Overall length 72 mm
Stainless Steel



Straight shafts
Fine serrated tips
Delicate serrations
4-100S



1x2 Delicate teeth, 0.06 mm

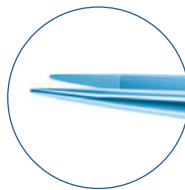
4-101S Straight shaft (shown) **POPULAR**
4-102S Curved shaft

JEWELER FORCEPS

Jeweler #5 Forceps

Pointed tips
Tying platform 6.00 mm
Straight jaws
Flat handle
Overall length 110 mm
Titanium

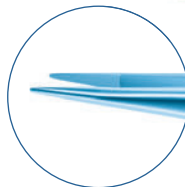
4-111T **MOST
POPULAR**



Jeweler #3C Forceps

Pointed tips
Tying platform 6.00 mm
Straight jaws
Flat handle
Overall length 110 mm
Titanium

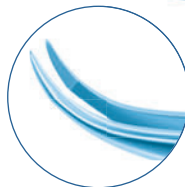
4-113T **MOST
POPULAR**



Jeweler #7 Forceps

Pointed tips
Tying platform 6.00 mm
Curved jaws
Flat handle
Overall length 110 mm
Titanium

4-115T



4 - FORCEPS

HEMOSTATIC FORCEPS AND SERREFINES

Hartman
Hemostatic Mosquito Forceps

Serrated jaws
Ring handle
Overall length 90 mm
Stainless Steel

4-120S Straight (shown)
4-121S Curved

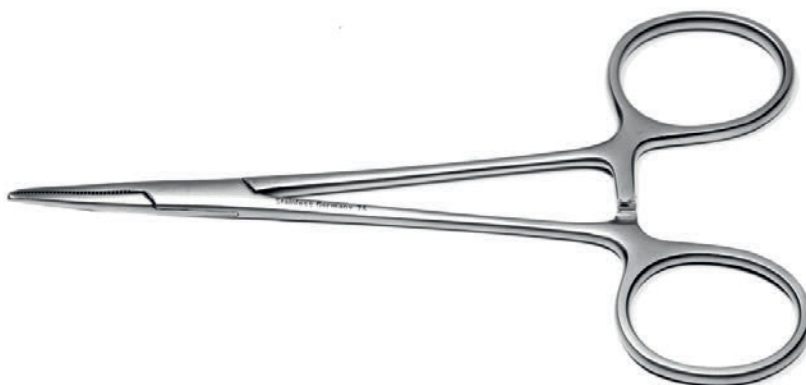
**MOST
POPULAR**

Halsted
Hemostatic Mosquito Forceps

Serrated jaws
Ring handle
Overall length 125 mm
Stainless Steel

4-122S Straight (shown)
4-123S Curved

**MOST
POPULAR**



Serrefine

Straight
Stainless Steel

16-090S Large size
Overall length 55

**MOST
POPULAR**

16-092S Small size
Overall length 35



MUSCLE FORCEPS

Jameson
Muscle Forceps

11.00 mm from tip to angle
6.00 teeth
Slide lock
Overall length 100 mm
Stainless Steel

4-130S Left **POPULAR**
4-131S Right (shown) **POPULAR**



MUSCLE
p.164

MUSCLE
p.1644-0600D
2**Superior Rectus Forceps**

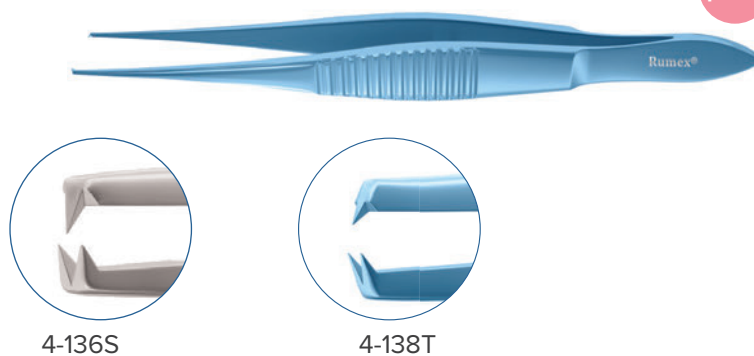
1x2 teeth, 0.50 mm
Flat handle

Osher

Angled shafts
10.00 mm from tip to angle
Overall length 106 mm
Stainless Steel

4-136S**Elsching**

Straight shafts
Overall length 108 mm
Titanium

4-138T**SUTURING FORCEPS**

Tying platform hard-faced with tungsten carbide coating for even greater grip and increased control over the tissue and suturing materials

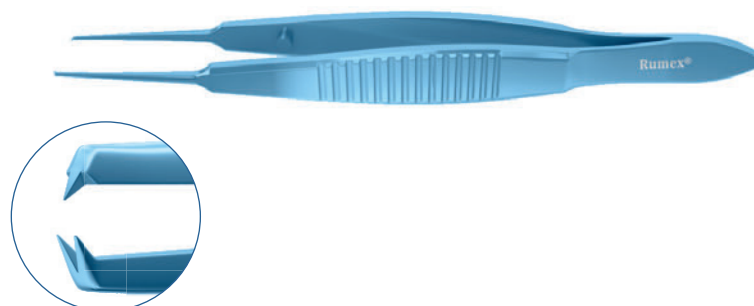
Castroviejo Suturing Forceps

Tying platform, 6.00 mm
Flat handle
Overall length 110/108/108 mm

| | |
|----------------|--------------------|
| 4-0600S | 1x2 teeth, 0.12 mm |
| 4-0600T | 1x2 teeth, 0.12 mm |
| 4-0601S | 1x2 teeth, 0.30 mm |
| 4-0601T | 1x2 teeth, 0.30 mm |
| 4-0602S | 1x2 teeth, 0.50 mm |
| 4-0602T | 1x2 teeth, 0.50 mm |

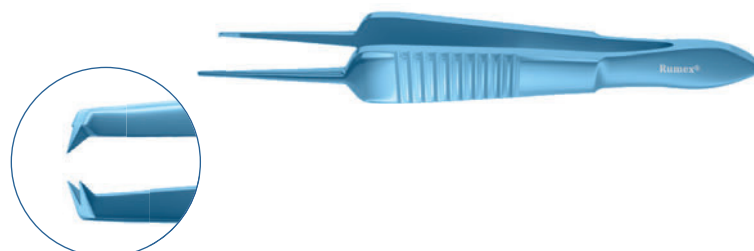
**MOST
POPULAR****POPULAR**

Titanium or Stainless Steel

**Paufigue Suturing Forceps**

1x2 teeth, 0.50 mm
Tying platform, 6.00 mm
Flat handle
Overall length 87 mm

4-0606T Titanium (shown)
4-0606S Stainless Steel

**Bishop-Harmon Suturing Forceps**

1x2 teeth, 0.30 mm
Tying platform, 5.00 mm
Flat handle
Overall length 87 mm
Stainless Steel

**4-0607S MOST
POPULAR****Moorfields Suturing Forceps**

For gripping the tissue, conjunctiva
and Tenon's capsule
Grooved section, 14.00 mm
Flat handle
Overall length 110 mm
Titanium

4-2303T POPULAR

4 - FORCEPS

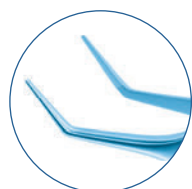
TYING FORCEPS

Tying platform hard-faced with tungsten carbide coating for even greater grip and increased control over both tissue and suturing equipment

Kelman-McPherson
Tying Forceps

for 8-0 to 11-0 sutures

Flat handle

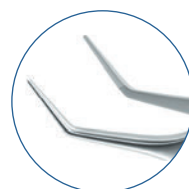


Tying platforms, 4.00 mm
Overall length 81 mm
Titanium

4-090T **POPULAR**

Tying platforms, 10.00 mm
Overall length 86 mm
Titanium

4-092T



Tying platforms, 8.00 mm
Overall length 84 mm
Stainless Steel

4-091S **MOST
POPULAR**

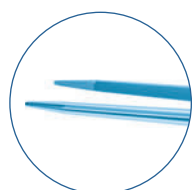
Tying platforms, 10.00 mm
Overall length 86 mm
Stainless Steel

4-092S

McPherson
Tying Forceps

for 8-0 to 11-0 sutures

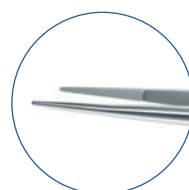
Flat handle



Straight
Tying platforms, 4.00 mm
Overall length 84 mm

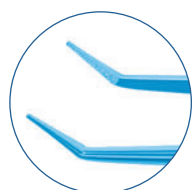
4-171T Titanium (shown)
4-171S Stainless Steel

**MOST
POPULAR
POPULAR**



Straight
Tying platforms 7.00 mm
Overall length 110 mm
Stainless Steel

4-178S **MOST
POPULAR**



Angled, Titanium
Tying platform, 6.00 mm
Overall length 102 mm

4-173T **POPULAR**

Tying platform, 8.00 mm
Overall length 103 mm

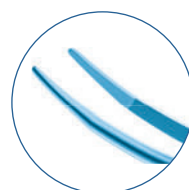
4-174T **POPULAR**

Tying platform, 10.00 mm
Overall length 104 mm

4-175T

Tying platform, 12.00 mm
Overall length 106 mm

4-176T



Curved
Tying platforms, 4.00 mm
Overall length 109 mm
Titanium

4-177T

Catalano
Tying Forceps

Curved

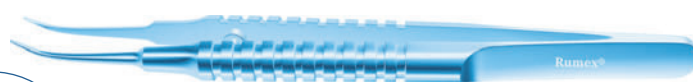
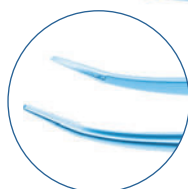
V-groove tying platform, 6.00 mm

Round handle

Overall length 106 mm

Titanium

4-182T



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

Tying platform hard-faced with tungsten carbide coating for even greater grip and increased control over both tissue and suturing equipment

Tennant Tying Forceps

For 9.00 to 11.00 sutures

Extra delicate smooth jaws

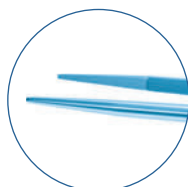
Tying platform, 6.00 mm

Round handle

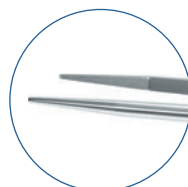
Overall length 108/107/107 mm

Titanium or Stainless Steel

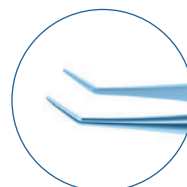
| | | |
|---------|------------------|---------------------|
| 4-185T | Straight (shown) | POPULAR |
| 4-185S | Straight | POPULAR |
| 4-1851T | Angled | MOST POPULAR |
| 4-186S | Curved | MOST POPULAR |



4-185T



4-185S



4-1851T



4-186S

Intraocular Tying Forceps

Designed for intraocular suturing.

With fixation wheel

Compatible with Squeeze Handle

12-003T

4-1891* 23 Ga



MICS

UTILITY FORCEPS

Bonaccolto Utility Forceps

Longitudinal atraumatic serrations, 15.00 mm

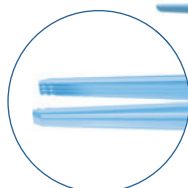
Cross serrations at tips

Flat handle

Overall length 100 mm

Titanium

4-2300T **MOST POPULAR**



4-2300S
SS

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.

Flat cross-action handle

Overall length 110 mm

Titanium

4-2201T



TOWEL CLAMPS AND FORCEPS

Schaedel Towel Clamp

Flat handle

Overall length 90 mm

Stainless Steel

16-080S

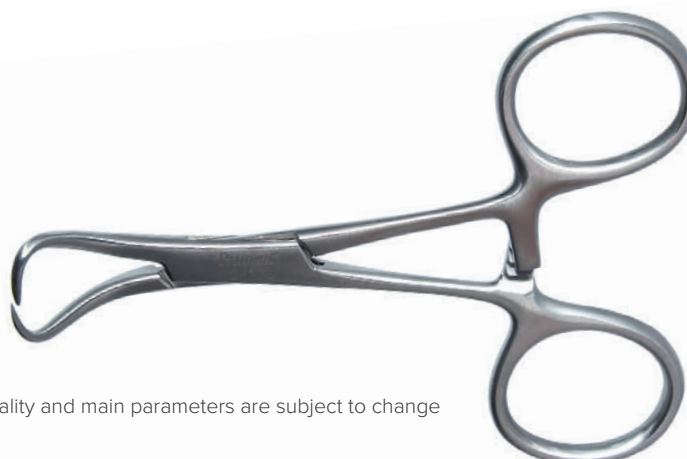
Towel Forceps

Ring handle

Overall length 125 mm

Stainless Steel

16-081S **MOST POPULAR**



*Tip only. Handles are sold separately.

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

5 - HOOKS

HOOKS

INTRAOCULAR LENS HOOKS

Stainless Steel hooks with an ergonomic light-weight round Titanium handle



Lewicky Lens Manipulating Hook

Angled, 10.00 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
5-0301 Straight

**MOST
POPULAR**



RUMEX Lens Manipulator

Angled, 10.00 mm from tip to angle
0.18 mm diameter shaft
Button-shaped 0.45 mm tip
Overall length 122 mm

5-031 **POPULAR**



Sinskey Lens Manipulating Hook

Angled
0.15 mm diameter tip
Overall length 121/122 mm

5-032 Angled
5-0321 Straight

**MOST
POPULAR**



Reversed Sinskey Scoring Hook for Endothelial Keratoplasty

Angled, 10.00 mm from tip to angle
0.15 mm diameter tip
Overall length 117 mm

5-0322 **POPULAR**



Lester Lens Manipulator

Hourglass-shaped 0.20 mm tip
Overall length 124/122 mm

5-033 Straight
5-0331 Angled

**MOST
POPULAR**



Bechert Nucleus Rotator

Angled, 10.00 mm from tip to angle
"Y"-shaped tip
Overall length 121 mm

5-034 **MOST
POPULAR**



Fenzl Lens Manipulating Hook

Angled, 10.00 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

Ensure safety of extraocular muscles

Jameson Muscle Hook

Flat hook
Bulbous tip

2.00 mm tip, 9.50 mm hook
Overall length 135 mm

5-040 Standard **MOST
POPULAR**

1.50 mm tip, 8.00 mm hook
Overall length 128 mm

5-0401 Small



MUSCLE
p.164 5-040S
SS



MUSCLE
p.164 5-041S 5-042S
SS SS

Graefe Muscle Hook

Flat hook

1.00 mm tip, 8.00 mm hook
Overall length 135 mm

5-041 Size 1 **MOST
POPULAR**

1.50 mm tip, 10.00 mm hook
Overall length 140 mm

5-042 Size 2 **MOST
POPULAR**

5 - HOOKS

**Scobee
Oblique Muscle Hook**

Curved shaft
4.50 mm flat hook
Overall length 136 mm

5-061 **POPULAR**

**Stevens
Tenotomy Hook**

6.00 mm flat hook
Overall length 120 mm

5-062 **POPULAR**

**Rychwalski Muscle Hook
with Groove**

1.80 mm tip
12.20 mm hook
Overall length 140 mm

5-046

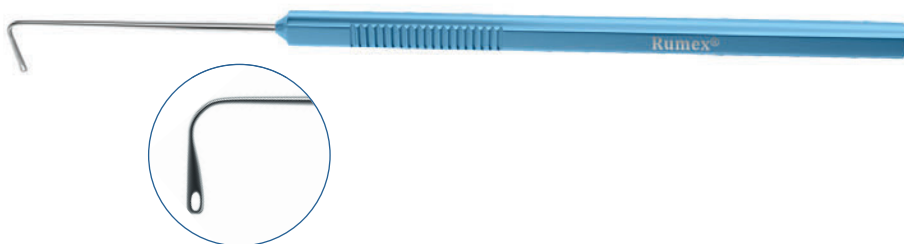
**RETINAL DETACHMENT HOOKS**

Stainless Steel hook with an ergonomic light-weight flat serrated Titanium handle

**Gass
Retinal Detachment Hook**

13.00 mm flat hook
1.50×0.70 mm hole
Overall length 140 mm

5-060 **MOST
POPULAR**

**IRIS HOOKS****Iris Hook**

1.00 mm
Angled
Overall length 121 mm

5-020



DIAMOND KNIVES

Extreme sharpness of the blades

Potentially reduced risk of wound leak

Minimal pressure

Predictable cuts and architecture of the wound for more consistent healing

up to 3000
INCISIONS

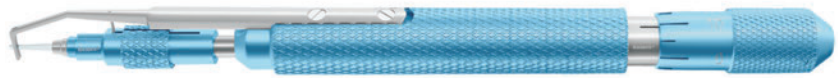


ICRS
p.158

ASTIGMATIC KERATOTOMY AND ICRS

ICRS Knife

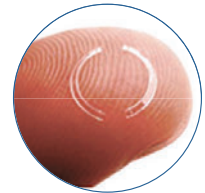
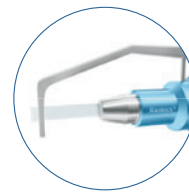
Micrometer Titanium handle
Overall length 110 mm



ICRS

1.00 mm

Designed for implantation of intrastromal corneal ring segments (ICRS).
Performs a 1.00 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

**MOST
POPULAR**

Arcuate

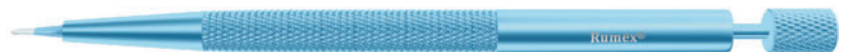
1.00/0.20 mm
Tapered blade

6-00/6-030



UNIVERSAL SIDE-PORT KNIVES

Used for paracentesis.
Straight Titanium handle
Overall length 110 mm



POPULAR

45° Single Edge
1.00 mm

6-10/6-050



45° Single Edge
0.60 mm

6-10/6-0501



30° Single Edge
1.00 mm

6-10/6-051



45° Double Edge
1.00 mm

6-10/6-052



Trifacet
1.00 mm

6-10/6-053

POPULAR



20° Trifacet
1.00 mm

6-10/6-0531



60° Lancet
1.00 mm

6-10/6-070



60° Lancet
0.80 mm

6-10/6-0701



Multi-Incision
1.00 mm

6-10/6-076



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

6 - DIAMOND KNIVES



ANGLED PHACO KNIVES

Used for tunnel incision.
Angled Titanium handle
Overall length 130 mm



GLAUCOMA
p.159

Clear Cornea Blades

6-20/6-071 – 2.50 mm
6-20/6-072 – 2.80 mm
6-20/6-073 – 3.00 mm
6-20/6-074 – 3.20 mm
6-20/6-075 – 2.20 mm
6-20/6-081 – 2.30 mm
6-20/6-077 – 2.75 mm
6-20/6-078 – 2.70 mm

Facet-Free Crescent Knives

6-20/6-091 – 1.50 mm
6-20/6-092 – 2.00 mm

PHACO
p.151

Self-Diving Trapezoid Blades

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

POPULAR



Profile of the incision directed

Used for micro incision.
Angled Titanium handle
Overall length 130 mm



ICL
p.155

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

MICS
p.151

Zaldivar Knife for ICL Implantation

0.55/1.00 mm
Designed for ICL™ implantation.
Can be used for other incisions:
side port, clear cornea, scleral tunnel.

6-20/6-0551 **POPULAR**



LRI KNIVES

LRI
p.155

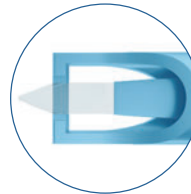


Universal Three-Step Knife for Cataract and LRI Surgery

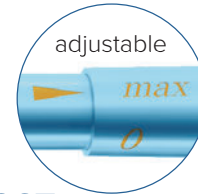
Precise, easy and stable calibration mechanism with 3 preset depths of 500, 550 and 600 microns. Full extension is for side-port incision. Overall length 130 mm



Single footplate for better visualization
20° Trifacet Blade
0.20 – 1.00 mm



6-322/6-0531



**MOST
POPULAR**

Pre-Set LRI Knives

Pre-Set LRI Knives

Can be used with a slit lamp.
Short Titanium handle
Overall length 78 mm

6-500S/6-0531

Preset depth 500 microns

6-600S/6-0531

Preset depth 600 microns



Pre-Set LRI Knives

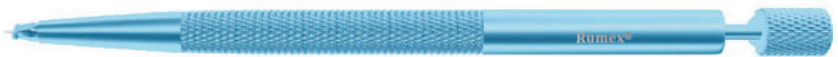
Long Titanium handle
Overall length 110 mm

6-500/6-0531

Preset depth 500 microns

6-600/6-0531

Preset depth 600 microns



**DON'T FORGET
TO BUY**

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



**MOST
POPULAR**

SAPPHIRE KNIVES

SAPPHIRE KNIVES

Low pressure

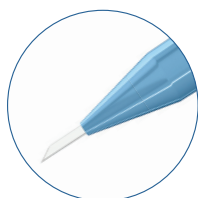
Accurate cuts

Consistent healing

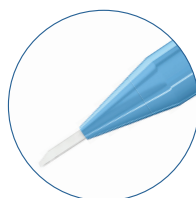


UNIVERSAL SIDE-PORT KNIVES

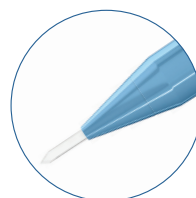
Overall length 136 mm



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



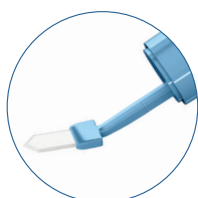
Trifacet Blade
1.00 mm
6-10/6SK-053



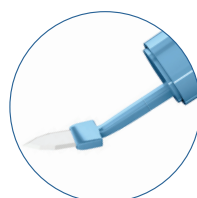
60° Double Edge Lancet Blade
1.00 mm
6-10/6SK-070

PHACO KNIVES

Overall length 135 mm

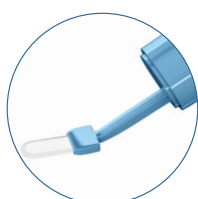


Clear Cornea Blades
6-20/6SK-072 – 2.80 mm
6-20/6SK-075 – 2.20 mm
6-20/6SK-080 – 2.65 mm

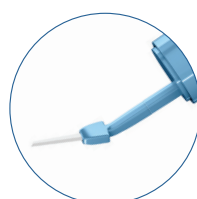


Self-Diving Trapezoid Blades
6-20/6SK-145 – 1.80/2.20 mm
6-20/6SK-146 – 1.80/2.40 mm
6-20/6SK-147 – 1.80/2.90 mm

POPULAR



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



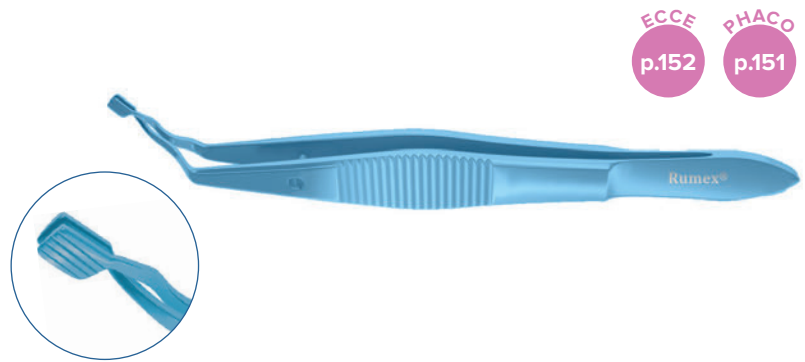
Zaldivar Knife for ICL Implantation
6-20/6SK-0551 – 0.55/1.00 mm

PHACO INSTRUMENTS

Ernest Nucleus Cracker

Cross-action
Flat handle
Overall length 106 mm
Titanium

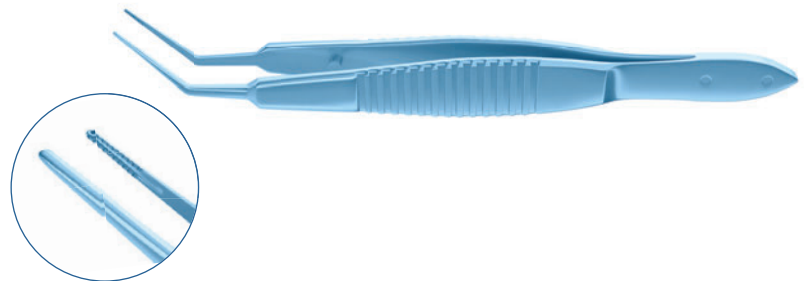
7-025T



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



PRECHOPPERS

Cross-action
Ergonomic round serrated squeeze-handle
Stainless Steel



Angled Prechopper

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



PHACO
p.151

Combo Prechopper

Straight
Specially designed jaws split soft and hard nuclei.
With sharp blades on the upper side of the tips and blunt on the other side
Max opening 2.80 mm
Overall length 121 mm

7-1161S **POPULAR**



Inamura Prechopper

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

7-1165S **POPULAR**



Inamura Prechopper

Straight
Microincisional
Max opening 1.80 mm
Overall length 120 mm

7-11651S



Combo Prechopper

Straight
For sub-2.00 mm Coaxial Micro Phaco
Max opening 2.00 mm
Overall length 121 mm

7-1162S **POPULAR**



Yeoh Prechopper

Straight
Blunt atraumatic tips are used for complete nucleus separation during Femtosecond laser cataract procedure.
Max opening 2.00 mm
Overall length 120 mm

7-1166S

FEMTOCATARACT
p.154



Akahoshi Prechopper

Straight
Groove enables easy rotation of the nucleus during prechopping.
Max opening 2.80 mm
Overall length 121 mm

7-1163S **MOST POPULAR**



NEW

Crozafon Prechopper

Straight
Provides easy releasing of entrapped gas bubbles for safer hydrodissection.
Max opening 3.00 mm
Overall length 118 mm

7-1167S

FEMTOCATARACT
p.154



NEW

Escaf Prechopper

Straight
Round handle
Overall length 118 mm
Stainless Steel

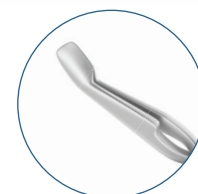
7-149S

Designed
in cooperation with
Luis Escaf MD, Colombia



Used to complete breakdown after Femtosecond or Ultrachopper and fracture cataract with hardness less than 4+. Tolerates capsulorhexis smaller than 5.00 mm in diameter without injuring the capsule edges. Fits through a 2.00 mm micro incision.

Max opening 2.80 mm
The tip is truncated so as not to hurt the edge of capsulorhexis.



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

CHOPPERS

RHD for right-handed surgeon - to hold in the left hand
LHD for left-handed surgeon - to hold in the right hand

Stainless Steel hook with an ergonomic
light-weight round serrated
Titanium handle



Nagahara Phaco Chopper

Overall length 120 mm

7-063 RHD (shown)
7-064 LHD

**MOST
POPULAR**



Rosen Phaco Chopper Universal

Overall length 120 mm

7-065 **MOST
POPULAR**



Rosen Phaco Splitter

60 degree angled
Wedge-shaped
Overall length 120 mm

7-066 RHD **POPULAR**
7-067 LHD



Phaco Cleaver

Overall length 120 mm

7-068 RHD **POPULAR**
7-069 LHD



Nucleus Claw Chopper

Overall length 120 mm

7-072 **MOST
POPULAR**



Intraocular Manipulator with Ball tip

Straight
0.50 mm diameter ball tip
Overall length 123 mm

7-074



Angled
Overall length 121 mm

7-075



Small Pupil Snapper Hook & Phaco Chopper

Overall length 121 mm

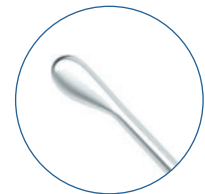
7-077 **POPULAR**



Drysdale Nucleus Manipulator & Capsule Polisher

For nucleus dividing and separating
Overall length 121 mm

7-093 Regular tip **MOST
POPULAR**
7-0931 Capsule polisher tip **POPULAR**



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 **POPULAR**
7-1071 LHD (shown)



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



Quick Chopper with Rounded Edge

Overall length 120 mm

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



Seibel Chopper

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

7-130 RHD **MOST
POPULAR**



Axe Quick Chopper

Overall length 120 mm

7-135



CHOPPERS

Nagahara Phaco Chopper and Drysdale Nucleus Manipulator

Overall length 133 mm

7-0631 Titanium handle (shown)

7-0631S

SS

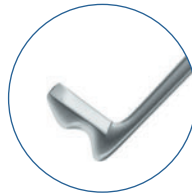
**MOST
POPULAR**



Double Phaco Spatula

Small Pupil Snapper Hook & Micro Finger
Overall length 142 mm

7-079 **POPULAR**



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

POPULAR



Seibel Chopper & Quick Chopper

Ball-shaped tip for efficient capsule
protection
Quick safety chopper with rounded edge
Overall length 132 mm

7-1361 RHD **POPULAR**



Triple Edge Phaco Chopper with Polisher Tip

Overall length 117 mm

7-126 **POPULAR**

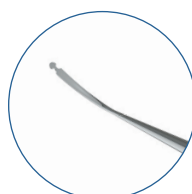
7-126S

SS



Koch Nucleus Spatula

Curved
Duck bill tips with notches
Overall length 122 mm
7-070

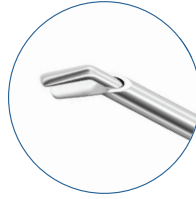


Featured Choppers for FemtoCataract

Slade/Terao Nucleus Splitter

Used to crack the femtochopped nucleus.
Chopper type design tip
Curved shaft
Micro jaws
With fixation wheel
Compatible with Squeeze Handle 12-003T

7-143* 23 Ga



FEMTOCATARACT
p.154

Nagy Femtosecond Chopper

Designed for Femtosecond laser-assisted cataract surgery.
Cracks the nucleus through the laser-created lines.
Blunt edge is safe for the posterior capsule.
Overall length 122 mm

7-145

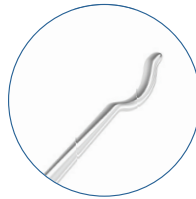


FEMTOCATARACT
p.154

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

7 - PHACO INSTRUMENTS

HYDROCHOPPERS**Lesieur
Hydrochopper**

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.

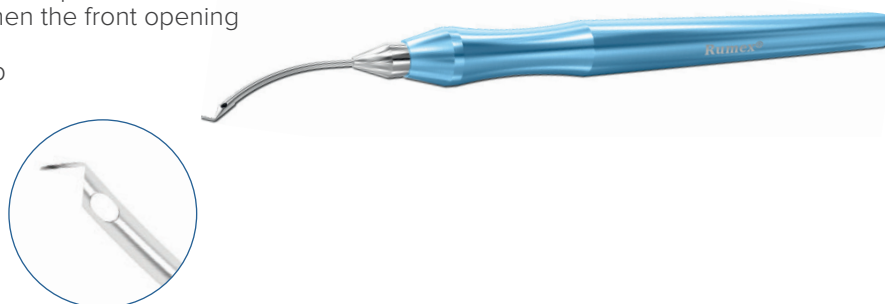
The dual oval sideports 0.50×0.70 mm provide supplemental irrigation in case when the front opening is overfilled.

Titanium handle/Stainless Steel tip

Overall length 105 mm

7-0634/I 20 Ga

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

**CAPSULE POLISHERS****Anterior/Posterior
Capsule Polisher**

135° angled shaft

Overall length 120 mm

7-101 **POPULAR**



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"-shaped 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 123 mm

7-142

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



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

**MOST
POPULAR**



Thornton 20° angled
7-080/20



Binkhorst
7-080/BC



Simcoe
7-080/SIM



45° angled
7-080/45



90° angled
7-080/90



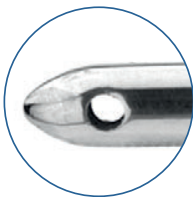
Straight
7-080/ST

Irrigation Handpiece for Bimanual Technique

Curved tube with smooth tip
Titanium handle/Stainless Steel tip
Standard connector
Overall length 104 mm

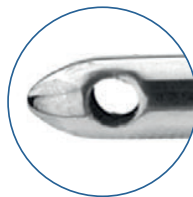


FEMTOCATARACT
p.154



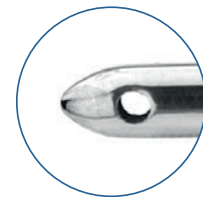
2×0.35 mm side ports
7-081 21 Ga

**MOST
POPULAR**



2×0.50 mm side ports
7-0813 21 Ga

POPULAR



2×0.35 mm side ports
7-081-23 23 Ga

**MOST
POPULAR**

Stodulka Enhanced Irrigation Handpiece for Bimanual Technique

Handpiece recommended for bimanual microphaco and Femtosecond cataract surgery.

Curved

Two ports on side 0.50×1.00 mm for optimal irrigation

Smooth bullet-shaped tip facilitates instrument insertion.

Titanium handle/Stainless Steel tip

Standard connector

Overall length 105 mm

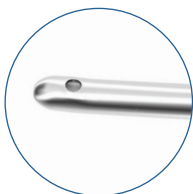
7-0811 21 Ga



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

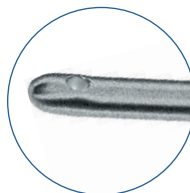


1x0.35 mm top port
 Smooth tip

7-082

21 Ga

**MOST
POPULAR**



1x0.35 mm top port
 Capsule polisher tip

7-0821

22 Ga

**MOST
POPULAR**



1x0.35 mm top port
 Capsule polisher tip

7-0821-23

23 Ga

**MOST
POPULAR**

FEMTOCATARACT
 p.154



1x0.30 mm top port
 Smooth tip
 Polished ball tip is safe and
 atraumatic for the capsular bag.
 No need to enlarge the incision.

