



OPHTHALMIC INSTRUMENTS

+ IOLs & Consumables

2026



**AFFORDABLE
INNOVATIONS**

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FEATURED SETS

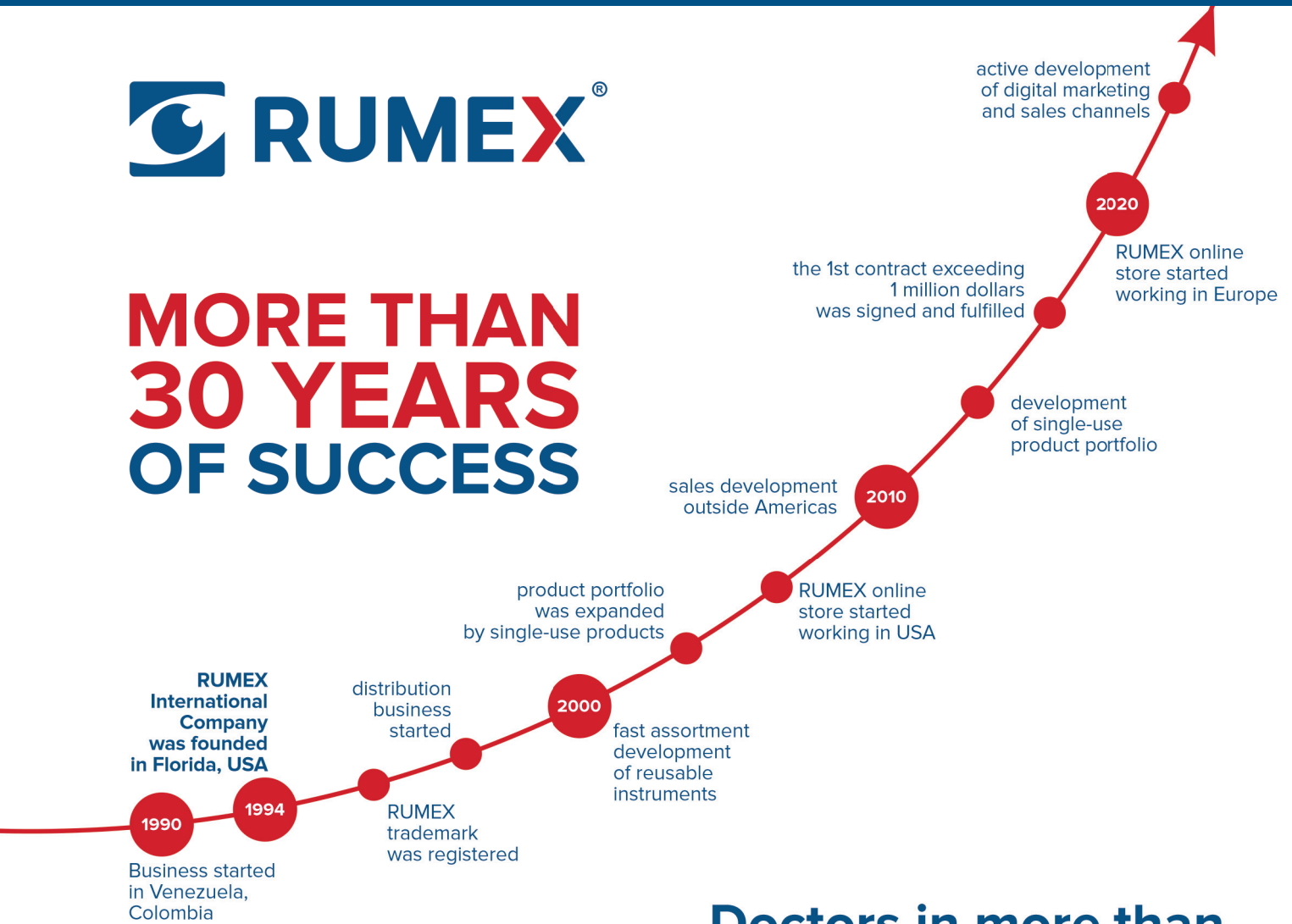
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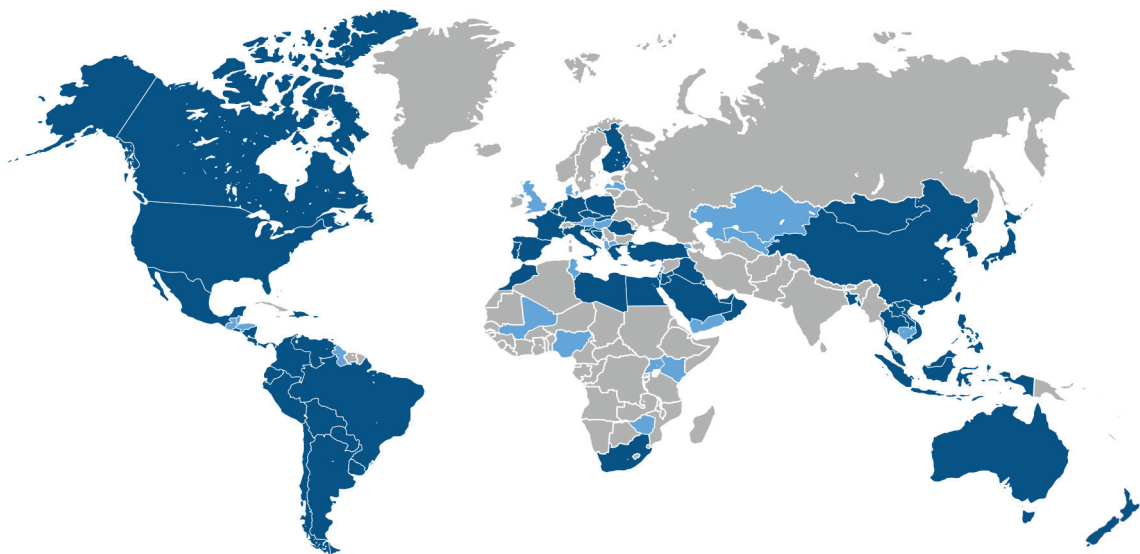
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MORE THAN 30 YEARS OF SUCCESS



Doctors in more than 100 countries choose RUMEX



 Countries with RUMEX representatives
 Countries with RUMEX direct clients

HOW TO PLACE AN ORDER

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

If your shipping country is the 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 determined 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 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 & REPLACEMENTS

Warranty conditions

RUMEX provides a lifetime warranty against any manufacturing or material defects for all instruments. In case of breakdown, we will undertake a due expert analysis and if the defect was not caused by improper handling or misuse, we will either provide you with a 100% compensation or exchange the defective instrument for free.

In some cases when instruments are improperly used or mishandled, this may lead to the occurrence of non-manufacturing defects, which are not covered by the RUMEX lifetime warranty. To avoid such cases please carefully read and always follow our Care and Sterilization instructions or consult our customer service for proper handling instructions.

Returns and replacements

Please check the products immediately upon receipt, all claims (related to product appearance, count, package, etc.) shall be accepted within 10 business days of delivery. Products that passed through the initial inspection can be returned within 30 days at no charge in their original undamaged condition. Any instrument returned within 30–60 days of shipment is subject to 10% restocking charge. No returns are accepted after 60 days.

To return or replace an instrument please fill out the RMA form and send the paper copy by post together with the instrument. To get the RMA form, please contact the customer service department.

To obtain a Return Authorization Number prior to returning instruments, please call the 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 for the costs of the instruments but will be responsible for all freight charges for the original order. Refunds are available only as 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 the repair of an instrument, we will be glad to offer you the service at a reasonable price. Please contact the RUMEX customer service team for details.



SKU preferred by the majority of customers



Recently introduced into the product range of RUMEX International Co.



Disposable instruments



Available in a single-use edition



Available in Stainless Steel



Frequently bought together



Quantity in the box



With Locking Mechanism

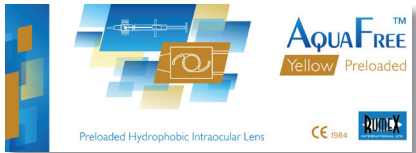
IOLs, DISPOSABLE INSTRUMENTS & CONSUMABLES

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IOL IMPLANTATION SOLUTIONS

STEP 1. CHOOSE IOL AND DELIVERY SYSTEM

PRELOADED IOL with DELIVERY SYSTEM



AquaFree Yellow Preloaded



**Disposable Accuject™
Injector**

FEATURES:

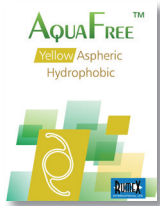
- Fast injection
- Ready-to-use option

OR

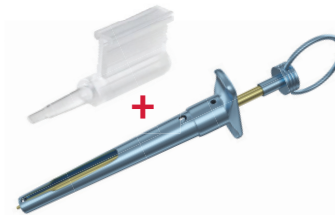
NON-PRELOADED IOL

PLUS

DELIVERY SYSTEM



**AquaFree Yellow
Aspheric Hydrophobic**



**Single-Use Cartridge CAT-22*
PLUS
Reusable IOL Injector 16-2853**

FEATURES:

- Money-wise solution
- Flexibility in choosing the IOL

* for 2.20 mm incision.
Other sizes are available, see p.20.

STEP 2. ADD OVD

DISPERSIVE

**SUPREME
HPMC 2.0%**

BEST FOR:

- Coating the surgical instruments
- Endothelium protection

AND/OR

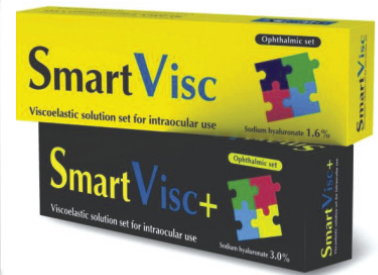
COHESIVE

**SMARTVISC
Sodium Hyaluronate 1.6%**

**SMARTVISC PLUS
Sodium Hyaluronate 3.0%**

BEST FOR:

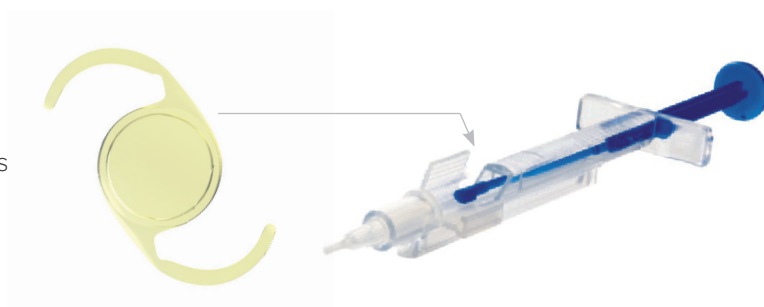
- Keeping the empty capsular bag open for IOL insertion
- Flattening the anterior capsule to facilitate capsulorhexis



IOLs

HYDROPHOBIC IOLs*

Foldable aspheric monofocal one-piece IOLs



	AquaFree Yellow Aspheric Hydrophobic	AquaFree Yellow Preloaded							
Min. incision size		2.20 mm							
Overall diameter		13.00 mm							
Optic diameter		6.00 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, 360° square edge								
Refractive index	1.5								
Abbe number	50								
Nominal A-constant	118.7								
A-constant for ultrasound	118.4								
Transition temp. of material	11°C								
Filtration	UV and Blue Light (400-475 nm)								
AC-depth	5.51								
Shelf life	5 years								
Optimized optical constants									
	Haigis:		HofferQ:		Holl.1:				
	a0	a1	a2	pACD	sf	SRK/T	SRK II	n	Ref.
	1.32	0.40	0.10	5.51	1.75	118.9	119.2	1.50	[304], [332]

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 2.20 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 to the 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

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

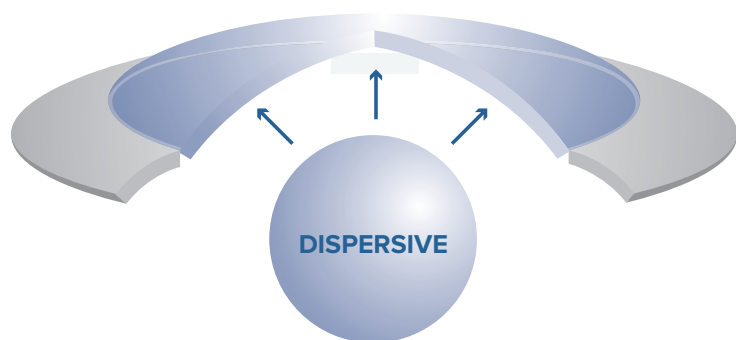
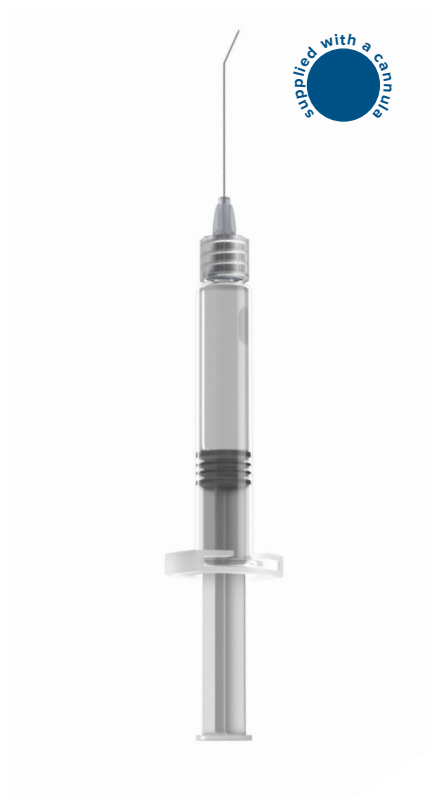
Classification	Dispersive
Composition	HPMC 2%
Molecular weight	86 000 Da
Viscosity	3 000–4 500 cSt
pH	6.0–7.8
Osmolality	250–350 mOsmol/kg
Volume	2 ml
Storage	2–35°C
Shelf Life	3 years

Advantages

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

Dispersive OVD Supreme is used to:

- Coat ocular structures during cataract surgery: in the initial part, during capsulorhexis and phacoemulsification
- Protect corneal endothelium in the eye where endothelium pathology is suspected



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	

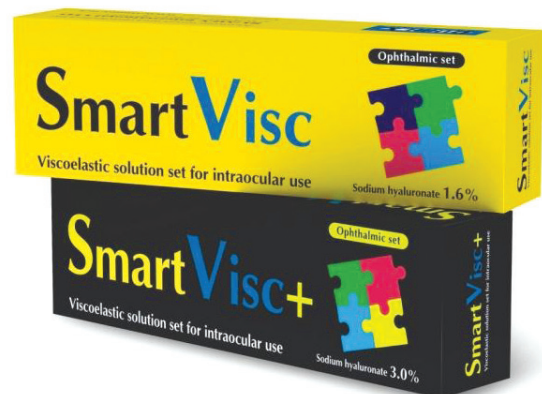
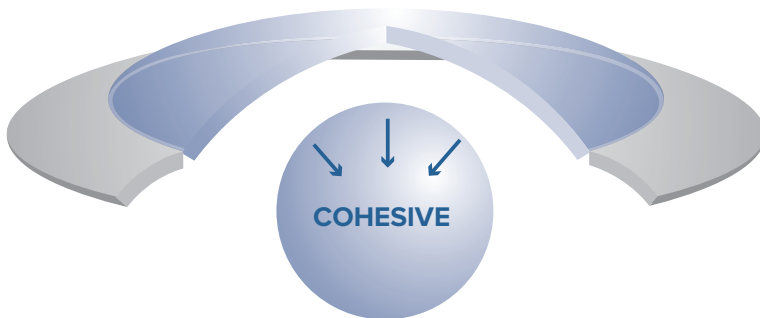


Advantages

- 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 OVD 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

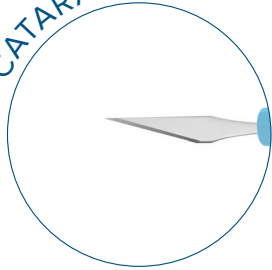
Product design and/or features that do not influence its functionality and main parameters are subject to change

DISPOSABLE KNIVES

STERILE  


ALL KNIVES ARE EQUIPPED WITH SAFETY LIDS

CATARACT

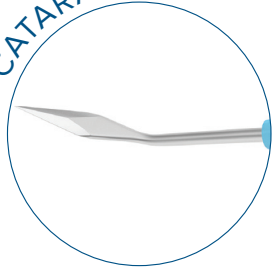


Side-Port Knives

Initial stab incisions
Straight, double bevel

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

CATARACT

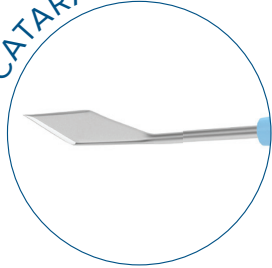


Paracentesis Knives

Paracentesis incisions/side-port incisions
Angled, double bevel

- PK-11 1.10 mm

CATARACT

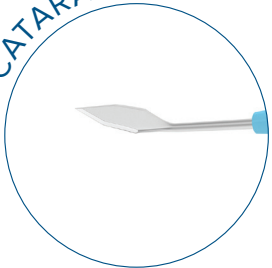


Slit Knives

Scleral tunnel incisions
Angled, single bevel

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

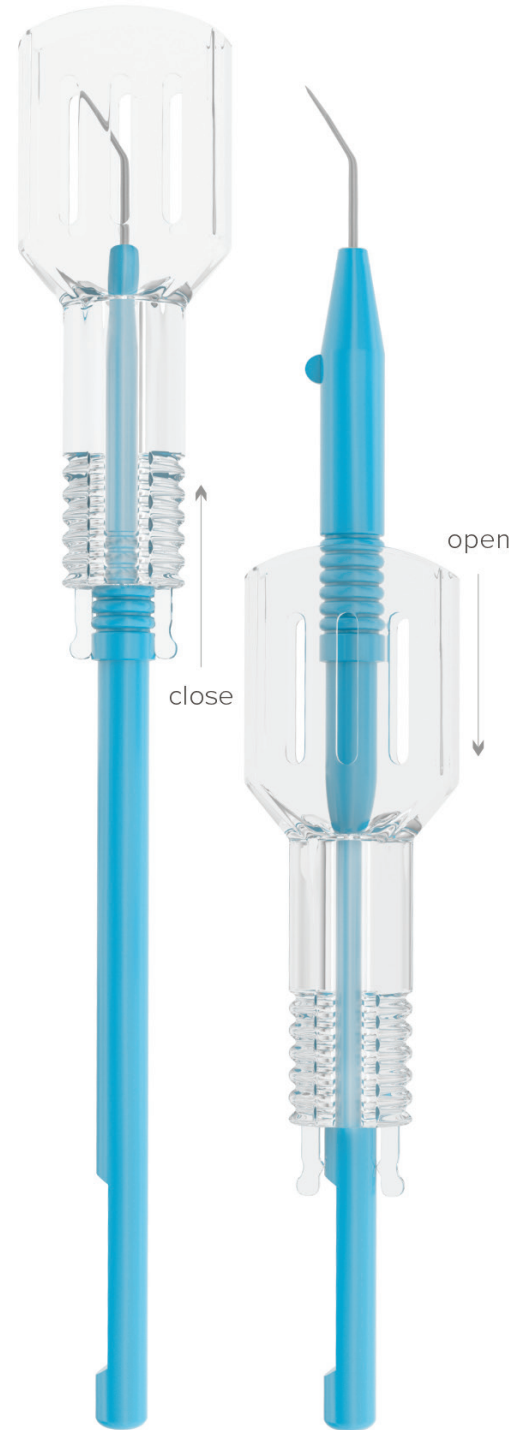
CATARACT



Trapezoid Knives

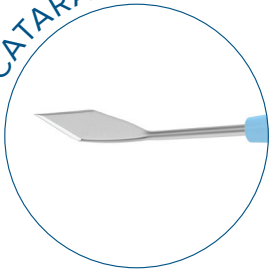
Tunnel incisions
Angled, single bevel

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



STERILE  

CATARACT

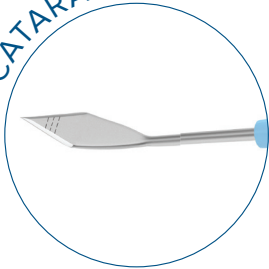


Clear Corneal Knives

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

CATARACT

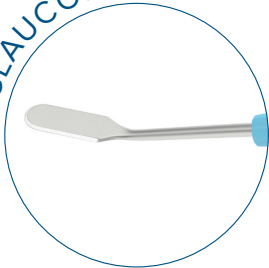


Clear Corneal Knives with Depth Indicators

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

GLAUCOMA

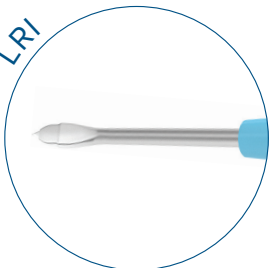


Crescent Knives

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

CR-20 2.00 mm ♥

LRI

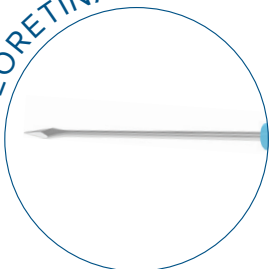


Pre-Set Knives

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
VRS-25 25 Ga

Angled, multifacet

VRA-19 19 Ga
VRA-20 20 Ga
VRA-23 23 Ga
VRA-25 25 Ga



DISPOSABLE INSTRUMENTS

STERILE  

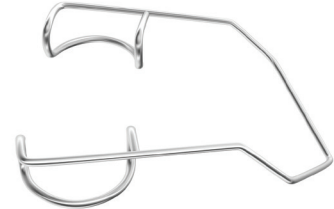
All stainless steel disposable instruments are designed for precise manipulations during anterior segment surgeries.

Speculums

Barraquer Wire Speculum

16.00 mm blades
Overall length 44 mm


14-022D 



Hooks, Choppers, Manipulators

Overall length 120 mm



Sinskey Hook
Angled
5-032D 




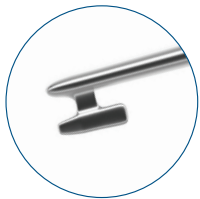
Rosen Phaco
Chopper
Universal
7-065D



Lester Lens
Manipulator
Angled
5-0331D 



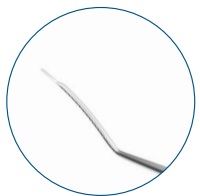
Nagahara Phaco
Chopper
RHD
7-063D 



Kuglen Iris Hook
Angled
5-030D



Drysdale Nucleus
Manipulator
Universal
7-093D



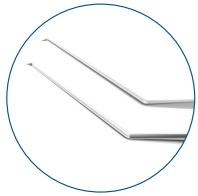
Spatula for
Femtosecond Laser Procedure
20-204D



Forceps

Overall length 104 mm

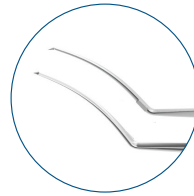
STERILE 



Utrata Capsulorhexis Forceps


Cystotome tips
Straight

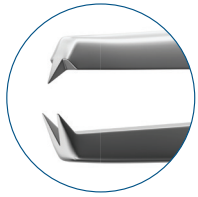
4-0311D 



Utrata Capsulorhexis Forceps

Cystotome tips
Curved

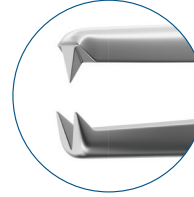
4-0331D 



Castroviejo Suturing Forceps

0.12 mm

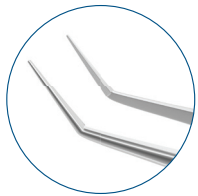
4-0600D 



Bonn-Catalano Corneal Forceps

0.12 mm

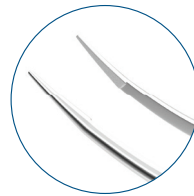
4-0551D



McPherson Tying Forceps

Angled

4-174D 



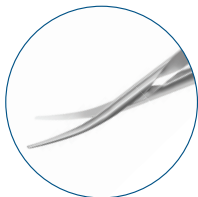
McPherson Tying Forceps

Curved

4-177D



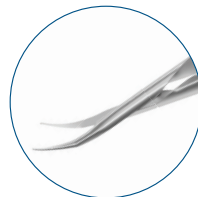
Scissors



Castroviejo Universal Corneal Scissors

Blunt tips
Overall length
106 mm

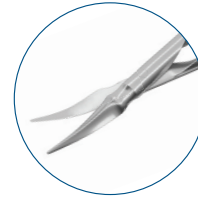
11-012D



Westcott Tenotomy Scissors

Blunt tips
Overall length
115 mm

11-040D 



Vannas Capsulotomy Scissors

Sharp tips
Overall length 84 mm

11-052D 

Microincisional Forceps & Scissors

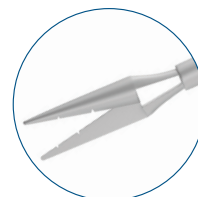
Stainless steel
For silicon and acrylic IOLs



Foldable Lens Removing Forceps

Crocodile Type
20 Ga

4-2150D



Micro Foldable Lens Cutter

Straight Scissors
Blades with Notches
19 Ga

4-2173D



Disposable Cartridges for IOL Injector*



STERILE  

To be used with Reusable IOL Injector **16-2853** (page 126) for foldable one-piece IOLs

CAT-22 for 2.20 mm incision
CAT-24 for 2.40 mm incision
CAT-26 for 2.60 mm incision

Disposable Set of Irrigation/Aspiration Handpieces*

STERILE  

Aspiration



Irrigation



Set of I/A Handpieces for Bimanual Technique

Disposable

Aspiration – single port 0.35 mm
Irrigation – double port 0.40 mm

Delicate tips allow easy access to all parts of the capsule and may be introduced through any side-port incision.

- Lightweight, color-coded handpieces
- Standard male/female luer connector
- Compatible with Phaco or I/A system

7-0821D 21 Ga 5 sets per box
7-0823D 23 Ga 5 sets per box

Iris Retractors*



Iris Retractors

STERILE 

Reusable
Supplied sterile in the autoclavable PTFE container

10-5127 

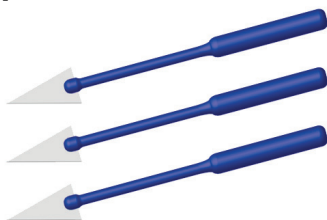
Iris Retractors

STERILE 

Disposable

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

PVA Spears*



STERILE  

PVA Spears

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

R2-40405**

Eye Shields*



Eye Shields

Disposable Eye Shield
Supplied non-sterile
Clear Polycarbonate
Universal Model Left & Right

NEW
 

16-201D 

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		Length	Shape	Needle			Main Application
	Description				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>	5.5 mm	7/16 (158°)	0.14 mm	Scleracornea
22-R2002			30 cm	Trape Spatula	6.5 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
4-0 Silk Black Braided Sutures								
22-R4351			50 cm	Reverse Cut	13 mm	3/8 135°	0.43 mm	Control suture
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	6.5 mm	3/8 135°	0.28 mm	Skin, Ocular Muscles
8-0 PGA Absorbable Violet Braided Sutures								
22-R2090			30cm	Trape Spatula	6.5 mm	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

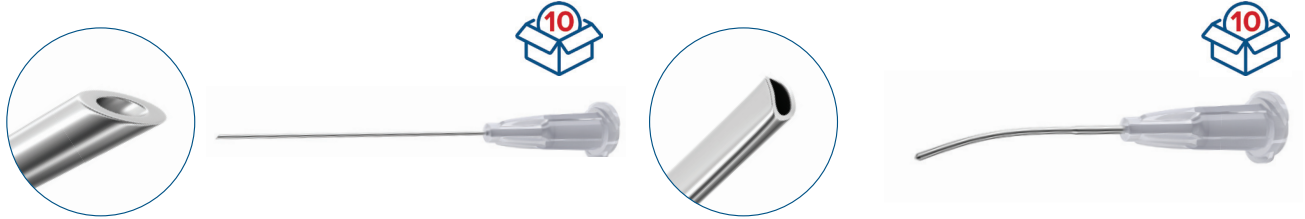
A hub of each cannula has a color according to its gauge.
To learn more, please see the cannula gauge conversion chart below.

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

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

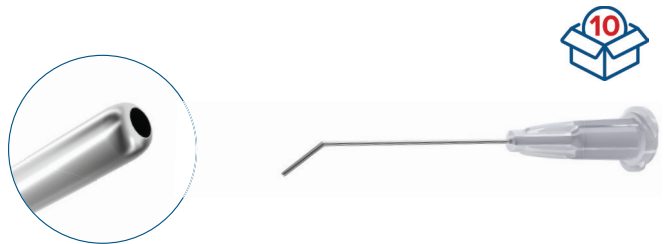
4 mm angled tip

21-R2023 23 Ga × 22 mm

21-R2030 30 Ga × 22 mm

8 mm angled tip

21-R2027-8 27 Ga × 22 mm



Viscoelastic Cannulas

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

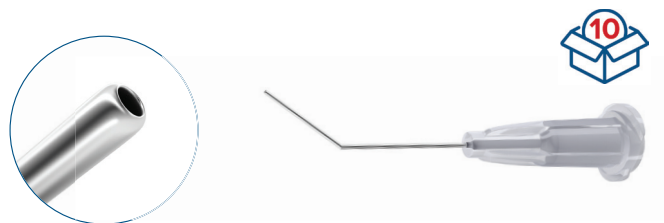
9 mm angled tip

21-R2225 25 Ga × 22 mm 

21-R2227 27 Ga × 22 mm

10 mm angled tip

21-R2327 27 Ga × 22 mm 



IRRIGATION/ASPIRATION CANNULAS

Used to remove cortical debris or viscoelastic solution while maintaining the anterior chamber during cataract surgery.

Simcoe I&A Cannula

0.30 mm port

21-R5623 23 Ga × 16 mm

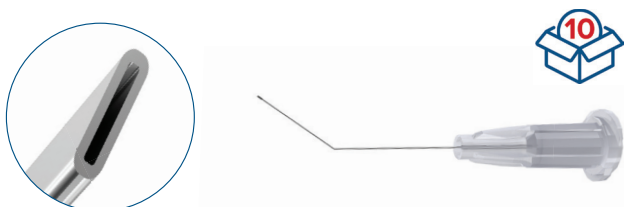


*Not available in Europe

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

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

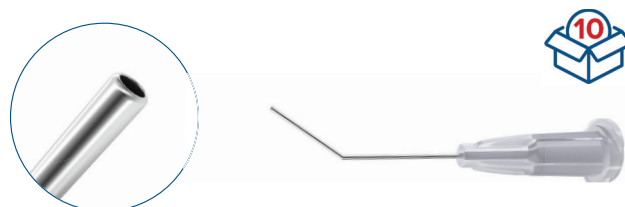
Angled 32°, spatulated tip

8 mm angled tip

21-R4025 25 Ga × 22 mm ♥

10 mm angled tip

21-R4027 27 Ga × 22 mm ♥



Hydrodissector

Angled 32°,

Round smooth tip, 10 mm angled tip

21-R4427 27 Ga × 22 mm

CYSTOTOME CANNULAS

Used to perform capsulorhexis. The tip is designed to open the anterior capsule.

Pearce Irrigating Cystotome

21-R3027 27 Ga × 16 mm



REFRACTIVE CANNULAS

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

Lindstorm Lasik Irrigating Cannula

3 ports

Formed 7 mm

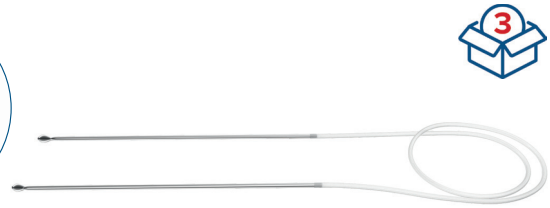
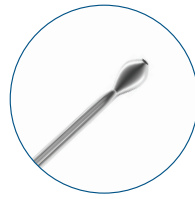
Smooth angle curvature allows for safe flap alignment.

21-R7430 25 Ga × 25 mm



LACRIMAL CANNULAS AND SETS

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



Lacrimal Intubation Set

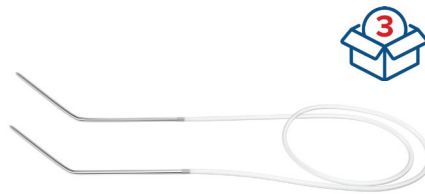
Silicone tubing 30 cm
Stainless Steel probes
ID – 0.30 mm
OD – 0.60 mm

21-R7001 23 Ga × 17.5 cm probe

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)



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)

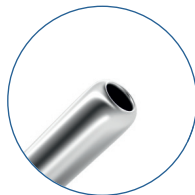
Lacrimal Intubation Tubing

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

21-R7002

Lacrimal Cannulas

21-R7026 26 Ga × 28 mm



*Not available in Europe

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

NEW & COMING SOON PRODUCTS

NEW

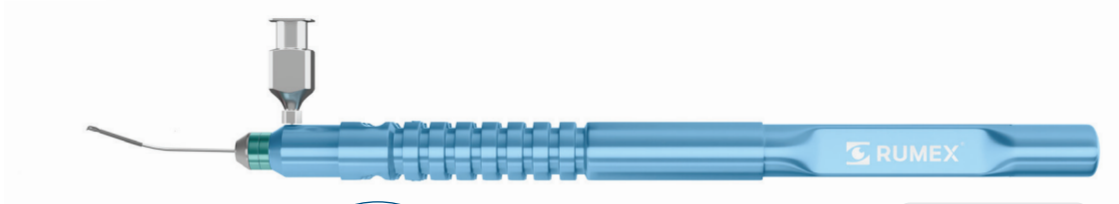
ONE-PIECE CAPSULORHEXIS FORCEPS WITH RUMEX FLUSHING SYSTEM	28
APOSTOLOV MICRO TRABECULUM FORCEPS	28
AHMED VALVE TUBE INSERTION FORCEPS	28
A SET OF INSTRUMENTS FOR YAMANE TECHNIQUE	29
ICL CARTRIDGE LOADING FORCEPS	30
END-GRASPING ILM FORCEPS	30
DISPOSABLE BACKFLUSH CANNULAS	30
DISPOSABLE PUNCHES & TREPHINES	31
DISPOSABLE EYE SHIELD	31
LASER PROBES	32
FIBER OPTIC PROBES	33
VITRECTOMY CUTTERS	35

COMING SOON

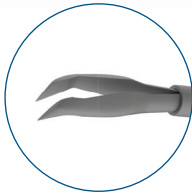
HYDROPHILIC & HYDROPHOBIC IOLS (NON-PRELOADED/PRELOADED)	36
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ONE-PIECE CAPSULORHEXIS FORCEPS WITH RUMEX FLUSHING SYSTEM

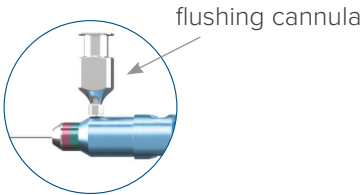
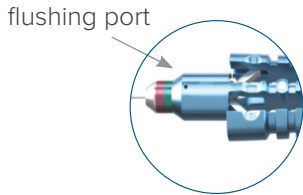
Complete tool – no need to adjust the tip to the handle
Delicate cleaning – flushing liquid streams towards the tips with zero stress for the jaws
Increased lifespan – the inner mechanism is not involved into the cleaning process and stays intact



4-03741H



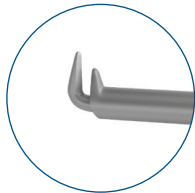
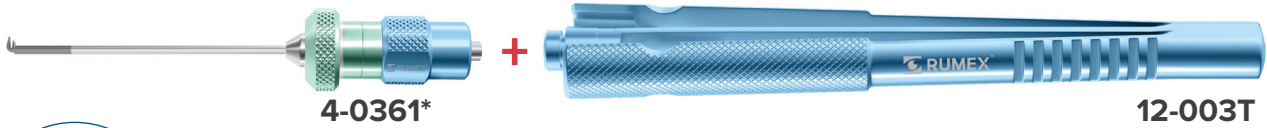
- Micro jaws
- Cystotome tips
- Reduced length of the branches
- Improved maneuverability



GLAUCOMA

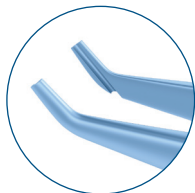
4-0361* **Apostolov Micro Trabeculum Forceps, 23 Ga**

12-003T **Universal Squeeze Handle**



- For penetrating the Schlemm’s canal and unroofing it by stripping away the trabeculum
- Reduced risk of trauma to the outer wall of Schlemm’s canal and the ostia of the collector channels
- Uniquely shaped jaws enable both penetrating and grasping the trabeculum
- May be introduced through a paracentesis

4-075T **Ahmed Valve Tube Insertion Forceps**



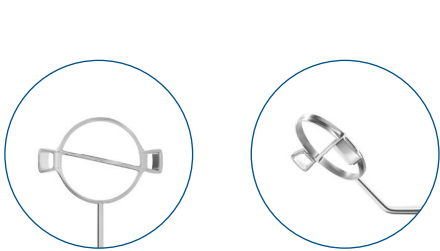
- Designed for the implantation of Ahmed Glaucoma Valves
- Ensures accurate and effortless tube insertion through the needle track
- Grooved tip for stable grip on the tube, enhancing control during the procedure

CATARACT

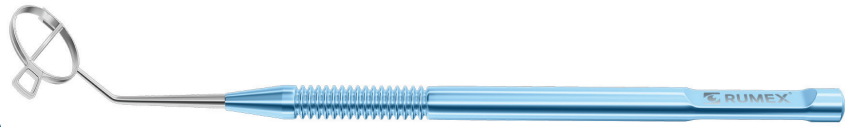
Yamane
technique

3-199

Apostolov Yamane IOL Fixation Marker



A ring for precise centration



Platforms mark two 2.50 mm long arcs positioned 2.50 mm from the limbus for indicating the correct penetration points and the length of the intrascleral needle passage.