7-0826

23 Ga

NEEDLE HOLDERS

Tungsten carbide coated tips for better gripping

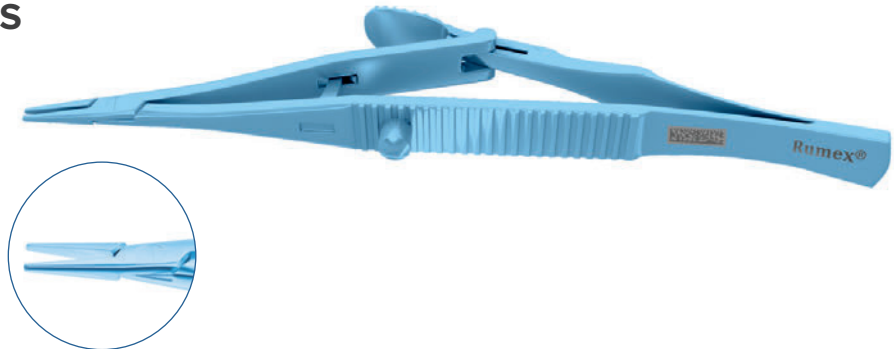
Lightweight

KALT NEEDLE HOLDERS

Kalt Needle Holder

For 4.0-6.0 sutures
Straight
Standard jaws, 10.50 mm
Flat serrated locking handle
Overall length 135 mm
Titanium

8-080T **POPULAR**



CASTROVIEJO NEEDLE HOLDER

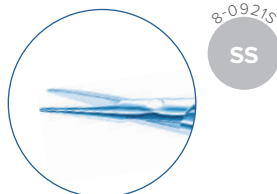
POPULAR

Castroviejo Needle Holder

Titanium
Flat serrated handle

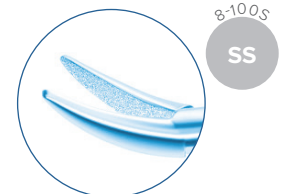
For 4.0-6.0 sutures
Straight delicate jaws, 13.50 mm
Overall length 122 mm

8-0921T with lock



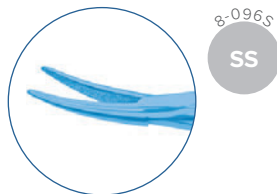
For 4.0-7.0 sutures
Curved standard jaws, 11.00 mm
Overall length 140 mm

8-100T with lock



For 7.0-9.0 sutures
Curved delicate jaws, 8.00 mm
Overall length 135 mm

8-096T without lock



ING'S NEEDLE HOLDERS/SCISSORS

Ing's Needle Holder/Scissors

For 4.0-7.0 sutures
Used to cut suture only.
Combination of needle holder and scissors
in one instrument
Straight long size jaws, 15.00 mm
Round handle
Overall length 105 mm
Stainless Steel

8-102S



COAXIAL/INTRAOCULAR NEEDLE HOLDERS

Intraocular Needle Holder

For 9.0-11.0 sutures
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**

For 9.0-11.0 sutures

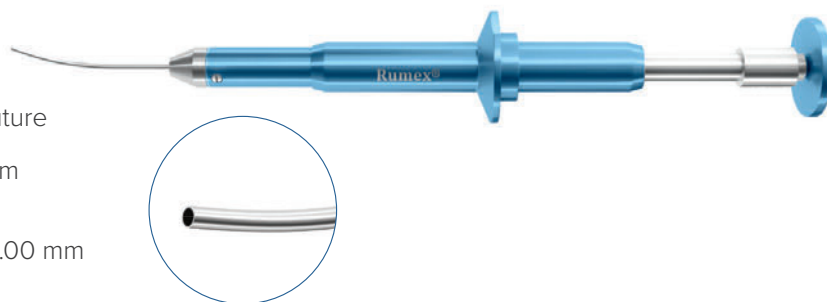
Designed for IOL scleral fixation with suture through a small incision.

Titanium handle with plunger mechanism
Curved shaft

To be used with straight and curved spatulated needles with length up to 18.00 mm (Poly propylene 10-0 or 9-0).

Overall length 128 mm

8-120 18 Ga

**BARRAQUER NEEDLE HOLDER**

Tungsten carbide coated tips for better gripping

Lightweight

**Barraquer
Needle Holder**

Titanium

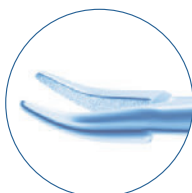
Ergonomic round serrated handle



For 4.0-7.0 sutures

Curved standard jaws, 12.00 mm

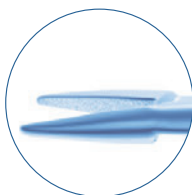
Overall length 100 mm

8-010T with lock
8-011T without lock**MOST
POPULAR**

For 4.0-7.0 sutures

Straight standard jaws, 12.00 mm
Overall length 100 mm

8-013T without lock



For 4.0-7.0 sutures

Curved fine jaws, 12.00 mm
Overall length 100 mm8-020T with lock
8-021T without lock

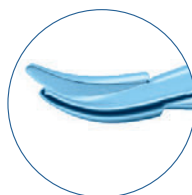
For 8.0-11.0 sutures

Curved extra fine jaws, 8.00 mm
Overall length 100 mm8-024T with lock **POPULAR**
8-025T without lock8-031S
SS

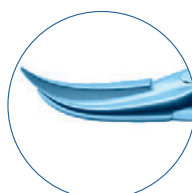
For 4.0-7.0 sutures

Curved standard jaws,
12.00 mm

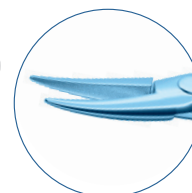
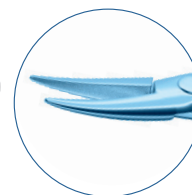
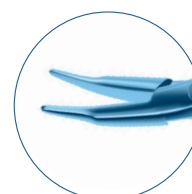
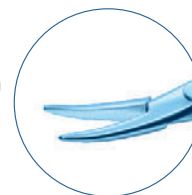
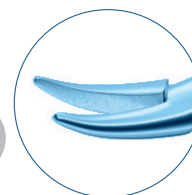
Overall length 115 mm

8-030T with lock
8-031T without lock**MOST
POPULAR**

For 4.0-7.0 sutures

Curved fine jaws, 12.00 mm
Overall length 115 mm8-040T with lock
8-041T without lock**POPULAR
MOST
POPULAR**For 8.0-11.0 sutures
Curved extra fine jaws,
8.00 mm
Overall length 115 mm

8-045T without lock

8-045S
SS**MOST
POPULAR**For 4.0-7.0 sutures
Curved extra fine jaws,
8.00 mm
Overall length 125 mm8-050T with lock
8-051T without lock8-051S
SSFor 4.0-7.0 sutures
Curved standard jaws, 12.00 mm
Overall length 125 mm8-060T with lock
8-061T without lockFor 4.0-7.0 sutures
Curved fine jaws, 12.00 mm
Overall length 125 mm8-070T with lock
8-071T without lock8-071S
SS**POPULAR
MOST
POPULAR**For 4.0-6.0 sutures
Curved strong jaws, 12.00 mm
Overall length 125 mm8-090T with lock
8-091T without lock8-091S
SS**MOST
POPULAR**8-041S
SS8-040S
SS

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

**MOST
POPULAR**

**POPULAR
POPULAR**

LACRIMAL
p.162



LACRIMAL
p.162

Quickert Lacrimal Intubation Probe

Overall length 140 mm

9-021S size 0

9-023S size 2



OCULOPLASTIC
p.165

LACRIMAL
p.162

9-031S
SS

Pigtail Lacrimal Probe

8.00 mm pigtail curved probes with holes

Polished tip

Overall length 134 mm

9-031 **POPULAR**



OCULOPLASTIC
p.165

LACRIMAL
p.162

9-050S
SS

9-051S
SS

Wilder Lacrimal Dilator

Blunt polished tip

Overall length 100 mm

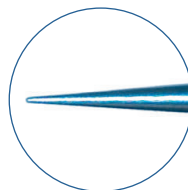
Titanium

9-050T size 1 (19.00 mm)

9-051T size 2 (23.00 mm)

9-052T size 3 (32.00 mm)

POPULAR



LACRIMAL
p.162

9-060S
SS

Castroviejo Double-Ended Lacrimal Dilator

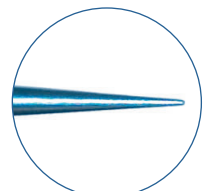
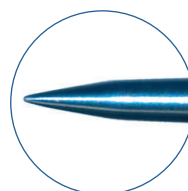
Polished tip

Overall length 100 mm

Titanium

9-060T size 1 & 2

**MOST
POPULAR**



10 - RETRACTORS

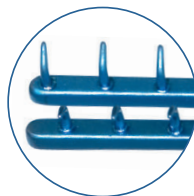
RETRACTORS

LACRIMAL SAC RETRACTORS

Stevenson
Lacrimal Sac Retractor

Curved
3x3 prongs
Blades separated 25.00 mm
Screw opening
Overall length 83 mm

10-013

LACRIMAL
p.16210-013S
SSKnapp
Lacrimal Sac Retractor

4 blunt prongs
8.00 mm width tip
Overall length 140 mm

10-014

**MOST
POPULAR**OCULOPLASTIC
p.165LACRIMAL
p.16210-014S
SS

LID & ORBITAL RETRACTORS

Desmarres
Lid Retractor

Overall length 130 mm

10-020 size 0 - 11.00 mm
10-021 size 1 - 13.00 mm (shown)
10-022 size 2 - 15.00 mm
10-023 size 3 - 17.00 mm

POPULAR**MOST
POPULAR**LID
p.16310-020S
SS10-021S
SS10-022S
SS10-023S
SS

Schepens Orbital Retractor

Overall length 144 mm
Stainless Steel

10-030S

Double-Ended Orbital Globe
Retractor-Elevator

Double-ended, 10.00/14.00 mm wide
Thin ribbon retractor with a gentle "S"
curve
Overall length 180 mm
Titanium

10-034T



IRIS (PUPIL) DILATORS

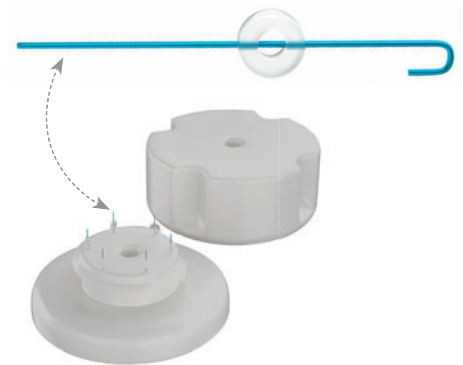
Iris Retractor*

Reusable
Supplied sterile in autoclavable PTFE container

10-5127 **MOST
POPULAR**

STERILE

6
PER
BOX



Iris Retractors*

Disposable

10-5016-1 4 per box **POPULAR**
10-5067-1 5 per box

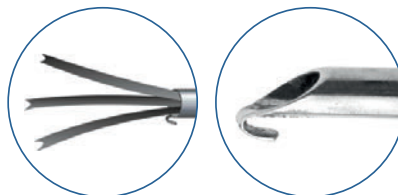
STERILE

2



Beehler Pupil Dilator

17 Gauge
Curved shaft
Four prongs
Overall length 130 mm
Titanium



10-083



10-091

with plunger

*Not for sale in Europe

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

11 - SCISSORS

SCISSORS

Sharp cutting edges

Blades of equal length close with minimal friction allowing for high precision of cuts

Matte finish/anti-glare coating to reduce a glare of the microscope

Excellent cutting function for simple manipulations with tissues

Unique hardening system promoting 3,000+cuts without resharpener

Maraging stainless steel

CORNEAL SCISSORS

Flat Handle
Stainless SteelCastroviejo
Corneal Scissors

Blunt tips

Curved 11.00 mm blades
Overall length 100 mm11-010S Left (shown)
11-0101S RightCastroviejo
Universal Corneal Scissors

Blunt tips

7.50 mm blades
Overall length 102 mm

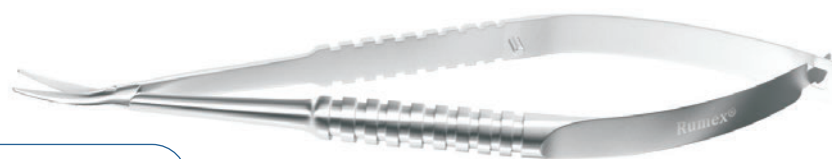
11-011S

11.00 mm blades
Overall length 106 mm

11-012S

11-011S **MOST POPULAR**
11-012SCastroviejo
Universal Corneal
ScissorsCurved 16.00 mm blades
Blunt tips
Overall length 110 mm11-015S **POPULAR**Osher
Universal Corneal
ScissorsGently curved
Provide a precise 6.50 mm
beveled incision opening
with a single snip.
21.00 mm from pivot to tip
Blunt tips
Overall length 120 mm

11-013S

Corneal
Universal ScissorsCurved
Round handle
Blunt tips
Overall length 110/112 mm
Stainless Steel11-034S 7.50 mm blades **POPULAR**
11-035S 11.00 mm blades (shown) **MOST POPULAR**Katzin
Corneal Transplant
ScissorsStrongly curved medium
blades
Blunt tips
Overall length 100 mm11-020S Left (shown)
11-0201S Right**CORNEAL**
p.156**MOST POPULAR**Castroviejo
Corneal Section
Scissors14.00 mm blades
Lower blade is longer than
upper.
Overall length 106 mm11-024S Right (shown) **POPULAR**
11-0241S Left **MOST POPULAR****CORNEAL**
p.156**DALK**
p.157DALK
Corneal transplant
scissorsBlades 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 mm11-038S Right (shown)
11-0381S Left

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

DLEK
p.158**DLEK
Corneal Transplant Scissors**

For the removal of the posterior cornea
Long blades
Overall length 102 mm
Stainless Steel

11-036S Medium curve

11-0361S Strong curve



11-036S



11-0361S

DALK
p.157**Holland Spatulated DALK Scissors**

Vannas-style scissors with "micro blades"
facilitate the dissection of stromal tissue.
Rounded and blunt tips
Horizontally-oriented, spatulated design
of the inner blade keeps the scissors
in the proper plane minimizing inadvertent
perforation.

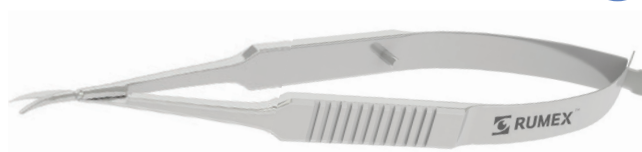
Shortened outer blade allows to trim the
tissue in a precise fashion.

Overall length 100 mm

Stainless Steel

11-134 Right (shown)

11-135 Left

**IRIS SCISSORS****Zaldivar
Iridectomy Scissors**

Straight shaft
With fixation wheel
Compatible with Squeeze Handle 12-003T

11-03721* 23 Ga

**McPherson-Vannas
Iris Scissors**

Curved
8.00 mm blades
Sharp pointed tips
Round handle
Overall length 85 mm
Stainless Steel

11-062S **MOST
POPULAR****Iris Scissors**

28.00 mm pointed tips from midscrew to tip
Ring handle
Overall length 115 mm
Stainless Steel

11-080S Straight (shown)

11-081S Curved **MOST
POPULAR****MOST
POPULAR**

*Tip only. Handles are sold separately.

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

11 - SCISSORS

**Barraquer
Iris Scissors**

7.00 mm blades
Blunt tips
Squeeze action handle
Overall length 55 mm
Stainless Steel

11-1223 **POPULAR**

**STITCH SCISSORS****Westcott
Stitch Scissors**

Gently curved
16.00 mm blades
Sharp pointed tips
Overall length 120 mm
Stainless Steel

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

**MOST
POPULAR**

**Westcott
Stitch Scissors**

Gently curved
13.00 mm blades
Sharp pointed tips
Overall length 115 mm
Stainless Steel

11-046S Flat handle **POPULAR**
11-047S Round handle

**STRABISMUS SCISSORS****Knapp
Strabismus Scissors**

Ring handle
Overall length 115 mm
Stainless Steel

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



TENOTOMY SCISSORS

Westcott Tenotomy Scissors

Stainless Steel
Curved
Blunt tips



11-040D
2

Westcott Tenotomy Scissors

13.00 mm blades
Overall length 115 mm

11-040S **MOST
POPULAR**



Westcott Tenotomy Scissors

15.00 mm blades
Overall length 116 mm

11-048S Right

**MOST
POPULAR**



Westcott Tenotomy Scissors

16.00 mm blades
Overall length 120 mm

11-042S **MOST
POPULAR**



Shepard-Westcott Tenotomy scissors

21.00 mm blades
Serrated upper blade
(«supercut»)
Overall length 123 mm

11-0481S Right



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)

**MOST
POPULAR**



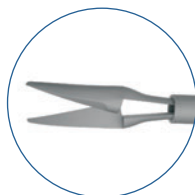
11 - SCISSORS

CAPSULOTOMY SCISSORS**Side Port
Capsulotomy Scissors**

Curved shaft
With fixation wheel
Compatible with Squeeze Handle 12-003T

11-03741* Left 20 Ga (shown)

11-03751* Right 20 Ga

**Capsulotomy Scissors**

Sharp pointed tips
Stainless Steel

**Vannas
Capsulotomy Scissors**

Straight
6.00 mm blades
9.00 mm from pivot to tip
Overall length 84 mm

11-050S

**MOST
POPULAR**

**Vannas
Capsulotomy Scissors**

Curved
6.00 mm blades
9.00 mm from pivot to tip
Overall length 84 mm

11-052S

**MOST
POPULAR**

**Vannas
Capsulotomy Scissors**

Angled
6.00 mm blades
9.00 mm from pivot to tip
Overall length 81 mm

11-054S

POPULAR

**Gills-Vannas
Capsulotomy Scissors**

Straight
10.00 mm blades
13.00 mm from pivot to tip
Overall length 88 mm

11-056S

POPULAR

**Gills-Vannas
Capsulotomy Scissors**

Curved
10.00 mm blades
13.00 mm from pivot to tip
Overall length 88 mm

11-058S

**MOST
POPULAR**

**Gills-Vannas
Capsulotomy Scissors**

Angled
10.00 mm blades
13.00 mm from pivot to tip
Overall length 84 mm

11-0581S

**MOST
POPULAR**

**Clayman-Vannas
Swan Neck Capsulotomy Scissors**

Straight
5.00 mm blades
7.00 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
Stainless Steel

Medium size
Blades from midscrew to tip - 38.00 mm
Overall length 128 mm

11-090S (shown)

Large size
Blades from midscrew to tip - 45.00 mm
Overall length 130 mm

11-091S



IOL CUTTERS/SCISSORS

Osher IOL Scissors

To cut Silicone or Acrylic IOL
8.50 mm blades
Overall length 91 mm
Stainless Steel

4-2175S **POPULAR**



Rowen Rescue Kit Scissors

Intraocular scissors for foldable
lens removal
To remove silicone or acrylic IOL in case
of complications
Curved shaft
Compatible with Squeeze Handle 12-003T

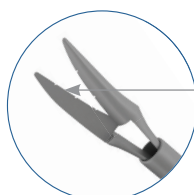
4-2151* 18 Ga **POPULAR**



Micro Foldable Lens Cutter

Intraocular scissors for foldable
lens removal
To remove silicone or acrylic IOL in case
of complications
Blades with notches
Curved shaft
Compatible with Squeeze Handle 12-003T

4-2173* 19 Ga



Notches

*Tip only. Handles are sold separately.

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

SPATULAS

IRIS/NUCLEUS SPATULAS

13-011S
SS13-014S
SS

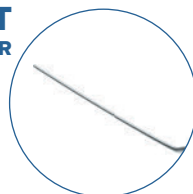
Straight Spatula

Overall length 122 mm

13-010 0.25 mm width, 10.00 mm length (shown)

13-011 0.40 mm width, 14.00 mm length

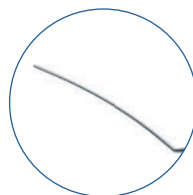
13-014 1.00 mm width, 13.00 mm length

**MOST
POPULAR**


Curved Spatula

Overall length 122 mm

13-020 0.25 mm width, 12.00 mm length



Double Spatula

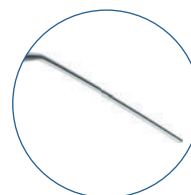
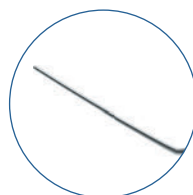
Overall length 144 mm

13-031 0.50 & 1.00 mm width

**MOST
POPULAR**

Overall length 134 mm

13-032 0.30 & 0.50 mm width

13-031S
SS

CYCLODIALYSIS SPATULAS

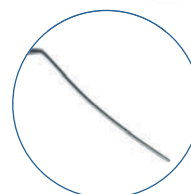
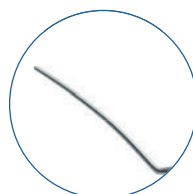
GLAUCOMA
p.159

Castroviejo

Double-Ended Cyclodialysis Spatula

Overall length 136 mm

13-050 0.50 mm width, 10.00 & 15.00 mm

POPULAR


Castroviejo

Cyclodialysis Spatula

Overall length 124 mm

13-051 1.00 mm width, 10.00 mm length

13-052 0.75 mm width, 10.00 mm length



FEMTOSECOND CATARACT SPATULAS

Spatula for Femtosecond Laser Procedure

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

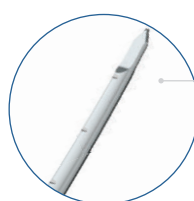
20-204



Donnenfeld Femto Spatula

Special flattened design of the tip helps to open femtosecond created cataract incisions.
Overall length 122 mm

20-2041



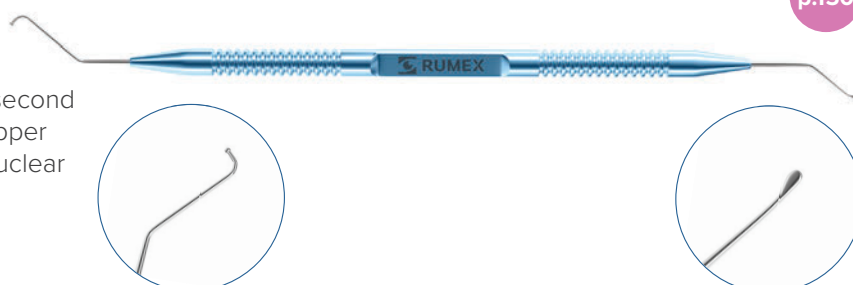
10 serrations for intraocular measurement
(from 1.00 mm to 10.00 mm with 1.00 mm increment)

CATARACT
p.150

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
Overall length 131 mm

13-181



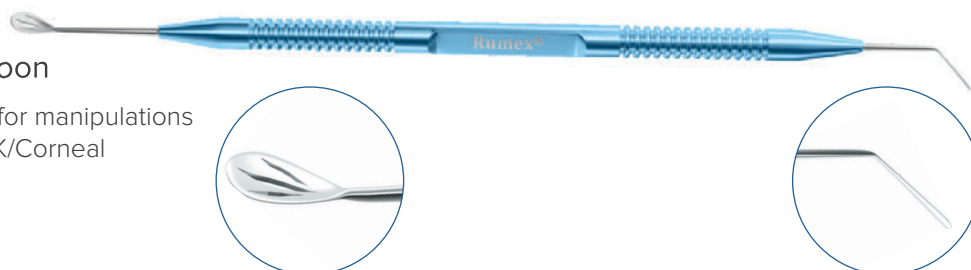
CATARACT
p.150

CORNEAL SPATULAS

Paton Spatula and Spoon

Double-ended instrument for manipulations with the cornea (LASIK/PRK/Corneal Transplantation)
Overall length 150 mm

13-110



13 - SPATULAS

DSEK, DSAEK, DMEK SPATULASDLEK
p.158DSEK, DSAEK, DMEK
p.157**Corneal Dissector**

For intrastromal dissection

Straight

60° angled shaft

12.00 mm from tip to angle

Overall length 125 mm

13-137

**Corneal Dissector**

For intrastromal dissection

Curved (curvature radius 22.00 mm)

45° angled shaft

12.00 mm from tip to angle

Overall length 127 mm

13-138

DSEK, DSAEK, DMEK
p.157**Irrigating Endothelial Stripper**

For Descemet's stripping

Overall length 104 mm

13-139/I

DSEK, DSAEK, DMEK
p.157**Spatula-Guide**

For corneal endothelium implantation

Overall length 122 mm

Titanium

13-150T



DSEK, DSAEK, DMEK SPATULAS

Cindy Sweeper DSEK Spatula

Angled shaft
12.00 mm from bend to tip
0.70 mm diameter
Overall length 111 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 119 mm
Stainless Steel

13-152S



Terry DSEK Scraper

Angled shaft
11.00 mm from tip to angle
Hole-shaped scraper facing upward
Overall length 112 mm
Stainless Steel

13-153S



Melles Style 1 DSAEK PLK Scraper

45° angled shaft
11.00 mm from tip to angle
45° angled tip
Overall length 125 mm
Titanium

13-154T



Melles Style 2 DSAEK PLK Scraper

45° angled shaft
11.00 mm from tip to angle
90° angled tip
Overall length 125 mm
Titanium

13-155T



13 - SPATULAS

John DSAEK Descemet's Stripper

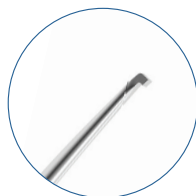
Curved shaft
14.00 mm from bend to tip
"T" shape 1.50 mm wide x 0.60 mm high tip
Efficient in cases of strong adherence of the Descemet's membrane to recipient's corneal stroma.
Overall length 121 mm

13-1491

**John Dextatome DMEK/ DSAEK Spatula**

Removes the Descemet's membrane as a single disc.
Strongly vaulted shaft
Overall length 119 mm

13-182

DSEK, DSAEK, DMEK
p.157**John DSAEK Stromal Scrubber**

Roughens the inner corneal stroma at the periphery of Descemetorhexis.
Minimizes the risk of disk detachment after DSAEK.
Strongly vaulted shaft
Round handle
Overall length 120 mm

13-183

DSEK, DSAEK, DMEK
p.157**John DSAEK Glider**

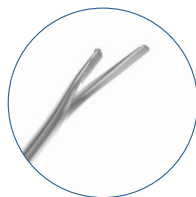
Used for donor disk gliding.
Smoothens the corneal surface and clears fluid in the donor-recipient interface.
Overall length 114 mm

13-184

DSEK, DSAEK, DMEK
p.157**Tan Marginal DMEK Dissector**

Double-tipped end is designed for cutting the peripheral ends of donor Descemet's membrane (DM) without risk of radial tears occurrence.
Curved single-tipped end is used for convenient separation of the DM from the stroma.
Overall length 132 mm

13-185

DSEK, DSAEK, DMEK
p.157

DLEK SPATULAS

Manipulator for DLEK procedure

Designed to tuck the edges of the donor lamella.

0.15 mm diameter Z-hook with blunt tip

Overall length 120 mm

13-160



DALK SPATULAS

Trisector for DALK Procedure

Facilitates separation of rest of stromal attachments from 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.

Flat 1.40×0.70 mm tip

Overall length 124 mm

13-170



Spatula for DALK Procedure

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.

Flat 1.00×9.00 mm tip

Overall length 122 mm

13-171



Dissector for DALK Procedure

Creates a track in deep stroma for the further cannula inserting.

Obtains delicate preparation for "Big Bubble" procedure.

12.00 mm length blunt beveled tip

Overall length 122 mm

13-172

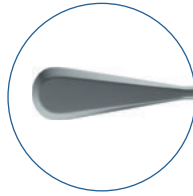


FOREIGN BODY SPUDS

Davis Foreign Body Spud

Overall length 123 mm

16-153



PRK/LASIK SPATULAS

Hockey Knife for Epithelium Removal

To remove epithelium for PRK
procedure and during LASIK
retreatment

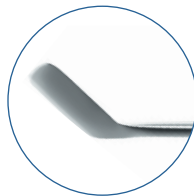
Overall length 130 mm

20-001 **POPULAR**



LASIK
p.154

20-001S
SS



Lindstrom LASIK/PRK Spatula and Epithelium Removal Board

Semi-sharp end of the instrument
is designed to remove epithelium.
Fine spatula on the other end is used
for flap manipulation during LASIK
surgery.

Overall length 148 mm

20-002



LASIK
p.154



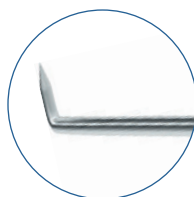
LASIK Spatula and Flap Retreatment Instrument

Double-ended
Overall length 133 mm

20-013



LASIK
p.154



LASEK SPATULAS

LASEK Epithelial Micro Hoe

Can be used to detach and lift the edge of the epithelium flap.

Overall length 120 mm

20-131



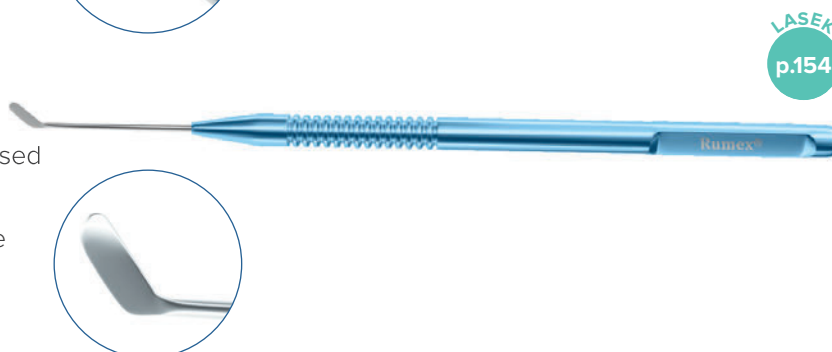
LASEK Knife

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 **POPULAR**



SMILE SPATULAS

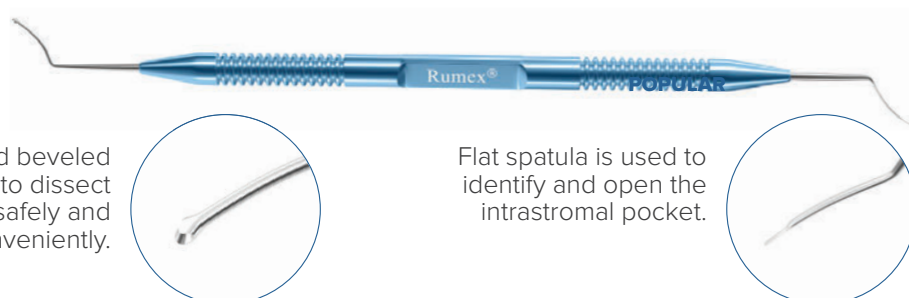
Stodulka

ReLEx Smile Double Lenticule Spatula

Blunt spoon and flat spatula

Overall length 140 mm

20-207 **POPULAR**



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

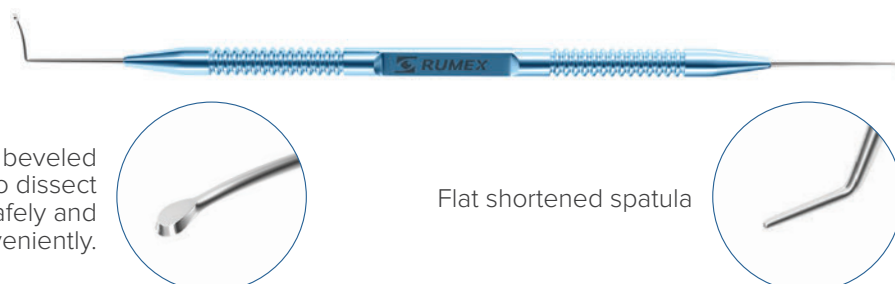
Flat spatula is used to identify and open the intrastromal pocket.

ReLEx Smile Double Lenticule Spatula

Blunt spoon and shortened atraumatic spatula

Overall length 139 mm

20-2071



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

Flat shortened spatula

FEMTOLASIK SPATULAS

FemtoLASIK Flap Spatula

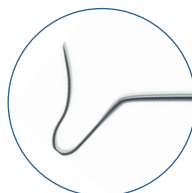
Double-Ended

A delicate pick and a curved spatula to open and manipulate the flap
Overall length 128 mm

20-201 **POPULAR**



FEMTOLASIK
p.155



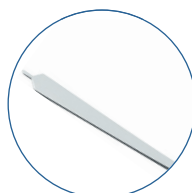
FemtoLASIK Flap Spatula

Delicate spatula with a jag on the tip to detach the flap edge and to open the flap
Overall length 121 mm

20-202



FEMTOLASIK
p.155



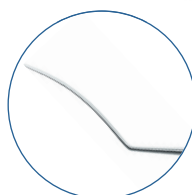
Zaldivar FemtoLASIK Spatula

Extra delicate spatula with bullet shaped tip to open and manipulate the flap
Overall length 123 mm

20-203 **POPULAR**



FEMTOLASIK
p.155



ICL™ SPATULAS

Pallikaris ICL™ Manipulator

Designed to place the lens corners under the iris.

Sandblasted tip

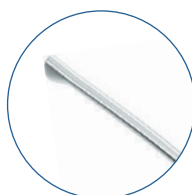
Overall length 123 mm

13-141



ICL
p.155

ICL™ — registered trademark of STAAR®



Zaldivar ICL™ Manipulator

Double-ended instrument with slightly forked tips to place the lens corners under the iris.