2-102S

Braunstein Fixed Caliper

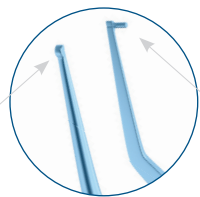
- To create 2.00 to 2.50 mm marks
- Fine tips mark the distance from limbus to sclera



4-211T

Amado Haptic Holder “Perfect Flanger”

Grooved tips allow for a gentle holding of haptics or sutures without the risk of kinking them.*

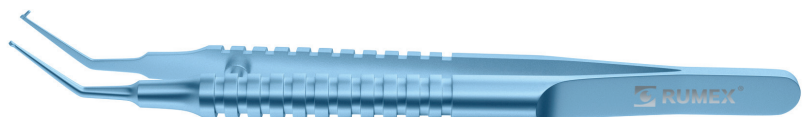


A reference cylinder:

- measures out 1.00 mm of haptic to be melted
- pushes melted haptic into sclera

Designed for:

- attaining a standardized flange
- sutureless intrascleral intraocular IOL fixation
- proper IOL centration

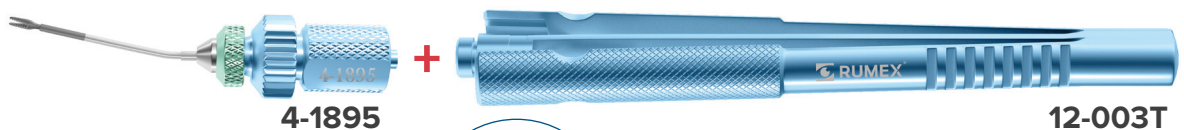


4-1895

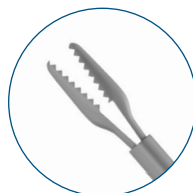
Microinvasive Yamane IOL Fixation Forceps, 23 Ga**

12-003T

Universal Squeeze Handle



- Designed for intrascleral IOL fixation
- Delicate tips
- Secure grip



* tested in polymethyl methacrylate haptics, polyvinyl fluoride haptics, and 6-0 polypropylene sutures

**Tip only. Handles are sold separately.

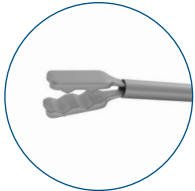
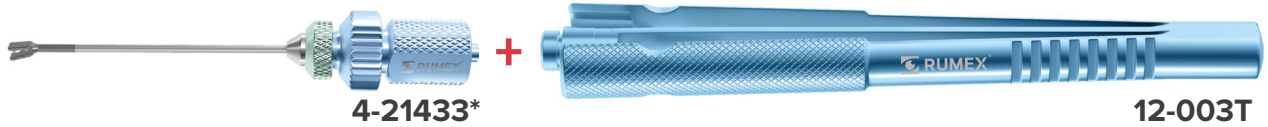
Product design and/or features that do not influence its functionality and main parameters are subject to change

NEW & COMING SOON PRODUCTS

REFRACTIVE

4-21433* ICL Cartridge Loading Forceps, 20 Ga

12-003T Universal Squeeze Handle



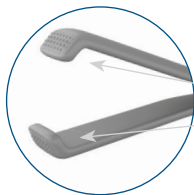
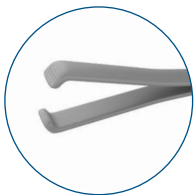
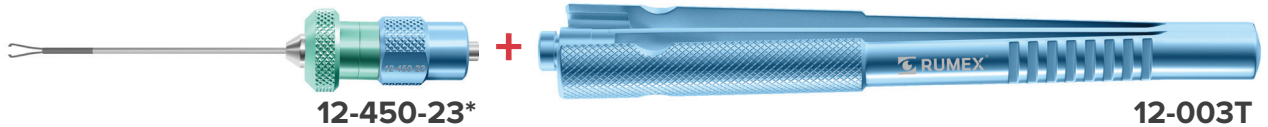
- Atraumatic wave-like tips

Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening.
ICL™ - registered trademark of STAAR®

VITREORETINAL

12-450-23* End-Grasping ILM Forceps with Texturized Outer Platform, 23 Ga

12-003T Universal Squeeze Handle

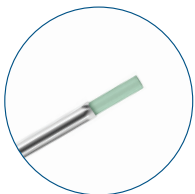


- Increased friction between tissue and forceps
- Enhanced cohesion
- Can be used as ILM elevator

VITREORETINAL CANNULAS

Disposable Backflush Cannulas**

STERILE  



Green Soft Tip Cannulas

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

12-6123 23 Ga x 34 mm

12-6125 25 Ga x 34 mm

*Tip only. Handles are sold separately.

**Not available in Europe

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

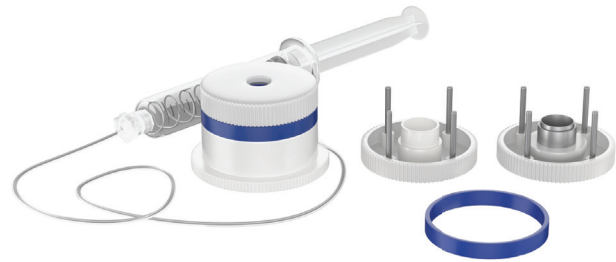
CORNEAL

STERILE  

Disposable Vacuum Punches*

Used for preparation of donor corneal tissue.
Provide clean cut with minimal damage to peripheral cells.

- 16-P7.00V** 7.00 mm
- 16-P7.25V** 7.25 mm
- 16-P7.50V** 7.50 mm
- 16-P7.75V** 7.75 mm
- 16-P8.00V** 8.00 mm



Disposable Non-Vacuum Trephines*

Used for cutting of recipient's cornea during corneal transplantation procedure.

- | | | | |
|------------------|---------|------------------|---------|
| 16-TR7.00 | 7.00 mm | 16-TR8.25 | 8.25 mm |
| 16-TR7.25 | 7.25 mm | 16-TR8.50 | 8.50 mm |
| 16-TR7.50 | 7.50 mm | 16-TR8.75 | 8.75 mm |
| 16-TR7.75 | 7.75 mm | 16-TR9.00 | 9.00 mm |
| 16-TR8.00 | 8.00 mm | | |



Disposable Vacuum Trephines*

Used for cutting of recipient's cornea during corneal transplantation procedure with vacuum tissue fixation.

- 16-TR7.00V** 7.00 mm
- 16-TR7.25V** 7.25 mm
- 16-TR7.50V** 7.50 mm
- 16-TR7.75V** 7.75 mm
- 16-TR8.00V** 8.00 mm



MISCELLANEOUS

16-201D Eye Shields*

Disposable eye shields
Supplied non-sterile
Clear Polycarbonate
Universal Model Left & Right



*Not available in Europe

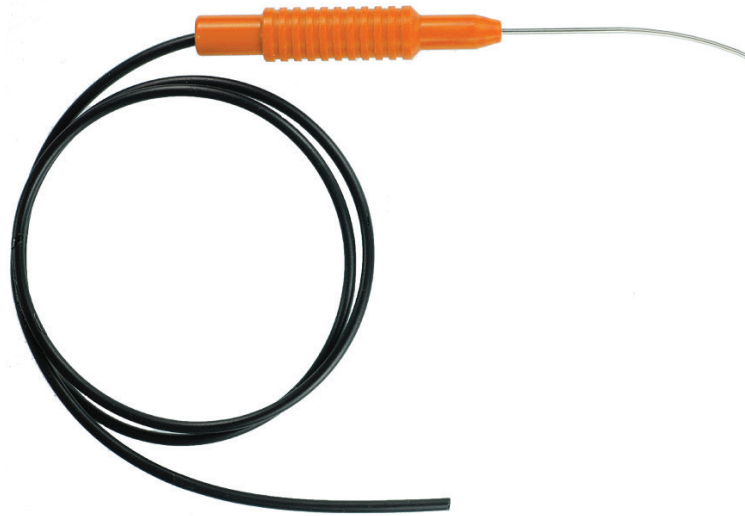
Product design and/or features that do not influence its functionality and main parameters are subject to change

NEW & COMING SOON PRODUCTS

DISPOSABLE LASER PROBES*

Designed to perform endo-ocular laser photocoagulation treatment.

STERILE  



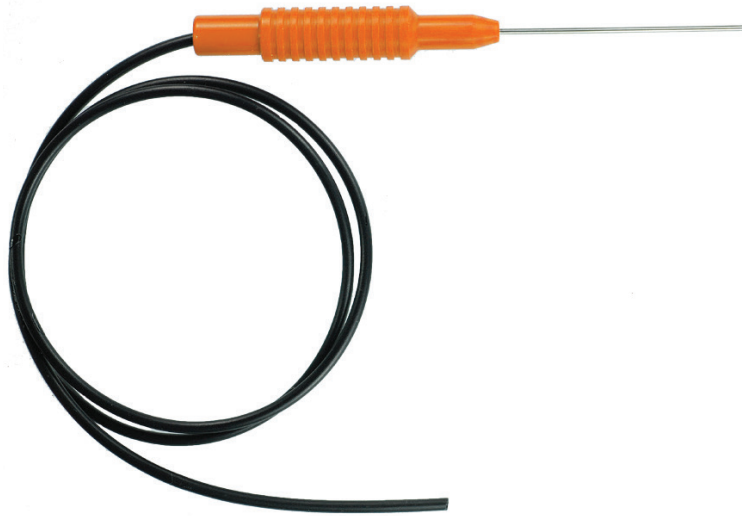
- 23 Ga
- 25 Ga
- 27 Ga

Surgical system/type of the probe	Straight		Curved		Extensible	
	Model	Gauge	Model	Gauge	Model	Gauge
SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®, B&L®	RLS-23AZ	23 Ga	RLC-23AZ	23 Ga	RLEX-23AZ	23 Ga
	RLS-25AZ	25 Ga	RLC-25AZ	25 Ga	RLEX-25AZ	25 Ga
	RLS-27AZ	27 Ga	RLC-27AZ	27 Ga		
DORC®	RLS-23D	23 Ga	RLC-23D	23 Ga	RLEX-23D	23 Ga
	RLS-25D	25 Ga	RLC-25D	25 Ga	RLEX-25D	25 Ga
	RLS-27D	27 Ga	RLC-27D	27 Ga		

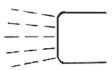
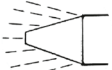

DISPOSABLE FIBER OPTIC PROBES*

Used to illuminate the interior of the eye.

STERILE  



- 23 Ga
- 25 Ga
- 27 Ga

Surgical system/type of illumination	Standard		Wide-angle		Shielded	
						
Alcon®	12-5177	23 Ga	12-5178	23 Ga	12-5625	23 Ga
	12-5135	25 Ga	12-6325	25 Ga	12-5627	25 Ga
	12-5927	27 Ga				
B&L®	12-5179	23 Ga	12-5180	23 Ga	12-5725	23 Ga
	12-5125	25 Ga	12-5427	25 Ga	12-5727	25 Ga
	12-5127	27 Ga				
Oertli®	12-4123	23 Ga	12-5463	23 Ga	12-5853	23 Ga
	12-4125	25 Ga	12-5465	25 Ga	12-5855	25 Ga
	12-4127	27 Ga				

*Not available in the US and Europe

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

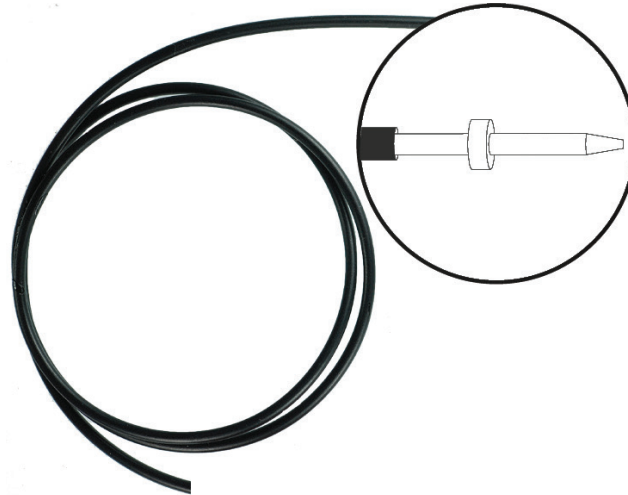
NEW & COMING SOON PRODUCTS


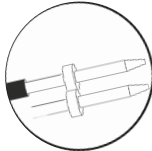


DISPOSABLE CHANDELIER FIBER OPTIC PROBES*

Enable bimanual vitreoretinal surgery.

Allow for diffuse illumination to enhance visualization.

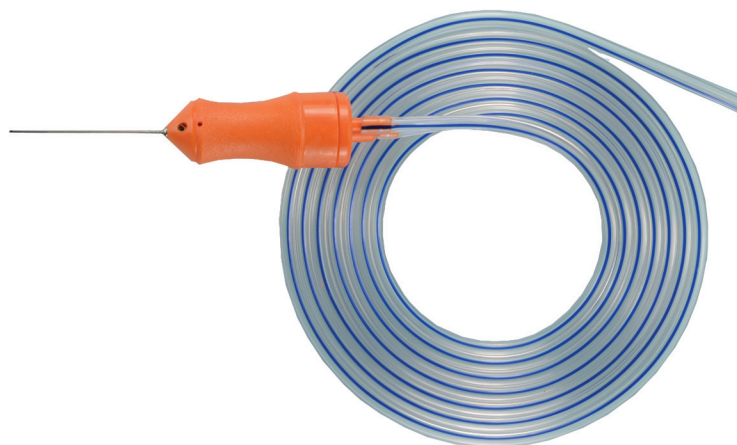
Facilitate the recording of surgical videos by providing consistent lighting.



Surgical system/type of the probe	Standard		Dual Fiber		with preloaded Trocar and Inserter	
						
Alcon®	12-4563	23 Ga			12-5223	23 Ga
			12-4526	25 Ga	12-5225	25 Ga
					12-6327	27 Ga
B&L®	12-4573	23 Ga				
			12-4545	25 Ga		
Oertli®	12-4593	23 Ga			12-5543	23 Ga
			12-4543	25 Ga	12-5545	25 Ga
Synergetics®	12-4553	23 Ga				
			12-4525	25 Ga		

DISPOSABLE VITRECTOMY CUTTERS*

Help to efficiently cut and aspirate vitreous.



- 23 Ga
- 25 Ga
- 27 Ga

Surgical system/type of the cutter	Single Cut	Speed/Pressure	Double Cut	Speed/Pressure
Alcon®: Accurus®DORC®: Associate®	RV-23AC 23 Ga	Speed: 2000 CPM Pressure: 42 PSI		
	RV-25AC 25 Ga			
B&L®: Stellaris®	RV-23BF 23 Ga	Speed: 5000 CPM Pressure: 42 PSI	RV-23BFd 23 Ga	Speed: 10000 CPM Pressure: 42 PSI
	RV-25BF 25 Ga		RV-25BFd 25 Ga	
	RV-27BF 27 Ga			
Oertli®: OS4®	RV-23OS 23 Ga	Speed: 5000 CPM Pressure: 35-37 PSI		
	RV-25OS 25 Ga			
	RV-27OS 27 Ga			
BVI® (OPTIKON): R-Evo Smart® CR	RV-23OB 23 Ga	Speed: 5000 CPM Pressure: 30 PSI	RV-23OBd 23 Ga	Speed: 10000 CPM Pressure: 30 PSI
	RV-25OB 25 Ga			
	RV-27OB 27 Ga			
BVI® (OPTIKON): R-Evolution® CRZEISS®: VISALIS®	RV-23OZ 23 Ga	Speed: 6000 CPM Pressure: 43 PSI	RV-23OZd 23 Ga	Speed: 12000 CPM Pressure: 43 PSI
	RV-25OZ 25 Ga			
	RV-27OZ 27 Ga			
DORC®: EVA®	RV-23GC 23 Ga	Speed: 8000 CPM Pressure: 42 PSI		
	RV-25GC 25 Ga			
	RV-27GC 27 Ga			

*Not available in the US and Europe

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

HYDROPHILIC IOLs

COMING SOON*

Hydro-SOFT Clear & Hydro-SOFT Yellow

Clear and Natural Yellow aspheric monofocal single-piece hydrophilic acrylic foldable IOLs



Hydro-SOFT Yellow

Hydro-SOFT Clear

- No spherical aberrations – minimized glare and unwanted images
- Square edge design – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut method – no glistenings

Hydro-Flex PLUS

Negative aspheric monofocal single-piece hydrophilic acrylic foldable IOL in a set with an injector



- Provides enhanced contrast sensitivity in dim light conditions
- Better performance of visual acuity
- Square edge design – reduced risk of PCO**
- Anterior round edged polishing helps to avoid glares
- Plate loop haptic design ensures better stability and centration

Supplied in a set with a single-use IOL delivery system (SmartJect)

Hydro-SOFT Toric Preloaded

Aspheric toric monofocal clear hydrophilic acrylic foldable single-piece IOLs



- Designed to correct corneal astigmatism in a patient undergoing cataract surgery
- Square edge design – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut method – no glistenings
- UV filter

Supplied in a set with Medice!® Accuject™ IOL is preloaded in a cartridge in a container with liquid

* Products in the process of development and certification

** Posterior Capsule Opacification

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

HYDROPHILIC IOLs

COMING SOON*

Hydro-SOFT Trifocal Preloaded

Aspheric trifocal clear hydrophilic acrylic foldable single-piece IOLs



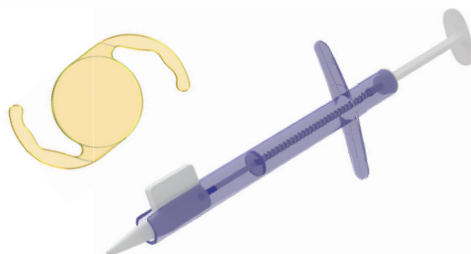
- Optimized intermediate focus optical system provides clear, contrast vision at far, near, and intermediate distance
- Diffractive trifocal optics with aspheric profile - 14 diffraction rings
- Square edge design – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut method – no glistenings
- UV-filter

Supplied in a set with Medice!® Accuject™ IOL is preloaded in a cartridge in a container with liquid

HYDROPHOBIC IOLs

Eco-Flex Preloaded

Yellow aspheric monofocal single-piece hydrophobic acrylic foldable preloaded IOL



- Filters out UV and harmful blue light – better protection of macula
- Square edge design – mechanical barrier for cell migration, no risk of PCO**
- Low glass transition temperature (8°C) keeps the lens flexible at lower temperatures
- Low refractive index of 1.47 and high Abbe number of 55 ensure better optical clarity and visual performance
- Better adhesiveness to the capsule

Supplied preloaded in a single-use IOL delivery system (SmartJect)

DISPOSABLE IOL INJECTION SET

SmartJect 2.2 & SmartJect 2.4

A set of disposable IOL injector and cartridge. Available in two sizes – for 2.20 mm and 2.40 mm incision.



- For hydrophilic and hydrophobic single-piece IOLs
- Complete control of every step of lens injection
- Soft-tip technology

Technique	SmartJect 2.2	SmartJect 2.4
Into-the-wound	2.20 mm Incision	2.40 mm Incision
Into-the-bag	2.40 mm Incision	2.80 mm Incision
Wound assisted	2.00 mm Incision	2.20 mm Incision

* Products in the process of development and certification

** Posterior Capsule Opacification

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

NEW & COMING SOON PRODUCTS

EYE DYES

COMING SOON*

VitreoBlue

STERILE



Trypan blue 0.15% solution for ILM and ERM staining during vitreoretinal surgery



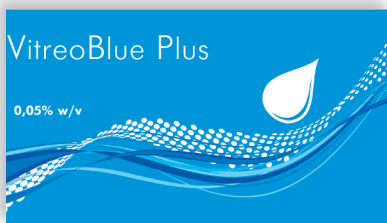
- Facilitates tissue removal and reduces the risk of retinal damage
- Distinguishes between new and old PVR membranes
- Helps to identify and facilitate removal of posterior hyaloids remnants in tractional diabetic retinopathy

VitreoBlue Plus

STERILE



Brilliant Blue Solution 0.05 % for ILM staining during vitreoretinal surgery



- Selectively stains and visualizes Internal Limiting Membrane
- Facilitates complete peeling during retinal surgery to repair macula holes
- Reduces the risk of retinal damage

SmartBlue

STERILE



Trypan Blue Solution 0.06% for staining of anterior capsule during cataract surgery



- Facilitates capsulorhexis
- Excellent visualization of the capsule in the eyes with matured cataract/narrow pupils
- Clear visualization of outline of the capsule rim during surgery
- Reduces the risk of incomplete capsulorhexis

PFO LIQUID

VitreoOcta

STERILE



Perfluorooctane liquid for vitreoretinal surgery (PFO)



An ideal intraoperative tool to improve the efficiency and safety of vitreoretinal surgical procedures.

Indicated to treat:

- Retinal detachments
- Giant tears
- Ocular trauma
- Removal of dislocated lenses and foreign bodies from vitreous

Product features:

- High vapor pressure and specific gravity
- Low surface tension
- Low viscosity
- Non toxic, absolutely safe

REUSABLE ANTERIOR INSTRUMENTS

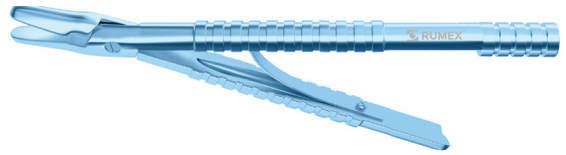
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BLADE HOLDERS

Blade Holder

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

1-010T



Bard Parker Handle

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

1-020S 



Chuck Handle

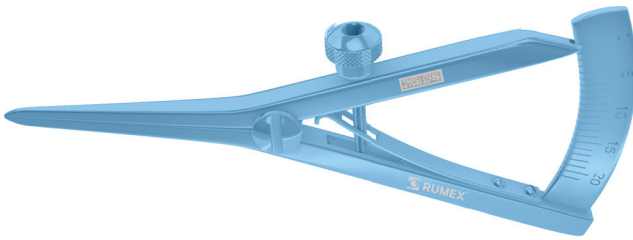
Overall length 100 mm
Titanium

1-030T



CALIPERS & GAUGES

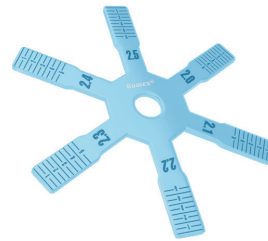
CALIPERS & KERATOMETERS



Castroviejo Caliper

Measures from 0 to 20.00 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

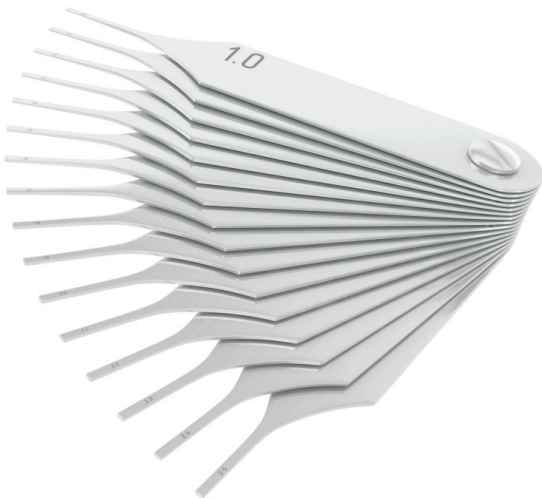


Adler Wound Gauge

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

Matte finish
Diameter 30.00 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

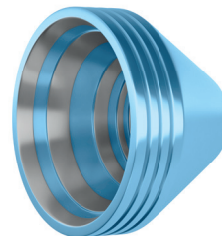


Braunstein Fixed Caliper

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
2-102S 2.00/2.50 mm



Maloney Intraoperative Keratometer

For qualitative measurement of astigmatism

Diameter 32.00 mm
Overall length 23 mm
Titanium

16-020T

REUSABLE ANTERIOR INSTRUMENTS

2 - CALIPERS, GAUGES

GAUGES

Accurate axial alignment on the cornea

Used to determine incision angles.

LRI Gauge

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

Calibrated every 10 degrees from 0° to 180°.

With atraumatic fixation teeth

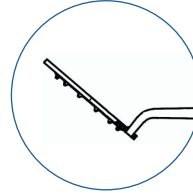
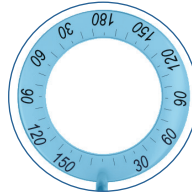
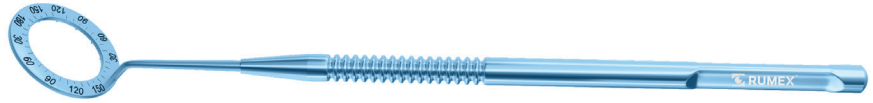
Matte finish

ID 13.00 mm/ED 19.00 mm

Overall length 134 mm

Titanium

2-031T



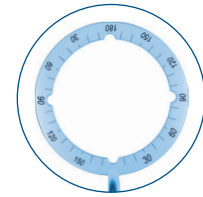
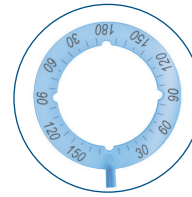
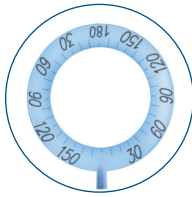
Mendez Degree Gauge

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

Calibrated every 10 degrees from 0° to 180°.

Matte finish

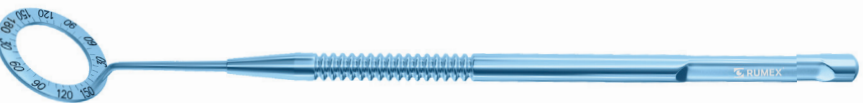
Titanium



ID 13.00 mm/ED 19.00 mm

Overall length 134 mm

2-030T ❤️



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

Mendez Grooved Fine Degree Gauge

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

Calibrated every 5 degrees from 0° to 180°.

With 4 grooves for better marks visualization

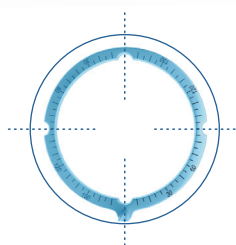
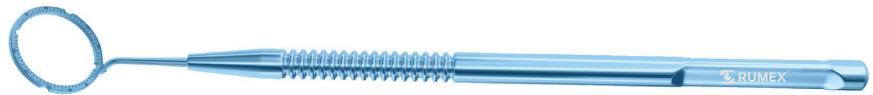
ID 12.00 mm/ED 14.00 mm

Matte finish

Overall length 133 mm

Titanium

2-034T ❤️



Degree Gauge with Beveled Face

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

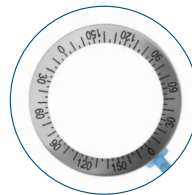
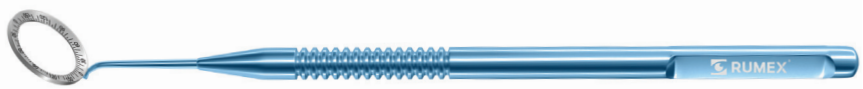
Calibrated every 5 degrees from 0° to 180°.

ID 12.00 mm/ED 16.00 mm

Overall length 132 mm

Titanium

2-036T ❤️




MARKERS

AXIS MARKERS

Bores
Axis Marker

Intra-Op
Overall length 123 mm
Titanium

3-090T 
3-091T



3-090T 
Used **with Gauges**
2-030T, 2-031T,
2-033T, 2-0331T
to mark the axis.
12.00 mm blades

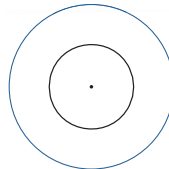
3-091T
Used **with Gauges**
2-034T, 2-036T
to mark the axis.
11.50 mm blades

CAPSULORHEXIS MARKERS

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
Titanium Handle/Stainless Steel Tips
Overall length 140 mm

3-040 



MARKERS FOR YAMANE TECHNIQUE

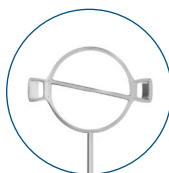
NEW

Apostolov Yamane IOL Fixation
Marker

Platforms mark two 2.50 mm long arcs
positioned 2.50 mm from the limbus for
indicating the correct penetration points
and the length of the intrascleral needle
passage.
Titanium Handle/Stainless Steel Tip
Overall length 130 mm

3-199 

Designed
in cooperation with
Valentin Apostolov, M.D.,
OLVG



A ring for precise centration

CORNEAL TRANSPLANT MARKERS

Abdullayev
Corneal Marker for Keratoplasty

Double-ended
(10.00 mm and 11.00 mm diameters)
With central marking point
Titanium Handle/Stainless Steel Tips
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



CORNEAL TRANSPLANT MARKERS

**Abdullayev
I & II Marker**
(for DSAEK/DMEK grafts)

Overall length 125 mm
Titanium

3-024T

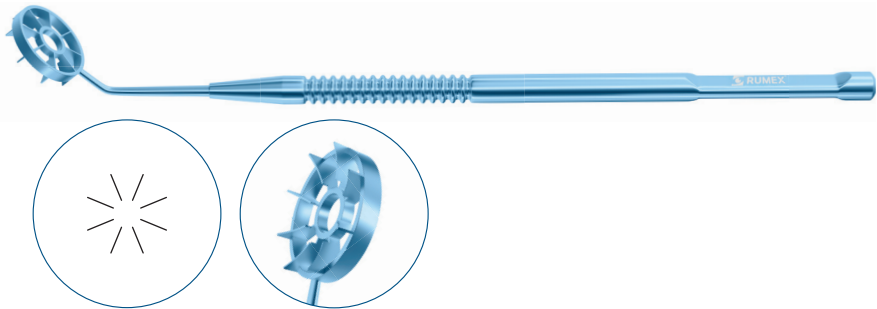


- I & II marks do not interfere with vision
- More stable staining
- Applies 1.50 mm straight I & II marks at the very edge of the graft
- No additional tissue manipulation
- Saves time during graft preparation

**Osher-Neuman
Corneal Marker**

Low profile
8 radial blades
Overall length 130 mm
Titanium

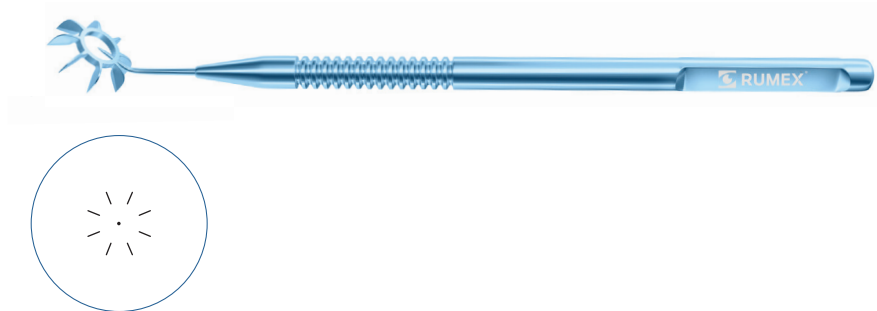
3-0304T



Corneal Transplant Marker

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

3-140T



**John
DSAEK Double-Ended Marker**

8.00/9.00 mm
Overall length 143 mm
Titanium

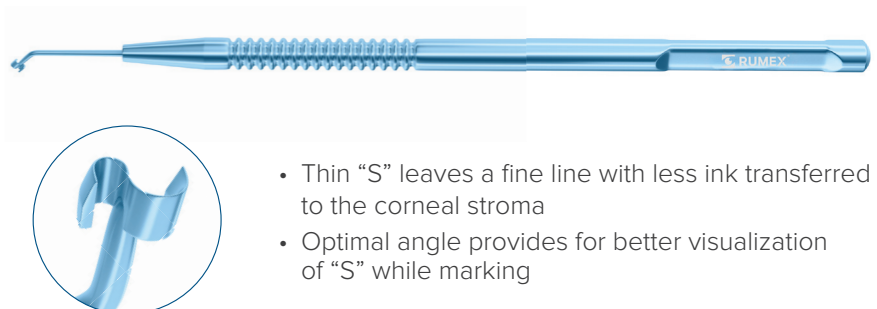
3-204T



DMEK/DSAEK "S" Marker

Overall length 115 mm
Titanium

3-208T



- Thin "S" leaves a fine line with less ink transferred to the corneal stroma
- Optimal angle provides for better visualization of "S" while marking

OPTICAL ZONE MARKERS

Hoffer Optical Zone Marker

With cross hairs
Titanium Handle/Stainless Steel Tip
Overall length 103 mm

3-0211T	5.00 mm	3-0217T	8.00 mm
3-0212T	5.50 mm	3-0218T	8.50 mm
3-0213T	6.00 mm	3-0219T	9.00 mm
3-0216T	7.50 mm		

Optical Zone Marker

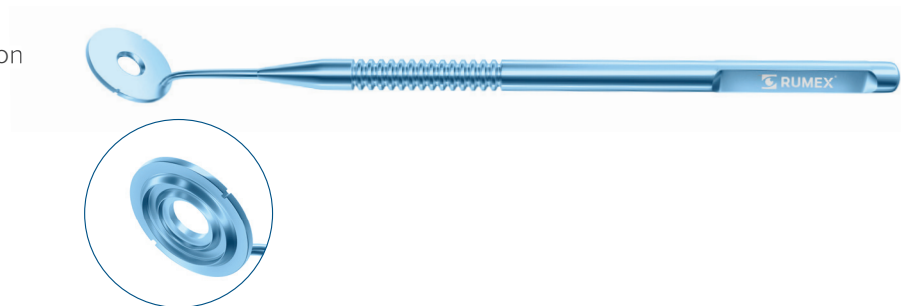
Used to mark visual center for ICRS implantation procedure.
Double-ended
Visual center marker 0.15 mm wide
Sinskey hook 0.50 mm wide
Titanium Handle/Stainless Steel Tips
Overall length 141 mm



3-034

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

LASIK MARKERS

Lavery LASIK Marker

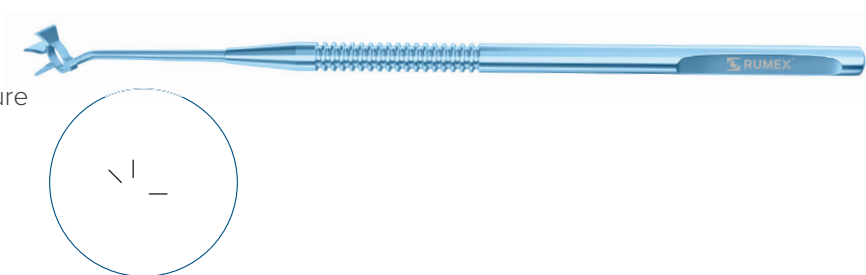
With an optical center sight
8.50 mm optical zone
5 asymmetrical marking lines to ensure right placement of a corneal flap
Overall length 130 mm
Titanium



3-174T

LASIK Flap Marker

3 asymmetrical marking lines to ensure right placement of a corneal flap
Designed both for nasal and superior hinge.
Overall length 130 mm
Titanium

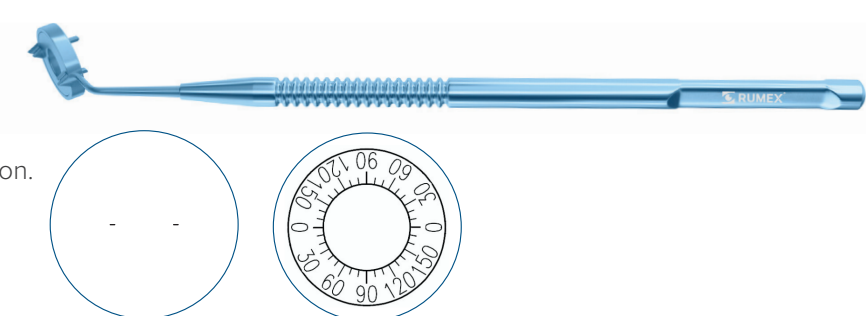


3-176T

TORIC IOL MARKERS

Toric IOL Marker

Designed for LRI/Toric IOL implantation.
Intra-Op
Overall length 130 mm
Titanium



3-181

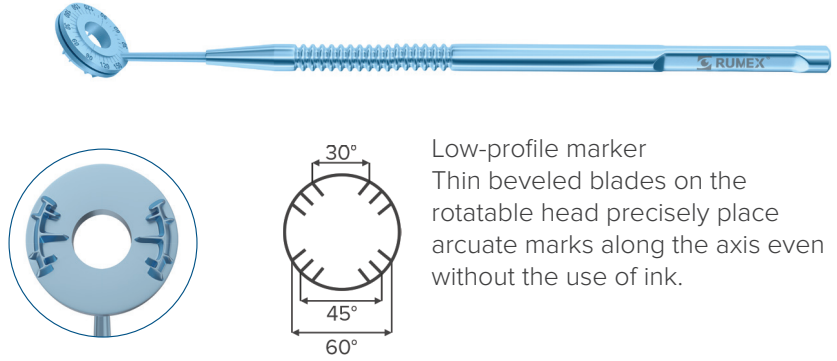
REUSABLE ANTERIOR INSTRUMENTS

3 - MARKERS

LRI MARKERS

LRI Marker

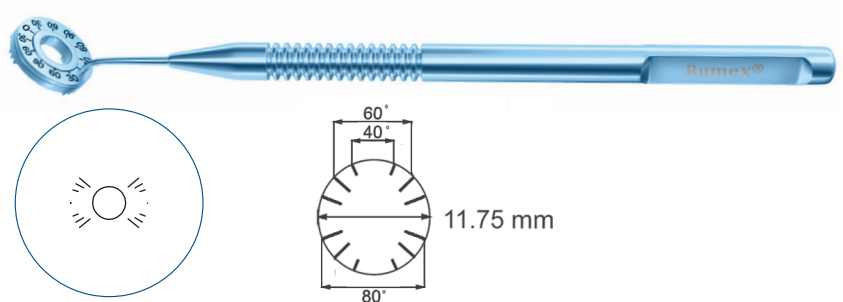
Intra-Op
30-45-60°
Overall length 116 mm
Titanium
3-183T