Overall length 128 mm

13-142



ICL
p.155

ICL™ — registered trademark of STAAR®



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



ICRS
p.158



Suarez Spreader

To enlarge the small corneal pockets in both directions in a proper depth

Straight shaft

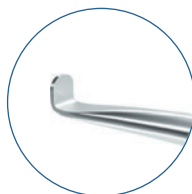
Tip dimensions: 0.10 mm height, 0.60 mm width, 1.25 mm length

Overall length 122 mm

13-146



ICRS
p.158



Bicalto Guide

To lift the cornea for inserting the Tunnel Maker beneath the guide

Blunt tip

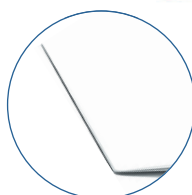
Tip dimensions: 0.30 mm height, 0.10 mm width, 5.00 mm length

Overall length 121 mm

13-147



ICRS
p.158

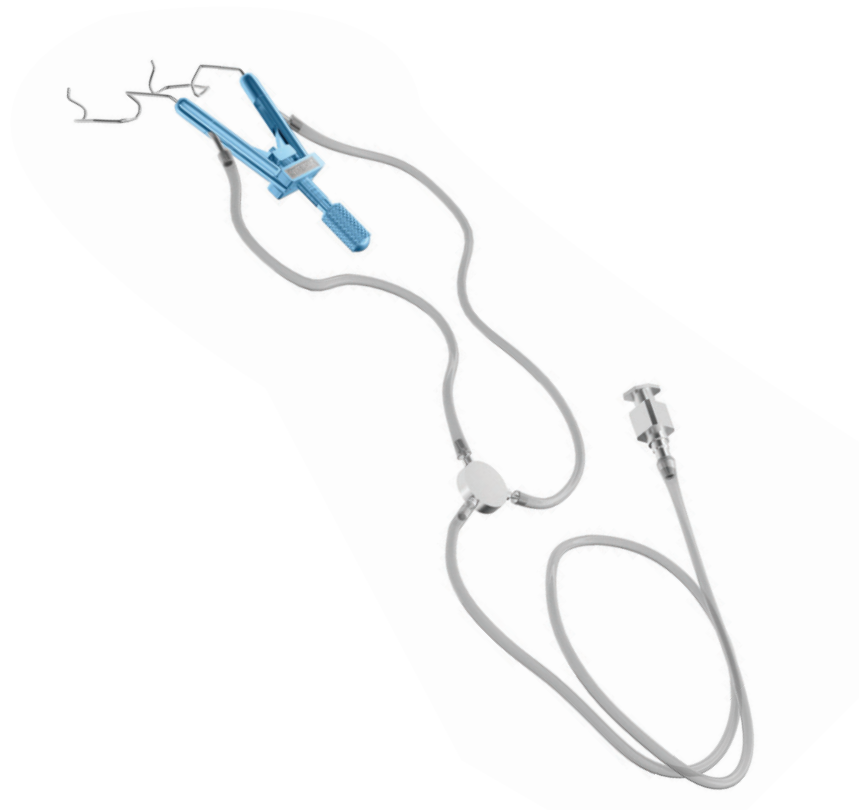


SPECULUMS

SPECULUMS WITH ASPIRATION

Thumb-screw control to adjust lid tension

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



Kershner Style

14-060S
SS

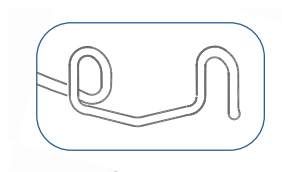
Reversible
Nasal/temporal approach
Solid blades, 14.00 mm
Overall length 70 mm

14-060A Adult

Lieberman Style

Temporal
“V” style open
blades, 14.00 mm
Overall length 78 mm

14-080A Adult

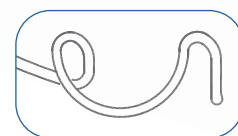


Lieberman Style for LASIK

Temporal
Rounded open
blades, 14.00 mm
Overall length 78 mm

14-080LA Adult

**MOST
POPULAR**



LASEK
p.154

FEMTOLASIK
p.154

Child Lieberman Style

Temporal
«V» style open
blades, 10.00 mm
Overall length 64 mm

14-082A Child **POPULAR**

Lieberman Style for LASIK

Nasal
Rounded open blades, 14.00 mm
Overall length 75 mm

14-081LA Adult

LANCASTER SPECULUMS

Lancaster Eye Speculum

Adjustable mechanism with locking nut
Spring-control with locking mechanism and stabilizing disk
Solid-shaped slightly curved blades fit orbital margin, keep eyelashes from the surgical area, and provide optimal view.

Temporal
Solid blades, 16.00 mm
Overall length 67 mm
Titanium

14-045T

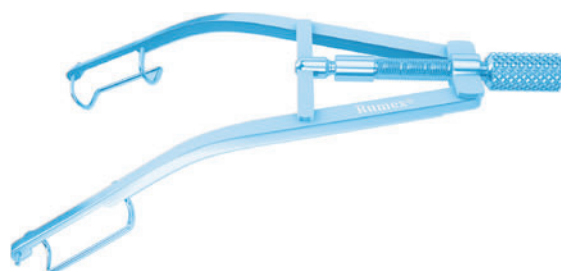


CASTROVIEJO SPECULUMS

Castroviejo Speculum

Temporal
Fenestrated blades, 14.00 mm
Blades spread 30.00 mm
Flat branches
Overall length 85 mm
Titanium

14-061T Adult **POPULAR**



REVERSIBLE SPECULUMS KERSHNER STYLE

Can be used both for nasal and temporal approach.

Kershner Reversible Speculum

Fenestrated blades, 14.00 mm
Flat branches
Overall length 70 mm
Titanium

14-062T Adult



14-060TS 14-060S
SS SS

Kershner Reversible Speculum

Adult

Solid blades, 14.00 mm
Overall length 70 mm
Titanium

14-060T Round branches

14-0601T Flat branches

**MOST
POPULAR**

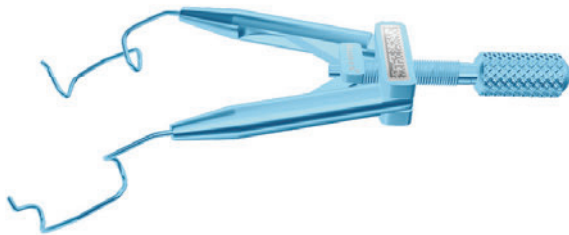


Product design and/or features that do not influence its functionality and main parameters are subject to change

TEMPORAL SPECULUMS LIEBERMAN STYLE

Thumb-screw control to adjust lid tension

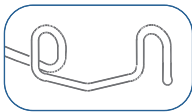
Temporal Speculum
Lieberman Style
Titanium



14-040S
SS

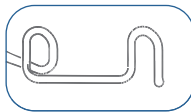
«V» style open blades, 14.00 mm
Round branches
Overall length 71 mm

14-040T Adult **MOST POPULAR**



Kratz style open blades, 14.00 mm
Flat branches
Overall length 76 mm

14-0401TK Adult **MOST POPULAR**



«V» style open blades, 10.00 mm
Round branches
Overall length 71 mm

14-042T Child **POPULAR**

14-042S
SS

«V» style open blades, 14.00 mm
Flat branches
Overall length 76 mm

14-0401T Adult **MOST POPULAR**

14-0401S
SS

For LASIK
Rounded open blades, 14.00 mm
Round branches
Overall length 71 mm

14-040TL Adult **POPULAR**

FEMTOLASIK
p.154

LASEK
p.154



Specially designed to accommodate microkeratome suction ring.

Kratz style open blades, 14.00 mm
Round branches
Overall length 71 mm

14-040TK Adult **MOST POPULAR**



For LASIK
Rounded open blades, 14.00 mm
Flat branches
Overall length 76 mm

14-0401TL Adult

featured

Slade-Murdoch Speculum
Adjustable Wire Speculum

Parallel retraction design. Quick installation and removal due to self-locking mechanism.
Blades specially curved to facilitate laser docking without increasing external pressure.
Open 14.00 mm blades
Overall length 51 mm

14-052T



NEW

CATARACT
p.150

NASAL SPECULUMS LIEBERMAN STYLE

Thumb-screw control to adjust lid tension

Nasal Speculum Lieberman Style

Titanium

«V» style open blades

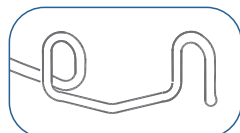
14.00 mm

Round branches

Overall length 76 mm

14-041T Adult

**MOST
POPULAR**



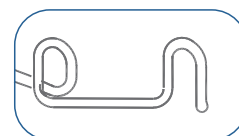
«V» style open blades,

10.00 mm

Round branches

Overall length 76 mm

14-043T Child



Kratz style open blades,

14.00 mm

Round branches

Overall length 76 mm

14-041TK Adult

«V» style open blades,

14.00 mm

Flat branches

Overall length 76 mm

14-0411T Adult

For LASIK

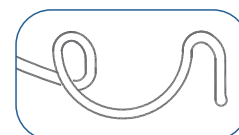
Rounded open blades,

14.00 mm

Flat branches

Overall length 70 mm

14-0411TL Adult



Specially designed to accommodate microkeratome suction ring.

«V» style open blades,

10.00 mm

Flat branches

Overall length 76 mm

14-0431T Child

SAUER SPECULUMS

Solid blades

Blade spread 20.00 mm

Overall length 35 mm

14-030 Child (8.00 mm blades)

14-031 Newborn (5.00 mm blades)

14-032 Premature (4.00 mm blades)



14 - SPECULUMS

BARRAQUER WIRE SPECULUMS

Angled for temporal approach

Stainless Steel

14-022D
2**Closed rounded wire blades**14.00 mm blades
Overall length 45 mm14-022S Adult **MOST POPULAR**11.00 mm blades
Overall length 38 mm14-023S Child **POPULAR**10.00 mm blades
Overall length 38 mm14-024S Infant **POPULAR**4.00 mm blades
Overall length 25 mm14-0244S Newborn **MOST POPULAR****Solid blades**14.00 mm blades
Overall length 40 mm14-0221S Adult **MOST POPULAR**11.00 mm blades
Overall length 35 mm

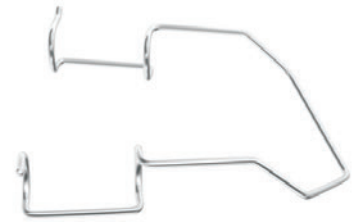
14-0231 Child

5.00 mm blades
Overall length 28 mm

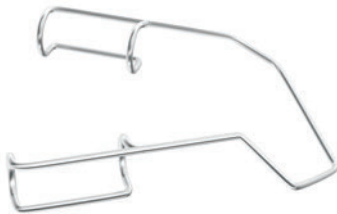
14-0241S Newborn

4.00mm blades
Overall length 28 mm

14-0222S Premature

**Open wire blades**14.00 mm blades
Overall length 45 mm14-025S Adult **MOST POPULAR**11.00 mm blades
Overall length 40 mm

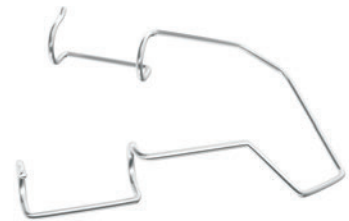
14-026S Child

**Closed wire blades**14.00 mm blades,
Overall length 40 mm14-028S Adult **MOST POPULAR**11.00 mm blades,
Overall length 36 mm

14-0281S Child

**Open rounded wire blades**14.00 mm blades,
Overall length 40 mm

14-0282S Adult

**Open wire blades**14.00 mm blades,
Overall length 45 mm

14-0286S Adult

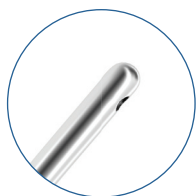
10.00 mm blades,
Overall length 36 mm

14-0287S Child

CANNULAS

ANESTHESIA CANNULAS

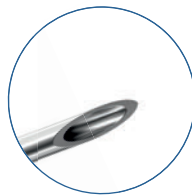
Used to deliver anesthetic agents inside the muscle cone or the posterior Sub-Tenon's space.



Sub-Tenon's Anesthesia Cannula

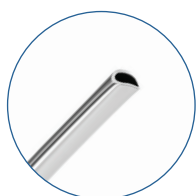
Curved
0.30 mm side port

15-009 19 Ga × 25 mm **POPULAR**



Atkinson Retrobulbar Needle

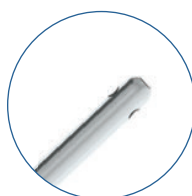
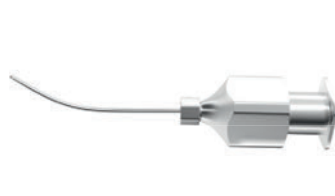
15-001-23 23 Ga × 38 mm



Sub-Tenon's Anesthesia Cannula

Curved
Flattened tip
Front opening

15-013-19 19 Ga × 25 mm



Sub-Tenon's Anesthesia Cannula

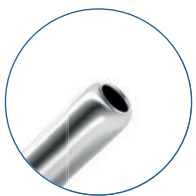
Curved
3 ports of 0.40 mm

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 angled tip

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

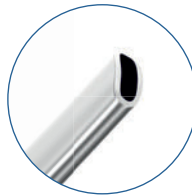
POPULAR

6 mm angled tip

15-052-27 27 Ga × 22 mm

8 mm angled tip

15-053-27 27 Ga × 22 mm



Bishop-Harmon Anterior Chamber Cannula

8 mm angled tip

Angled 40°

Spatulated

15-055-19 19 Ga × 25 mm

**MOST
POPULAR**

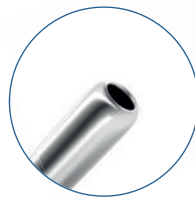


15 - CANNULAS

**Bracken Anterior Chamber Cannula**

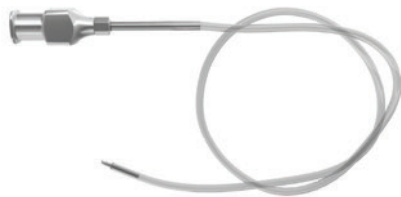
Curved 90°
Flattened beveled tip

15-057 19 Ga × 23 mm

**McIntyre Anterior Chamber Cannula**

Angled 45°
Smooth blunt tip
Front opening

15-061-26 26 Ga × 20 mm

**Lewicky Anterior Chamber Maintainer**

Self-retaining threaded tip for stable fixation within the corneal stroma
27.5 cm silicone tubing

15-065 20 Ga × 3.5 mm tip

**MOST
POPULAR**

**Jaymce Anterior Chamber Maintainer**

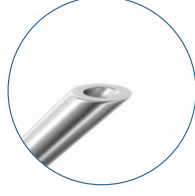
Bulbous beveled tip allows easy insertion and stable fixation within the corneal stroma
27.5 cm silicone tubing

15-1067 20 Ga × 4 mm 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**

Atkinson tip
27.5 cm silicone tubing

15-067 23 Ga × 5 mm tip **POPULAR**

IRRIGATING/ASPIRATING CANNULAS

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

Simcoe I/A Cannulas

Regular
0.30/0.40 mm irrigation port, 0.40 mm side opening for aspiration
Irrigation through luer-lock hub, aspiration through the silicone tubing hub

15-129-0.3 23/23 Ga **MOST
POPULAR**
15-129-0.4 23/23 Ga

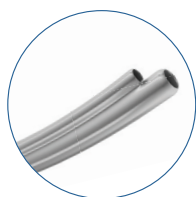
Reverse
0.30/0.40 mm aspiration port, 0.40 mm side opening for irrigation
Aspiration through luer-lock hub, irrigation through the silicone tubing hub

15-133-0.3 23/23 Ga
15-133-0.4 23/23 Ga

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



ECCE p.152
PHACO p.151

**Gills I/A Cannula**

Side by side front opening

15-119 23/23Ga

**J-Shaped I/A Cannula**Regular
"J" shape facilitates removal
of cortex at 12 o'clock position
0.30 mm top port

15-1149R 23/23 Ga, Right

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 5.00 mm wide, 9.00 mm long

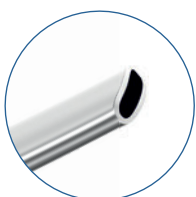
15-183 23 Ga × 35 mm

**Sheets Irrigating Vectis**3 irrigating ports
Serrations on top
Loop 6.50 mm wide, 19.00 mm long

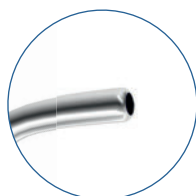
15-203 21 Ga × 38 mm

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**Flattened on the horizontal
plane tip provides the broad
stream of fluid
Angled 45°, 11 mm angled tip15-071-23 23 Ga × 22 mm
15-071-25 25 Ga × 22 mm
15-071-27 27 Ga × 22 mm**MOST
POPULAR****Chang Nucleus Hydrodissector**Beveled tip used to rotate the nucleus
Flat tip ensures easy insertion under the
capsular rim and broad stream of fluid
Angled 90°

15-0681 27 Ga × 16 mm

**MOST
POPULAR****Pearce J-Shaped Micro Hydrodissector**Hook 1.75 mm wide, 2.25 mm long
"J" shape facilitates hydrodissection
at the 12 o'clock position

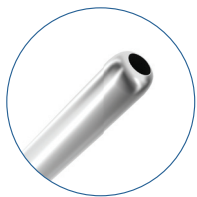
15-073-27 27 Ga × 22 mm

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

15 - CANNULAS

CORTEX REMOVAL CANNULAS

Used to remove cortical material during phacoemulsification.

**McIntyre-Binkhorst Cannula**

Left
Blunt tip

15-079L 26 Ga × 22 mm

**Simcoe Cortex Extractor Cannula**

0.35 mm side port

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

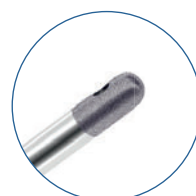
**CAPSULE POLISHERS**

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**

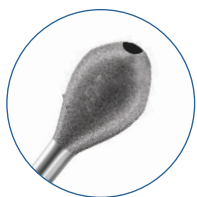
Disc-shaped sandblasted tip
Curved tube for better visualization
For a sub-2.00 mm incision

15-170 23 Ga × 25 mm

**Kratz Capsule Polisher**

0.30 mm side 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

POPULAR



GLAUCOMA CANNULAS



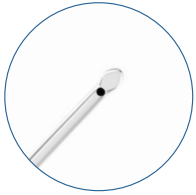
Viscocanalostomy Cannula

For viscoelastic injection during Glaucoma surgery
Angled micro-gauge cannula with 5 mm beveled tip

15-1051-30 30 Ga × 20 mm

DALK CANNULAS

DALK
p.157



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

**MOST
POPULAR**

REFRACTIVE CANNULAS



Vidaurri LASIK Irrigation Cannula

Universal cannula simultaneously irrigates both sides of the flap, washes the stromal bed and enables the flap positioning
Double-armed, 8 irrigating ports

15-371-25 25 Ga × 22 mm



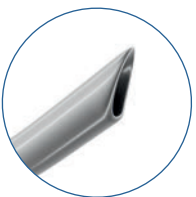
Buratto LASIK Irrigation Cannula

3 irrigating ports of 0.25 mm

15-379-25 25 Ga × 32 mm

FEMTOLASIK
p.154

LASIK
p.154



Slade LASIK Cannula

Flattened spatulated tip

15-376 26 Ga × 25 mm

LASIK
p.154



Banaji LASIK Irrigation Cannula

Curved
4 ports of 0.25 mm

15-373-25 25 Ga × 22 mm **POPULAR**

LASIK
p.154



Gimbel LASIK Fountain Cannula

Right
Single port of 0.25 mm

15-378R 25 Ga × 25 mm

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

LACRIMAL CANNULAS

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



Lacrimal Cannulas

23 Ga cannula with 20 Ga reinforced shaft
Malleable tip

- 15-027 23 Ga × 32 mm, Straight
- 15-029 23 Ga × 32 mm, Curved (shown)



Bailey Lacrimal Cannula

Straight
23 Ga cannula with 20 Ga reinforced shaft

- 15-031 23 Ga × 15 mm **POPULAR**



Shahinian Lacrimal Cannula

Smooth bullet shape tip

- 15-032 25 Ga × 35 mm



Fasanella Lacrimal Cannula

Gently curved

- 15-033 23 Ga × 42 mm **POPULAR**



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

**MOST
POPULAR**



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

ALGERBRUSH INSTRUMENTS*

COMPLETE SET OF A POWER HANDLE, CHUCK, AND BURR



Pterygium Remover



Diamond burr provides excellent smoothing of corneal surface after surgical removal of the tissue.

MOST POPULAR

16-051-2.5

With a 2.50 mm
Diamond Round Fine Grit Burr



POPULAR

16-050-3.5

With a 3.50 mm
Diamond Round Medium
Grit Burr



16-050-5.0

With a 5.00 mm



Rust Rings Remover

Used to remove foreign bodies and rust rings from patient's eye.

Tungsten carbide coating ensures efficient corneal surface smoothing.

16-140 With a 1.00 mm Burr

16-141 With a 0.50 mm Burr



ALGERBRUSH REPLACEMENT BURRS*

Pterygium Remover Replacement Burrs with Chuck

1 per box, reusable, non-sterile

POPULAR

16-051-2.5B

Diamond Round Fine Grit Burr,
2.50 mm



16-051-3.5B

Diamond Round Medium
Grit Burr, 3.50 mm



MOST POPULAR

16-052-5.0B

Diamond Disk-Shaped Medium
Grit Burr, 5.00 mm



Rust Rings Remover Replacement Burrs

5 per box, reusable, non-sterile

POPULAR

16-142B Tungsten Burr, 1.00 mm

16-143B Tungsten Burr, 0.50 mm



*Not available in Canada

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

DISPOSABLE ELECTRIC EYE CAUTERIES

Electric Eye Cautery

Battery operated
Low temperature

16-041 adjustable fine tip
16-042 elongated fine tip

STERILE

2

10
BOX

FIXATION RINGS

Fine-Thornton Phaco Fixation Ring

3/4 open ring with swivel
Titanium

13.00 mm diameter ring with teeth
Overall length 96 mm

16-036T **POPULAR**

14.00 mm diameter ring with teeth
Overall length 98 mm

16-0341T

16-036S

SS



FLIERINGA RINGS

Flieringa Rings

Sutured to the sclera to support the globe
during difficult eye operations.

Stainless Steel

16-030-14 (14.00 mm)

16-030-15 (15.00 mm)

16-030-16 (16.00 mm)

16-030-17 (17.00 mm)

16-030-18 (18.00 mm)

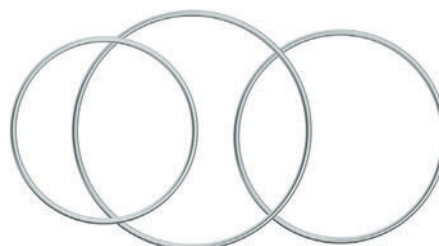
16-030-19 (19.00 mm)

16-030-20 (20.00 mm)

16-030-21 (21.00 mm)

16-030-22 (22.00 mm)

16-030-24 (24.00 mm)



INJECTORS

Injector for Capsular Ring with Irrigation

Designed for one-hand implantation of the
capsular tension rings with diameters of 10,
11 and 12 mm.

Allows to implant the capsular tension ring
clockwise and counter-clockwise.

Back cover of the instrument can be
easily opened to flush and clean the inner
mechanism of the injector.

Overall length 162 mm

16-253



IOL Injector

Plunger mechanism with reverse inner spring
for easy and efficient one-handed implantation technique
Specially designed handle with a ring enables firm
grip and precise control.

Can be supplied with **4-2141T IOL Loading Forceps**.

Overall length 212 mm

16-2806* For A, B, C cartridges

16-2808* For D cartridge **POPULAR**

ECCE
p.152PHACO
p.151

*Not available in US, Japan, Germany, Switzerland

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

IOL Injector

Plunger mechanism with reverse inner spring for easy and efficient one-handed implantation technique

Specially designed handle

enables firm grip and precise control.

Can be supplied with **4-2141T IOL Loading Forceps**.

Overall length 187,5 mm

16-2807* For D cartridge



IOL Injector NaviJect™

Plunger mechanism with reverse inner spring for easy and efficient one-handed implantation technique

Specially designed handle with a ring for precise control.

To be used with **IOL cartridges CAT-22, CAT-24**.

Overall length 178,5 mm

16-2853



LENS LOOPS

Wilder

Lens Loop

4.00 mm width

Overall length 134 mm

16-072 **MOST POPULAR**



LID PLATES

Lid Plate

20.00 mm and 24.00 mm wide

Nonreflecting surface

Overall length 110 mm

16-50S Stainless Steel (shown) **POPULAR**
16-50T Titanium



PUNCHES & RONGEURS

Belz

Lacrimal Sac Rongeur

Polished finish

Overall length 185 mm

Stainless Steel

16-138



Kerrison
Rongeur

3.00 mm wide

9.00 mm opening

Polished finish

Stainless Steel

Overall length 140 mm

16-136 size 0



*Not available in US, Japan, Germany, Switzerland

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

16 - MISCELLANEOUS

RUMEX Corneoscleral Punch

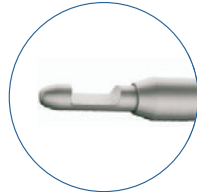
Set of Stainless Steel tips:
0.50 mm, 0.75 mm, 1.00 mm, 1.50 mm
Titanium handle
Overall length 122 mm

16-010

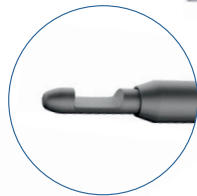
**Micro Trabeculectomy Punch**

0.60 mm diameter head
Bullet-shaped tip
0.30 mm × 0.60 mm deep bite
Compatible with Squeeze Handle 12-003T
Tip only

16-011* 20 Ga

GLAUCOMA
p.15916-011S
SS**Kelly****Descemet's Membrane Punch**

Stainless Steel tip
Serrated squeeze action Titanium handle
Overall length 131 mm

16-011 **MOST POPULAR****SCLERAL DEPRESSORS****Flynn****Scleral Depressor**

Loop style tip for depressing pediatric sclera
Overall length 100 mm

16-115 **MOST POPULAR****Schocket****Double-Ended Scleral Depressor**

With pocket clip
Overall length 143 mm

16-111 Titanium Handle/Stainless Steel tips (shown)

16-111S Stainless Steel **MOST POPULAR**16-111S
SS**SPOONS & CURETTES****Bunge****Evisceration Spoon**

Small size
Overall length 137 mm

16-061

Large size
Overall length 141 mm

16-062

ENUCLEATION
p.168**Meyerhoefer****Chalazion Curette**

Overall length 135 mm

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)

POPULAR
POPULAR
MOST
POPULAR
POPULAR

CHALAZION
p.16516-063S
SS16-064S
SS16-065S
SS16-066S
SS16-067S
SS

*Tip only. Handles are sold separately.

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

Wells Enucleation Spoon

Overall length 145 mm

16-060



ENUCLEATION
p.168

SURGICAL MALLET & CHISELS

Surgical Chisel

3.00 mm

Overall length 136 mm

Stainless Steel

16-137



Surgical Mallet

Polished finish

Overall length 177 mm

Stainless Steel

16-135



LACRIMAL
p.162

NASAL SPECULUMS

Nasal Speculum

Adult size

Polished finish

Stainless Steel

Overall length 150 mm

16-127



LACRIMAL
p.162

TRABECULOTOMES

Harms

Trabeculotome

9.00 mm long pointed tips with 3.00 mm spread

Overall length 51 mm

Stainless Steel

16-012S left (shown)

16-013S right



GLAUCOMA
p.159

TREPHINES

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

POPULAR

POPULAR

POPULAR



CORNEAL
p.156

TUNNEL MAKERS

Tunnel Maker

ID 4.40 mm/ED 5.60 mm

Stainless Steel

16-173S Left

16-174S Right



ICRS
p.158

PERIOSTEAL ELEVATORS

Tenzel Periosteal Elevator

Shaft size to tip - 30.00 mm

Paddle width - 4.00 mm

Paddle thickness -1.40 mm

Overall length - 130 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

STERILIZATION TRAYS

Size Chart

| Item | Inserts | Dimensions | | Size | Configuration | Accommodates, number of instruments |
|-----------------------|----------------------------|---------------|------------------|-------------|--------------------------------|---|
| | | mm | in | | | |
| Plastic Tray | | | | | | |
| 18-300 | 2 silicone plug-in inserts | 190×101×38 | 7.5×4×1.5" | Medium | Single level | 1 |
| 18-301-1 | 2 silicone plug-in inserts | 152×63.5×19 | 6×2.5×0.75" | Small | Single level | 2 |
| 18-305-1 | 2 silicone plug-in inserts | 254×152.4×38 | 10×6×1.5" | Large | Single level | 3 |
| 18-303-1 | 2 silicone plug-in inserts | 190×101×19 | 7.5×4×0.75" | Medium | Single level | 4 |
| 18-300-1 | silicone finger tip mat | 190×101×38 | 7.5×4×1.5" | Medium | Single level | 4-6 |
| 18-301 | silicone finger tip mat | 152×63.5×19 | 6×2.5×0.75" | Small | Single level | 2-3 |
| 18-302 | silicone finger tip mat | 165×101×19 | 6.5×4×0.75" | Small | Single level | 4-5 |
| 18-303 | silicone finger tip mat | 190×101×19 | 7.5×4×0.75" | Medium | Single level | 4-6 |
| 18-304 | silicone finger tip mat | 254×152×19 | 10×6×0.75" | Large | Single level | 10-15 |
| 18-305 | silicone finger tip mat | 254×152×38 | 10×6×1.5" | Extra Large | Double level | 20-30 |
| 18-307 | silicone finger tip mat | 68.5×38×25.5 | 3×1.5×1" | Very Small | Single level | 1-2 |
| 18-308 | silicone finger tip mat | 190.5×63.5×19 | 7.5×2.5×0.75" | Medium | Single level | 4-5 |
| Stainless Steel Trays | | | | | | |
| 18-318 | silicone finger tip mat | 240×240×60 | 9.5×9.5×2.5" | Extra Large | Double level | 20-30 |
| Aluminum Trays | | | | | | |
| 18-319 | silicone finger tip mat | 155×65×20 | 6.0×2.5×0.80" | Small | Single level | 2-3 |
| 18-320 | silicone finger tip mat | 155×65×40 | 6.0×2.5×1.5" | Small | Single level | 2-3 |
| 18-321 | silicone finger tip mat | 200×65×20 | 7.75×2.5×0.80" | Medium | Single level | 4-5 |
| 18-322 | silicone finger tip mat | 200×110×20 | 7.75×4.25×0.80" | Medium | Single level | 4-6 |
| 18-323 | silicone finger tip mat | 200×110×40 | 7.75×4.25×1.5" | Medium | Single level | 4-6 |
| 18-324 | silicone finger tip mat | 260×160×20 | 10.25×6.25×0.80" | Large | Single level | 10-15 |
| 18-325 | silicone finger tip mat | 260×160×40 | 10.25×6.25×1.5" | Large | Single level | 10-15 |
| 18-326 | silicone finger tip mat | 260×160×40 | 10.25×6.25×1.5" | Extra Large | Double level | 20-30 |
| 18-327 | silicone finger tip mat | 260×160×80 | 10.25×6.25×3.25" | Extra Large | Double level | 20-30 |
| 18-328 | silicone finger tip mat | 260×160×80 | 10.25×6.25×3.25" | Large | Single level | 10-15 |
| 18-331 | silicone finger tip mat | 215×165×20 | 8.50×6.50×0.80" | Large | Single level | 6-8 |
| 18-332 | silicone finger tip mat | 310×235×20 | 12.25×9.25×0.80" | Extra Large | Single level | 20-30 |
| 18-333 | silicone finger tip mat | 375×220×45 | 14.75×8.75×1.75" | Extra Large | Double Level + Open Section | 30-45 |
| 18-334 | silicone finger tip mat | 390×265×20 | 15.5×10.5×0.80" | Extra Large | Single level | 25-35 |
| 18-335 | silicone finger tip mat | 390×265×40 | 15.5×10.5×1.5" | Extra Large | Single level | 25-35 |
| 18-336 | silicone finger tip mat | 390×265×40 | 15.5×10.5×1.5" | Extra Large | Double level | 50-70 |

PLASTIC TRAYS

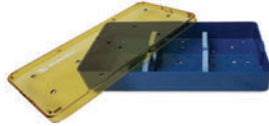
RUMEX plastic trays are molded from General Electric's ULTEM® resin, using mold flow analysis to guarantee product strength, structural integrity, and extended life cycle. Trays come either with silicone finger tip mat or plug-in inserts.



18-300 **POPULAR**

Silicone inserts
for 1 instrument

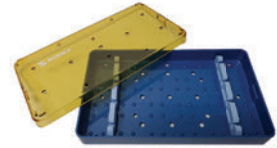
190×101×38 mm
7.5×4×1.5 in



18-303-1

Silicone inserts
for 4 instruments

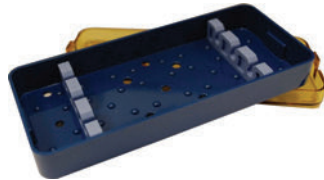
190×101×19 mm
7.5×4×0.75 in



18-305-1

Silicone inserts
for 3 instruments

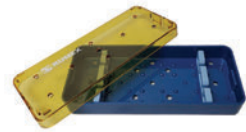
254×152.4×38 mm
10×6×1.5 in



18-301-1 **POPULAR**

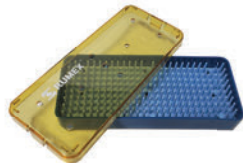
Silicone inserts
for 2 instruments

152×63.5×19 mm
6×2.5×0.75 in



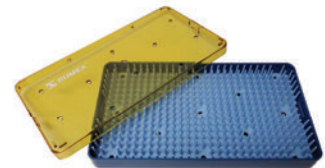
18-301 **MOST POPULAR**

152×63.5×19 mm
6×2.5×1.5 in



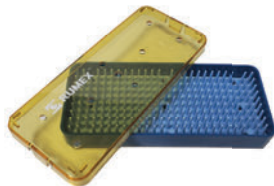
18-300-1

190×101×38 mm
7.5×4×1.5 in



18-308 **MOST POPULAR**

190.5×63.5×19 mm
7.5×2.5×0.75 in



18-302 **MOST POPULAR**

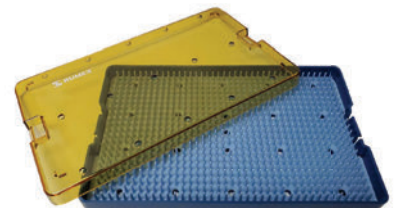
165×101×19 mm
6.5×4×0.75 in

18-303 **MOST POPULAR**

190×101×19 mm
7.5×4×0.75 in

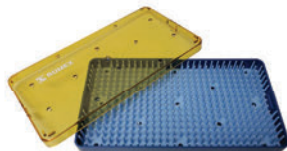
18-304 **MOST POPULAR**

254×152×19 mm
10×6×0.75 in



18-303

190×101×19 mm
7.5×4×0.75 in



18-307 **POPULAR**

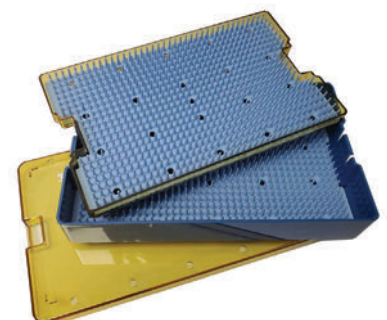
68.6×38×25.4 mm
3×1.5×1 in



18-305 **MOST POPULAR**

Double Level

254×152×38 mm
10×6×1.5 in



18 - STERILIZATION TRAYS

ALUMINUM TRAYS

RUMEX aluminum trays are manufactured from an anodized aluminum alloy to prevent corrosion and ensure long-term use. This aluminum alloy has high thermal conductivity for faster drying. The trays are lightweight for easy transportation and handling. Trays come with silicone finger tip mat.

NEW

**AUTOClave
STEAM
DRY HEAT
CHEMICAL**

**18-319**

155×65×20 mm
6×2.5×0.8 in

18-320

155×65×40 mm
6×2.5×1.5 in

18-321

200×65×20 mm
2.5×7.75×0.8 in

**18-322**

200×110×20 mm
7.75×4.25×0.8 in

18-323

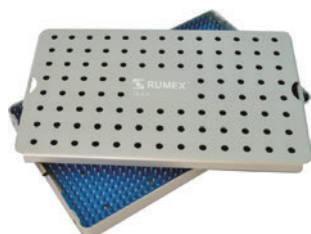
200×110×40 mm
7.75×4.25×1.5 in

**18-324**

260×160×20 mm
10.25×6.25×0.8 in

18-325

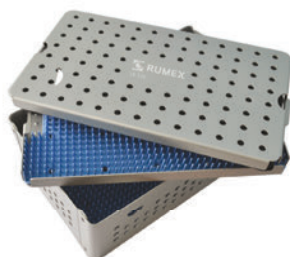
260×160×40 mm
10.25×6.25×1.5 in

**18-328**

260×160×80 mm
10.25×6.25×3.25 in

18-326

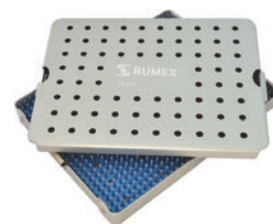
Double Level
260×160×40 mm
10.25×6.25×1.5 in

**18-327**

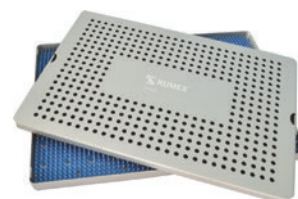
Double Level
260×160×80 mm
10.25×6.25×3.25 in

18-331

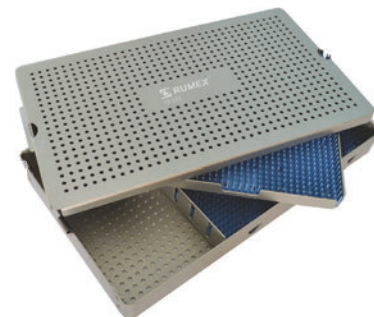
215×165×20 mm
8.5×6.5×0.8 in

**18-332**

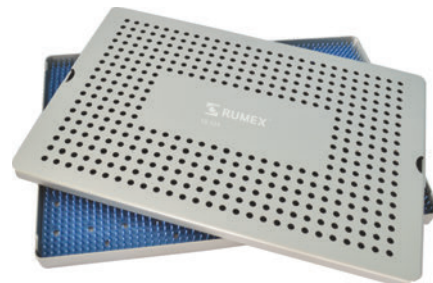
310×235×20 mm
12.25×9.25×0.8 in

**18-333**

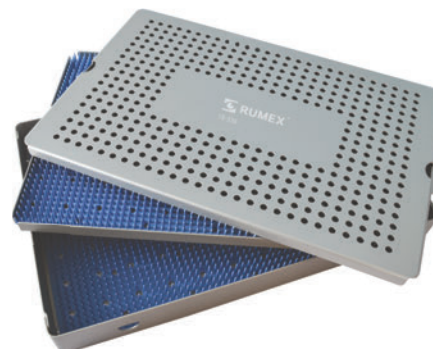
Double Level +
Open Section
375×220×45 mm
14.75×8.75×1.75 in

**18-334**

390×265×20 mm
15.5×10.5×0.8 in

**18-335**

390×265×40 mm
15.5×10.5×1.5 in

**18-336**

Double Level
390×265×40 mm
15.5×10.5×1.5 in

**STAINLESS STEEL TRAYS****18-318**

With silicone mat, double level
240×240×60 mm
9.5×9.5×2.5 in

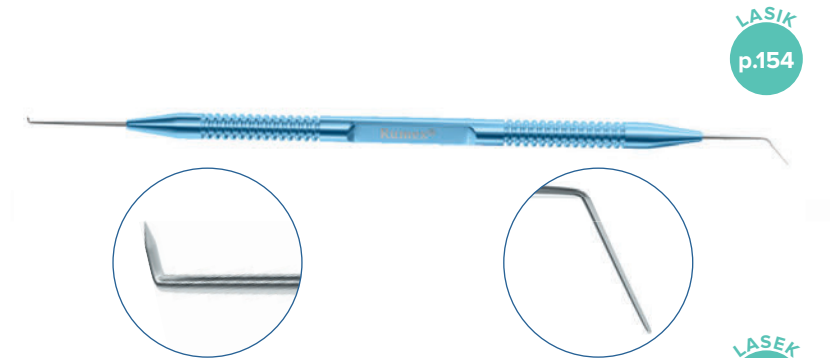
Product design and/or features that do not influence its functionality and main parameters are subject to change

LASEK/LASIK INSTRUMENTS

SPATULAS

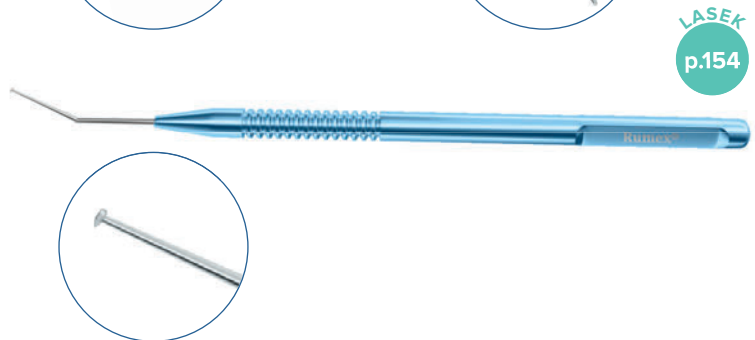
LASIK Spatula and Flap Retreatment Instrument

Double-ended
Overall length 133 mm
20-013



LASEK Epithelial Micro Hoe

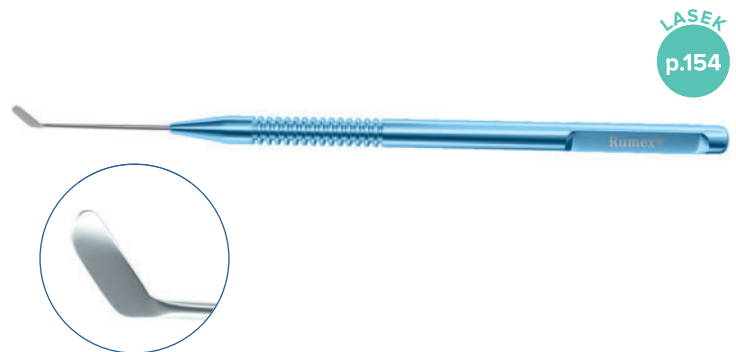
Can be used to detach edge of the epithelium flap.
Overall length 120 mm
20-131



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 **POPULAR**



SPATULAS

FemtoLASIK Flap Spatula

Double-ended
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 130 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



EPITHELIUM REMOVAL KNIVES

Hockey Knife

To remove epithelium during PRK procedure and LASIK retreatment
Overall length 128 mm

20-001 **POPULAR**



LASIK
p.154

20-001s
SS

Lindstrom LASIK/PRK Spatula and Epithelium Removal Board

Semi-sharp end of the instrument is designed to remove epithelium. Fine spatula on the other end is used for flap manipulation during LASIK surgery.

Overall length 148 mm

20-002



LASIK
p.154

TREPHINES AND FUNNELS

LASEK Trephine

For epithelial flap creation
Depth of the incision 70 μ m
Overall length 128 mm

20-1011 8.00 mm

20-1021 9.00 mm



LASEK Funnel

For application of alcohol solution
For 8.00 mm and 9.00 mm optical zones
Overall length 129 mm
Titanium

20-1031T 8.50 mm

20-1041T 9.50 mm



LASEK
p.154

LASEK Trephine & Funnel

For epithelial flap creation
Depth of the incision 70 μ m
For application of alcohol solution
For 8.00 mm and 9.00 mm optical zones
Overall length 142 mm

20-121 8.00 & 8.50 mm

20-122 9.00 & 9.50 mm



**DON'T FORGET
TO BUY**

MARKING PENS

Disposable Marking Pen

Double-ended

20-050



STERILE

2

**10
PER
BOX**

**MOST
POPULAR**

Best-selling item

POPULAR

SKU preferred by the majority of customers

NEW

Recently introduced into the product range of RUMEX International Co.

**COMING
SOON**

This item will be available in RUMEX range soon



Disposable instruments



Available in a single-use edition



Available in Stainless Steel



Featured instrument in the set on page 100

**DON'T FORGET
TO BUY**

Frequently bought together



Quantity in the box

VITREORETINAL INSTRUMENTS AND CONSUMABLES

| | |
|--|-----|
| A VARIETY OF OPTIONS FOR VITREORETINAL SURGERY | 128 |
| FEATURED PRODUCTS | 129 |
| VITREORETINAL INSTRUMENT TIPS | 130 |
| HANDLES FOR VITREORETINAL INSTRUMENTS | 131 |
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| DISPOSABLE ONE-PIECE STAINLESS STEEL INSTRUMENTS | 141 |
| DISPOSABLE INSTRUMENTS WITH PLASTIC HANDLE | 142 |
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| VITREORETINAL CANNULAS | 145 |
| SILICONE OIL | 146 |
| SILICONE OIL INFUSION SYSTEMS | 147 |

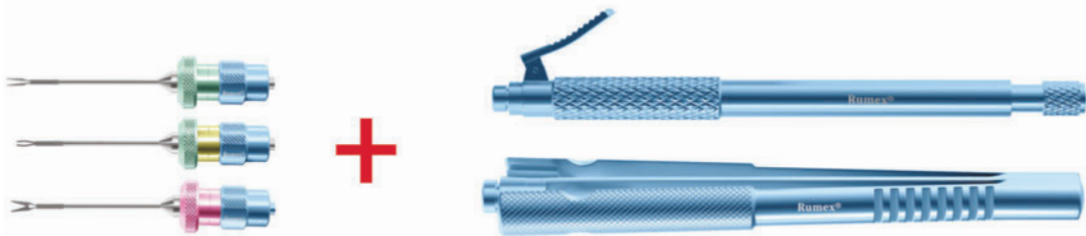
A VARIETY OF OPTIONS FOR VITREORETINAL SURGERY

REUSABLE

Option 1. Two-Piece Instruments

Universal Handle + Interchangeable Tips*

Money-Wise Solution



DURABLE **Ti** TITANIUM HANDLE **SS** STAINLESS STEEL TIPS

EASY TO CLEAN

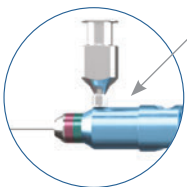
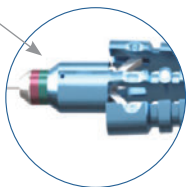
*completely detachable for most effective cleaning

Option 2. One-Piece Instruments

with Innovative RUMEX Flushing System**

Flushing port

Flushing cannula



**easy cleaning without disassembling

DISPOSABLE

READY FOR USE

Option 1. All Stainless Steel Instruments*

Precise performance and instant tactile control

STERILE

2

6 PER BOX

SHELF LIFE 3 YEARS



Option 2. Ergonomic 360-Degree Handle**

Enhanced utility due to rotatable squeeze handle

SHELF LIFE 5 YEARS



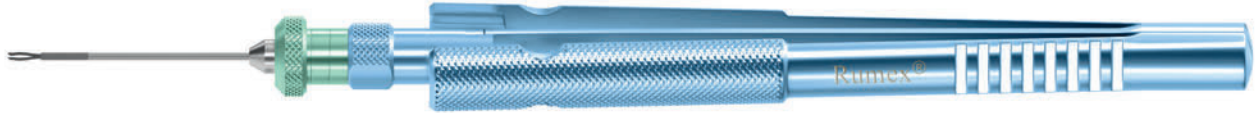
*Not available in US

**Not available in Europe, US

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

FEATURED PRODUCTS

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.

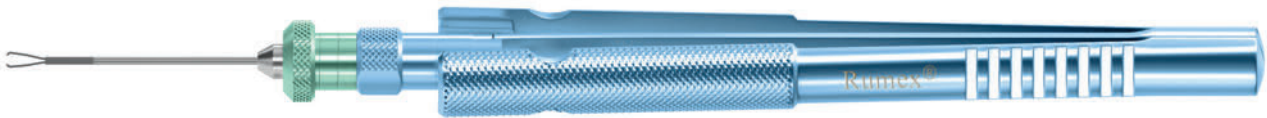


| | |
|-----------|-------|
| 12-420-23 | 23 Ga |
| 12-420-25 | 25 Ga |
| 12-420-27 | 27 Ga |

POPULAR
POPULAR

Tip only

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.

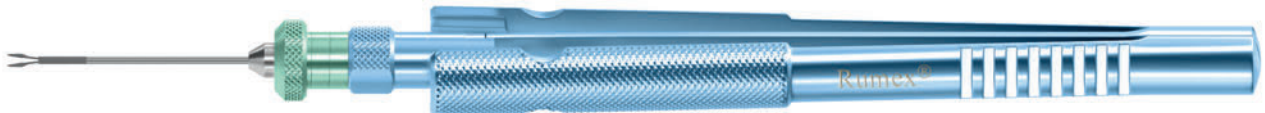


| | |
|---------|-------|
| 12-4013 | 23 Ga |
|---------|-------|

Tip only

MOST
POPULAR

Gripping Forceps with a 'Crocodile' Platform



Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.



| | |
|-----------|-------|
| 12-304 | 20 Ga |
| 12-304-23 | 23 Ga |
| 12-304-25 | 25 Ga |

MOST
POPULAR

Tip only

VITREORETINAL INSTRUMENT TIPS: 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 | | |
|------------------------|--------|------|
| Gauge | (inch) | (mm) |
| 19 Ga | 0.043 | 1.10 |
| 20 Ga | 0.036 | 0.90 |
| 21 Ga | 0.032 | 0.80 |
| 22 Ga | 0.028 | 0.70 |
| 23 Ga | 0.025 | 0.63 |
| 25 Ga | 0.020 | 0.50 |
| 27 Ga | 0.016 | 0.40 |

Color Code System**

Color code system is used to indicate vitreoretinal tips, their function and size.

| Function | |
|--|-------------------|
| Pink | Scissors |
| Green | Forceps |
| Gauge | |
| Gray | 17 |
| Pink | 20 |
| Green | 23 |
| Blue | 25 |
| Yellow | 27 |
| COMPATIBILITY (adjustable to handles) | |
| Pink | 12-001T |
| Blue | 12-001T / 12-003T |

Manual Cleaning

Proper cleaning of the instrument is necessary to preserve its working condition.

RUMEX manufactures interchangeable microincisional and vitreoretinal instrument tips that can be cleaned with a regular syringe.



*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)

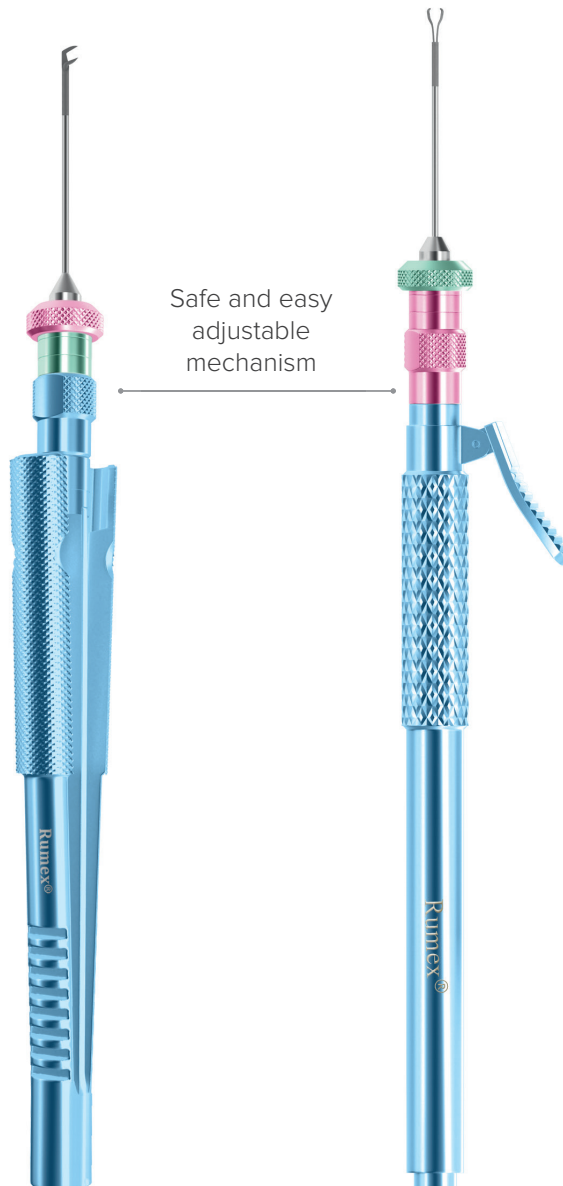


Ergonomic Model

Two Fingers Control
Squeeze Handle

12-003T **MOST
POPULAR**

- 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



Classic Model

One Finger Control
Handle

12-001T **MOST
POPULAR**

- One finger linear actuation
- Classic design approved by decades of work
- Compatible with all models of tips

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

*Tips are sold separately!

Product 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.



COMPATIBLE
WITH 12-003T ONLY

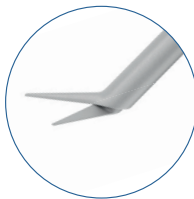


Vertical Scissors

70°
Sharp tips

12-202 20 Ga
12-202-23 23 Ga

**MOST
POPULAR**



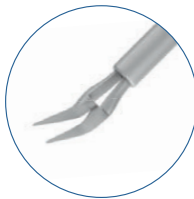
Horizontal Scissors

55°
12-206** 20 Ga



Klaus Lucke
Retinotomy Scissors

With bulbous tip
12-2020 20 Ga



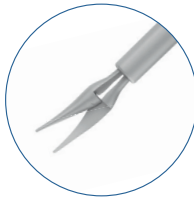
Horizontal Scissors

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



Vertical Scissors

45°
12-2029 25 Ga



Curved Subretinal
Scissors

Curvature radius 12.00 mm
12-209 20 Ga
12-209-23 23 Ga
12-2099 25 Ga

**MOST
POPULAR**



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

*Tips are sold separately!

** Compatible with Universal Handle 12-001T Only

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

INTERNAL LIMITING MEMBRANE (ILM) FORCEPS

Delicate branches for ILM peeling



ILM



Asymmetrical End-Grasping Forceps

Standard tube, 28.00 mm

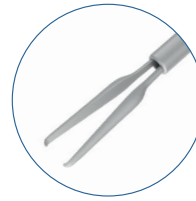
12-420-23 23 Ga **POPULAR**
12-420-25 25 Ga **POPULAR**
12-420-27 27 Ga

Designed for myopic eyes.
Elongated tube, 30.00 mm

12-4202-23 23 Ga

Enhanced visualization!

ILM



Eckardt End-Gripping Forceps

12-410 20 Ga
12-410-23 23 Ga
12-410-25 25 Ga
12-410-27 27 Ga

**MOST
POPULAR**

ILM

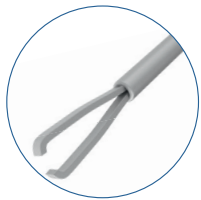


Tano Asymmetrical End-Gripping Forceps

12-411 20 Ga
12-411-23 23 Ga
12-411-25 25 Ga

Universal End-Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.

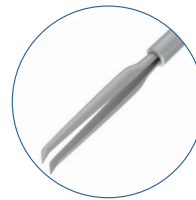
ILM



End-Grasping Forceps

Expanded space between branches

12-4013 23 Ga **MOST
POPULAR**
Enhanced visualization!



Tanaka Maculorhexis Forceps

12-414 23 Ga

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.



Kawai ILM Forceps

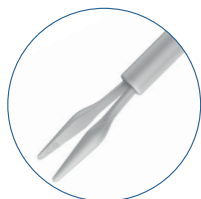
12-415 25 Ga

*Tips 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 sandblasted/serrated platform or nail shaped jaws



ERM



Gripping Forceps

With a sandblasted platform

| | |
|-----------|-------|
| 12-301 | 20 Ga |
| 12-301-23 | 23 Ga |
| 12-3019 | 25 Ga |

**MOST
POPULAR**



ERM

End-Gripping Forceps

With serrated micro jaws

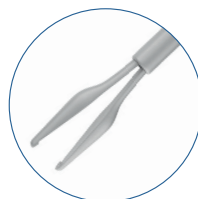
| | |
|--------|-------|
| 12-400 | 20 Ga |
|--------|-------|



ERM

Lucke Multipurpose Forceps

| | |
|---------|-------|
| 12-3044 | 20 Ga |
|---------|-------|



End-Gripping Forceps

With extended gripping area at the end of the tip

| | |
|---------|-------|
| 12-401 | 20 Ga |
| 12-4012 | 23 Ga |



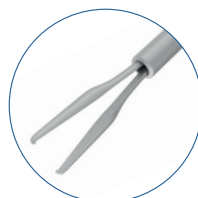
ERM

Gripping Forceps

With a "crocodile" platform

| | |
|-----------|-------|
| 12-304 | 20 Ga |
| 12-304-23 | 23 Ga |
| 12-304-25 | 25 Ga |

**MOST
POPULAR**



End-Gripping Forceps

With nail-shaped jaws

| | |
|-----------|-------|
| 12-402 | 20 Ga |
| 12-402-23 | 23 Ga |
| 12-4089 | 25 Ga |

POPULAR

Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.

*Tips are sold separately!

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

PICK FORCEPS***Pick Forceps**

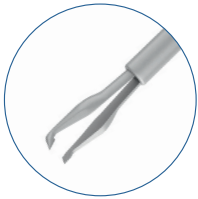
12-325 20 Ga
12-325-23 23 Ga
12-3259 25 Ga



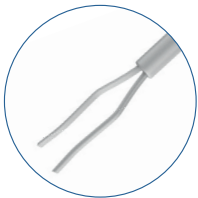
**MOST
POPULAR
POPULAR**

**Diamonized
Angled Gripping
Forceps**

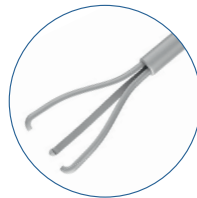
12-303 20 Ga

**De Juan
Pick Forceps**

12-413 20 Ga

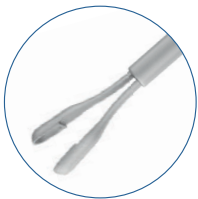
FOREIGN BODY REMOVAL FORCEPS***Avci Foreign
Body Forceps**

12-412*** 17 Ga

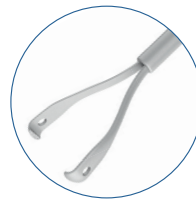
**Spring Gripping
Forceps**

12-321** 20 Ga
12-321-23*** 23 Ga

POPULAR

**Vitreoretinal
Forceps**

With cup jaws
12-313** 20 Ga

**Stolyarenko
Forceps**

For large foreign bodies

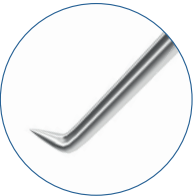
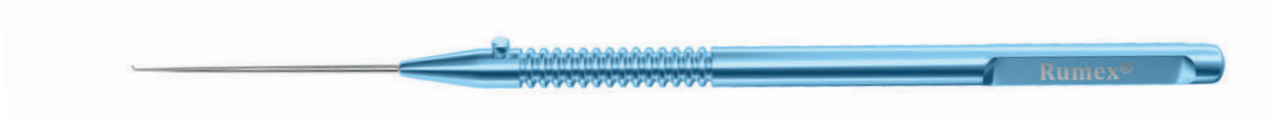
12-335** 20 Ga **POPULAR**

*Tip only. Handles are sold separately.

** Compatible with Universal Handle 12-001T only

*** Compatible with Universal Handles 12-001T and 12-003T

MEMBRANE INSTRUMENTS



Delicate Membrane Pick

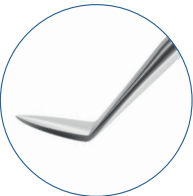
- 13-097-23 23 Ga
- 13-0979 25 Ga
- 13-097-27 27 Ga

MOST
POPULAR



Membrane Scratcher

- 13-092 20 Ga



Ogura PVD Spatula

- 13-1081-23 23 Ga



BRVO Knife

Designed for performing
a lateral CRVO incision.

- 13-1091-23 23 Ga

23 GAUGE INSTRUMENTS*

ILM



Eckardt End-Gripping Forceps

12-410-23 23 Ga

**MOST POPULAR**

Tano Asymmetrical End-Gripping Forceps

12-411-23 23 Ga



Asymmetrical End-Grasping Forceps

12-420-23 23 Ga

**POPULAR**

Enhanced visualization!

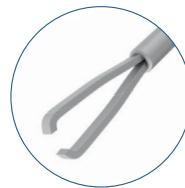


Asymmetrical End-Grasping Forceps

Designed for myopic eyes.
Elongated tube, 30.00 mm

12-4202-23 23 Ga

Enhanced visualization!



End-Grasping Forceps

Expanded space
between branches

12-4013 23 Ga

MOST POPULAR

Enhanced visualization!

ERM



Gripping Forceps

With a sandblasted
platform

12-301-23 23 Ga

**MOST POPULAR**

Vertical Scissors

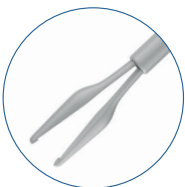
70°
Sharp tips

12-202-23 23 Ga

MOST POPULAR

Pick Forceps

12-325-23 23 Ga

**MOST POPULAR**

End-Gripping Forceps

With extended gripping area
at the end of the tip

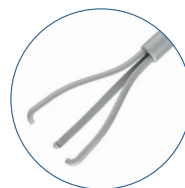
12-4012 23 Ga



Gripping Forceps

With a "crocodile" platform

12-304-23 23 Ga

**MOST POPULAR**

Spring Gripping Forceps

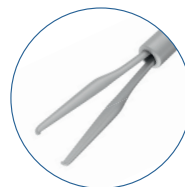
12-321-23 23 Ga

POPULAR

Curved Subretinal Scissors

Curvature radius 12.00 mm

12-209-23 23 Ga

MOST POPULAR

End-Gripping Forceps

With nail-shaped jaws

12-402-23 23 Ga

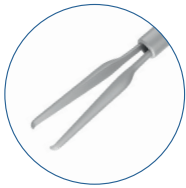
POPULAR

*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



Eckardt End-Gripping Forceps

12-410-25 25 Ga

**MOST
POPULAR**

Tano Asymmetrical End-Gripping Forceps

12-411-25 25 Ga



Asymmetrical End-Grasping Forceps

12-420-25 25 Ga **POPULAR**

Enhanced visualization!

ERM



Gripping Forceps

With a sandblasted platform

12-3019 25 Ga



Gripping Forceps

With a "crocodile" platform

12-304-25 25 Ga

**MOST
POPULAR**

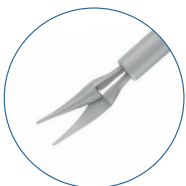
Vertical Scissors

45°
Sharp tips

12-2029 25 Ga



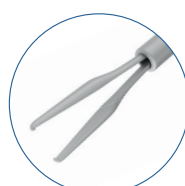
Pick Forceps

12-3259 25 Ga **POPULAR**

Curved Subretinal Scissors

Curvature radius 12 mm

12-2099 25 Ga

**MOST
POPULAR**

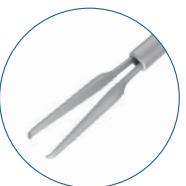
End-Gripping Forceps

With nail-shaped jaws

12-4089 25 Ga

27 GAUGE INSTRUMENTS*

ILM



Eckardt End-Gripping Forceps

12-410-27 27 Ga



Asymmetrical End-Grasping Forceps

12-420-27 27 Ga

Enhanced visualization!



*Tip only. Handles are sold separately.

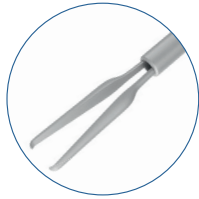
Product design and/or features that do not influence its functionality and main parameters are subject to change

ONE-PIECE VITREORETINAL INSTRUMENTS WITH FLUSHING SYSTEM

NEW

The tip can be easily cleaned without disassembling.

Special flushing cannula is provided for free!

ILM

Eckardt End-Gripping Forceps

12-410-23H 23 Ga
12-410-25H 25 Ga



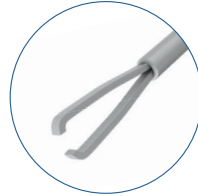
Tano Asymmetrical End-Gripping Forceps

12-411-23H 23 Ga
12-411-25H 25 Ga



Asymmetrical End-Grasping Forceps

12-420-23H 23 Ga
12-420-25H 25 Ga



End-Grasping Forceps

Expanded space
between branches

12-4013H 23 Ga
12-4013-25H 25 Ga

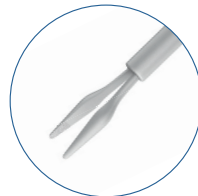
Enhanced visualization!

**ERM**

Gripping Forceps

With a "crocodile" platform

12-304-23H 23 Ga
12-304-25H 25 Ga



Gripping Forceps

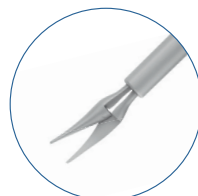
With a sandblasted platform

12-301-23H 23 Ga
12-301-25H 25 Ga



Pick Forceps

12-325-23H 23 Ga
12-325-25H 25 Ga



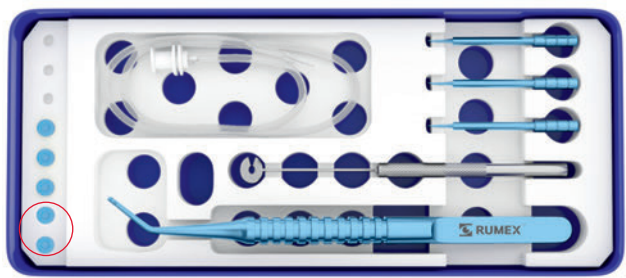
Curved Subretinal Scissors

Curvature radius 12.00 mm

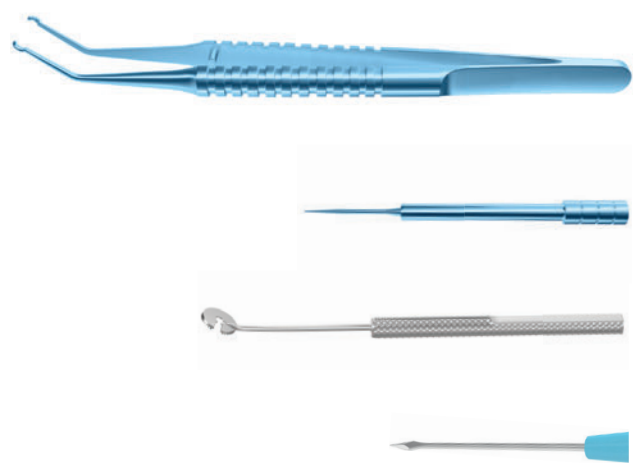
12-209-23H 23 Ga
12-209-25H 25 Ga



REUSABLE TWO STEP TROCAR SYSTEMS



2 extra cannulas



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
 - Sterilization tray – 1 pc

| | |
|------------|---------|
| 12-5173-23 | 23 Ga ● |
| 12-5173-25 | 25 Ga ● |

Loading Forceps

| | |
|---------|----------|
| 12-5186 | 23/25 Ga |
|---------|----------|

Instrument Cannula Inserter

| | |
|---------|-------|
| 12-5187 | 23 Ga |
|---------|-------|

Fixation Plate

| | |
|---------|----------|
| 12-5188 | 23/25 Ga |
|---------|----------|

MVR Knives

Multifacet blade

STERILE

2

6 PER BOX

| Straight | Angled |
|----------------|----------------|
| VRS-19 - 19 Ga | VRA-19 - 19 Ga |
| VRS-20 - 20 Ga | VRA-20 - 20 Ga |
| VRS-23 - 23 Ga | VRA-23 - 23 Ga |

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

DISPOSABLE ONE-PIECE STAINLESS STEEL INSTRUMENTS*

STERILE **2** **6** PER BOX

All stainless steel disposable instruments in 23 and 25 Ga are designed for precise manipulations during posterior segment surgeries.

The instruments are supplied sterile in a box of 6.



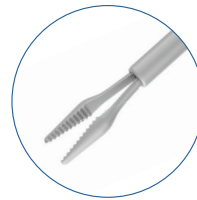
ILM



Eckardt End-Gripping Forceps

12-410-23D 23 Ga **POPULAR**
12-410-25D 25 Ga

ERM



Gripping Forceps

With a "crocodile" platform

12-304-23D 23 Ga
12-304-25D 25 Ga

ILM



Asymmetrical End-Grasping Forceps

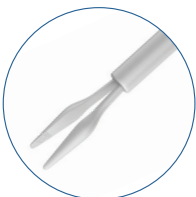
12-420-23D 23 Ga
12-420-25D 25 Ga

Pick Forceps



12-325-23D 23 Ga
12-325-25D 25 Ga

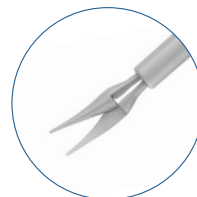
ERM



Gripping Forceps

12-301-23D 23 Ga
12-301-25D 25 Ga

Curved Scissors



12-209-23D 23 Ga
12-209-25D 25 Ga

*Not available in the US

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

DISPOSABLE INSTRUMENTS WITH PLASTIC HANDLE*

STERILE

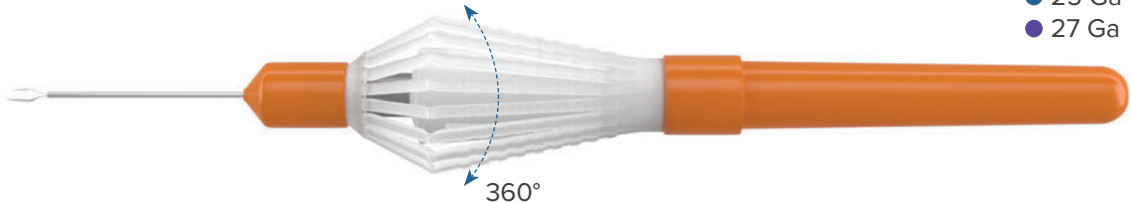
2

6 PER BOX

NEW

360-degree handle design incorporates a unique rotatability, convenience and actuation. The instrument’s weight is less than 8 grams. Lightweight plastic ergonomic handle especially valuable during hours-long surgeries.