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

LRI Marker

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



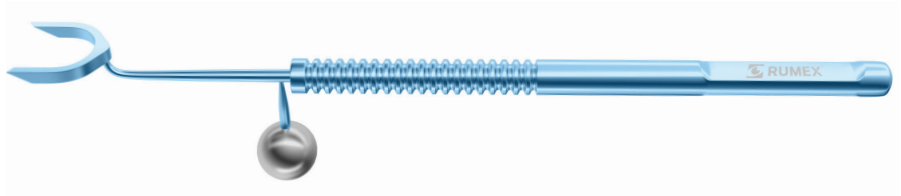
LRI/TORIC MARKERS WITH GRAVITY WEIGHT SYSTEM

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

Titanium/Stainless Steel gravity weight

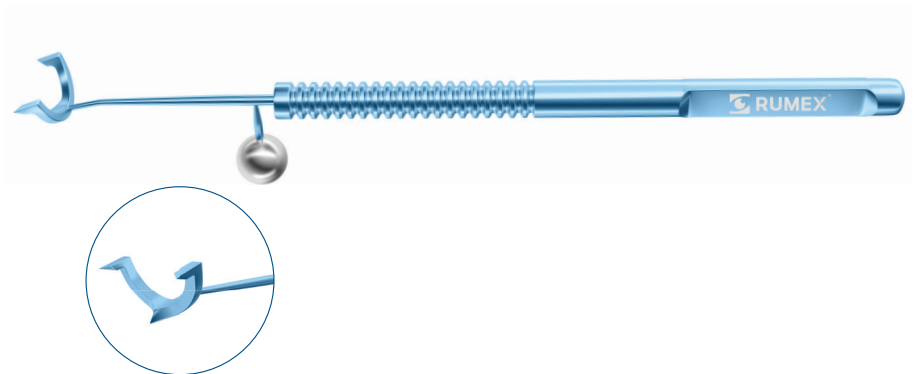
LRI Slit Lamp Gravity Marker

Pre-Op, 14.00 mm
Horizontal axis 3' and 9'
Overall length 138 mm
3-191



Lum LRI Gravity Axis Marker

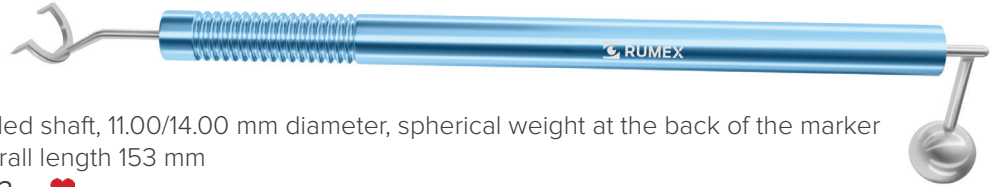
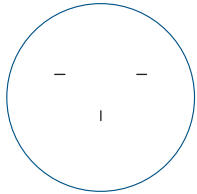
Pre-Op, 14.00 mm
Angled
Horizontal axis 3' and 9'
Overall length 140 mm
3-192




Whitehouse Gravity Axis Marker

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

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 

Straight shaft, 11.00/14.00 mm diameter, spherical weight at the back of the marker
Overall length 152 mm
3-1931

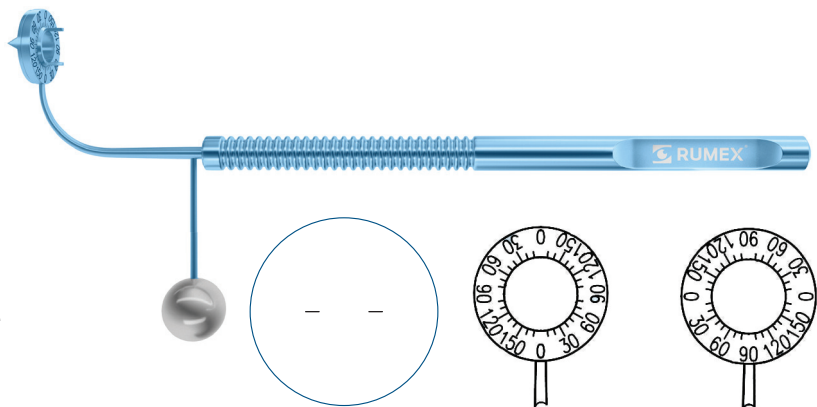
Straight shaft, 9.50/12.00 mm diameter, cylindrical weight at the back of the marker
Overall length 153 mm
3-1932

RUMEX Toric Combo Marker

Overall length 125 mm

3-194 Vertical axis
3-1941 Horizontal axis

- 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



3-194

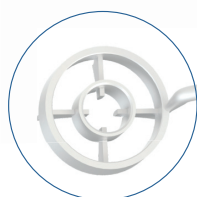
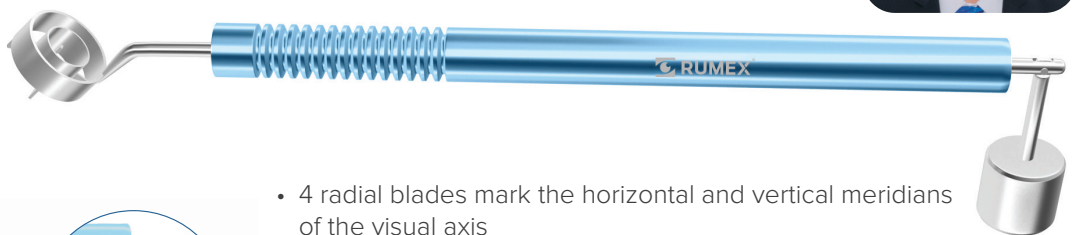
3-1941

Velasquez Gravity Corneal Marker for LRI/Toric IOL Implantation

Overall length 164 mm

3-195

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



- 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

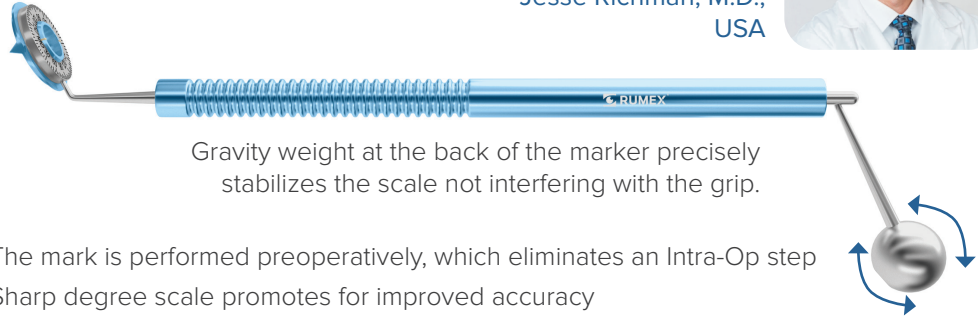
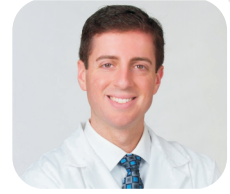
LRI/TORIC MARKERS WITH GRAVITY WEIGHT SYSTEM

Richman Single-Step Toric Marker

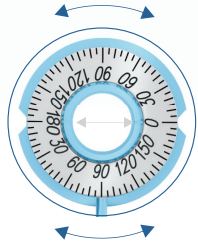
Designed to mark the desired axis of toric placement.
Angled shaft
Overall length 132 mm

3-196 

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



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



- The mark is performed preoperatively, which eliminates an Intra-Op step
- Sharp degree scale promotes for improved 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 patient's cheek for stability
- A wide central opening enhances positioning when marking

MARKING PENS

STERILE  



Disposable Marking Pen

Double-ended

20-050* 

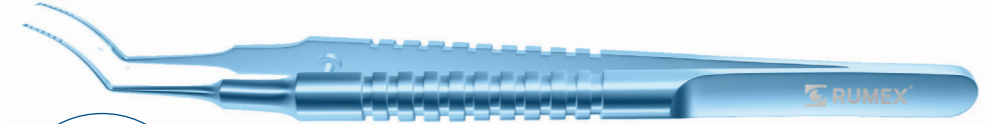
A VARIETY OF CAPSULORHEXIS FORCEPS

STANDARD

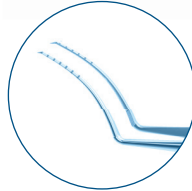
2.20 - 3.00 mm

4-03315T Utrata Capsulorhexis Forceps with Scale

Cystotome tips, TC*



Scale for measuring the size of capsulorhexis



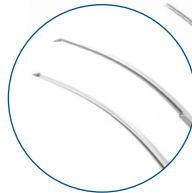
Curved shafts prevent corneal deformation

4-0331D ♥ Disposable Utrata Capsulorhexis Forceps

STERILE



Cystotome tips



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

SMALL-INCISION

2.00 mm



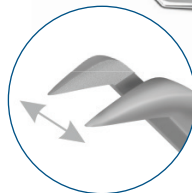
Internal limiter prevents the jaws from opening wider than intended.

4-0312S ♥ Microcoaxial Capsulorhexis Forceps with Alignment Mechanism

Cystotome tips, TC*



Limited to 2.00 mm



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

Cystotome tips, TC*



Limited to 2.00 mm
View-port for better visualization



2 engravings at 2.50 and 5.00 mm for measuring the rhexis

*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

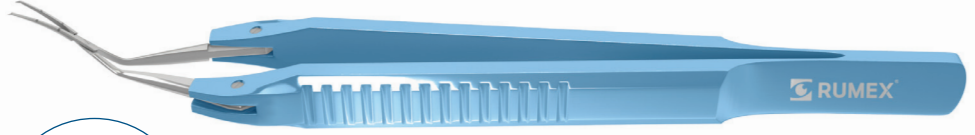
A VARIETY OF CAPSULORHEXIS FORCEPS

SMALL-INCISION

1.50 mm

4-0395 ♥ Capsulorhexis Forceps with Cross-Action and Scale

Cystotome tips, TC*



Scale for measuring the size of capsulorhexis

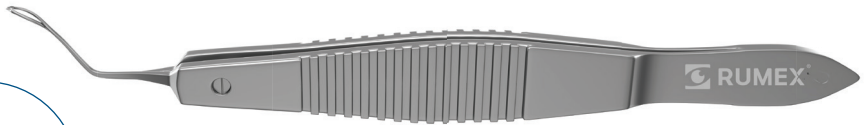


- ✓ Cross-action prevents hyperextension of the incision
- ✓ Hinge joints ensure even distribution of pressure at three points of forceps

Explore Cross-Action Capsulorhexis Forceps customizer on pages 56-57. Design your own unique instrument!

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

Cystotome tips, TC*



Scale for measuring the size of capsulorhexis



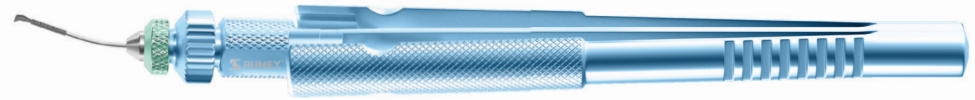
- ✓ Double cross-action guarantees fixed opening for free movements within the wound

MICS

sub 1.00 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 Squeeze Handle and can be easily disassembled for cleaning after the surgery

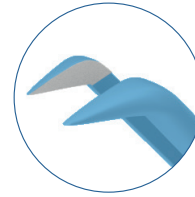
FORCEPS

CAPSULORHEXIS FORCEPS

Tungsten carbide coated cystotome tips for improved gripping



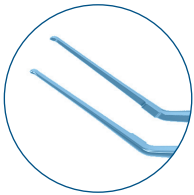
Regular tips



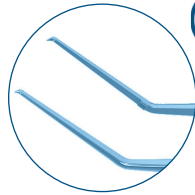
Cystotome tips

Utrata Capsulorhexis Forceps

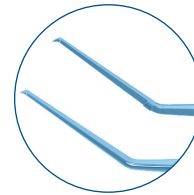
11.50 mm jaws
Flat handle
Titanium



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

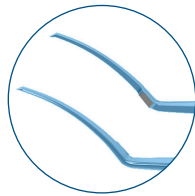


Straight jaws
Cystotome tips
Overall length 82 mm
4-0300T ❤️



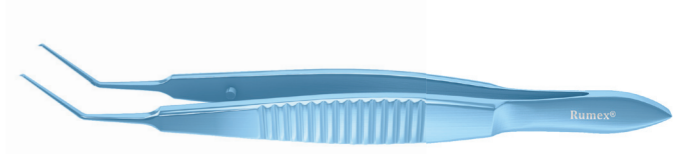
Straight jaws
Cystotome tips
Overall length 107 mm
4-0301T ❤️

Curved jaws
Cystotome tips
Overall length 107 mm
Titanium
4-0321T ❤️



Nevyas Capsulorhexis Forceps

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

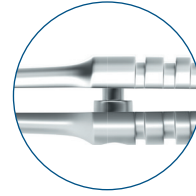


CAPSULORHEXIS FORCEPS

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 ♥



Inamura Style RUMEX Capsulorhexis Forceps

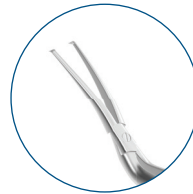
Designed to fit through incisions down to 2.00 mm.
 Recommended for coaxial phacoemulsification.
 Curved jaws
 Cystotome tips
 Round handle
 Overall length 115/117 mm
 Stainless Steel

4-0391S jaws 10.00 mm, for corneal incision ♥

4-0392S jaws 12.00 mm, for scleral incision ♥



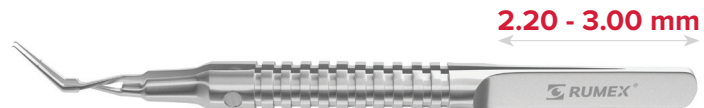
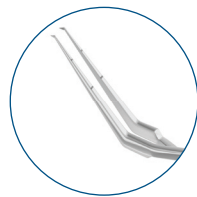
Cross-action maintains alignment of tips, prevents leakage of viscoelastic from anterior chamber.



Small-Incision Capsulorhexis Forceps with Cross-Action and Scale

Cystotome tips
 Round handle
 Overall length 110 mm
 Stainless Steel

4-0393S



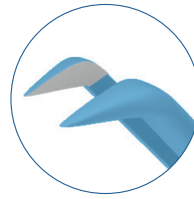
- Cross-action mechanism prevents the hyperextension of the incision and the leakage of viscoelastic, allowing for enhanced anterior chamber maintenance
- 2 engravings at 2.50 and 5.00 mm for precise measurement of capsulorhexis
- Tungsten carbide coating at the tips for improved gripping of the capsule

Reverse-Action (Tips are closed when idle and opened when handle is squeezed)

Tungsten carbide coated cystotome tips for improved gripping



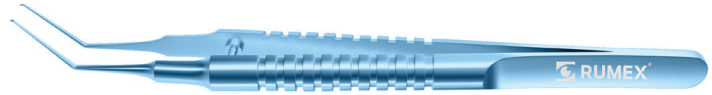
Regular tips



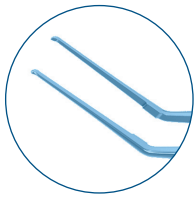
Cystotome tips

Ultrata Capsulorhexis Forceps

11.50 mm jaws
Round handle
Overall length 110 mm
Titanium

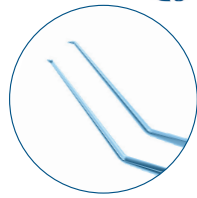


4-03114T, 4-03115T, 4-03314T, 4-03315T
Engravings for precise measurement inside the anterior chamber



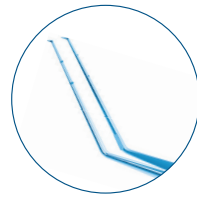
Straight jaws
Regular tips

4-031T



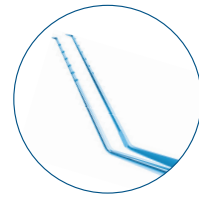
Straight jaws
Cystotome tips

4-0311T



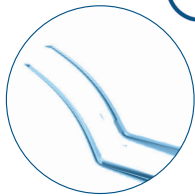
Straight jaws
Cystotome tips, with ruler
2 engravings at 3, 6 mm

4-03114T



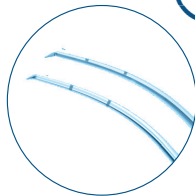
Straight jaws
Cystotome tips, with ruler
6 engravings
at 1, 2, 3, 4, 5, 6 mm

4-03115T



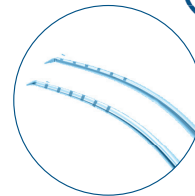
Curved jaws
Cystotome tips

4-0331T



Curved jaws
Cystotome tips, with ruler
2 engravings at 3, 6 mm

4-03314T



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

4-03315T

Small-Incision Capsulorhexis Forceps

Curved micro-thin jaws
Cystotome tips
Scale of 2.50/5.00 mm from the tip
With limiter
For 2.00 mm incisions
Flat handle
Overall length 105 mm
Stainless Steel



4-032S

CROSS-ACTION CAPSULORHEXIS FORCEPS

Tungsten carbide coated cystotome tips allow to make the first pinch easily.

Curved shafts prevent corneal deformation.

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

Engravings assist in measuring the rhexis.

Hinge joints allow for even distribution of pressure at three points.

1.50 mm
8.50 mm tips

Design custom Cross-Action Capsulorhexis Forceps and we will manufacture them for you!