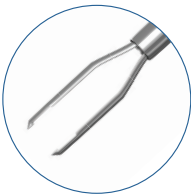
- 23 Ga
- 25 Ga
- 27 Ga



ILM

Eckardt End-Gripping Forceps

- 12-410-23DP 23 Ga
- 12-410-25DP 25 Ga
- 12-410-27DP 27 Ga

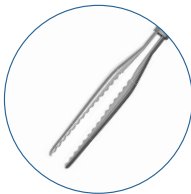


ERM

Gripping Forceps

With a “crocodile” platform

- 12-304-23DP 23 Ga
- 12-304-25DP 25 Ga
- 12-304-27DP 27 Ga



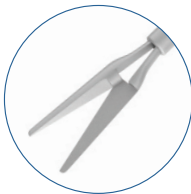
Curved Scissors

- 12-209-23DP 23 Ga
- 12-209-25DP 25 Ga
- 12-209-27DP 27 Ga



Straight Scissors

- 12-211-23DP 23 Ga
- 12-211-25DP 25 Ga
- 12-211-27DP 27 Ga



Vertical Scissors

- 45°
- 12-202-23DP 23 Ga
- 12-202-25DP 25 Ga



DISPOSABLE DIAMOND DUSTED RETRACTABLE ILM ELEVATORS**

STERILE

2

5 PER BOX

NEW

Designed to consistently create a precise edge to facilitate the ILM removal with forceps.

Diamond dusted soft silicone tip provides an extreme grip

Retractable version helps to adjust the length of the tip and allows for easy insertion through the trocar cannula



- 12-7523 23 Ga
- 12-7525 25 Ga



*Not available in the US and Europe
 ** Not available in Europe

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

DISPOSABLE ONE STEP TROCAR SYSTEMS***STERILE****2****6**
PER
BOX

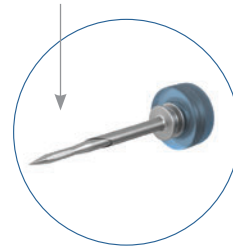
Each set includes:

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

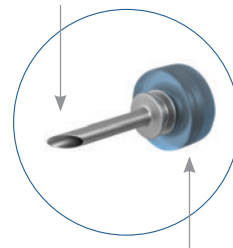
| | | |
|---------|-------|---|
| 12-5229 | 23 Ga | ● |
| 12-5244 | 25 Ga | ● |
| 12-5227 | 27 Ga | ● |

**Sharp MVR Blade**

Helps create a smooth incision and promotes low-pressure insertion and superior sealing

**Trocar Cannula**

Innovative sharp design of the cannula contributes to unstoppable smooth trocar insertion.

**Silicone Closure Valves**

Removable self-sealing valves ensure maintenance of the desired intraocular pressure (IOP) throughout the case and eliminate the need for plugs.

Trocar Cannula Inserter

The tip of the plastic handle serves as a caliper/ scleral marker (2 dimensions: 3 and 4 mm).

Universal Infusion Line for BSS

*Not available in Europe

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

BACKFLUSH HANDLES AND RESERVOIRS



Reusable Backflush Handle

Titanium

**MOST
POPULAR**

- 12-6000 Active aspiration
- 12-6010 Passive aspiration



STERILE

2

5
PER
BOX

Disposable Replacement Reservoir for Backflush Handle*



- 12-5159 Active aspiration
- 12-5147 Passive aspiration

DISPOSABLE BACKFLUSH INSTRUMENTS*

STERILE

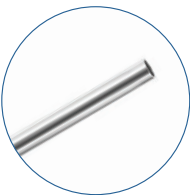
2

6
PER
BOX

The tool combines handle with soft, brush or blunt tip cannulas into one instrument.
The set comes with two connectors for active and passive aspiration.
Used for intraocular fluids and debris aspiration during vitreoretinal surgery.

NEW

- 23 Ga
- 25 Ga
- 27 Ga



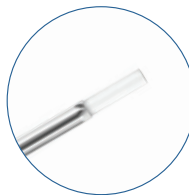
with **Blunt Tip**

- 12-5164H 23 Ga x 34 mm
- 12-5156H 25 Ga x 34 mm
- 12-5492H 27 Ga x 34 mm



with **Silicone Brush Tip**

- 12-5162H 23 Ga x 34 mm
- 12-5160H 25 Ga x 34 mm
- 12-5167H 27 Ga x 34 mm



with **Silicone Soft Tip**

- 12-5161H 23 Ga x 34 mm
- 12-5152H 25 Ga x 34 mm
- 12-5491H 27 Ga x 34 mm

*Not available in Europe

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

VITREORETINAL CANNULAS

Disposable Backflush Cannulas*

STERILE

2

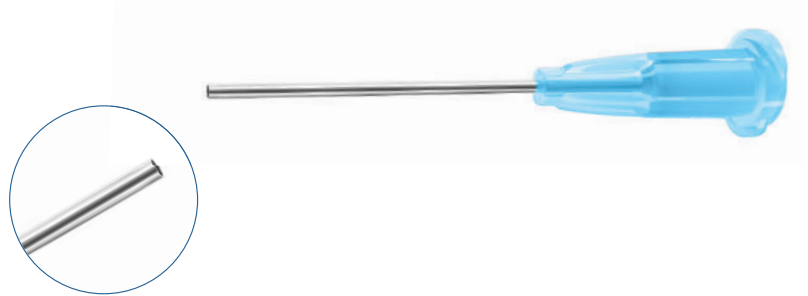
5
PER
BOX

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.

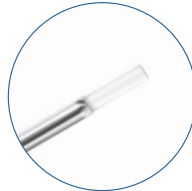
| | |
|---------|---------------|
| 12-5164 | 23 Ga x 34 mm |
| 12-5156 | 25 Ga x 34 mm |
| 12-5492 | 27 Ga x 34 mm |



Soft Tip Cannulas

Flexible silicone tip allows atraumatic entry through retinal or macular tears or holes and enables aspiration of subretinal fluid.

| | |
|---------|---------------|
| 12-5161 | 23 Ga x 34 mm |
| 12-5152 | 25 Ga x 34 mm |
| 12-5491 | 27 Ga x 34 mm |



Brush Tip Cannulas

The soft silicone brush tip cannula designed for atraumatic brushing of retina.

| | |
|---------|---------------|
| 12-5162 | 23 Ga x 34 mm |
| 12-5160 | 25 Ga x 34 mm |
| 12-5167 | 27 Ga x 34 mm |



STERILE

2

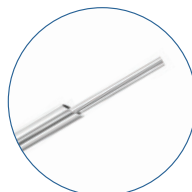
5
PER
BOX

Dual Bore Cannulas*

Dual Bore PFC Cannulas

Simultaneous infusion of heavy liquids and aspiration of intraocular fluids.

| | |
|---------|---------------|
| 12-5203 | 23 Ga x 33 mm |
| 12-5205 | 25 Ga x 33 mm |



*Not available in Europe

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

SILICONE OIL

Smartsil 1000/5000*

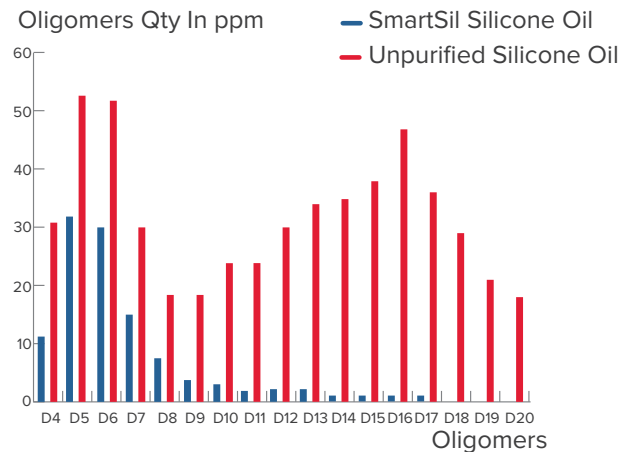
Purified Silicone Oil for Vitreoretinal Surgery

- Maximum interfacial tension and minimum interactions between tissues, cells and endo-tamponades media
- Optimal combination of specific gravity, refractive index and surface tension
- Different viscosity indexes enable easy injection (1000 cSt) and stable temporary tamponade (5000 cSt)
- Vacuum molecular distillation solvent-free purification - **no risk of emulsification**

Physico-chemical properties

| | |
|---------------------|------------------------------------|
| Interfacial tension | $\geq 40 \text{ mNm}^{-1}$ at 37°C |
| Density | 0.97 |
| Viscosity | 1000/5000 cSt |
| Refractive index | 1.40 |
| Volatility | < 1% |
| Polydispersity | < 2.80 |
| Volume of oil | 10 ml |
| Syringe | 20 ml |
| Shelf Life | 3 years |

GC



Purification

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

Indication

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

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

Silicone Oil Infusion System is sold separately



*Not available in the US

*To be used with Silicone Oil Infusion System

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

SILICONE OIL INFUSION SYSTEMS

Silicone Oil Infusion Systems are used to connect RUMEX silicone oil syringe to the vitreoretinal surgical equipment.



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



Disposable Viscous Fluid Injection Cannulas*

Allow injection of viscous fluids such as silicone oil through a 23 Ga or 25 Ga trocar cannula

| | |
|---------|--------------|
| 12-5248 | 23 Ga x 4 mm |
| 12-5258 | 25 Ga x 4 mm |

Infusion Cannula

Reusable Silicone Oil Infusion Cannula

Self-retaining hub of 6.00 mm

| | |
|--------|-------|
| 12-026 | 20 Ga |
|--------|-------|



*Not available 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.

**COMING
SOON**

This item will be available in RUMEX range soon



Disposable instruments



Available in a single-use edition



Available in Stainless Steel



Featured instrument in the set on page 100

**DON'T FORGET
TO BUY**

Frequently bought together

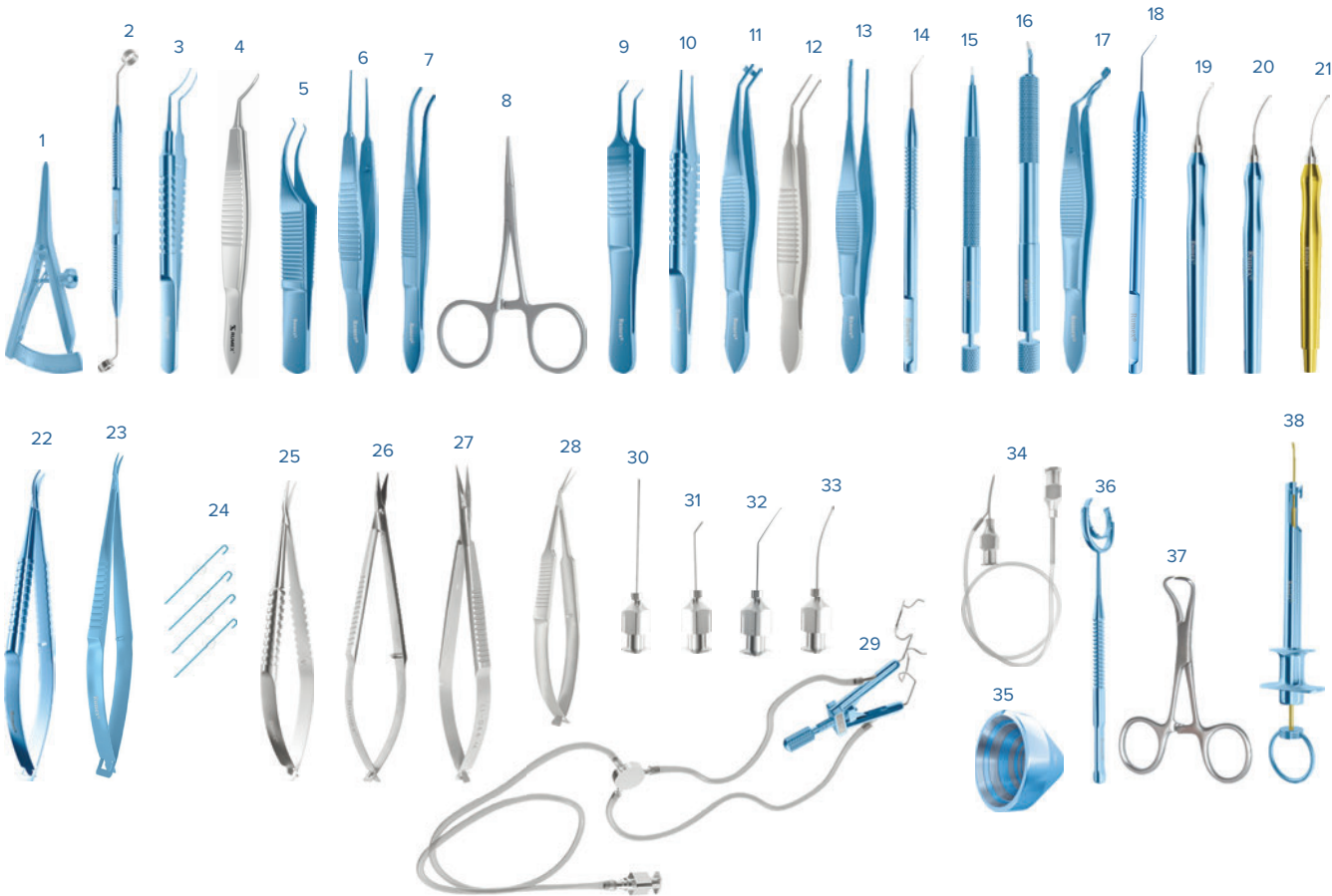


Quantity in the box

FEATURED SETS

| | |
|-----------------------|-----|
| CATARACT SURGERY | 150 |
| REFRACTIVE SURGERY | 154 |
| CORNEAL SURGERY | 156 |
| GLAUCOMA SURGERY | 159 |
| PTERYGIUM SURGERY | 160 |
| CHALAZION SURGERY | 161 |
| LACRIMAL SURGERY | 162 |
| LID SURGERY | 163 |
| MUSCLE SURGERY | 164 |
| OCULOPLASTIC SURGERY | 165 |
| VITREORETINAL SURGERY | 167 |

PHACOEMULSIFICATION SET

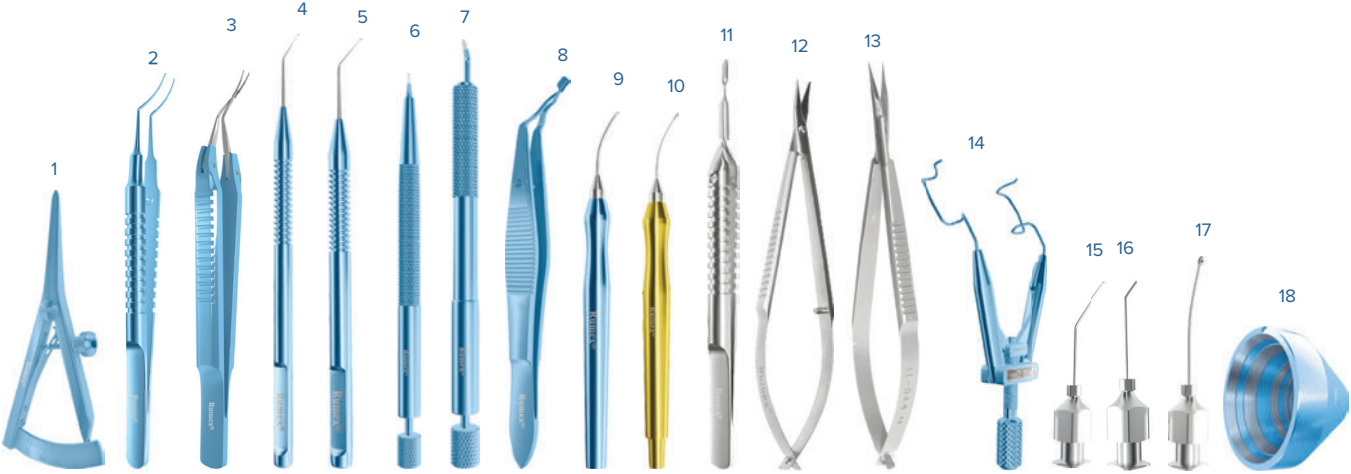


| Reference | Key | Description |
|----------------|-----|---|
| 2-010T | 1 | Castroviejo Caliper |
| 3-040 | 2 | Whipple Capsulorhexis Centration Marker |
| 4-03315T | 3 | Ultrata Capsulorhexis Forceps, Cystotome Tips, with Scale |
| 4-032S | 4 | Small-incision Capsulorhexis Forceps with Limiter |
| 4-050T | 5 | Colibri Corneal Forceps |
| 4-0600T | 6 | Castroviejo Suturing Forceps |
| 4-072T | 7 | Dressing Forceps with Serrations |
| 4-120S | 8 | Hartman Hemostatic Mosquito Forceps |
| 4-174T | 9 | McPherson Angled Tying Forceps |
| 4-185T | 10 | Tennant Straight Tying Forceps |
| 4-2107T | 11 | Steinert Paddle Lens Folding Forceps |
| 4-2108S | 12 | Faulkner Lens Holding Forceps |
| 4-2141T | 13 | Cartridge Loading Forceps, for Inserting IOL |
| 5-030 | 14 | Kuglen Iris Hook, Angled |
| 5-032* | | Sinsky Hook, Angled |
| 5-034* | | Bechert Nucleus Rotator |
| 6-10/6-053 | 15 | Diamond Knife, Trifacet Blade, 1.00 mm |
| 6-20/6-107 | 16 | Diamond Knife, Self-Diving Trapezoid Blade, 2.00/2.30 mm |
| 7-025T | 17 | Ernest Nucleus Cracker |
| 7-063 (7-064*) | 18 | Nagahara Phaco Chopper RHD (LHD*) |
| 7-0634/I | 19 | Lesieur Hydrochopper, 20 Ga |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 7-081 | 20 | Irrigation Handpiece for Bimanual Technique, 21 Ga |
| 7-0821 | 21 | Aspiration Handpiece for Bimanual Technique, 22 Ga |
| 8-031T | 22 | Barraquer Needle Holder, Standard Jaws, without Lock |
| 8-096T | 23 | Castroviejo Needle Holder, Delicate Jaws, without Lock |
| 10-5016-1 | 24 | Disposable Iris Retractors, 1 Pack of 4 pcs |
| 11-034S | 25 | Universal Corneal Scissors |
| 11-040S | 26 | Westcott Tenotomy Scissors |
| 11-044S | 27 | Westcott Stitch Scissors |
| 11-0581S | 28 | Gills-Vannas Capsulotomy Scissors |
| 14-080A | 29 | Lieberman Temporal Speculum with Aspiration |
| 15-025 | 30 | Kelman Sharp Irrigating Cystotome, 25 Ga |
| 15-051-27 | 31 | Rycroft Anterior Chamber Cannula, 27 Ga |
| 15-071-25 | 32 | McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga |
| 15-170 | 33 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 15-129-0.3 | 34 | Simcoe I/A Cannula, 23/23 Ga |
| 16-020T | 35 | Maloney Intraoperative Keratometer |
| 16-0341T | 36 | Fine Thornton Fixation Ring with Swivel |
| 16-081S | 37 | Towel Forceps |
| 16-2806 | 38 | IOL Injector for A, B, C Cartridges |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

PHACO PRECHOP SET

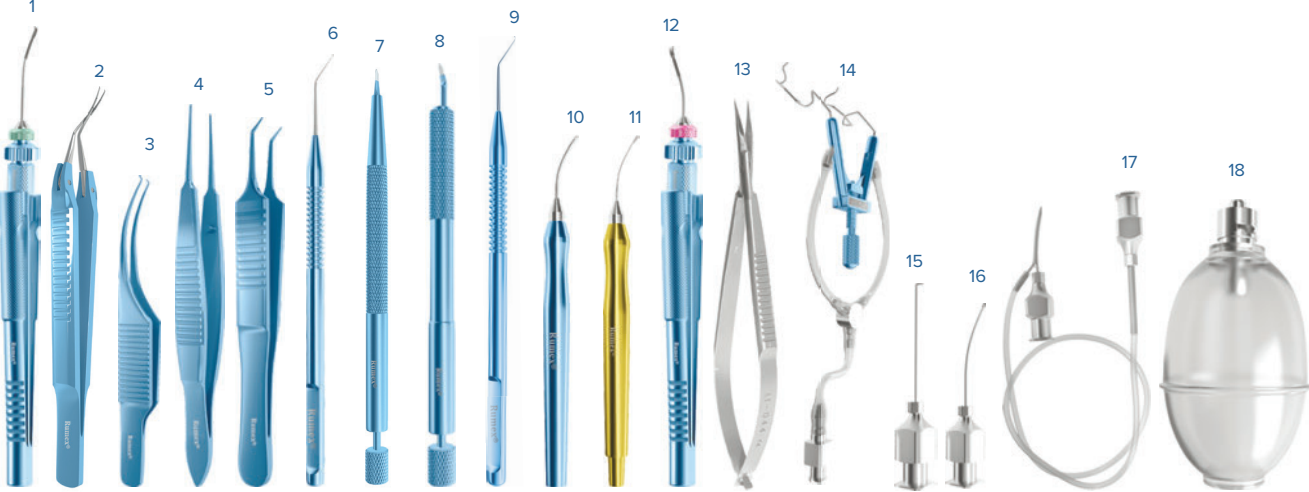


| Reference | Key | Description |
|------------|-----|--|
| 2-010T | 1 | Castroviejo Caliper |
| 4-03315T | 2 | Utrata Capsulorhexis Forceps with Scale |
| 4-0395 | 3 | Capsulorhexis Forceps with Scale, Cross-Action |
| 5-030 | 4 | Kuglen Hook |
| 5-032 | 5 | Sinskey Hook |
| 6-10/6-053 | 6 | Diamond Knife, Trifacet Blade, 1.00 mm |
| 6-20/6-104 | 7 | Diamond Knife, Self-Diving Trapezoid Blade, 2.30/2.80 mm |
| 7-025T | 8 | Ernest Nucleus Cracker |
| 7-081 | 9 | Irrigation Handpiece for Bimanual Technique, 21 Ga |
| 7-0821 | 10 | Aspiration Handpiece for Bimanual Technique, 22 Ga |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 7-1161S | 11 | Combo Prechopper (Sharp & Blunt Blades) |
| 11-040S | 12 | Westcott Tenotomy Scissors |
| 11-044S | 13 | Westcott Stitch Scissors |
| 14-040T | 14 | Lieberman Temporal Speculum |
| 15-071-25 | 15 | McIntyre Nucleus Hydrodissector, 25 Ga |
| 15-051-27 | 16 | Rycroft Anterior Chamber Cannula, 27 Ga |
| 15-159-25 | 17 | Jensen Capsule Polisher, Curved, Olive Tip, 25 Ga |
| 16-020T | 18 | Maloney Intraoperative Keratometer, Titanium |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

BIMANUAL MICROPHACO (MICS)



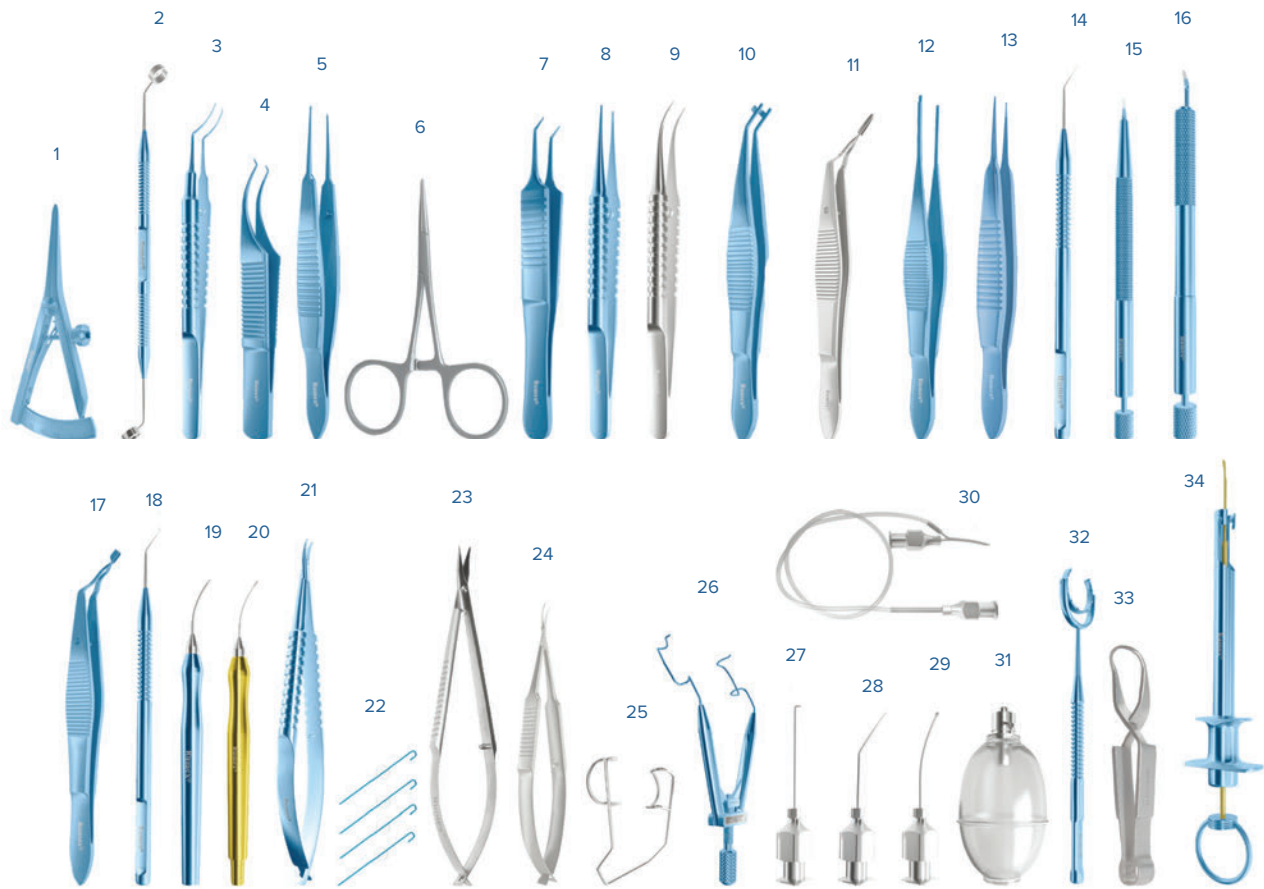
| Reference | Key | Description |
|-----------------|-----|--|
| 4-03771/12-003T | 1 | Kawai Capsulorhexis Forceps, Tapered 23/25 Ga shaft/Universal Squeeze Handle |
| 4-0395 | 2 | Capsulorhexis Forceps with Scale, Cross-Action |
| 4-0501T | 3 | Colibri Corneal Forceps, 0.12 mm 1x2 Teeth |
| 4-0600T | 4 | Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth |
| 4-174T | 5 | McPherson Angled Tying Forceps |
| 5-032 | 6 | Sinskey Hook |
| 5-034* | 7 | Bechert Nucleus Rotator |
| 6-10/6-053 | 8 | Diamond Knife Trifacet Blade, 1.00 mm |
| 6-20/6-144 | 9 | Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm |
| 7-063 (7-064*) | 10 | Nagahara Phaco Chopper RHD (LHD*) |

*not shown

| Reference | Key | Description |
|-------------------|-----|---|
| 7-081 | 11 | Irrigation Handpiece for Bimanual Technique, 21 Ga |
| 7-0821 | 12 | Aspiration Handpiece for Bimanual Technique, 22 Ga |
| 11-03741 | 13 | Side Port Capsulotomy Scissors, Left, 20 Ga |
| 11-03751*/12-003T | 14 | Side Port Capsulotomy Scissors, Right, 20 Ga/Universal Squeeze Handle |
| 11-044S | 15 | Westcott Stitch Scissors |
| 14-080A | 16 | Lieberman Temporal Speculum with Aspiration |
| 15-0681 | 17 | Chang Nucleus Hydrodissector, 27 Ga |
| 15-170 | 18 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 15-129-0.3 | | Simcoe I/A Cannula, 23/23 Ga |
| 15-301/303 | | Silicone Bulb with Adapter |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

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

EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET

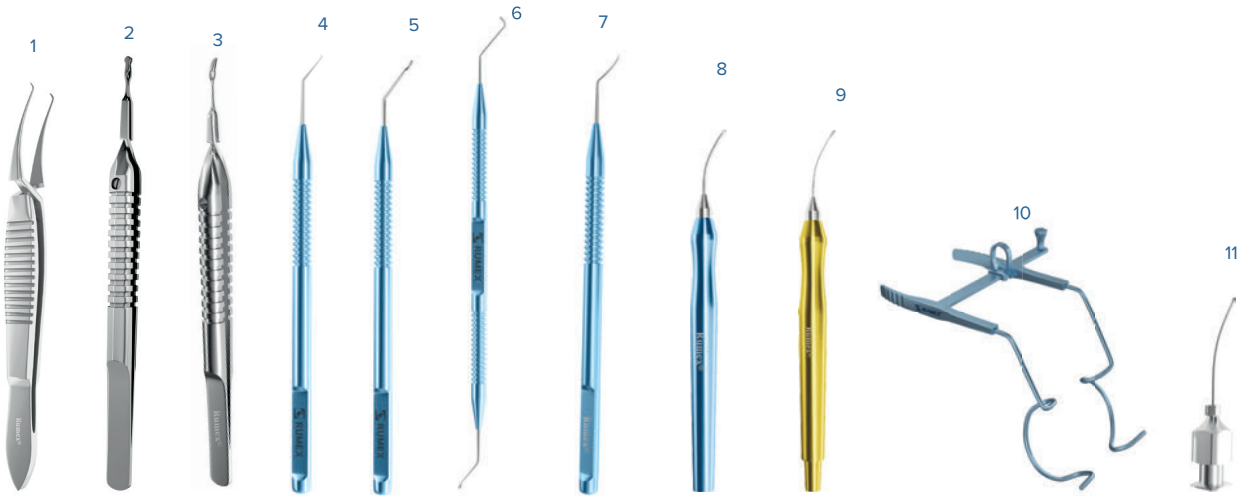


| Reference | Key | Description |
|------------|-----|--|
| 2-010T | 1 | Castroviejo Caliper |
| 3-040 | 2 | Whipple Capsulorhexis Centration Marker |
| 4-03315T | 3 | Utrata Capsulorhexis Forceps with Ruler |
| 4-050T | 4 | Colibri Corneal Forceps, 0.12 mm 1×2 Teeth |
| 4-0600T | 5 | Castroviejo Suturing Forceps, 0.12 mm 1×2 Teeth |
| 4-120S | 6 | Hartman Mosquito Forceps, Straight |
| 4-174T | 7 | McPherson Angled Tying Forceps |
| 4-185T | 8 | Tennant Straight Tying Forceps |
| 4-186S | 9 | Tennant Curved Tying Forceps |
| 4-2107T | 10 | Steinert Paddle Lens Folding Forceps |
| 4-2113S | 11 | McDonald Style Inserting Forceps |
| 4-2141T | 12 | Cartridge Loading Forceps |
| 4-2301T | 13 | Fechtner Conjunctiva Forceps |
| 5-030 | 14 | Kuglen Iris Hook |
| 5-0331* | | Lester Lens Manipulator |
| 5-034* | | Bechert Nucleus Rotator |
| 6-10/6-053 | 15 | Diamond Knife, Trifacet Blade, 1.00 mm |
| 6-20/6-104 | 16 | Diamond Knife, 2.30/2.80 mm, Self-Diving Trapezoid Blade |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 7-025T | 17 | Ernest Nucleus Cracker |
| 7-065 | 18 | Rosen Phaco Chopper, Universal |
| 7-081-23 | 19 | Irrigation Handpiece for Bimanual Technique, 23 Ga |
| 7-0821-23 | 20 | Aspiration Handpiece for Bimanual Technique, 23 Ga |
| 8-041T | 21 | Barraquer Needle Holder, Fine Jaws, without Lock |
| 10-5016-1 | 22 | Disposable Iris Retractors (1 Pack of 4 pcs) |
| 11-040S | 23 | Westcott Tenotomy Scissors |
| 11-058S | 24 | Gills-Vannas Capsulotomy Scissors |
| 14-022S | 25 | Barraquer Wire Speculum, Adult Size |
| 14-040TK | 26 | Lieberman Temporal Speculum, Adult Size |
| 15-0681 | 27 | Chang Nucleus Hydrodissector, 27 Ga |
| 15-071-25 | 28 | McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga |
| 15-170 | 29 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 15-129-0.3 | 30 | Simcoe I/A Cannula, 23/23 Ga |
| 15-301/303 | 31 | Silicone Bulb with Adapter |
| 16-0341T | 32 | Fine Thornton Fixation Ring with Swivel |
| 16-080S | 33 | Towel Clamp |
| 16-2806 | 34 | IOL Injector for A, B, C Cartridges |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

FEMTOSECOND CATARACT SET

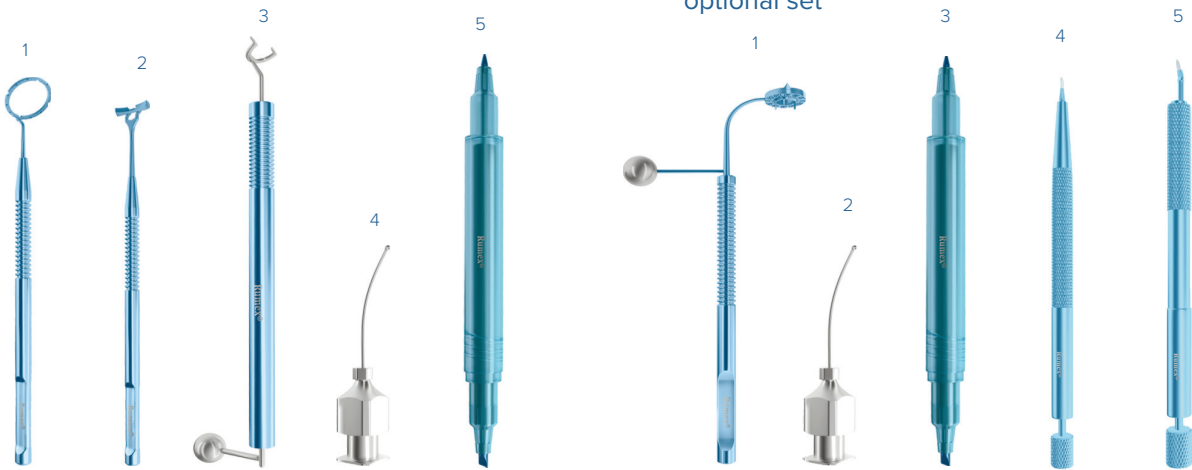


| Reference | Key | Description |
|-----------|-----|--|
| 4-0582S | 1 | Forceps for Femtosecond Laser Cataract Procedure |
| 7-1166S | 2 | Yeoh Femtosecond Prechopper |
| 7-1167S | 3 | Crozafof Prechopper |
| 7-145 | 4 | Nagy Femtosecond Chopper |
| 7-146 | 5 | Donnenfeld Femto Splitter |
| 13-181 | 6 | Uy Laser Lens Fragmentation Combo Manipulator |
| 20-204* | | Spatula for Femtosecond Laser Procedure |
| 20-2041 | 7 | Donnenfeld Femto Spatula |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 7-081-23 | 8 | Irrigation Handpiece for Bimanual Technique, 23 Ga |
| 7-0821-23 | 9 | Aspiration Handpiece for Bimanual Technique, 23 Ga |
| 14-052T | 10 | Slade-Murdoch Speculum |
| 15-170 | 11 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

TORIC IOL IMPLANTATION SET

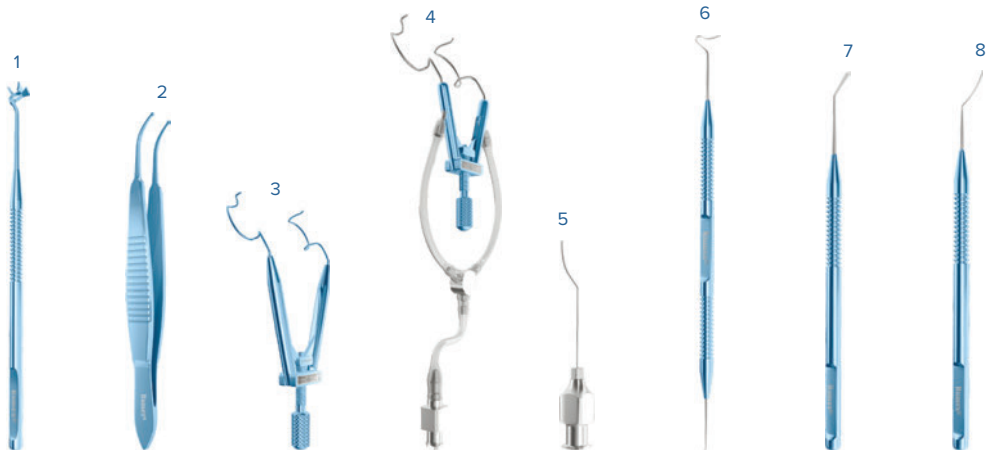


| Reference | Key | Description |
|-----------|-----|--|
| 2-034T | 1 | Grooved Fine Mendez Degree |
| 3-091T | 2 | Bores Axis Marker |
| 3-193 | 3 | Whitehouse Gravity Axis Marker |
| 15-170 | 4 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 20-050 | 5 | Disposable Marking Pen, Double-Ended, 10 per Box |

*not shown

| Reference | Key | Description |
|------------|-----|---|
| 3-194 | 1 | RUMEX Toric Combo Marker, Vertical 0-0 Axis (Horizontal 0-0 Axis) |
| (3-1941)* | | |
| 15-170 | 2 | Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga |
| 20-050 | 3 | Disposable Marking Pen, Double-Ended, 10 per Box |
| 6-10/6-053 | 4 | Diamond Knife, Trifacet Blade, 1.00 mm |
| 6-20/6-144 | 5 | Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

FEMTOLASIK SET

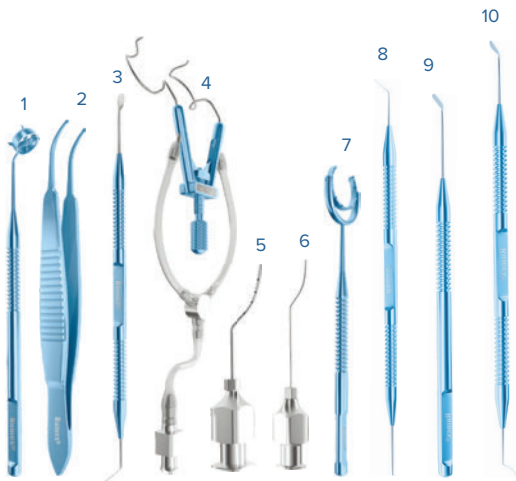


| Reference | Key | Description |
|-----------|-----|---|
| 3-176T | 1 | LASIK Flap Marker |
| 4-2206T | 2 | LASIK Flap Forceps |
| 14-040TL | 3 | Lieberman Temporal Speculum for LASIK |
| 14-080LA | 4 | Lieberman Temporal Speculum with Aspiration for LASIK |
| 15-379-25 | 5 | Buratto LASIK Irrigation Cannula, 25 Ga |

| Reference | Key | Description |
|-----------|-----|--|
| 20-201 | 6 | FemtoLASIK Flap Spatula, Double-Ended |
| 20-202 | 7 | FemtoLASIK Flap Spatula |
| 20-203 | 8 | Zaldivar FemtoLASIK Spatula |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

*not shown

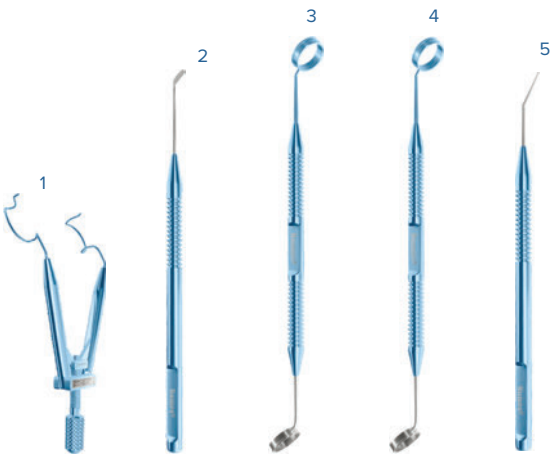
LASIK SET



| Reference | Key | Description |
|-----------|-----|--|
| 3-174T | 1 | Lavery LASIK Marker |
| 4-2206T | 2 | LASIK Flap Forceps |
| 13-110 | 3 | Paton Double-Ended Spatula and Spoon |
| 14-080LA | 4 | Lieberman Temporal Speculum with Aspiration for LASIK |
| 15-373-25 | 5 | Banaji LASIK Irrigation Cannula, 25 Ga |
| 15-376* | | Slade LASIK Cannula, 26 Ga |
| 15-379-25 | 6 | Buratto LASIK Irrigation Cannula, 25 Ga |
| 16-0341T | 7 | Fine Thornton Fixation Ring with Swivel |
| 20-013 | 8 | LASIK Spatula and Flap Retreatment Instrument |
| 20-001 | 9 | Hockey Epithelium Removal Knife |
| 20-002 | 10 | Lindstrom LASIK / PRK Spatula and Epithelium Removal Board |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |



*not shown

LASEK SET



| Reference | Key | Description |
|-----------|-----|--|
| 14-040TL | 1 | Lieberman Temporal Speculum for LASIK |
| 20-0011 | 2 | LASEK Knife |
| 20-121 | 3 | LASEK 8.00 mm Trephine / 8.50 mm Funnel |
| 20-122 | 4 | LASEK 9.00 mm Trephine / 9.50 mm Funnel |
| 20-131 | 5 | LASEK Epithelial Micro Hoe |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

LRI SET

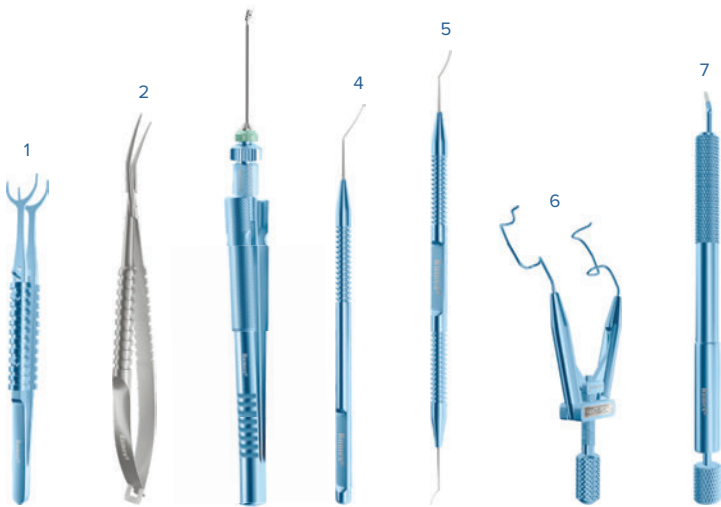


| Reference | Key | Description |
|--------------|-----|---|
| 2-034T | 1 | Grooved Fine Mendez Degree Gauge with 4 Grooves |
| 3-091T | 2 | Bores Axis Marker |
| 3-1932 | 3 | Whitehouse Gravity Axis Marker with Reduced Diameters |
| 6-322/6-0531 | 4 | Universal Three-Step Diamond Knife for Cataract and LRI Surgery |

| Reference | Key | Description |
|---------------|-----|--|
| 3-1801 | 1 | LRI Marker, 40-60-80° |
| 3-1932 | 2 | Whitehouse Gravity Axis Marker with Reduced Diameters |
| 6-322/ 6-0531 | 3 | Universal Three-Step Diamond Knife for Cataract and LRI Surgery |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

*not shown

ICL SET

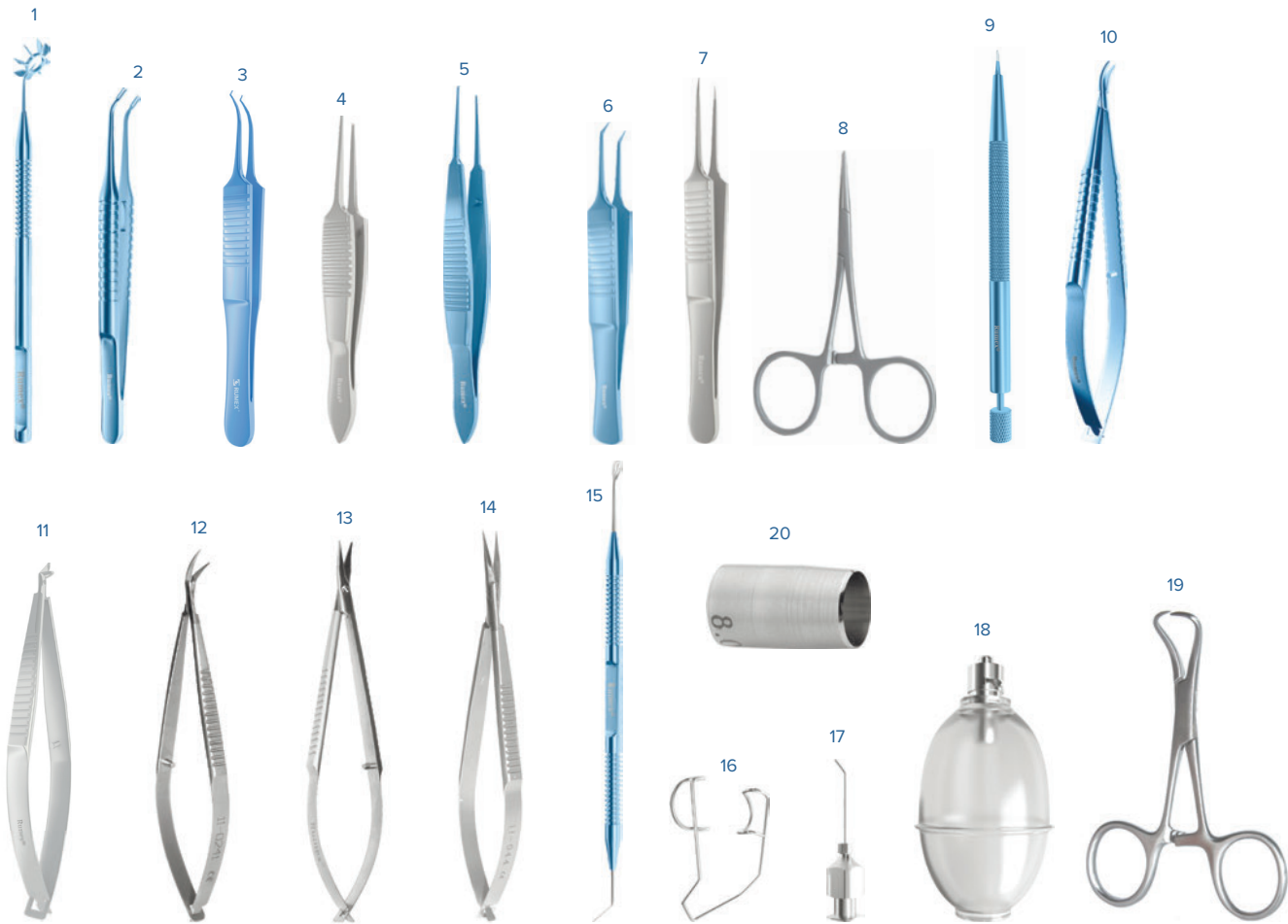


| Reference | Key | Description |
|-----------------|-----|---|
| 4-08011T | 1 | Nevyas-Wallace Fixation Forceps, 0.12 mm 1x2 Teeth |
| 4-20111S | 2 | ICL™ Cartridge Loading Forceps |
| 4-21432/12-003T | 3 | Zaldivar - Kraff ICL Pacman Forceps, 20 Ga, Tip Only/ |
| 13-141 | 4 | Universal Squeeze Handle |
| | | Pallikaris ICL™ Manipulator |

| Reference | Key | Description |
|-------------|-----|--|
| 13-142 | 5 | Zaldivar ICL™ Manipulator |
| 14-040T | 6 | Lieberman Temporal Speculum |
| 6-20/6-0551 | 7 | Zaldivar Universal ICL™ Knife, 0.55/1.00 mm |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

*not shown

CORNEAL TRANSPLANTATION SET

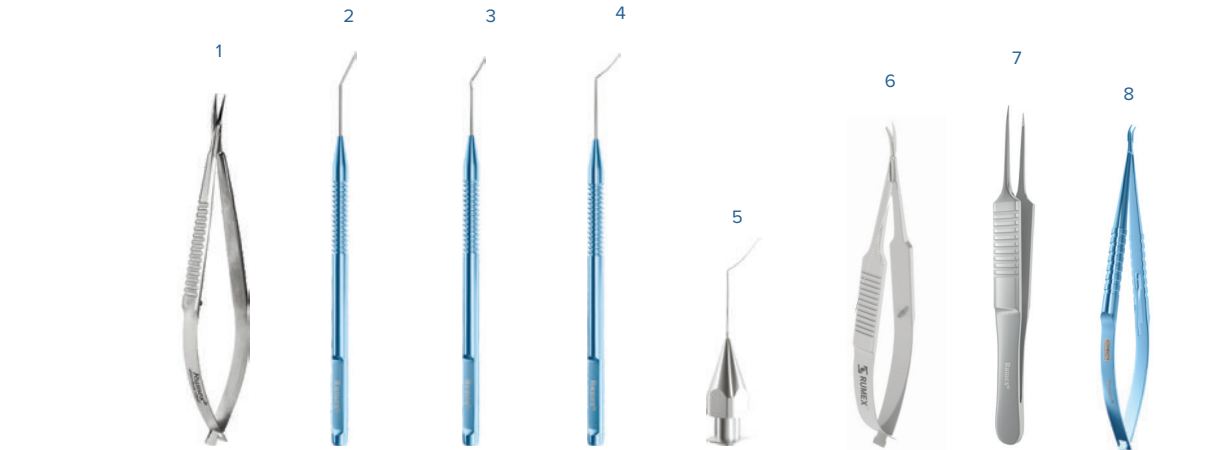


| Reference | Key | Description |
|-------------|-----|--|
| 3-140T | 1 | Corneal Transplant Marker |
| 4-0814T | 2 | Pollack Corneal Transplantation Fixation Forceps |
| 4-0541T | 3 | Castroviejo Colibri Corneal Forceps |
| 4-0607S | 4 | Bishop-Harmon Suturing Forceps |
| 4-0600T | 5 | Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth |
| 4-0601T* | 5 | Castroviejo Suturing Forceps, 0.30 mm 1x2 Teeth |
| 4-090T | 6 | Kelman-McPherson Tying Forceps |
| 4-178S | 7 | McPherson Straight Tying Forceps |
| 4-120S | 8 | Hartman Mosquito Forceps |
| 6-10/6-053 | 9 | Diamond Knife, Trifacet Blade, 1.00 mm |
| 6-20/6-107* | 9 | Diamond Knife, Trapezoid Self-Diving Blade, 2.00/2.30 mm |
| 8-031T | 10 | Barraquer Needle Holder, Standard Jaws, without Lock |
| 8-045T* | 10 | Barraquer Needle Holder, Extra Fine Jaws, without Lock |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 11-020S | 11 | Katzin Corneal Transplant Scissors, Left |
| 11-0201S* | 11 | Katzin Corneal Transplant Scissors, Right |
| 11-024S | 12 | Castroviejo Corneal Section Scissors, Right |
| 11-0241S* | 12 | Castroviejo Corneal Section Scissors, Left |
| 11-040S | 13 | Westcott Tenotomy Scissors |
| 11-044S | 14 | Westcott Stitch Scissors |
| 13-110 | 15 | Paton Double-Ended Spatula and Spoon |
| 14-022S | 16 | Barraquer Wire Speculum, Adult Size |
| 15-051-25 | 17 | Rycroft Anterior Chamber Cannula, 25 Ga |
| 15-301/303 | 18 | Silicone Bulb with Adapter |
| 16-081S | 19 | Towel Forceps |
| 16-0305* | 19 | Corneal Trephine Blades, 7.50 mm |
| 16-0307 | 19 | Corneal Trephine Blades, 8.00 mm |
| 18-305* | 20 | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

DALK SET

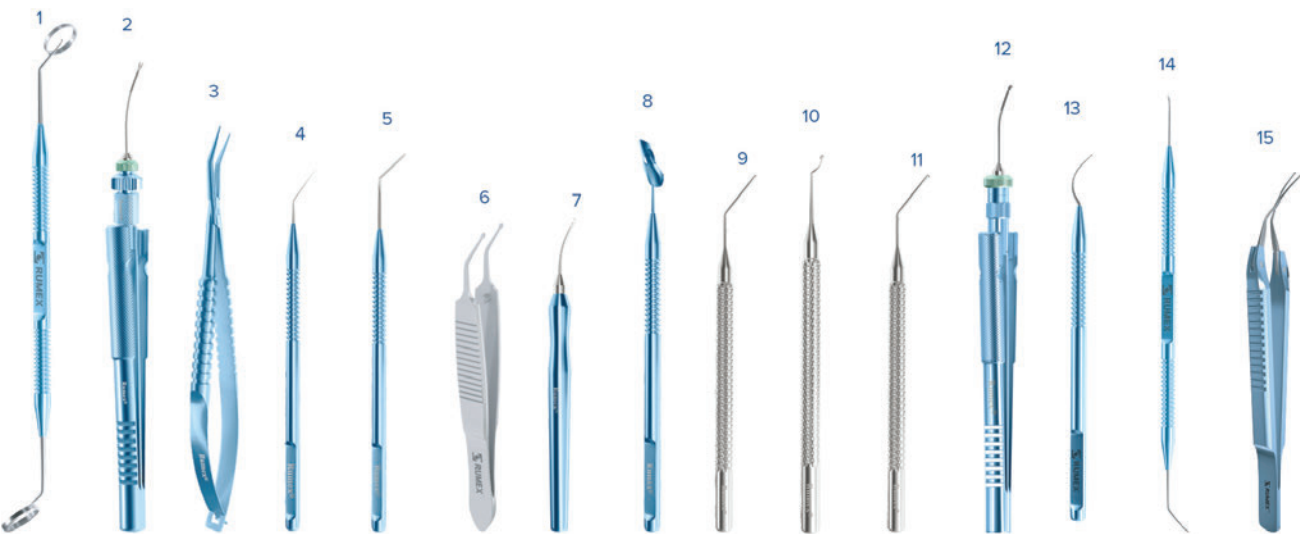


| Reference | Key | Description |
|-----------|-----|------------------------------------|
| 11-038S | 1 | Scissors for DALK Procedure, Right |
| 11-0381S* | | Scissors for DALK Procedure, Left |
| 13-170 | 2 | Trisector for DALK Procedure |
| 13-171 | 3 | Spatula for DALK Procedure |
| 13-172 | 4 | Dissector for DALK Procedure |
| 15-450-27 | 5 | Cannula for DALK Procedure, 27 Ga |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 11-134 | 6 | Holland Spatulated DALK Scissors, Right |
| 11-135* | | Holland Spatulated DALK Scissors, Left |
| 4-178S | 7 | McPherson Tying Forceps, Straight |
| 4-174T* | | McPherson Tying Forceps, Angled |
| 8-024T | 8 | Barraquer Needle Holder, Extra Fine Jaws, with Lock |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

DSEK, DSAEK, DMEK SET

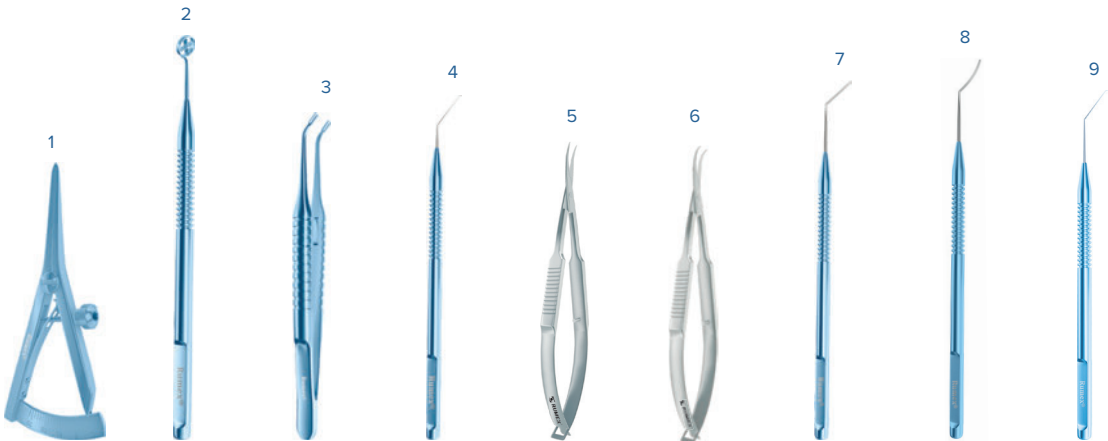


| Reference | Key | Description |
|-----------|-----|--|
| 3-0231 | 1 | Abdullayev Corneal Marker for Keratoplasty |
| 3-0230* | | Abdullayev Scleral Marker for Keratoplasty |
| 4-034 | 2 | Forceps for Corneal Endothelium Implantation, 23 Ga/ |
| /12-003T | | Universal Squeeze Handle |
| 4-2019T | 3 | Corneal Donor Insertion Forceps |
| 5-0322 | 4 | Reversed Sinskey Hook |
| 13-137 | 5 | Corneal Dissector, Straight |
| 13-138* | | Corneal Dissector, Curved |
| 4-240 | 6 | Guell DMEK Forceps |
| 13-139/I | 7 | Endothelial Stripper, Irrigating |
| 13-150T | 8 | Spatula-Guide for Corneal Endothelium Implantation |
| 13-151S | 9 | Cindy Sweeper DSEK Spatula |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 13-152S | 10 | Carlson DSEK Smoother |
| 13-153S | 11 | Terry DSEK Scraper |
| 4-247 | 12 | Florakis Microinvasive Endothelial Forceps, 23 Ga / |
| /12-003T | | Universal Squeeze Handle |
| 4-246S* | | Florakis Endothelial Forceps |
| 13-182 | 13 | John Dextatome DMEK/DSAEK Spatula |
| 13-183* | | John DSAEK Stromal Scrubber |
| 13-184* | | John DSAEK Glider |
| 13-185 | 14 | Tan Marginal DMEK Dissector |
| 4-251 | 15 | Cross-Action DMEK Forceps |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

DLEK SET

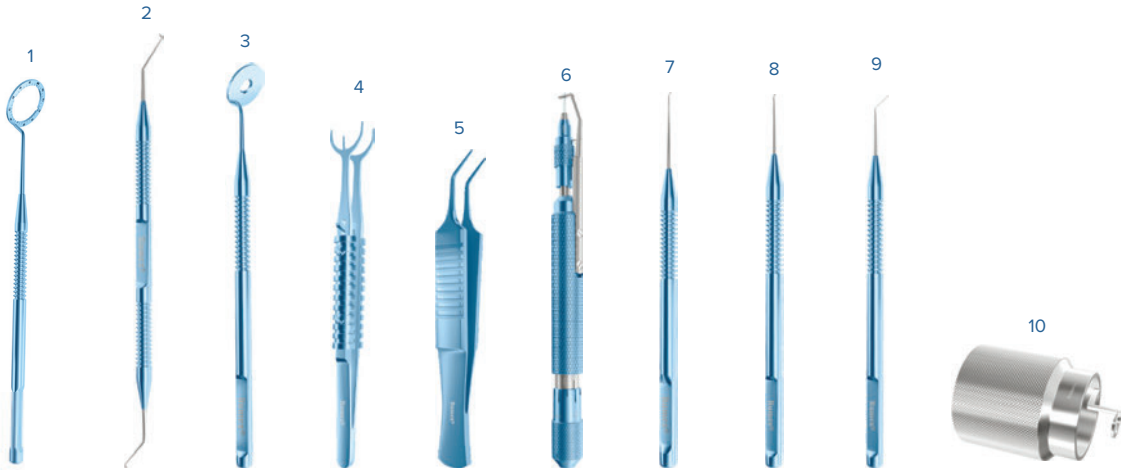


| Reference | Key | Description |
|-----------|-----|--|
| 2-010T | 1 | Castroviejo Caliper |
| 3-0217T | 2 | Hoffer Optical Zone Marker, 8.00 mm |
| 4-0814T | 3 | Pollack Corneal Transplantation Fixation Forceps |
| 5-0322 | 4 | Reversed Sinskey Hook |
| 11-036S | 5 | DLEK Scissors, Medium Curve |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 11-0361S | 6 | DLEK Scissors, Strong Curve |
| 13-137 | 7 | Corneal Dissector, Straight |
| 13-138 | 8 | Corneal Dissector, Curved |
| 13-160 | 9 | Manipulator for DLEK pProcedure |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

ICRS SET

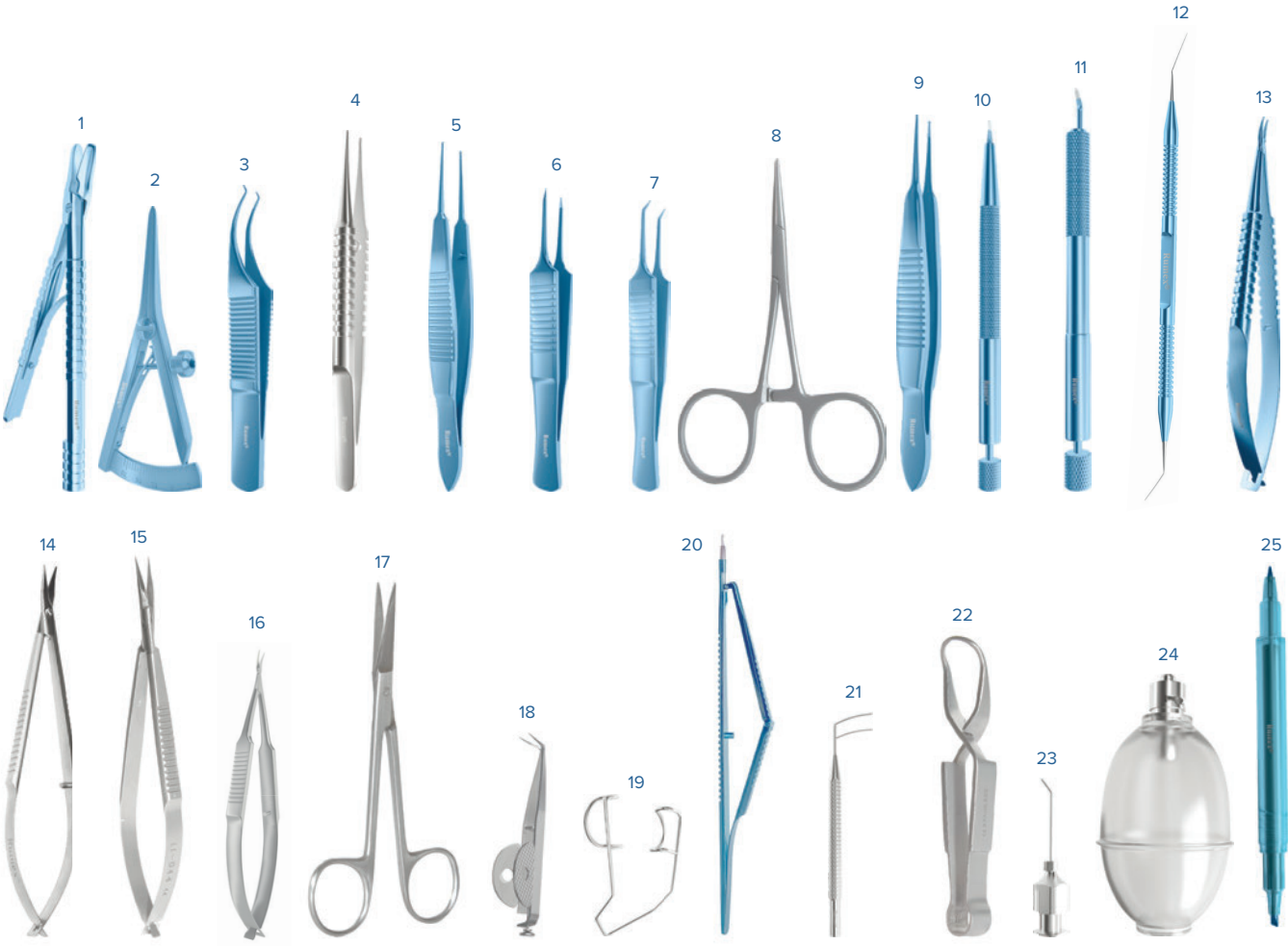


| Reference | Key | Description |
|------------|-----|--|
| 2-0331T | 1 | Grooved Mendez Degree Gauge with 4 Grooves |
| 3-034 | 2 | Optical Zone Marker |
| 3-143T | 3 | Tunnel Zone Marker |
| 4-08011T | 4 | Nevyas-Wallace Fixation Forceps |
| 4-2144T | 5 | Forceps for ICRS Implant |
| 6-00/6-020 | 6 | Diamond Knife for ICRS, Micrometer Handle, 1.00 mm |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 10-035 | 7 | Elevator for ICRS Implantation |
| 13-146 | 8 | Suarez Spreader |
| 13-147 | 9 | Bicalto Guide |
| 16-173S | 10 | Tunnel Maker, Left |
| 16-174S* | | Tunnel Maker, Right |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

GLAUCOMA SET

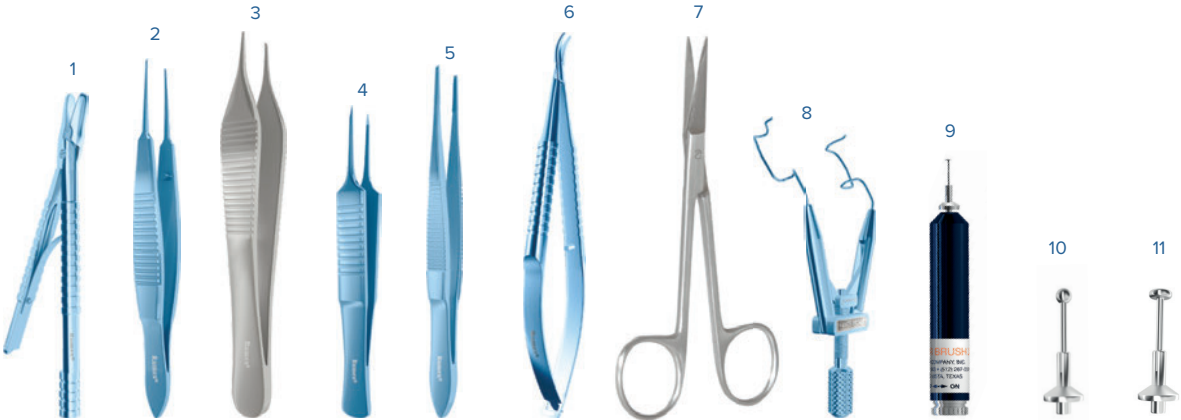


| Reference | Key | Description |
|------------|-----|--|
| 1-010T | 1 | Blade Holder |
| 2-010T | 2 | Castroviejo Caliper |
| 4-050T | 3 | Colibri Corneal Forceps |
| 4-070S | 4 | Dressing Forceps with Delicate Serrations |
| 4-0600T | 5 | Castroviejo Suturing Forceps |
| 4-171T | 6 | McPherson Straight Tying Forceps |
| 4-090T | 7 | Kelman-McPherson Tying Forceps |
| 4-120S | 8 | Hartman Mosquito Forceps |
| 4-2301T | 9 | Fechtner Conjunctiva Forceps |
| 6-10/6-053 | 10 | Diamond Knife, Trisect Blade, 1.00 mm |
| 6-20/6-092 | 11 | Diamond Knife, Crescent Blade, 2.00 mm |
| 13-050 | 12 | Castroviejo Double-Ended Cyclodialysis Spatula |
| 8-045T | 13 | Barraquer Needle Holder, Extra Fine Jaws, without Lock |
| 11-040S | 14 | Westcott Tenotomy Scissors |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 11-044S | 15 | Westcott Stitch Scissors |
| 11-052S | 16 | Vannas Capsulotomy Scissors |
| 11-080S | 17 | Iris Scissors |
| 11-1223 | 18 | Barraquer Iris Scissors |
| 14-022S | 19 | Barraquer Wire Speculum |
| 16-011 | 20 | Kelly Descemet's Membrane Punch, 0.75 mm Diameter |
| 16-012S | 21 | Harms Trabeculotome, Left |
| 16-013S* | | Harms Trabeculotome, Right |
| 16-080S | 22 | Schaedel Towel Clamp |
| 15-051-27 | 23 | Rycroft Anterior Chamber Cannula, 27 Ga |
| 15-301/303 | 24 | Silicone Bulb with Adapter |
| 20-050 | 25 | Disposable Marking Pen, Double-Ended, 10 per Box |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