1. Choose the Tip you prefer:

Shape

Curved



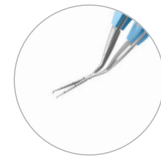
Straight



Long



Short

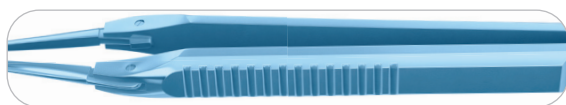


Lever

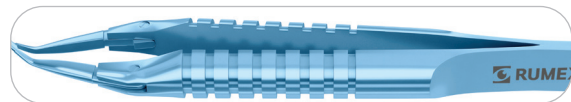
2. Complete with the Handle:

Shape

Flat



Round



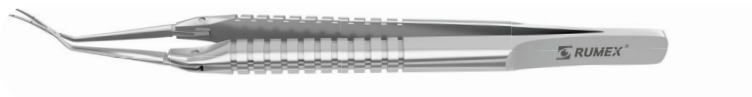
Short



71 mm

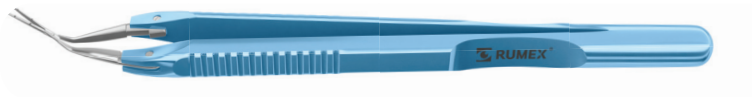
Size

Medium



91 mm

Long

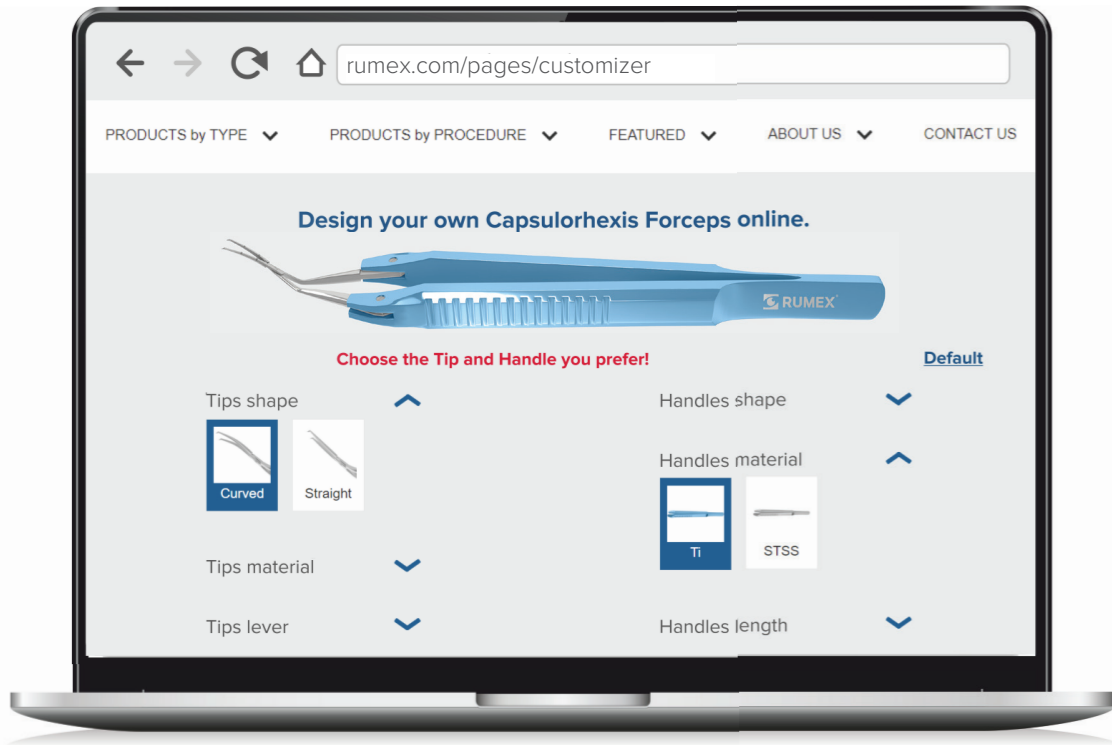


101 mm

3. Select the Material:

All Tips and Handles are available in **Titanium** and **Stainless Steel!**

CROSS-ACTION CAPSULORHEXIS FORCEPS ONLINE CUSTOMIZER

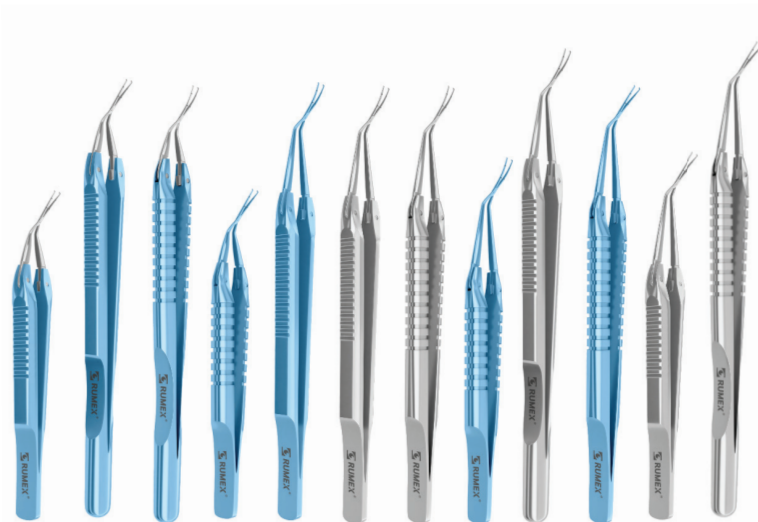


Design your own unique instrument!

Choose sizes, shapes, and materials that you prefer. Curved or Straight, Long or Short, Titanium or Stainless Steel up to your preferences. You can modify the tool with a few clicks!



You design, we create!



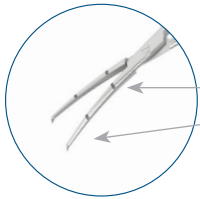
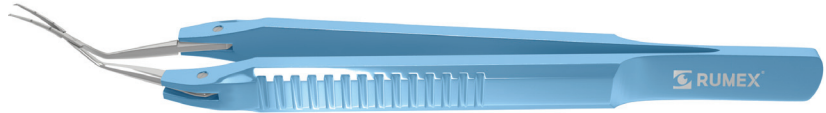
CROSS-ACTION CAPSULORHEXIS FORCEPS

Cross-Action Capsulorhexis Forceps with Scale

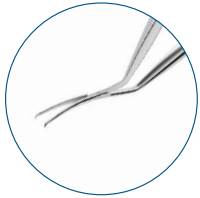
Cross-action prevents the viscoelastic leakage and protects the incision from hyperextension

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

Jaws 8.50 mm
For 1.50 mm incisions
Overall length 110 mm



Scale of 2.50/5.00 mm from the tip
Cystotome tips



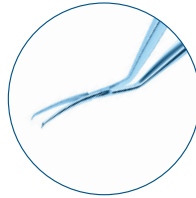
Curved jaws
Stainless steel
Flat handle
Titanium

4-0395

Round handle
Titanium

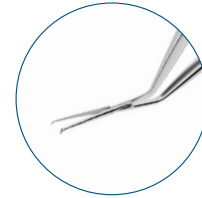
4-0394

Flat handle
Stainless steel
4-0395S



Curved jaws
Flat handle
Titanium

4-0395T



Straight jaws
Stainless steel
Flat handle
Titanium

4-0396

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

Micro-thin jaws
Cystotome tips
Scale of 2.50/5.00 mm from the tip
Flat handle
Overall length 105 mm
Stainless Steel

4-033S



Double cross-action and parallel retraction of branches guarantee fixed opening for free movements within the wound and protect the incision from stretching.

MICS CAPSULORHEXIS FORCEPS

Micro jaws, 0.80 mm incision

Exquisite gripping function

Cystotome tips

Anti-glare matte finishing

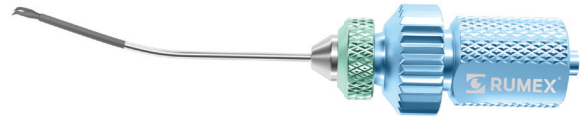
Stiff and flexible Stainless Steel tube

With fixation wheel

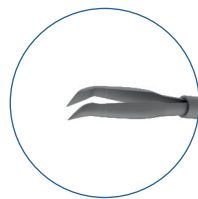
Kershner One-Pinch Capsulorhexis Forceps


Curved shaft

Compatible with Squeeze Handle 12-003T



4-03731* 23 Ga
For high vacuum phaco



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

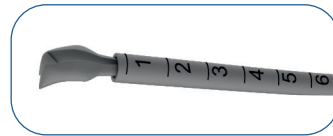
Capsulorhexis Forceps with Micro Jaws and Internal Ruler

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

Curved shaft

Compatible with Squeeze Handle 12-003T

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



Lesieur Capsulorhexis Forceps with Internal Ruler

Shorter jaws facilitate gripping the capsule close to the wound.

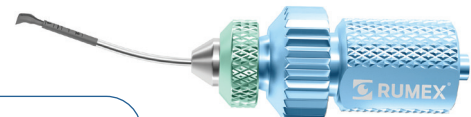
Gently curved and short shaft for better maneuverability in the anterior chamber

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

Compatible with Squeeze Handle 12-003T

4-03742* 23 Ga

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



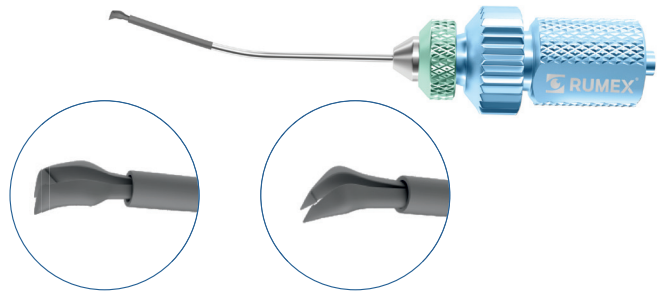
*Tip only. Handles are sold separately.

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

MICS CAPSULORHEXIS FORCEPS

Ikeda Capsulorhexis Forceps

Reduced length of the branches for better maneuverability in the anterior chamber during capsulorhexis
Curved shaft
Compatible with Squeeze Handle 12-003T



Fine-Ikeda Capsulorhexis Forceps with Micro Jaws, 23 Ga

4-03751* 23 Ga

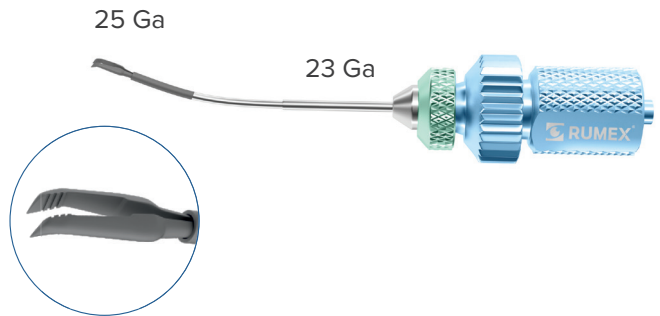
Ikeda Micro Capsulorhexis Forceps, 23 Ga

4-03761* 23 Ga

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.
Compatible with Squeeze Handle 12-003T

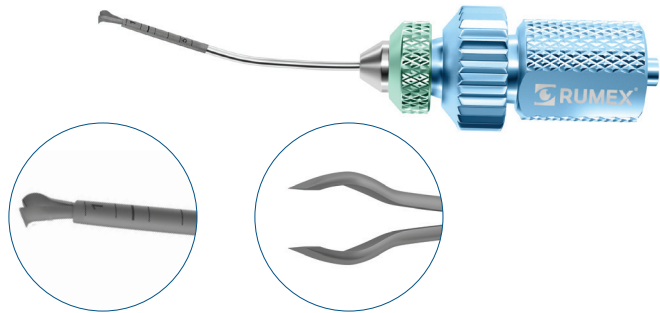
4-03771* 23/25 Ga



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
Compatible with Squeeze Handle 12-003T

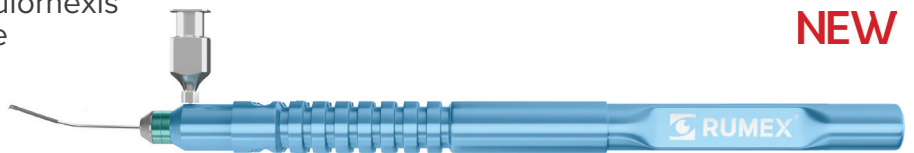
4-03791* 23 Ga



Kershner One-Pinch Capsulorhexis Forceps, 23 Ga, One-Piece

4-03741H 

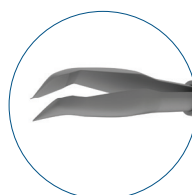
NEW



Complete tool – no need to adjust the tip to the handle

Delicate cleaning – flushing liquid streams towards the tips with zero stress for the jaws

Increased lifespan – the inner mechanism is not involved into the cleaning process and stays intact



- Micro jaws
- Cystotome tips
- Reduced length of the branches
- Improved maneuverability

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 ❤️



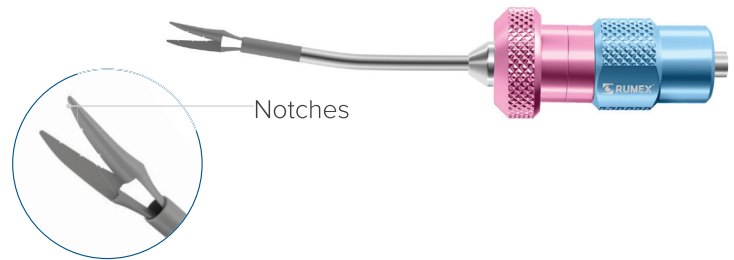
Rowen Rescue Kit Scissors

Intraocular scissors for foldable lens removal
 To cut silicone or acrylic IOL in case of complications
 Curved shaft
 Compatible with Squeeze Handle 12-003T
 4-2151* 18 Ga ❤️



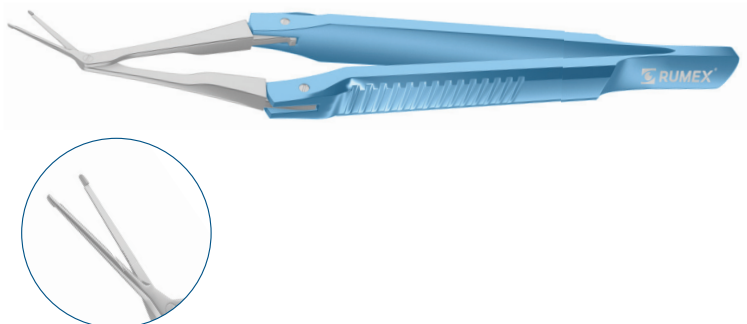
Micro Foldable Lens Cutter

Intraocular scissors for foldable lens removal
 To cut silicone or acrylic IOL in case of complications
 Blades with notches
 Curved shaft
 Compatible with Squeeze Handle 12-003T
 4-2173* 19 Ga ❤️



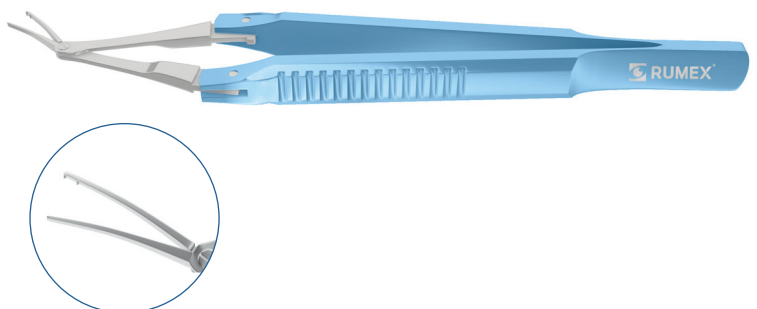
RUMEX Foldable Lens Cutter

Designed to cut and remove all types of foldable intraocular lenses through a small incision.
 Flat squeeze Titanium handle
 Overall length 113 mm
 4-21731 ❤️



RUMEX Foldable Lens Removing Forceps

Designed to grasp and remove all types of foldable intraocular lenses through a small incision.
 Flat squeeze Titanium handle
 Overall length 114 mm
 4-21741



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

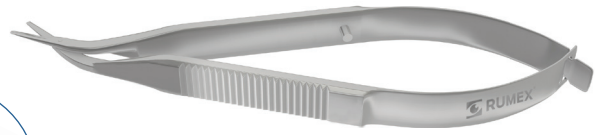
REUSABLE ANTERIOR INSTRUMENTS

4 - FORCEPS

IOL REMOVING INSTRUMENTS

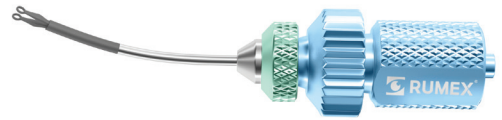
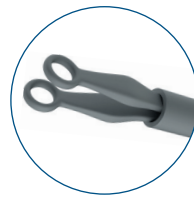
Osher IOL Scissors

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



IOL Grasping Forceps

Designed to reach and hold the IOL optic and haptic.
 Sandblasted surfaces for efficient gripping
 Fenestrated jaws for better visualization and haptic manipulation
 Curved shaft
 With fixation wheel
 Compatible with Squeeze Handle 12-003T
 4-2145* 21 Ga



Fukuoka Intraocular Lens Extraction Forceps for Cartridge Pull-Through Technique, 18 Ga

Narrow and long tips grasp the IOL securely.
 Straight shaft
 Compatible with Squeeze Handle 12-003T
 Can be used with **13-061 Holz Zonule Defender**.
 4-2142*



Serrated design to prevent slipping

The inner surfaces are recessed to reduce intra-cartridge pressure.

Recommended incision size - 3.20 mm. Recommended cartridges: HOYA C-1 and C-7, NIDEK 2C, Alcon Monarch A (used after trimming the tip), J&J EMERALD (used after cutting off the cylindrical part).

Precautions! Not for PMMA and other non-foldable IOLs. Oculentis Lentis lenses had unstable results.

FORCEPS FOR YAMANE TECHNIQUE

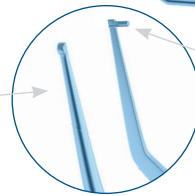
Amado Haptic Holder “Perfect Flanger”

Designed for:

- attaining a standardized flange
- sutureless intrascleral intraocular IOL fixation
- proper IOL centration

4-211T 

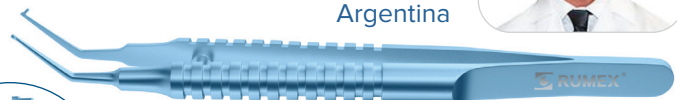
Grooved tips allow for a gentle holding of haptics or sutures without the risk of kinking them.**



Designed in cooperation with Sebastian Amado, M.D., Argentina



NEW



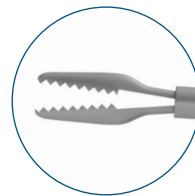
A reference cylinder:

- measures out 1.00 mm of haptic to be melted
- pushes melted haptic into sclera

Microinvasive Yamane IOL Fixation Forceps, 23 Ga

- Designed for intrascleral IOL fixation
- Delicate tips
- Secure grip

4-1895* 



*Tip only. Handles are sold separately.

**tested in polymethyl methacrylate haptics, polyvinyl fluoride haptics, and 6-0 polypropylene sutures

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

PHAKIC IOLs 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®



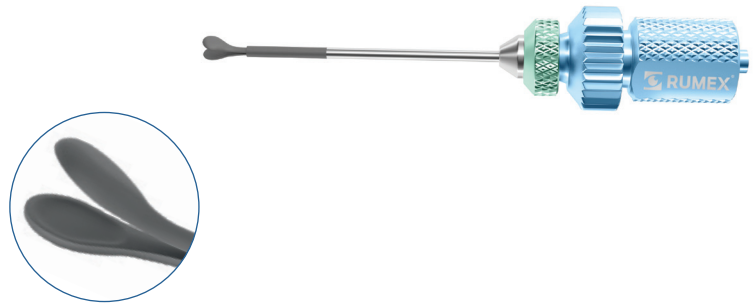
ICL™

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
 With fixation wheel
 Compatible with Squeeze Handle 12-003T

4-21431* 20 Ga

ICL™ - registered trademark of STAAR®

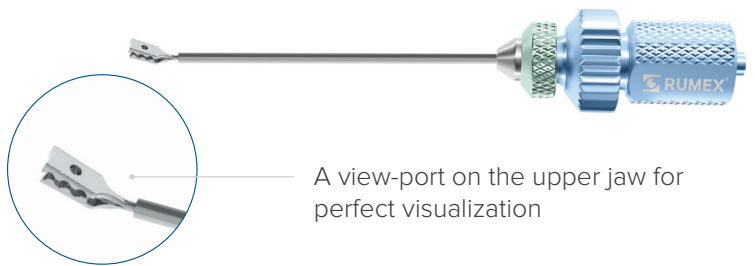


Zaldivar-Kraff ICL™ Pacman Forceps

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®



ICL Cartridge Loading Forceps

Designed to load the ICL™ inside the cartridge to ensure proper positioning by pulling from the distal opening.
 Atraumatic wave-like tips
 Straight shaft
 With fixation wheel
 Compatible with Squeeze Handle 12-003T

4-21433* 20 Ga 

ICL™ - registered trademark of STAAR®

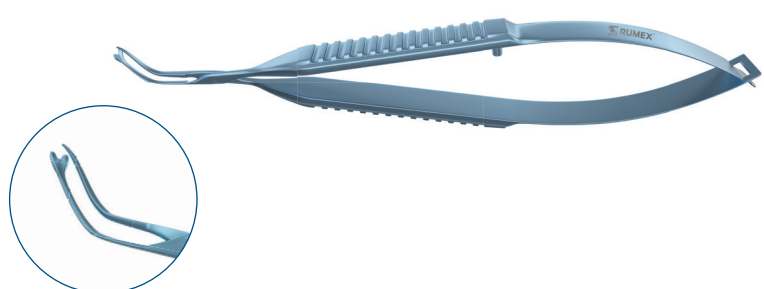


ARTISAN® Implantation Forceps

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



*Tip only. Handles are sold separately.

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

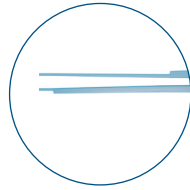
LENS INSERTERS

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

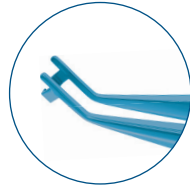
4-2141T



Steinert Paddle Lens Folding Forceps

Angled shafts
Flat handle
Overall length 110 mm
Titanium

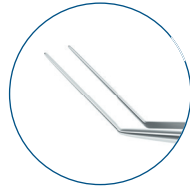
4-2107T



Faulkner Lens Holding Forceps

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

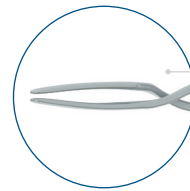
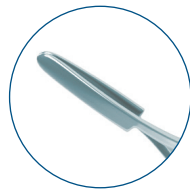
4-2108S 



McDonald Inserting Forceps for Silicone Lens

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

4-2113S



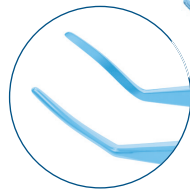
topside view



Acrylic Lens Insertion Forceps

Flat handle
Overall length 105 mm
Titanium

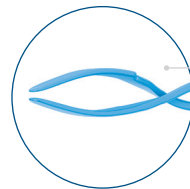
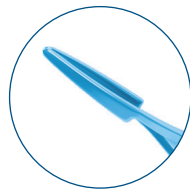
4-2132T 



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

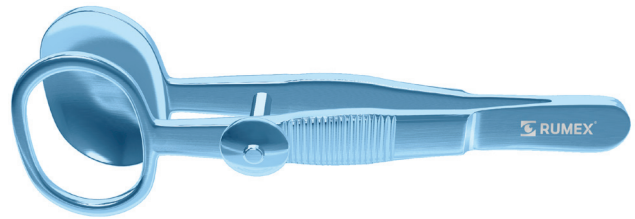


LID AND CHALAZION FORCEPS

**Desmarres
Chalazion Forceps**



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

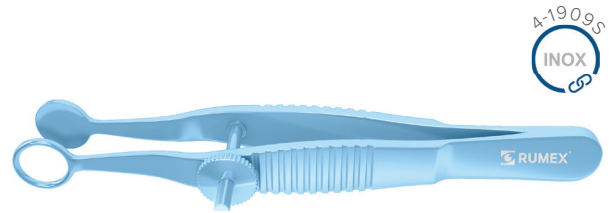
- 4-1906T Large size 31.00×17.40 mm (shown)
- 4-1907T Small size 19.80×10.40 mm 
- 4-1912T Medium size 24.00×16.00 mm 



**Lambert
Chalazion Forceps**

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

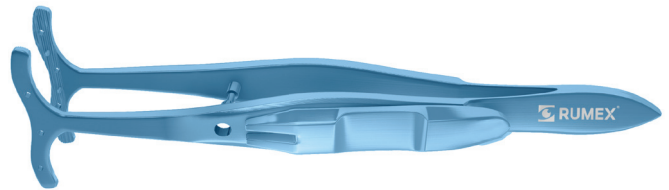
- 4-1908T Small, 8.00 mm ID of the upper plate 
- 4-1909T Medium, 12.00 mm ID of the upper plate (shown) 



**Putterman
Lid Clamp**

6 Pins
 Serrated jaws
 Sliding lock
 Overall length 100 mm
 Titanium

- 4-140T 

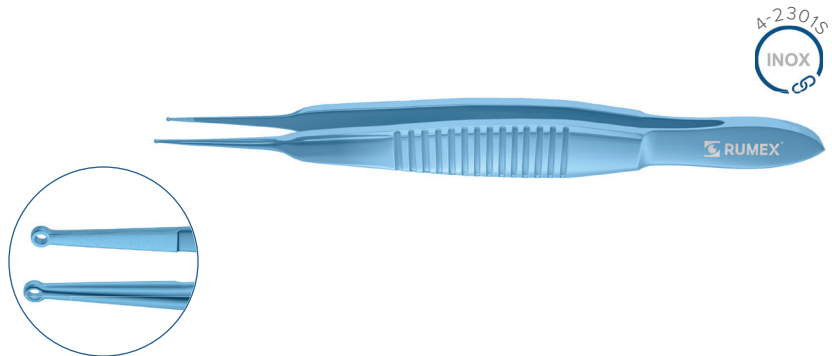


CONJUNCTIVA FORCEPS

**Fechtner
Conjunctiva Forceps**

Delicate ring tip jaws
 Flat handle
 Overall length 108 mm
 Titanium

- 4-2301T 



REUSABLE ANTERIOR INSTRUMENTS

4 - FORCEPS

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.

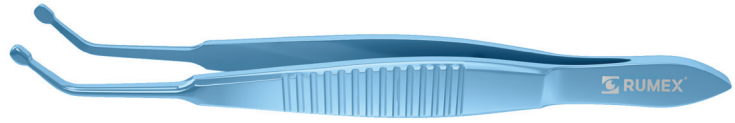
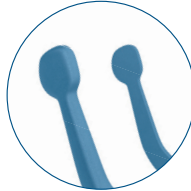
Angled

Flat handle

Overall length 112 mm

Titanium

4-1913T 



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 



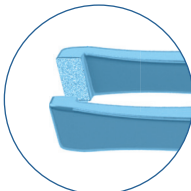
Texturized rollers are safe for the conjunctiva. Quick and delicate meibum expression is achieved by even squeezing of the eyelid from its base to the margin.

CILIA FORCEPS

Cilia Forceps

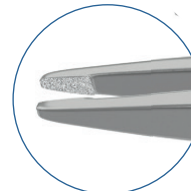
Smooth jaws

Flat handle



Wide forceps
Overall length 85 mm
Titanium

4-043T 



Narrow forceps
Overall length 86 mm

4-042T Titanium 
4-042S Stainless Steel

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

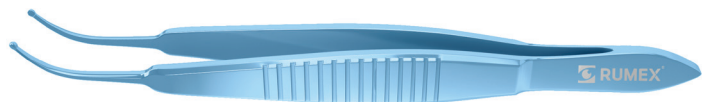
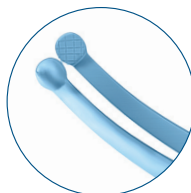
Curved shafts

Flat handle

Overall length 108 mm

Titanium

4-2206T 



SMILE FORCEPS

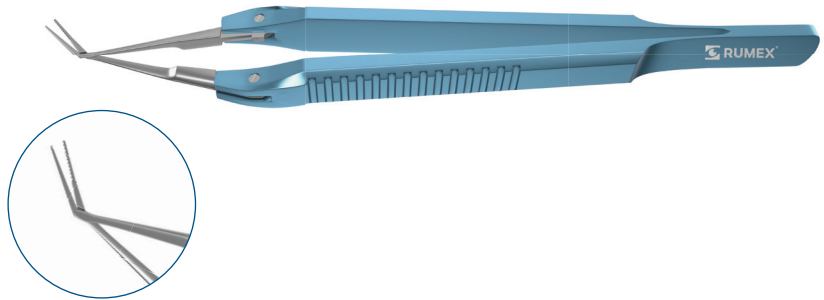
Designed to grasp the lenticule and remove it from the corneal pocket.

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

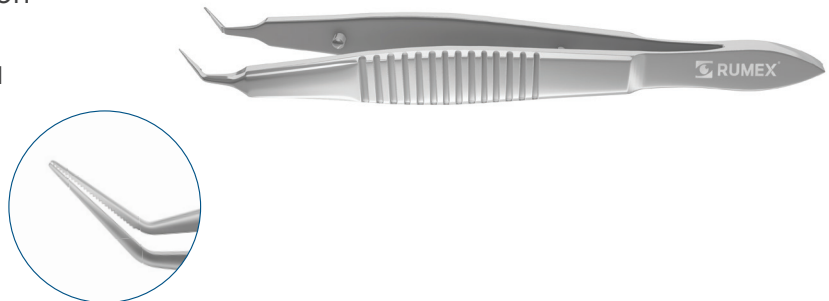


Stodulka Forceps for Small-Incision Lenticule Extraction

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

Flat handle
Overall length 100 mm
Stainless Steel

4-2012S



SMILE Lenticule Extraction Forceps with a View-Port

Wide gripping area and smooth flat tips for safe manipulations. Curved shafts adhere to the curvature of the cornea.

View-port for enhanced visualization
Flat handle
Overall length 106 mm
Stainless Steel

4-266S

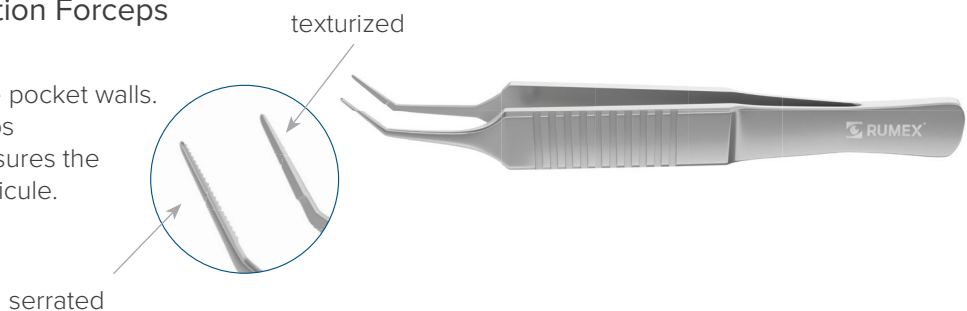


SMILE Lenticule Extraction Forceps with Serrations

Ultrathin tips are safe for the pocket walls. Composite surface of the tips (texturized and serrated) ensures the efficient grasping of the lenticule.

Flat handle
Overall length 84 mm
Stainless Steel

4-268S



REUSABLE ANTERIOR INSTRUMENTS

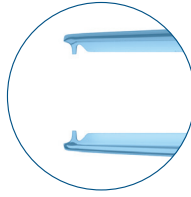
4 - FORCEPS

ICRS FORCEPS

Forceps
for ICRS Implantation

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

4-2144T

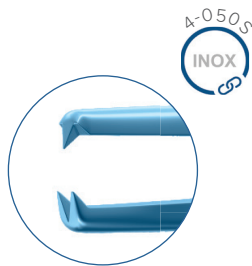


CORNEAL FORCEPS

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

Colibri
Corneal Forceps

5.00 mm tying platform
Flat handle

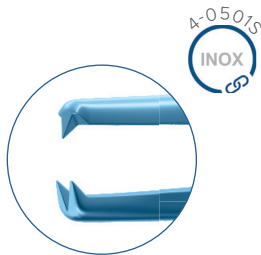


4-050T
INOX

Colibri

1x2 teeth 0.12 mm
Overall length 84 mm
Titanium

4-050T ❤️

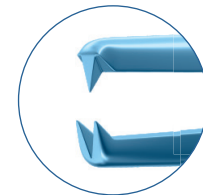


4-0501T
INOX

Colibri

1x2 teeth 0.12 mm
Overall length 77 mm
Titanium

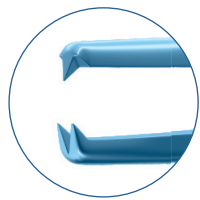
4-0501T ❤️



Colibri-Bonn

1x2 teeth 0.12 mm
Overall length 77 mm
Titanium

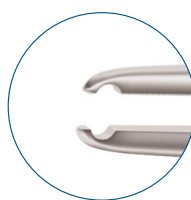
4-0504T ❤️



Micro Colibri

1x2 teeth 0.12 mm
Overall length 73 mm
Titanium

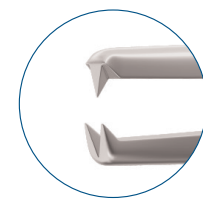
4-0505T



Hoskin Colibri

Pierced tips
Overall length 84 mm
Stainless Steel

4-0502S



Colibri-Bonn

1x2 teeth 0.12 mm
Overall length 84 mm
Stainless Steel

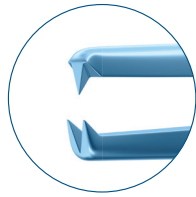
4-0503S ❤️

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

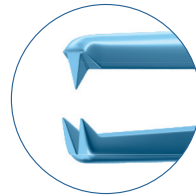
4-053T 



**Castroviejo Colibri
Corneal Forceps**

1x2 teeth, 0.12 mm
Tying platform, 5.00 mm
Flat handle
Overall length 107 mm
Titanium

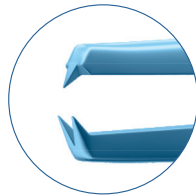
4-0541T 



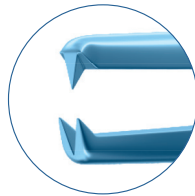
**Colibri
Corneal Forceps**

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

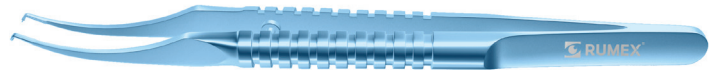
4-054T Regular tips
4-0540T Bonn type tips



4-054T



4-0540T




Corneal Forceps

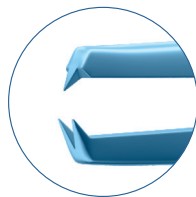
5.00 mm tying platform
Titanium




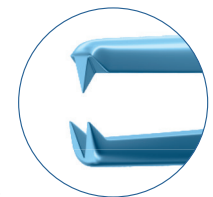
Catalano

Round handle
Overall length 105 mm

1x2 teeth 0.12 mm
4-055T 




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



1x2 teeth 0.30 mm
4-056T

1x2 teeth 0.50 mm
4-057T

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



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

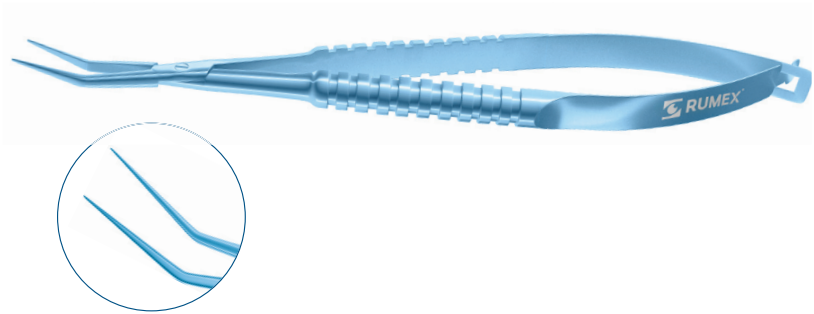
4-246S



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

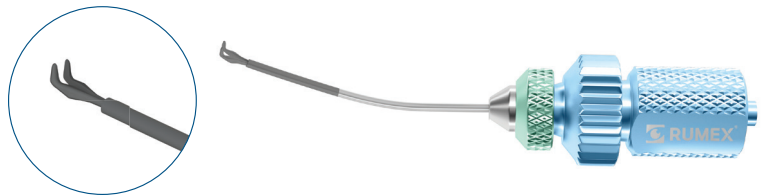
4-2019T



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



Forceps for SMILE and 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 ❤️



Guell DMEK Forceps

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

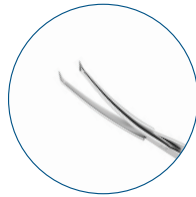
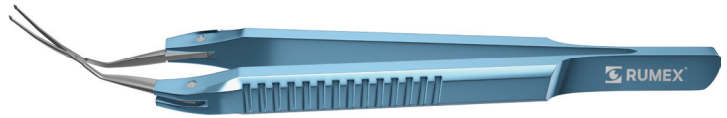
4-240