PTERYGIUM SET

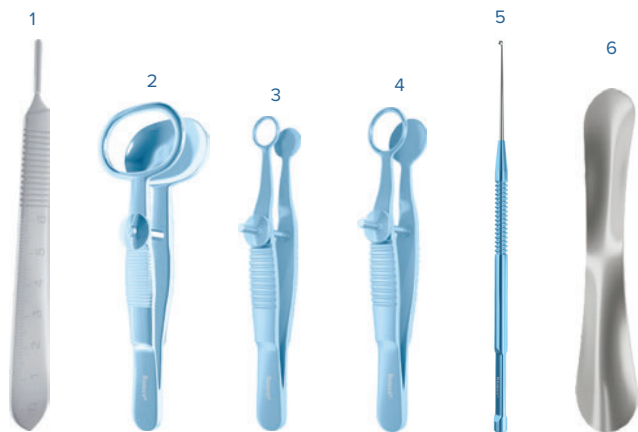


| Reference | Key | Description |
|-----------|-----|--|
| 1-010T | 1 | Blade Holder |
| 4-0600T | 2 | Castroviejo Suturing Forceps |
| 4-0741S | 3 | Adson Fixation Forceps |
| 4-171T | 4 | McPherson Tying Forceps |
| 4-2300T | 5 | Bonaccolto Utility Forceps |
| 8-031T | 6 | Barraquer Needle Holder, Standard Jaws, without Lock |
| 11-080S | 7 | Iris Scissors |
| 14-040T | 8 | Lieberman Temporal Speculum |

*not shown

| Reference | Key | Description |
|-------------|-----|--|
| 16-051-2.5 | 9 | AlgerBrush with a 2.50 mm Diamond Round Fine Grit Burr |
| 16-051-3.5B | 10 | Diamond Round Medium Grit Burr for AlgerBrush, 3.50 mm |
| 16-052-5.0B | 11 | Diamond Disk-Shaped Medium Grit Burr for AlgerBrush, 5.00 mm |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

CHALAZION SET



| Reference | Key | Description |
|-----------|-----|---------------------------------------|
| 1-020S | 1 | Bard Parker Handle |
| 4-1906T | 2 | Desmarres Chalazion Forceps, Large |
| 4-1912T* | | Desmarres Chalazion Forceps, Medium |
| 4-1908T | 3 | Lambert Chalazion Forceps, Small |
| 4-1909T | 4 | Lambert Chalazion Forceps, Medium |
| 16-063* | | Meyerhoefer Chalazion Curette, Size 0 |
| 16-064* | | Meyerhoefer Chalazion Curette, Size 1 |
| 16-065* | | Meyerhoefer Chalazion Curette, Size 2 |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 16-066 | 5 | Meyerhoefer Chalazion Curette, Size 3 |
| 16-067* | | Meyerhoefer Chalazion Curette, Size 4 |
| 16-50S | 6 | Lid plate |
| 18-304* | | Plastic Sterilizing Tray with Silicone Finger Mat, Extra Large |

LACRIMAL SET

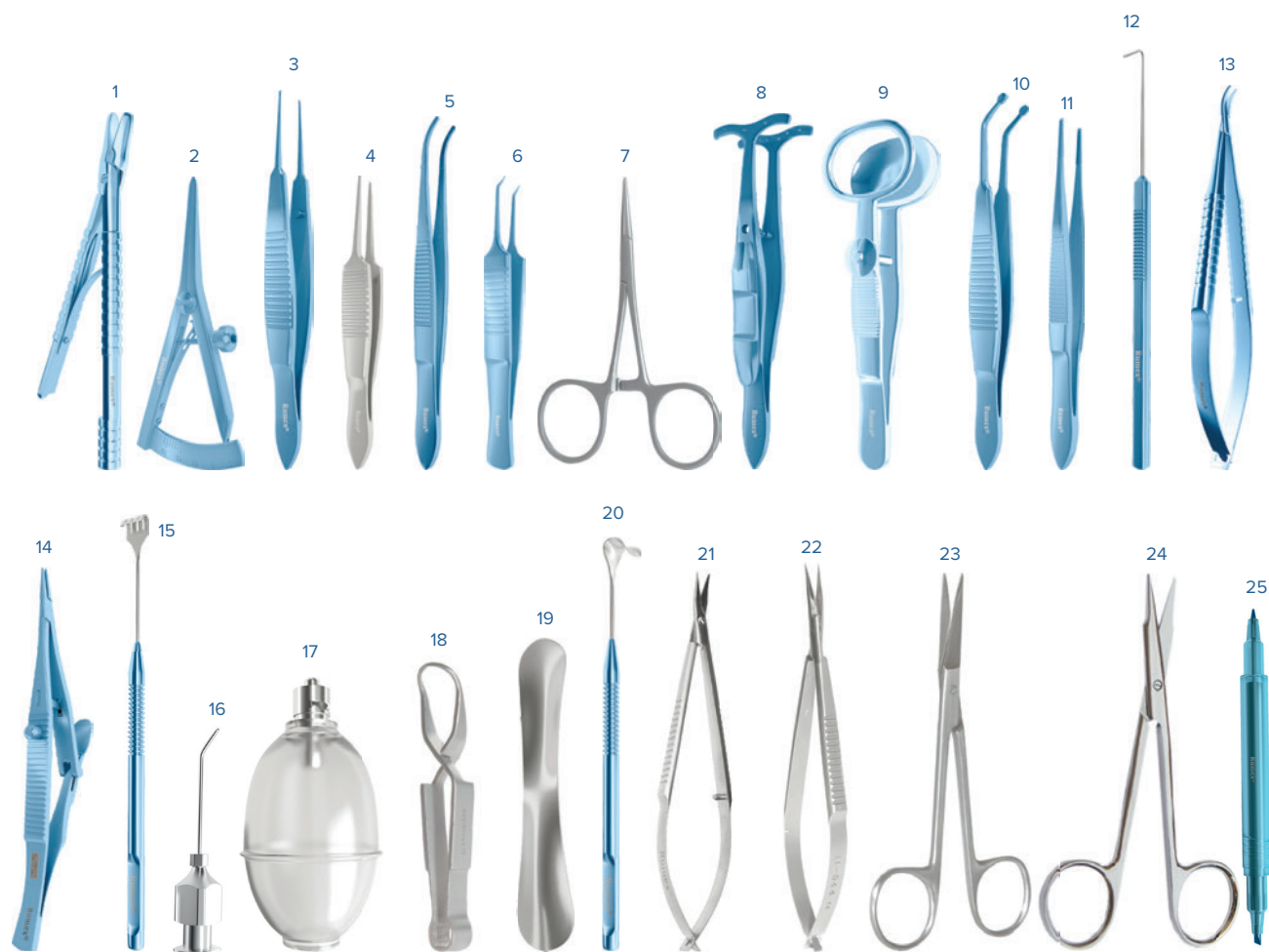


| Reference | Key | Description |
|-----------|-----|---|
| 1-010T | 1 | Blade Holder |
| 4-071S | 2 | Dressing Forceps |
| 4-2300T | 3 | Bonaccolto Utility Forceps |
| 4-0601T | 4 | Castroviejo Suturing Forceps |
| 4-122S | 5 | Halsted Mosquito Forceps |
| 8-031T | 6 | Barraquer Needle Holder, Standard Jaws, without Lock |
| 9-010S | 7 | Bowman Lacrimal Probe, Size 0000-000 |
| 9-011S* | | Bowman Lacrimal Probe, Size 00-0 |
| 9-012S* | | Bowman Lacrimal Probe, Size 1-2 |
| 9-013S* | | Bowman Lacrimal Probe, Size 3-4 |
| 9-014S* | | Bowman Lacrimal Probe, Size 5-6 |
| 9-021S | 8 | Quickert Lacrimal Intubation Probe, Size 0 |
| 9-031 | 9 | Pigtail Lacrimal Probe |
| 9-050T | 10 | Wilder Lacrimal Dilator, Size 1 |
| 9-060T | 11 | Castroviejo Double-Ended Lacrimal Dilator, Size 1 & 2 |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 10-013 | 12 | Stevenson Lacrimal Sac Retractor |
| 10-014 | 13 | Knapp Lacrimal Sac Retractor |
| 11-080S | 14 | Iris Scissors |
| 11-125S | 15 | Westcott Type Stitch Scissors |
| 11-130S | 16 | Stevens Scissors |
| 15-029 | 17 | Lacrimal Cannula, Reinforced, Curved, 23 Ga |
| 15-301/303 | 18 | Silicone Bulb with Adapter |
| 16-081S | 19 | Towel Forceps |
| 16-127 | 20 | Nasal speculum, Adult Size |
| 16-135 | 21 | Surgical Mallet, Polished Finish |
| 16-136 | 22 | Kerrison Rongeur, Size 0 |
| 16-138 | 23 | Belz Lacrimal Sac Rongeur |
| 21-R7011 | 24 | Disposable DCR Set, Straight 4.50 cm |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

LID SURGERY SET

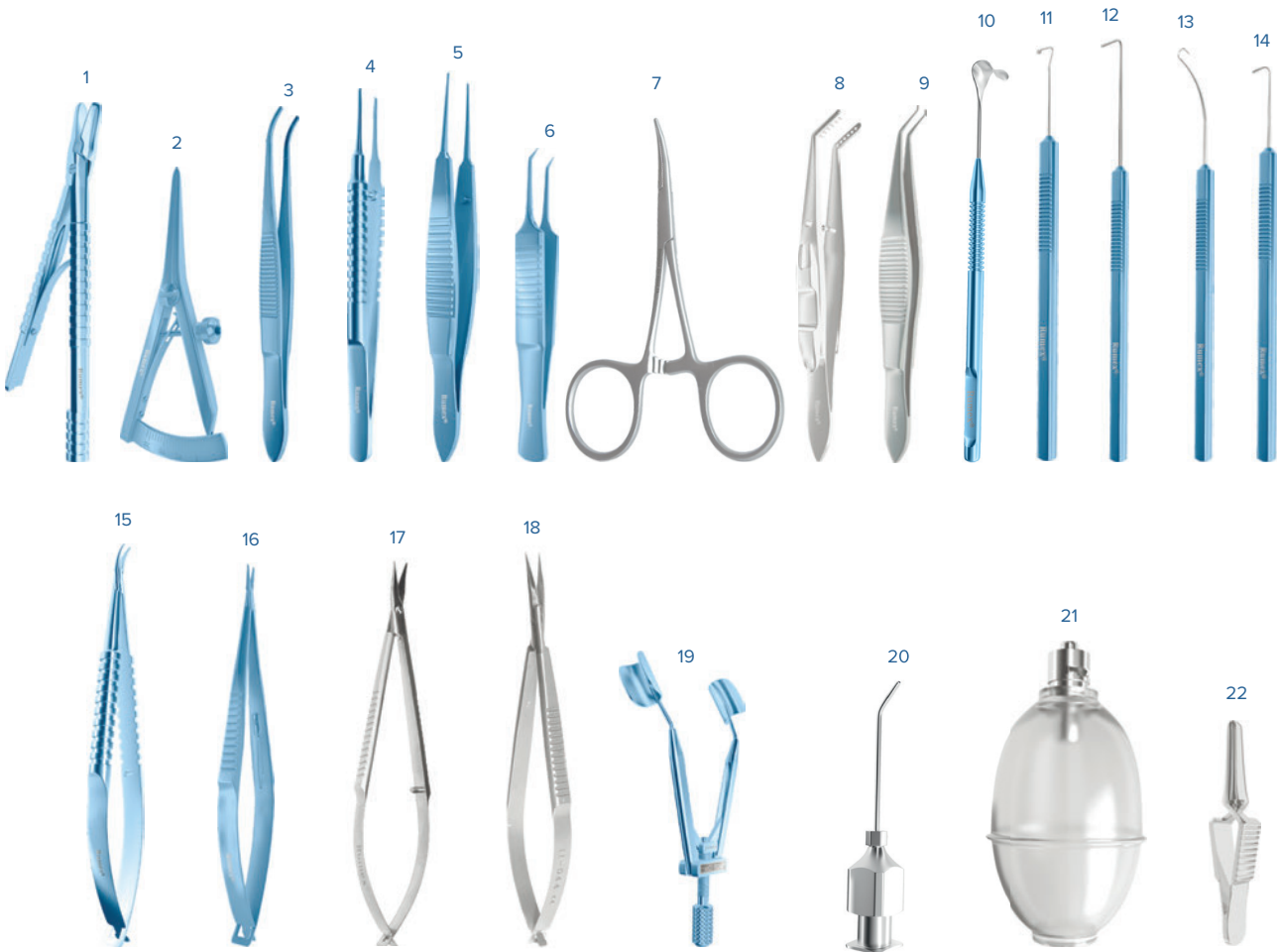


| Reference | Key | Description |
|-----------|-----|--|
| 1-010T | 1 | Blade Holder |
| 2-010T | 2 | Castroviejo Caliper |
| 4-0601T | 3 | Castroviejo Suturing Forceps |
| 4-0607S | 4 | Bishop-Harmon Suturing Forceps |
| 4-072T | 5 | Dressing Forceps |
| 4-090T | 6 | Kelman-McPherson Tying Forceps |
| 4-120S | 7 | Hartman Mosquito Forceps |
| 4-140T | 8 | Putterman Type Lid Clamp |
| 4-1906T | 9 | Desmarres Chalazion Forceps, Large |
| 4-1912T* | | Desmarres Chalazion Forceps, Medium |
| 4-124S* | | Compressing Lid Forceps with Atraumatic Rollers |
| 4-1913T | 10 | Compressing Lid Forceps |
| 4-2300T | 11 | Bonaccolto Utility Forceps |
| 5-042 | 12 | Graefe Muscle Hook, Size 2 |
| 8-031T | 13 | Barraquer Needle Holder, Standard Jaws, without Lock |
| 8-080T | 14 | Kalt Needle Holder |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 10-014 | 15 | Knapp Lacrimal Sac Retractor |
| 15-055-19 | 16 | Bishop Harmon AC Cannula, 19 Ga |
| 15-301/303 | 17 | Silicone Bulb with Adapter |
| 16-080S | 18 | Schaeffel Towel Clamp |
| 16-50S | 19 | Lid Plate |
| 10-020* | | Desmarres Lid Retractor, Size 0 |
| 10-021 | 20 | Desmarres Lid Retractor, Size 1 |
| 10-022* | | Desmarres Lid Retractor, Size 2 |
| 10-023* | | Desmarres Lid Retractor, Size 3 |
| 11-040S | 21 | Westcott Tenotomy Scissors |
| 11-044S | 22 | Westcott Stitch Scissors |
| 11-080S | 23 | Straight Iris Scissors |
| 11-133S | 24 | Stevens Tenotomy Scissors |
| 20-050 | 25 | Disposable Marking Pen, Double-Ended, 10 per Box |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

MUSCLE SET

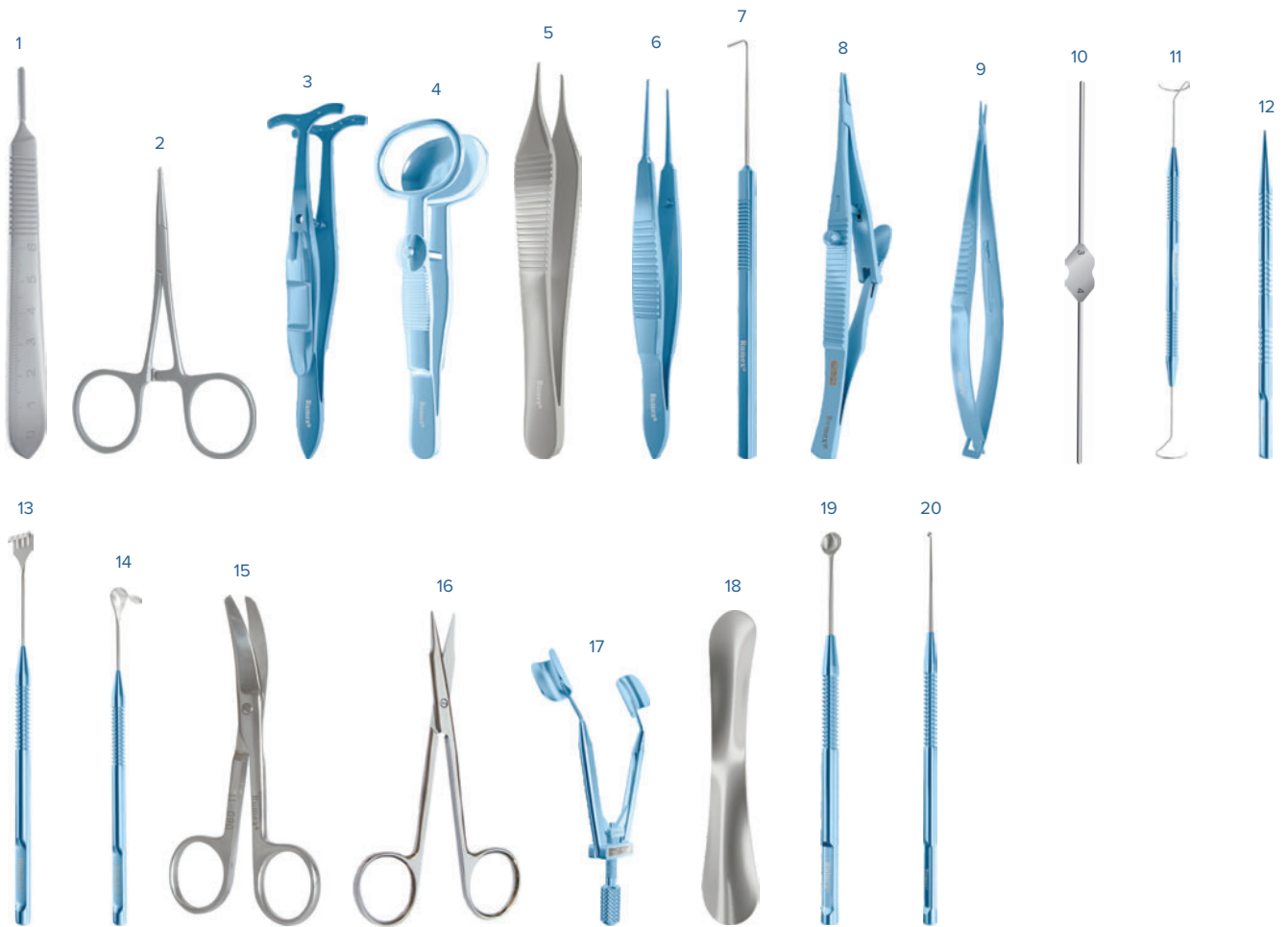


| Reference | Key | Description |
|-----------|-----|-------------------------------------|
| 1-020S | 1 | Bard Parker Handle |
| 2-010T | 2 | Castroviejo Caliper |
| 4-072T | 3 | Dressing Forceps |
| 4-0551T | 4 | Corneal Forceps, Bonn-Catalano Type |
| 4-0602T | 5 | Castroviejo Suturing Forceps |
| 4-090T | 6 | Kelman-McPherson Tying Forceps |
| 4-121S | 7 | Hartman Mosquito Forceps |
| 4-130S | 8 | Jameson Muscle Forceps, Left |
| 4-131S* | 9 | Jameson Muscle Forceps, Right |
| 4-136S | 9 | Osher Superior Rectus Forceps |
| 10-022 | 10 | Desmarres Lid Retractor, Size 2 |
| 5-040 | 11 | Jameson Muscle Hook |
| 5-042 | 12 | Graefe Muscle Hook, Size 2 |

*not shown

| Reference | Key | Description |
|------------|-----|--|
| 5-061 | 13 | Scobee Oblique Muscle Hook |
| 5-062 | 14 | Stevens Curved Tenotomy Hook |
| 8-090T | 15 | Barraquer Needle Holder, Strong Jaws, with Lock |
| 8-0921T | 16 | Castroviejo Needle Holder, Delicate Jaws, with Lock |
| 11-040S | 17 | Westcott Tenotomy Scissors |
| 11-044S | 18 | Westcott Stitch Scissors |
| 14-0601T | 19 | Kershner Reversible Solid Blade Speculum |
| 15-055-19 | 20 | Bishop Harmon AC Cannula, 19 Ga |
| 15-301/303 | 21 | Silicone Bulb with Adapter |
| 16-090S | 22 | Serrefine |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

OCULOPLASTIC SET

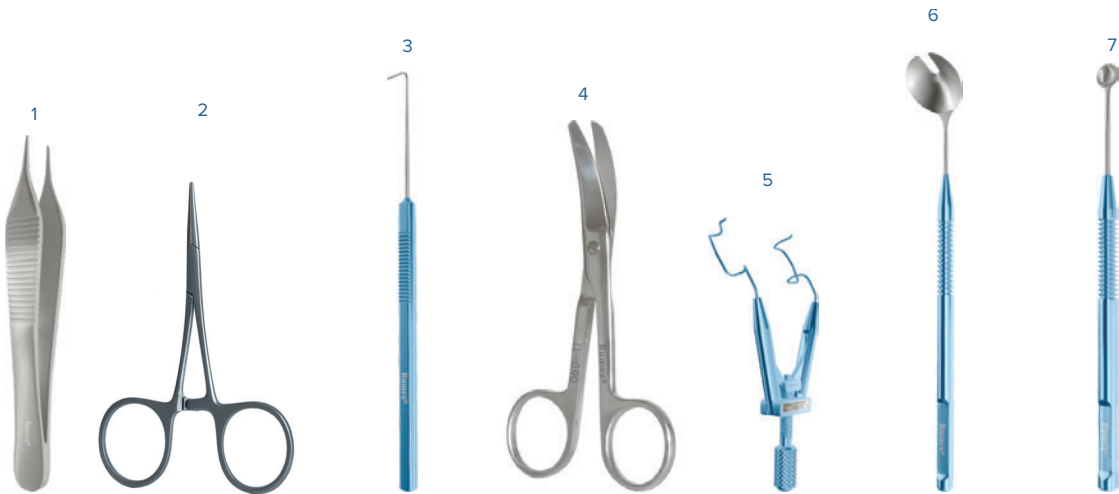


| Reference | Key | Description |
|-----------|-----|---|
| 1-020S | 1 | Bard Parker Handle |
| 4-120S | 2 | Hartman Mosquito Forceps |
| 4-140T | 3 | Putterman Type Lid Clamp |
| 4-1906T | 4 | Desmarres Chalazion Forceps, Large |
| 4-0741S | 5 | Adson Fixation Forceps |
| 4-0822T | 6 | Castroviejo Fixation Forceps |
| 5-042 | 7 | Graefe Muscle Hook, Size 2 |
| 8-080T | 8 | Kalt Needle Holder |
| 8-0921T | 9 | Castroviejo Needle Holder, Delicate Jaws, with Lock |
| 9-012S | 10 | Bowman Lacrimal Probe, Size 1-2 |
| 9-031 | 11 | Pigtail Lacrimal Probe |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 9-050T | 12 | Wilder Lacrimal Dilator, Size 1 |
| 10-014 | 13 | Knapp Lacrimal Sac Retractor |
| 10-022 | 14 | Desmarres Lid Retractor, Size 2 |
| 11-090S | 15 | Enucleation Scissors |
| 11-133S | 16 | Stevens Tenotomy Scissors |
| 14-0601T | 17 | Kershner Reversible Solid Blade Speculum |
| 16-50S | 18 | Lid Plate |
| 16-061 | 19 | Bunge Evisceration Spoon, Small |
| 16-066 | 20 | Meyerhoefer Chalazion Curette, Size 3 |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

ENUCLEATION / EVISCERATION SET



| Reference | Key | Description |
|-----------|-----|----------------------------|
| 4-0741S | 1 | Adson Fixation Forceps |
| 4-120S | 2 | Hartman Mosquito Forceps |
| 5-042 | 3 | Graefe Muscle Hook, Size 2 |
| 11-090S | 4 | Enucleation Scissors |
| 11-101S* | | Knapp Strabismus Scissors |

*not shown

| Reference | Key | Description |
|-----------|-----|--|
| 14-040T | 5 | Lieberman Temporal Speculum |
| 16-060 | 6 | Wells Enucleation Spoon |
| 16-061 | 7 | Bunge Evisceration Spoon |
| 18-304* | | Plastic Sterilization Tray with Silicone Finger Mat, Extra Large |

DON'T FORGET TO BUY

Complete any set with a sterilization tray.
RUMEX offers a variety of plastic and aluminum trays of different sizes and configurations.

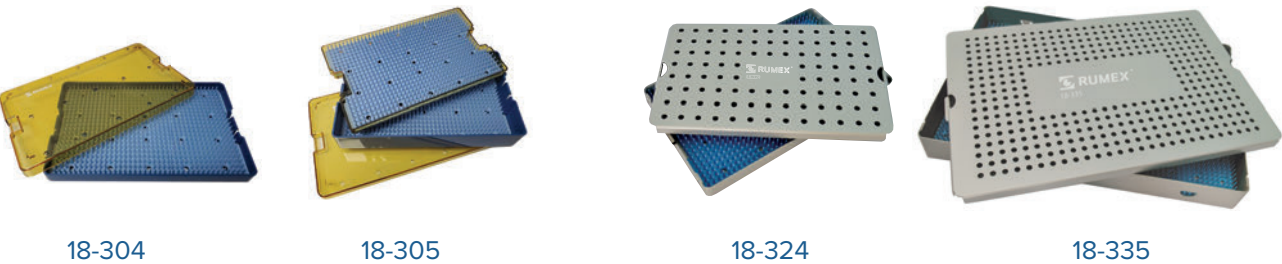


Plastic Trays

RUMEX plastic trays are molded from General Electric's ULTEM® resin, using mold flow analysis to guarantee product strength, structural integrity, and extended life cycle.

Aluminum Trays

RUMEX aluminum trays are manufactured from an anodized aluminum alloy to prevent corrosion, ensure fast drying and long-term use.
Lightweight* for easy transportation and handling.



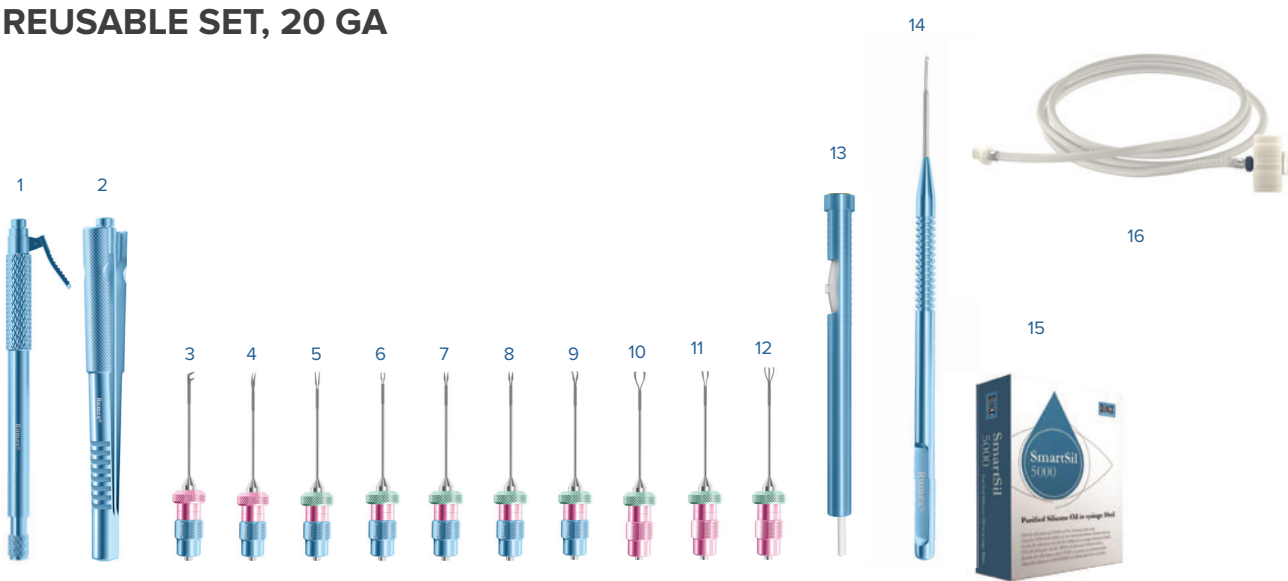
| | Item | Dimensions, (L×W×H) | | Configuration | Accommodates, number of instruments |
|----------------|--------|---------------------|------------------|---------------|--|
| | | mm | in | | |
| Plastic Trays | | | | | |
| 1 | 18-304 | 254×152×19 mm | 10×6×0.75" | Single level | 10-15 |
| 2 | 18-305 | 254×152×38 mm | 10×6×1.5" | Double level | 20-30 |
| Aluminum Trays | | | | | |
| 3 | 18-324 | 260×160×20 mm | 10.25×6.25×0.80" | Single level | 10-15 |
| 4 | 18-335 | 390×265×40 mm | 15.5×10.5×1.5" | Single level | 25-35 |

Other trays are available in RUMEX range

*Compared to Stainless Steel Trays

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

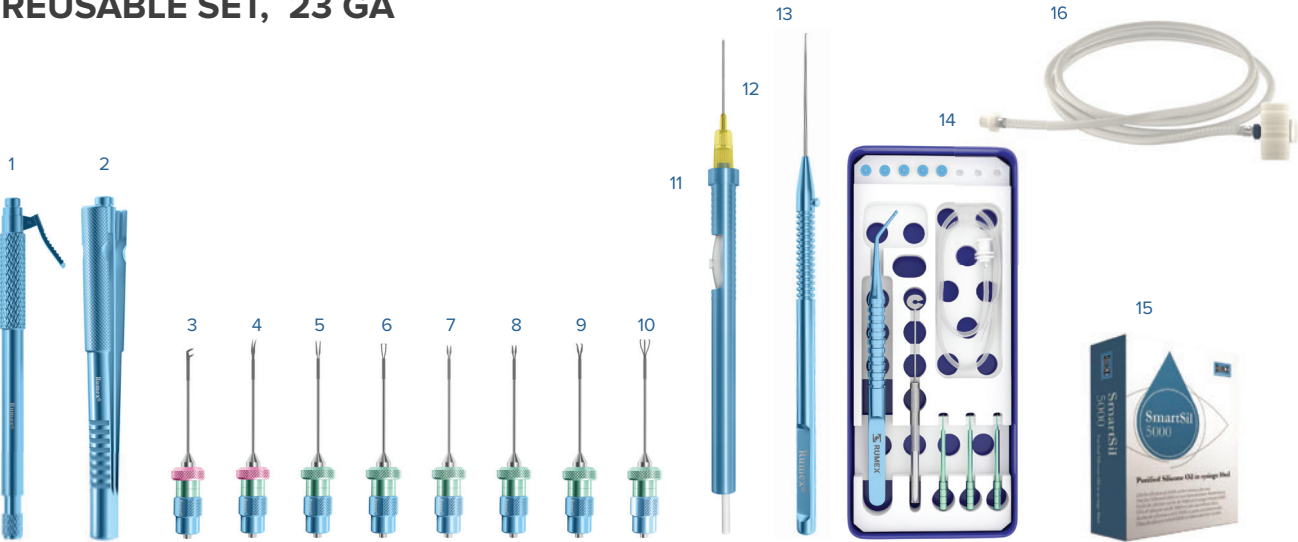
REUSABLE SET, 20 GA



| Reference | Key | Description |
|--------------|-----|--|
| 12-001T | 1 | Universal Instrument Handle, One Finger Control |
| 12-003T | 2 | Universal Instrument Handle, Squeeze Model, Two Fingers Control |
| 12-202 | 3 | Vertical Vitreoretinal Scissors, 20 Ga, Tip only |
| 12-209 | 4 | Curved Subretinal Scissors, 20 Ga, Tip only |
| 12-410 | 5 | Eckardt End-Gripping Forceps, 20 Ga, Tip only |
| 12-411 | 6 | Tano Asymmetrical End-Gripping Forceps, 20 Ga, Tip only |
| 12-301 | 7 | Vitreoretinal Forceps with a Sandblasted Platform, 20 Ga, Tip only |
| 12-304 | 8 | Gripping Forceps with a "Crocodile" Platform, 20 Ga, Tip only |
| 12-325 | 9 | Pick Vitreoretinal Forceps, 20 Ga, Tip only |
| 12-335 | 10 | Stolyarenko Forceps for Large Foreign Bodies, 20 Ga, Tip only |
| 12-313 | 11 | Vitreoretinal Forceps with Cup Jaws, 20 Ga, Tip only |
| 12-321 | 12 | Spring Gripping Forceps, 20 Ga, Tip only |
| 12-6000 | 13 | Titanium Backflush Handle, Active Aspiration |
| 13-092 | 14 | Membrane Scratcher, 20 Ga |
| SmartSil5000 | 15 | Purified Silicone Oil for Retinal Endotamponade, 5000 cSt |
| 12-RTUB-2 | 16 | Reusable Tubing System for the Infusion of Silicone Oil |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

*not shown

REUSABLE SET, 23 GA

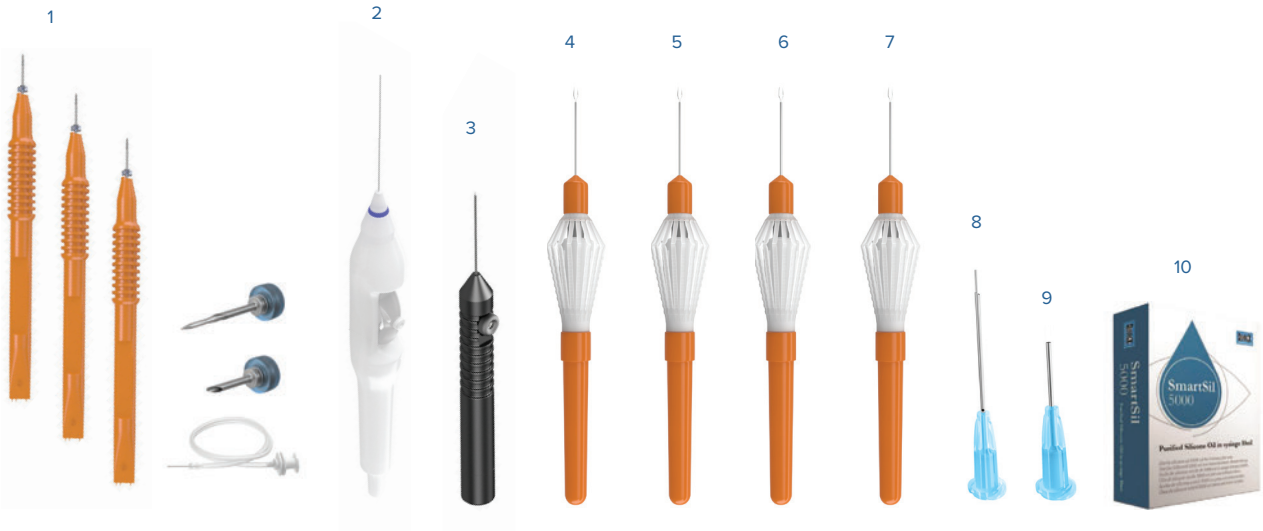


| Reference | Key | Description |
|-----------|-----|--|
| 12-001T | 1 | Universal Instrument Handle, One Finger Control |
| 12-003T | 2 | Universal Instrument Handle, Squeeze Model, Two Fingers Control |
| 12-202-23 | 3 | Vertical Vitreoretinal Scissors, 23 Ga, Tip only |
| 12-209-23 | 4 | Curved Subretinal Scissors, 23 Ga, Tip only |
| 12-410-23 | 5 | Eckardt End-Gripping Forceps, 23 Ga, Tip only |
| 12-4013 | 6 | End-Grasping Forceps, Expanded Space between Branches, 23 Ga, Tip only |
| 12-301-23 | 7 | Vitreoretinal Forceps with a Sandblasted Platform, 23 Ga, Tip only |
| 12-304-23 | 8 | Vitreoretinal Forceps with a "Crocodile" Platform, 23 Ga, Tip only |

*not shown

| Reference | Key | Description |
|-------------------|-----|--|
| 12-325-23 | 9 | Pick Vitreoretinal Forceps, 23 Ga, Tip only |
| 12-321-23 | 10 | Spring Gripping Forceps, 23 Ga, Tip only |
| 12-6000 | 11 | Titanium Backflush Handle, Active Aspiration |
| 12-5161 | 12 | Soft Tip Cannula, 23 Ga, Disposable, 5 per Box |
| 13-097-23 | 13 | Delicate Membrane Pick, 23 Ga |
| 12-5173-23 | 14 | Reusable Trocar System, 23 Ga |
| SmartSil5000 | 15 | Purified Silicone Oil for Retinal Endotamponade, 5000 cSt |
| 12-RTUB-2 18-305* | 16 | Reusable Tubing System for the Infusion of Silicone Oil Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

DISPOSABLE SET, 23 GA

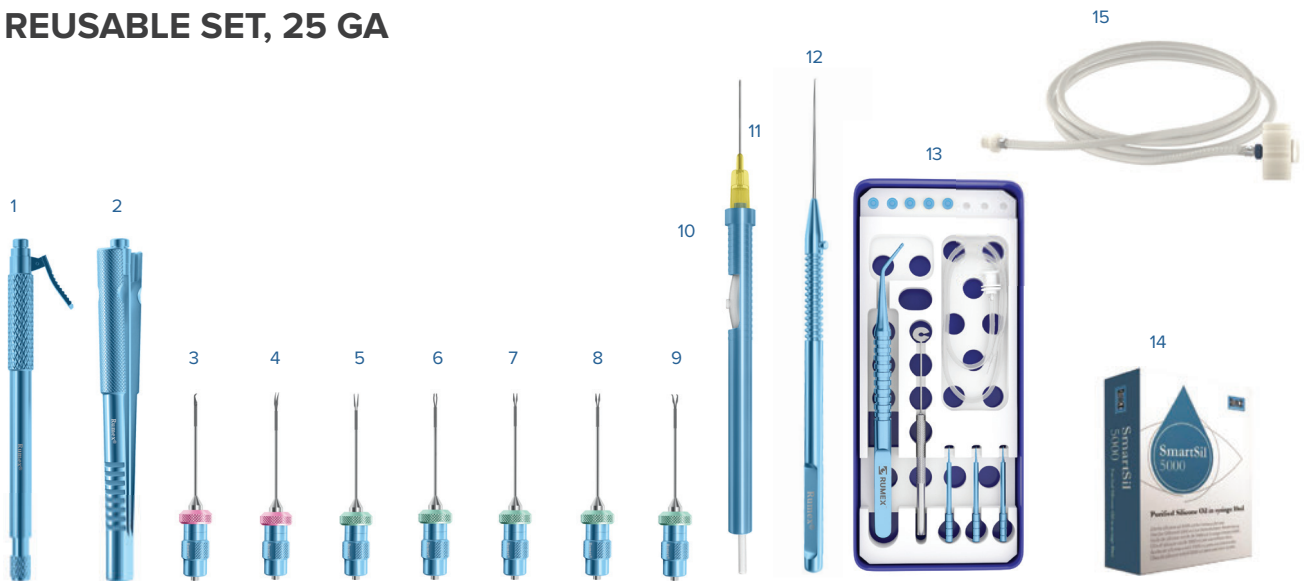


| Reference | Key | Description |
|-------------|-----|--|
| 12-5229 | 1 | Disposable One Step Trocar System 23 Ga, 6 per Box |
| 12-5161H | 2 | Backflush Instrument with Soft Tip, 23 Ga, 6 per Box |
| 12-7523 | 3 | Disposable Diamond Dusted Retractable ILM Elevator, 23 Ga, 5 per Box |
| 12-209-23DP | 4 | Disposable Vitreoretinal Curved Scissors, 23 Ga, Plastic Handle 360°, 6 per Box |
| 12-410-23DP | 5 | Disposable Vitreoretinal Eckardt End-Gripping Forceps, 23 Ga, Plastic Handle 360°, 6 per Box |

| Reference | Key | Description |
|--------------|-----|--|
| 12-304-23DP | 6 | Disposable Vitreoretinal Gripping Forceps with a "Crocodile Platform", 23 Ga, Plastic Handle 360°, 6 per Box |
| 12-202-23DP | 7 | Disposable Vitreoretinal Vertical Scissors, 23 Ga, Plastic Handle 360°, 6 per Box |
| 12-5203 | 8 | Dual Bore PFC Cannula, 23 Ga, 5 per Box |
| 12-5248 | 9 | Viscous Fluid Injection Cannula, 23 Ga, 4 mm Tip, 5 per Box |
| SmartSil5000 | 10 | Purified Silicone Oil for Retinal Endotamponade, 5000 cSt |

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

REUSABLE SET, 25 GA

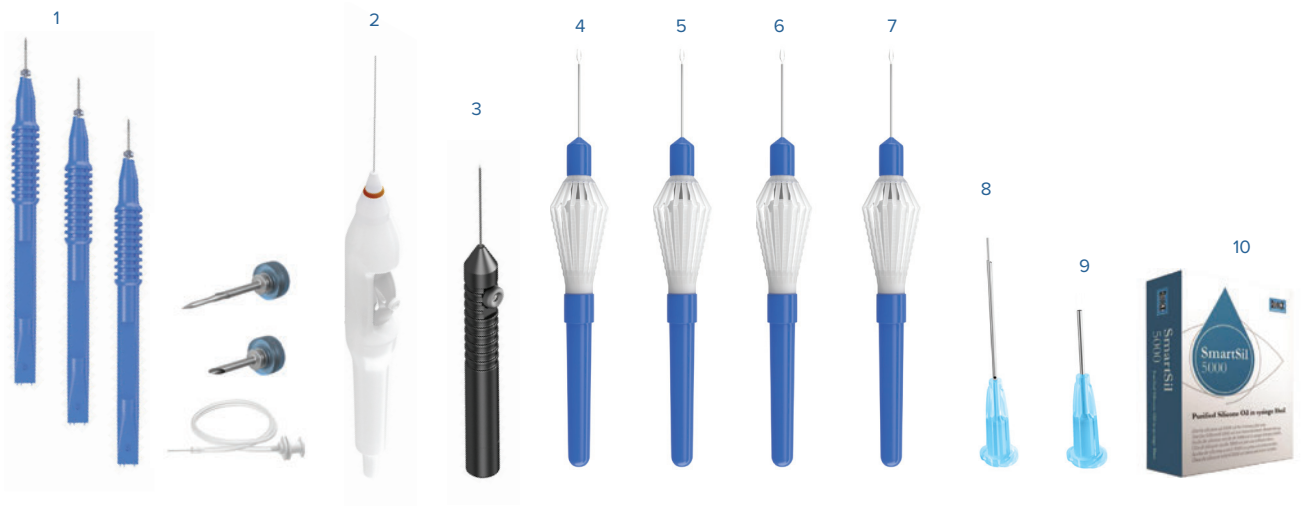


| Reference | Key | Description |
|-----------|-----|--|
| 12-001T | 1 | Universal Instrument Handle, One Finger Control |
| 12-003T | 2 | Universal Instrument Handle, Squeeze Model, Two Fingers Control |
| 12-2029 | 3 | Vertical Vitreoretinal Scissors, 25 Ga, Tip only |
| 12-2099 | 4 | Curved Subretinal Scissors, 25 Ga, Tip only |
| 12-410-25 | 5 | Eckardt End-Gripping Forceps, 25 Ga, Tip only |
| 12-420-25 | 6 | Asymmetrical End-Grasping Forceps, 25 Ga, Tip Only |
| 12-3019 | 7 | Vitreoretinal Forceps with a Sandblasted Platform, 25 Ga, Tip only |
| 12-304-25 | 8 | Vitreoretinal Forceps with a "Crocodile" Platform, 25 Ga, Tip only |

*not shown

| Reference | Key | Description |
|--------------|-----|--|
| 12-3259 | 9 | Pick Vitreoretinal Forceps, 25 Ga, Tip only |
| 12-6000 | 10 | Titanium Backflush Handle, Active Aspiration |
| 12-5152 | 11 | Soft Tip Cannula, 25 Ga, Disposable, 5 per Box |
| 13-0979 | 12 | Delicate Membrane Pick, 25 Ga |
| 12-5173-25 | 13 | Reusable Trocar System, 25 Ga |
| SmartSil5000 | 14 | Purified Silicone Oil for Retinal Endotamponade, 5000 cSt |
| 12-RTUB-2 | 15 | Reusable Tubing System for the Infusion of Silicone Oil |
| 18-305* | | Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large |

DISPOSABLE SET, 25 GA



| Reference | Key | Description |
|-------------|-----|--|
| 12-5244 | 1 | Disposable One Step Trocar System 25 Ga, 6 per Box |
| 12-5152H | 2 | Backflush Instrument with Soft Tip, 25 Ga, 6 per Box |
| 12-7525 | 3 | Disposable Diamond Dusted Retractable ILM Elevator, 25 Ga, 5 per Box |
| 12-209-25DP | 4 | Disposable Vitreoretinal Curved Scissors, 25 Ga, Plastic Handle 360°, 6 per Box |
| 12-410-25DP | 5 | Disposable Vitreoretinal Eckardt End-Gripping Forceps, 25 Ga, Plastic Handle 360°, 6 per Box |

| Reference | Key | Description |
|--------------|-----|--|
| 12-304-25DP | 6 | Disposable Vitreoretinal Gripping Forceps with a "Crocodile Platform", 25 Ga, Plastic Handle 360°, 6 per Box |
| 12-202-25DP | 7 | Disposable Vitreoretinal Vertical Scissors, 25 Ga, Plastic Handle 360°, 6 per Box |
| 12-5205 | 8 | Dual Bore PFC Cannula, 25 Ga, 5 per Box |
| 12-5258 | 9 | Viscous Fluid Injection Cannula, 25 Ga, 4 mm Tip, 5 per Box |
| SmartSil5000 | 10 | Purified Silicone Oil for Retinal Endotamponade, 5000 cSt |

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

APPENDIXES

STERILIZATION AND CARE

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| GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION | 171 |
| DIAMOND KNIVES STERILIZATION | 177 |
| HANDLING OF VITREORETINAL AND MICROINCISIONAL INSTRUMENTS | 179 |
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STERILIZATION AND CARE

GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION

We at RUMEX guarantee our instruments against manufacturing defects, but the lifespan of reusable instruments lies within proper handling and care. To help your instruments preserve their initial conditions, we strongly recommend you to read the instructions below carefully before use.

A common misconception that “stainless steel” or “titanium” have extreme durability and are indestructible is in need of correction: these metals still might be affected by chemical, mechanical, thermal attacks and etc. However, if you are aware of metal characteristics and understand how to handle them, the lifespan of the instruments may be enlarged.

A particular care should be taken after microsurgical instruments as they have very delicate working tips. These instructions are being general recommendations, cleaning guidelines of the solutions and equipment manufacturer and your institution, especially those regarding temperature, time of exposure and concentration, should be observed.

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 STERILIZATION TRAY.

Stage 1: DESINFECTION

Soaking

1. For effective cleaning of instruments it is recommended to start pre-treatment as soon as possible, no later than 30 minutes after surgery is completed. The cleaning/disinfection should be carried out within the next two hours.
2. Use **distilled/demineralized water** to prepare the working solution.
3. Water temperature should be as specified in the manufacturer's instructions. Water layer above the instruments should be no less than 1 cm (.39 inches).
4. Make sure the disinfectant is free of **aldehydes, glutaraldehydes**. Stainless steel tools must not be exposed for a long time to media which can promote corrosion (for example, chloride or iodine ions). This also applies to the vapors of the substances mentioned.

Do not immerse stainless steel instruments in an isotonic solution (e.g. physiological saline solution) as stress corrosion cracking and pitting may occur.

5. Carry out disinfection according to the mode, indicated in the instructions of product manufacturer. Disinfectant solution should not foam.
6. Instruments with hinges and joints must be handled open.

Rinsing

1. Place the products in a container with distilled/demineralized water and wash off the remaining solution with thorough rinsing of all lumens for 5 minutes.
2. Then rinse with distilled water.

Stage 2: PRE-STERILIZATION CLEANING

Never skip this cleaning stage as residues on instruments such as care agents and the ones of package materials may form stains and depositions in course of sterilization.

MANUAL CLEANING

It is imperative to follow the rules:

1. As much moisture as possible must be eliminated from all instrument's parts since moisture promotes corrosion.
2. Only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in the cleaning process. Cleaning guidelines of the solution manufacturer and your institution should be observed.
3. 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.
4. The cleaning/disinfecting solutions should be exchanged daily.

Steps of manual cleaning in solution

1. Use **distilled/demineralized water** to prepare the working solution. Use chemicals with non-protein fixing process and with/without anti-microbial effects. Prepare the solution according to the manufacturer's instructions.
2. The detachable products should be disassembled prior to be immersed into the solution. Products with locks should be immersed open with preliminary several working movements done inside the solution for its better penetration into hard-to-reach areas of the instruments. Make sure that there are no air bubbles in the cavities and all the inner surfaces are affected.
3. Soak according to the mode, indicated in the instructions of product manufacturer. **We recommend soaking instruments in a detergent with pH level between 6-9 for 10 min at 40°C/104°F. Disinfection agent should be aldehyde-free.**
4. Wash each product with a brush or a cotton-gauze sponge. Use a syringe to wash the lumens of the instruments. Remove all macroscopically visible dirt.

WARNING! 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.

5. Place the products in a container with distilled/demineralized water and wash off the remaining solution with thorough rinsing of all lumens for 5 minutes. Repeat the procedure if necessary.
6. Then rinse with distilled water to prevent spotting. Instruments with lumens should be flushed out at least five times at the beginning and at the end of the cleaning (10 ml/0.34 fl.oz distilled or deionized water to be used each time) .
7. Dry instruments carefully before sterilization with a hot air blower or lint-free cloth. Compressed air is preferred. Sterile compressed air should be used to insufflate cavities of the instruments.
8. The cleaning results must be visually inspected. The instruments must be visibly clean.

ULTRASONIC CLEANING

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 into the equipment. A five to ten minutes cycle in the ultrasonic cleaner should be sufficient.

The following rules should be followed:

1. Fill the bath with room temperature water. The temperature higher than 45°C (113°F) can lead to encrustation due to denaturation of the protein.
2. Use detergent to soak the instruments. A distilled/demineralized water should be used to prepare the working solution. Make it according to the manufacturer's instructions. Newly prepared cleaning solutions require degassing prior to the first use.
3. Place instruments next to each other without stacking them.
4. When carrying out ultrasonic cleaning, all parameters specified by the manufacturer of the cleaning agent, such as exposure time and concentration, must be observed.
5. The use of ultrasonic baths and strong cleaning fluids (alkaline pH> 9 or acid pH <5) can shorten the lifespan of the products. Make sure the appropriate agents are chosen for performing the procedure.
6. Place the instruments on silicone fingertip mat, previously put into the ultrasonic bath with the solution. When using deionized water or cleaning solution fully submerge the instruments. Change the ultrasonic solution from ultrasound cleaner after each use.

Instruments with hinges and joints must be handled open to minimize the obscured surface areas. The detachable products should be disassembled prior to be immersed into the solution.

Products with locks should be immersed open with preliminary several working movements done inside the solution for its better penetration into hard-to-reach areas of the instruments.

Large instruments should be placed vertically in order not to create acoustic shadows.

WARNING! 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.

7. Carry out the cleaning procedure. Turn on ultrasonic bath. 3 minutes exposure at frequencies of around 35 kHz would be sufficient. Use soft bristled nylon brush to clean all the parts of the instrument, inside and outside.
8. Place the products in a container with distilled/demineralized water and wash off the remaining solution with thorough rinsing of all lumens for 5 minutes. Repeat the procedure if necessary.

9. Then rinse with distilled water to avoid water spots.
10. Dry the instruments before sterilization. A lint free cloth may be used for manual drying. Sterile compressed air should be used to insufflate cavities of the instruments.

WARNING! DO NOT apply ultrasonic cleaning to diamond knives or instruments with delicate tips (e.g. vitreoretinal and microincisional tips, choppers, hooks, manipulators and etc.)

AUTOMATED CLEANING

1. Baskets in the form of nets with large holes are recommended to be used in special washing equipment. Be sure to use tool holders in the basket. Place instruments inside them without overloading.
2. Make sure that the large instruments don't obscure other ones and don't create spray shadows.
3. Sort tools by similar metals, avoiding contact between dissimilar ones. This type of contact can cause galvanic corrosion.
4. Use a solution suitable for washing equipment with low foaming property.
5. Use a neutralizer, which not only neutralizes alkali, but also reduces surface tension of the liquid during drying, accelerating it, and minimizing stains.
6. Set the program for the cleaning step. The chosen program must be suitable for the products and include the appropriate number of rinsing cycles.

For automated cleaning and disinfection thermal and chemo-thermal disinfection options are available. During **thermal processes** disinfection is carried out at temperatures above 65°C (149°F). A reprocessing program may include the following steps:

1. Pre-wash with cold water to remove dirt and foaming substances.
2. Cleaning is performed with use of suitable pH-neutral or alkaline products added to hot or cold distilled water at temperatures of 40-60°C (104-140°F) for at least 5 minutes.
3. Intermediate rinse in hot or cold distilled water with acidic neutralizer added in order to facilitate the removal of remaining alkaline disinfectants.
4. Second intermediate rinse in hot or cold distilled water without additives should follow.
5. Thermal disinfection and final rinse is performed at temperatures of 80-95°C (176-203°F).
6. Drying might be carried out in washer/disinfector or in other possible ways. Sterile compressed air should be used to insufflate cavities of the instruments.

Chemo-thermal disinfection is suitable for heat-sensitive products. The temperature is limited in all rinsing stages and during the step of drying.

Cleaning is performed normally at < 65°C (149°F). A reprocessing program may include the following steps:

1. Pre-wash with cold water to remove dirt and foaming substances.
2. Cleaning is performed with use of suitable pH-neutral or alkaline products added to hot or cold distilled water at temperatures of 40-60°C (104-140°F) for at least 5 minutes.
3. Intermediate rinse in hot or cold distilled water followed by chemo-thermal disinfection. Special cleaning agent, compatible with machine-disinfection, is used.
4. Intermediate rinse in hot or cold distilled water without additives.
5. Final rinsing with distilled water at higher temperature.
7. Drying might be carried out in washer/disinfector or in other possible ways. Sterile compressed air should be used to insufflate cavities of the instruments.
8. The cleaning device must be regularly maintained, checked and validated in accordance with internal and manufacturer requirements.
9. When processing the ophthalmic instruments we recommend using the additional intermediate rinsing with water in the washing programs before the final rinse.

Additional rinsing outside the washing equipment is not required.

A combination of processing stages 1 and 2 is allowed.

WARNING! Tools with blind holes, long narrow tips (e.g. tips, cannulas, handpieces and etc), hinges (3-joint instruments) need more attention during cleaning process. The temperature at all stages of the process should not exceed 170°C (338°F).

Aspiration speculums require additional cleaning of silicone tubes prior to be sterilized.

First, soak the instrument in the soap solution at temperature of 50°C (122°F) and keep it there for 15 min. After that wash the instrument with brush and cotton/gauze pad. Take the instrument out of soap bath and wash it under streaming water for 3 min. Rinse the instrument with distilled or deionized water. Then attach a syringe filled with warm water into the luer lock and rinse the silicone tubes of the instrument. Finally, blow them with air by forcing one or two syringes full of air through the tubes.

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 lubricant must be biocompatible, suitable for steam sterilization and vapor-permeable. No silicone oil should be applied. The paraffin/white oil based lubricants are allowed to be used. After cleaning process let the instruments cool down to room temperature prior to their actuation, as otherwise metal abrasion may develop when the details of the tools rub against each other. This may destroy the instruments' functionality. The recommended directions of the instrument lubricant manufacturer and your institution should be observed.

Stage 3: STERILIZATION

Surgical instruments should be stored at room temperature in dry rooms 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.

WARNING! Never store the instruments close to the chemicals.

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 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.

WARNING! Only clean and disinfected products can be sterilized.

For lumen instruments (e.g. tips, cannulas, handpieces) the gravity procedure is not suitable!

RUMEX instruments can be sterilized using any of the following methods:

| | |
|-------------------|--------------------|
| 100% ETO cycles | |
| Concentration ETO | 850±50mg/l |
| Temperature | 37-47°C (99-117°F) |
| Exposure time | 3–4 hours |
| Humidity | 70% RH minimum |
| Drying Cycle | 1 hour |

WARNING! ETO method is not recommended for diamond knives sterilization.

| | Steam Autoclaving | | “Flash” Autoclaving | |
|-----------------|-------------------|-----------------|---------------------|-----------------|
| Sterilizer Type | Gravity | Prevacuum | Gravity | Prevacuum |
| | Displacement | | Displacement | |
| Sample Config. | wrapped | wrapped | unwrapped | unwrapped |
| Temperature°C | +132°C | +132°C°C | +132°C | +132°C |
| Temperature°F | +270°F | +270°F°F | +270°F | +270°F |
| Exposure Time | 34 minutes | 3 minutes | 10 minutes | 3 minutes |
| Drying Cycle | min. 10 minutes | min. 10 minutes | min. 10 minutes | min. 10 minutes |

WARNING! The sterilization steam must not contain any impurities.

Gas plasma sterilization is not recommended as delicate instruments might be physically damaged when exposed to low pressure.

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.

WARNING! Follow the guidelines of the processing times. The rapid sterilization process should be reserved for emergency processing only and should not be used for routine instrument sterilization. Longer sterilization period and higher temperatures can lead to premature aging of instruments.

RECOMMENDED PRODUCTS FOR CARE AND CLEANING

| Product name, Manufacturer | Description | Composition | Processing stage | Compatibility |
|---|---|---|---|--|
| SEKUSEPT Activ, Ecolab Deutschland GmbH | Disinfectant for automatic and manual processing of tools | ≥ 30% oxygen-based bleaching agents; <5% non-ionic surfactants, phosphonates; 50% sodium perborate monohydrate; 25% tetraacetylenediamine; active antimicrobial components, nonionic surfactants, corrosion inhibitor; pH of 2% solution: 7.4-8.4 | Disinfection; Pre-sterilization cleaning; Sterilization | Compatible. Discoloration of metal, residual detergent or water film formation may occur. |
| Neodisher MediClean Forte, Dr. Weigert GmbH & Co. | Detergent for automatic and manual cleaning of surgical instruments. Prevents reprecipitation of protein residues. | < 5% non-ionic and anionic surfactants; enzymes; pH: 10.4-10.8 | Pre-sterilization cleaning | Compatible. Discoloration of metal, residual detergent or water film formation may occur. |
| Neodisher MediKlar, Dr. Weigert GmbH & Co. | Rinser for automatic and manual cleaning of surgical instruments. Recommended for use with MediClean forte. Prevents reprecipitation of protein residues. | < 5% anionic surfactants, polycarboxylates; 5 - 15% non-ionic surfactants also preservatives; 2-octyl-2H-isothiazol-3-one, a mixture of: 5-Chloro-2-methyl-2H-isothiazol-3-one [EC-no.247-500-7] and 2-Methyl-2H-isothiazol-3-one; pH: 5.9-6.9 | Pre-sterilization cleaning | Compatible |
| ERIZYME, KiiltoClean FARMOS Oy | Detergent for hand treatment, washer disinfectors and ultrasonic treatment | non-ionic surfactants (< 5%); amphoteric surfactants (< 5%); complexing agent (5-15%); monopropylene glycol (15-30%); anti-foaming agent; enzymes; pH: 7.5 | Pre-sterilization cleaning | Compatible |
| ERISAN OXY+, KiiltoClean FARMOS Oy | Disinfectant in disposable sachets | sodium percarbonate 30 - <50%; citric acid 15 - <30%; tartaric acid 5 - <15%; pH: 5.9-6.9 | Disinfection; Pre-sterilization cleaning; Sterilization | Compatible |

Fully demineralized water for rinsing and correct loading must be used to prevent staining!

The color of titanium instruments may change due to development of different properties of oxide layers. Such discoloration does not bring a safety risk, as well as water stains on the surface of the instruments. They don't affect the biocompatibility, functionality, and lifetime of the instruments. However, discoloration may affect the visual inspection of the tools (e.g. determining residual dirt). To prevent the color change of titanium instruments, use only neutral or mild alkaline cleaning agents. While using them, do not exceed a temperature of 70°C (158°F).

AT THE END OF THE SURGICAL DAY

Instruments should be washed clean of all residues, dried and inspected after each use. Be sure to inspect every microsurgical instrument at the end of your surgical day. Please conduct this inspection under a microscope or magnification lens. If a damaged instrument is detected, repair or replace it. Washing, drying and inspecting the instrument under magnification helps to ensure that the instrument is kept in proper condition for the next surgical procedure.

DIAMOND KNIVES 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). 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.

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 the knife.

CLEANING

1. Use a syringe with distilled or demineralized water to flush the instrument.
2. Dip the knife (blade retracted) into weak alkaline cleaning solution and keep for 60 minutes at a temperature of 22°C (72°F).
3. The handle of a knife can be cleaned with a soft brush.
4. 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.

WARNING! DO NOT apply ultrasonic cleaning to diamond knives.



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.

PLEASE OBSERVE THE GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION BEFORE HANDLING THE TOOL! SEE P. (p.171)

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.

WARNING!

ETO method is not recommended for diamond knives sterilization.



The knife must not be treated at more than 140°C (284°F).

Gas plasma sterilization is not recommended as delicate instruments might be physically damaged when exposed to low pressure.

STORAGE

Diamond knives must be kept at a temperature from 10 to 25°C (50 to 77°F) and relative air humidity at max. 75% at 25°C (77°F). Indoor air must not contain corrosive additive agents. The blade must be fully retracted into the handle (non-operative position). Self-movement, blows or vibrations must be avoided.

INSPECTION

Incoming inspection is obligatory. It includes:

1. Visual examination of the package obtained: no mechanical damages are permitted.
2. 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.
3. Blade must be set into the operating/non-operating position without jamming; it must be fixed easily.

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 sharpening or blade replacement.

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 sharpened or exchanged according to the after-sale service program.

HANDLING OF VITREORETINAL AND MICROINCISIONAL INSTRUMENTS

APPLICATION

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

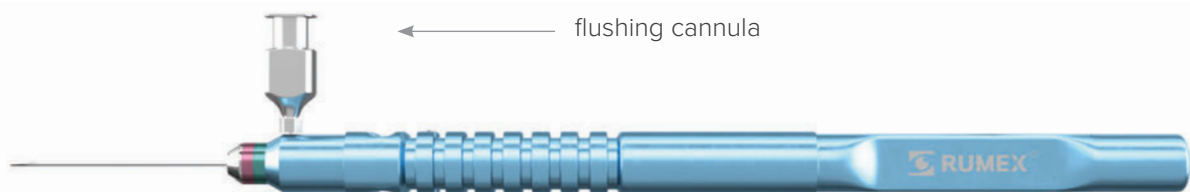
The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. Proteins may also accumulate inside of the mechanism. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument malfunction. Ensure the cleaning procedure is implemented after each surgery — warranty shall not extend to instruments that have been improperly handled. One-piece and two-piece vitreoretinal instruments are cleaned by use of special adaptor and cannula.

CLEANING OF TWO-PIECE VITREORETINAL INSTRUMENTS



1. Unscrew the tip from the handle, then attach flushing adapter 12-000T.
2. Flush the tip with distilled or demineralized 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. Handle should be soaked in distilled or demineralized water for two minutes.
6. Dry with surgical sponge.
7. Lubricate joints in handle with instrument milk and work the mechanism by pressing the key.

CLEANING OF ONE-PIECE VITREORETINAL INSTRUMENTS



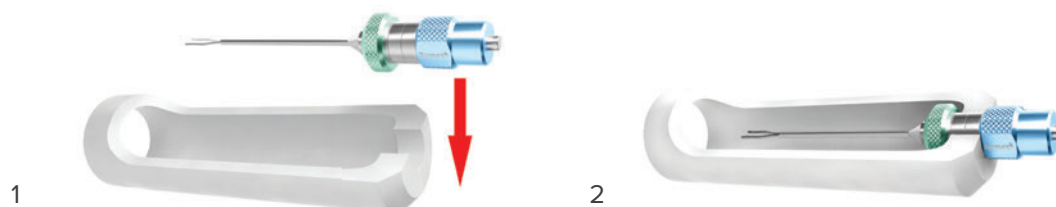
1. Put the instrument into PTFE protector (provided).
2. Soak it in the soap solution at temperature of 50°C (122°F) and keep it there for 15 min.
3. Wash the handle with brush and cotton/gauze pad.
4. Take the instrument out of soap bath and wash it under streaming water for 3 min.
5. Rinse the instrument with distilled or demineralized water.
6. After that flush the instrument with alcohol solution. It will remove water and contribute to drying.
7. Next, adjust the cannula on the luer of the syringe and fill the syringe with distilled or demineralized water.
8. A tube of the cannula then should be inserted into the port, situated at the base of the barrel near the colored wheels.
9. Flush the tube of the instrument and the tip with distilled or demineralized water by forcing syringe plunger. Then repeat the procedure with use of alcohol solution.
10. Finally, blow the air inside the tube by forcing it from the syringe into the port of the instrument. Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air.

WARNING! DO NOT apply ultrasonic cleaning to vitreoretinal and microincisional tips.

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 are autoclavable. 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.

PLEASE OBSERVE THE GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION BEFORE HANDLING THE TOOL! SEE P. (p.171)

WARNING!

Gravity displacement is not suitable for vitreoretinal and microincisional tips.

Gas plasma sterilization is not recommended as delicate instruments might be physically damaged when exposed to low pressure.

ABBREVIATIONS

| | |
|---------------------|---|
| BRVO | Branch Retinal Vein Occlusion |
| BSS | Balanced Salt Solution |
| CPM | Cuts per Minute |
| CRVO | Central Retinal Vein Occlusion |
| DALK | Deep Anterior Lamellar Keratoplasty |
| DLEK | Deep Lamellar Endothelial Keratoplasty |
| DMEK | Descemet's Membrane Endothelial Keratoplasty |
| DSAEK | Descemet's Stripping Automated Endothelial Keratoplasty |
| DSEK | Descemet's Stripping Endothelial Keratoplasty |
| ECCE | Extracapsular Cataract Extraction |
| ERM | Epiretinal Membrane |
| I/A | Irrigation / Aspiration |
| ICL | Implantable Collamer Lens |
| ICRS (implantation) | Intrastromal Corneal Ring Segments |
| ID | Inner Diameter |
| ILM | Internal Limiting Membrane |
| IOL | Intraocular Lens |
| LASEK | Laser-Assisted Sub-Epithelial Keratectomy |
| LASIK | Laser-Assisted in Situ Keratomileusis |
| LHD | Left Handed Doctor |
| LRI | Limbal Relaxing Incisions |
| MICS | Micro Incision Coaxial Surgery |
| MVR (knife) | Micro-vitreoretinal |
| OD | Outer Diameter |
| OVD | Ophthalmic Viscosurgical Device |
| PFC | Perfluorocarbon |
| PRK | Photorefractive Keratectomy |
| PVD | Posterior Vitreous Detachment |
| ReLEx SMILE | Refractive Lenticule Extraction Small Incision Lenticule Extraction |
| RHD | Right Handed Doctor |
| SMILE | Small Incision Lenticule Extraction |
| STSS | Stainless Steel |
| Ti | Titanium |

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