Cross-Action DMEK Forceps

Overall length 110 mm

- 4-251 Flat Titanium handle
- 4-262 Round Titanium handle

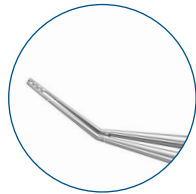
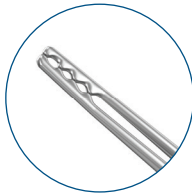


- Reversed tips are used to peel off the Descemet's membrane through a 1.80 mm incision

Lambright-Abdullayev Ultrathin DSAEK Grasping/Inserting Forceps

Flat handle
Overall length 105 mm
Stainless Steel

4-254S

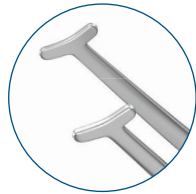


- Designed to improve insertion of the ultrathin DSAEK grafts with thickness 70 microns and less.
- 120 microns space between the tips to minimize compression and provide more safety for donor endothelial cells
- Wave-shaped serration for non-slip insertion and atraumatic forceps removal

Abdullayev DMEK Grasping Forceps

Flat handle
Overall length 82 mm
Stainless Steel

4-261S



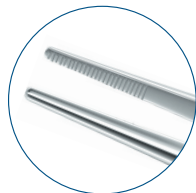
- Improved angle between grasping platform
- Horizontal thin grasping platforms provide more stability in membrane holding during separation
- Relaxing hand position and greater control

DRESSING FORCEPS

Dressing Forceps with Delicate Serrations

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

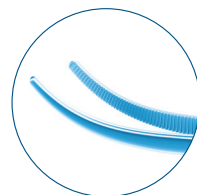
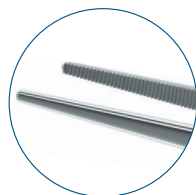
4-070S



Dressing Forceps with Delicate Serrations

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

- 4-071S Straight
- 4-072T Curved




4-071S

4-072T

FIXATION FORCEPS

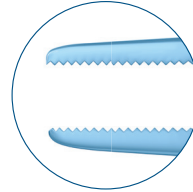
Adson Fixation Forceps

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

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



4-0741T

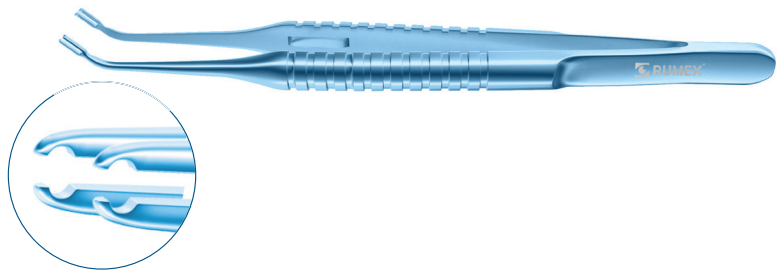


4-0740T

Polack Corneal Transplant Fixation Forceps

Two point fixation
 Delicate 1x2 teeth, 0.12 mm
 1.20 mm between the tips
 Curved shafts
 Pierce type tips
 Round handle
 Overall length 112 mm
 Titanium

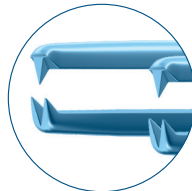
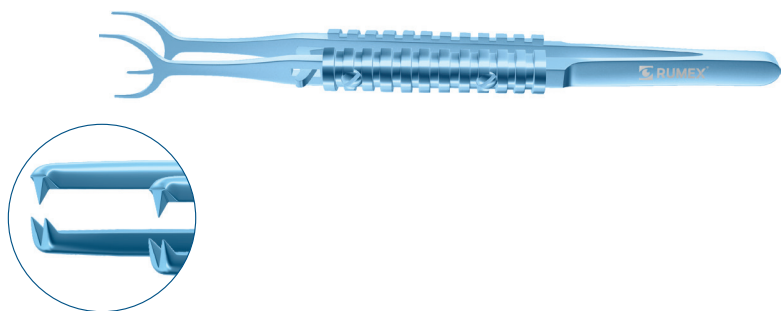
4-0814T



Nevyas-Wallace Fixation Forceps

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

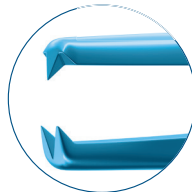
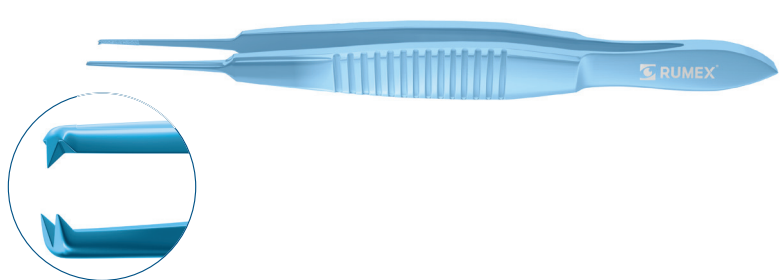
4-08011T



Castroviejo Fixation Forceps

Straight shafts
 1x2 teeth, 0.50 mm
 Flat handle
 Overall length 109 mm
 Titanium

4-0822T 



Lester Fixation Forceps

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

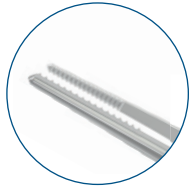
4-0832S



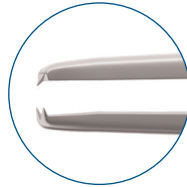
IRIS FORCEPS

Iris Forceps

Flat handle
Overall length 72 mm
Stainless Steel



Straight shafts
Fine serrated tips
Delicate serrations
4-100S



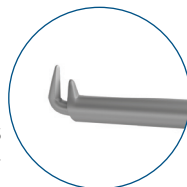
1x2 delicate teeth, 0.06 mm
4-101S Straight shaft (shown) ♥
4-102S Curved shaft

GLAUCOMA FORCEPS

Apostolov Micro Trabeculum Forceps

- For penetrating the Schlemm's canal and unroofing it by stripping away the trabeculum
- Reduced risk of trauma to the outer wall of Schlemm's canal and the ostia of the collector channels
- Uniquely shaped jaws enable both penetrating and grasping the trabeculum
- May be introduced through a paracentesis
- Compatible with Squeeze Handle 12-003T

4-0361* 23 Ga ✦



Designed
in cooperation with
Valentin Apostolov, MD,
OLVG



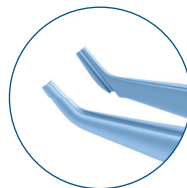
NEW

Ahmed Valve Tube Insertion Forceps

- Designed for the implantation of Ahmed Glaucoma Valves
- Ensures accurate and effortless tube insertion through the needle track
- Grooved tip for stable grip on the tube, enhancing control during the procedure

Overall length 110 mm
Titanium

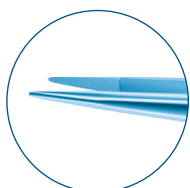
4-075T ✦



NEW

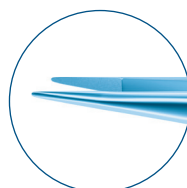
JEWELER FORCEPS

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



Jeweler #5 Forceps
Straight jaws

4-111T (shown) ♥



Jeweler #3C Forceps
Straight jaws

4-113T ♥



Jeweler #7 Forceps
Curved jaws

4-115T

*Tip only. Handles are sold separately.

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

REUSABLE ANTERIOR INSTRUMENTS

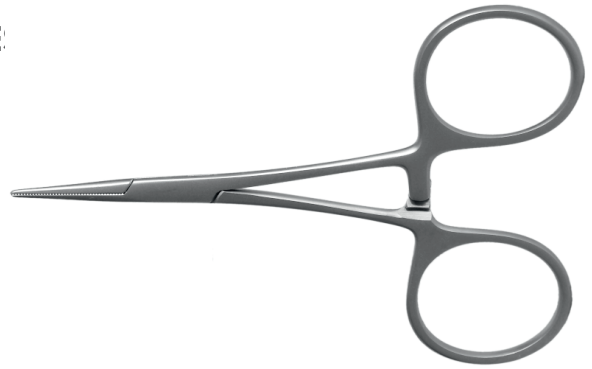
4 - FORCEPS

HEMOSTATIC FORCEPS AND SERREFINE

Hartman Hemostatic Mosquito Forceps

Serrated jaws
Ring handle
Overall length 90 mm
Stainless Steel

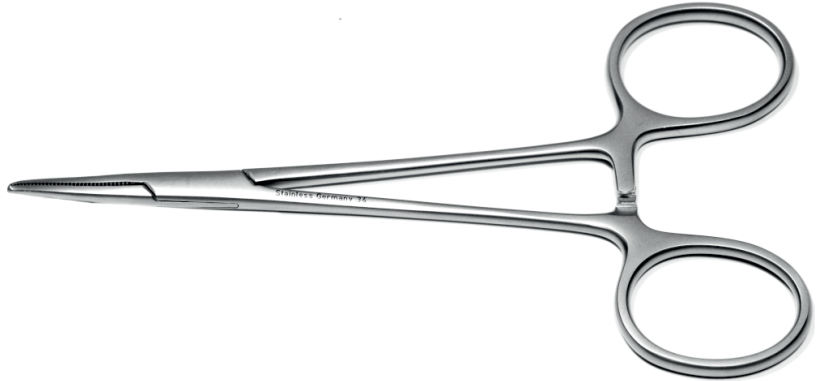
4-120S Straight (shown)
4-121S Curved ♥



Halsted Hemostatic Mosquito Forceps

Serrated jaws
Ring handle
Overall length 125 mm
Stainless Steel

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



Serrefine

Straight
Stainless Steel

16-090S Large size ♥
Overall length 55 mm

16-092S Small Size
Overall length 35 mm

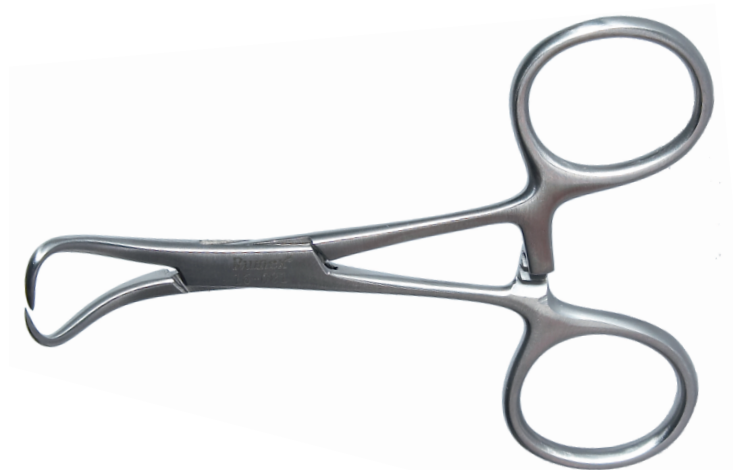


TOWEL CLAMPS AND FORCEPS

Towel Forceps

Ring handle
Overall length 125 mm
Stainless Steel

16-081S ♥



Schaedel Towel Clamp

Flat handle
Overall length 90 mm
Stainless Steel

16-080S



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

- 4-0600T 1×2 teeth, 0.12 mm
- 4-0601T 1×2 teeth, 0.30 mm
- 4-0602T 1×2 teeth, 0.50 mm



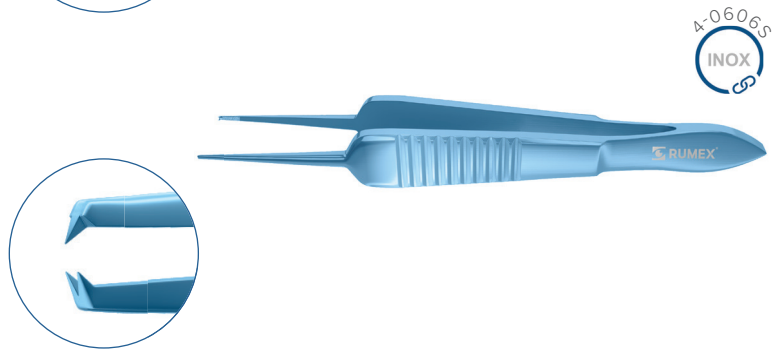
Titanium or Stainless Steel



Paufique Suturing Forceps

1×2 teeth, 0.50 mm
Tying platform, 6.00 mm
Flat handle
Overall length 87 mm

4-0606T Titanium



Bishop-Harmon Suturing Forceps

1×2 teeth, 0.30 mm
Tying platform, 5.00 mm
Flat handle
Overall length 87 mm
Stainless Steel

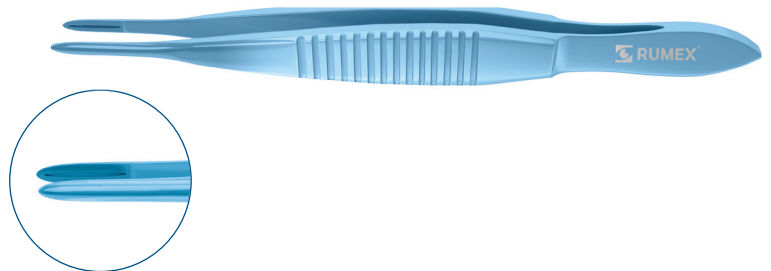
4-0607S



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

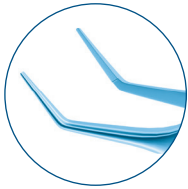


TYING FORCEPS

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

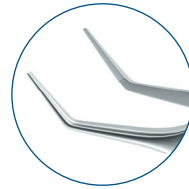


Tying platforms, 4.00 mm
Overall length 81 mm
Titanium

4-090T ❤️

Tying platforms, 10.00 mm
Overall length 86 mm
Titanium

4-092T ❤️



Tying platforms, 8.00 mm
Overall length 84 mm
Stainless Steel

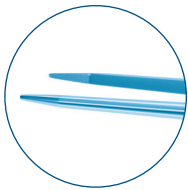
4-091S ❤️

Tying platforms, 10.00 mm
Overall length 86 mm
Stainless Steel

4-092S

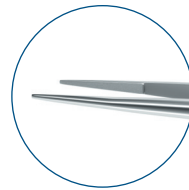
McPherson Tying Forceps

For 8-0 to 11-0 sutures
Flat handle



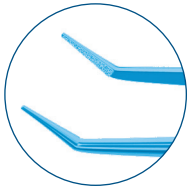
Straight
Tying platforms, 4.00 mm
Overall length 84 mm

4-171T Titanium (shown) ❤️



Straight
Tying platforms 7.00 mm
Overall length 110 mm
Stainless Steel

4-178S ❤️



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

4-173T

Tying platform, 8.00 mm
Overall length 103 mm

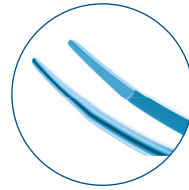
4-174T ❤️

Tying platform, 10.00 mm
Overall length 104 mm

4-175T ❤️

Tying platform, 12.00 mm
Overall length 106 mm

4-176T ❤️



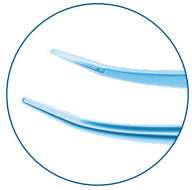
Curved
Tying platforms, 4.00 mm
Overall length 109 mm
Titanium

4-177T ❤️

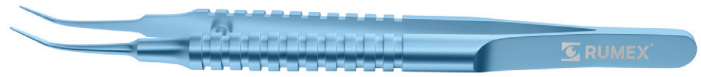


Catalano Tying Forceps

For 8-0 to 11-0 sutures
Round handle



Curved
V-groove tying platform, 6.00 mm
Overall length 106 mm
Titanium
4-182T ❤️

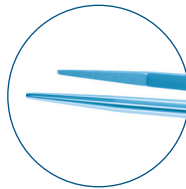


Tennant Tying Forceps

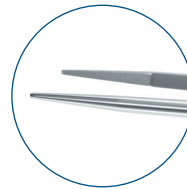
For 9-0 to 11-0 sutures

Extra delicate smooth jaws
Tying platform, 6.00 mm
Round handle
Overall length 108/107/107 mm
Titanium or Stainless Steel

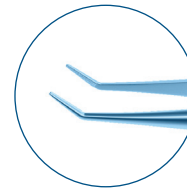
4-185T	Straight (shown)	❤️
4-185S	Straight	
4-1851T	Angled	
4-186S	Curved	❤️



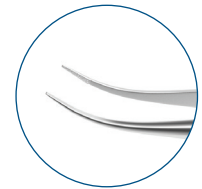
4-185T



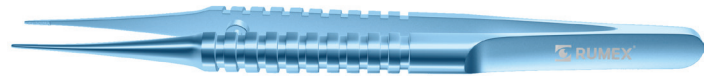
4-185S



4-1851T



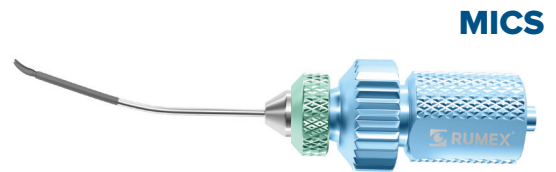
4-186S



Intraocular Tying Forceps

For 9.0-11.0 sutures
Designed for intraocular suturing.
Curved shaft
With fixation wheel
Compatible with Squeeze Handle
12-003T

4-1891* 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

REUSABLE ANTERIOR INSTRUMENTS

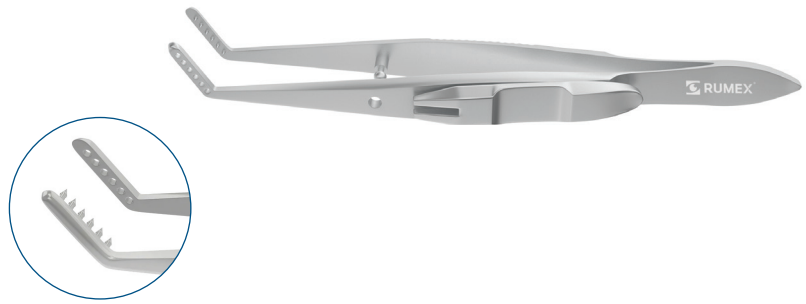
4 - FORCEPS

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
4-131S Right (shown)



Superior Rectus Forceps

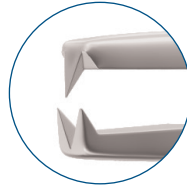
1x2 teeth, 0.50 mm
Flat handle



Osher

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

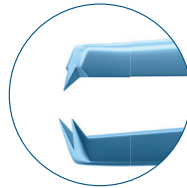
4-136S



Elsching

Straight shafts
Overall length 108 mm
Titanium

4-138T

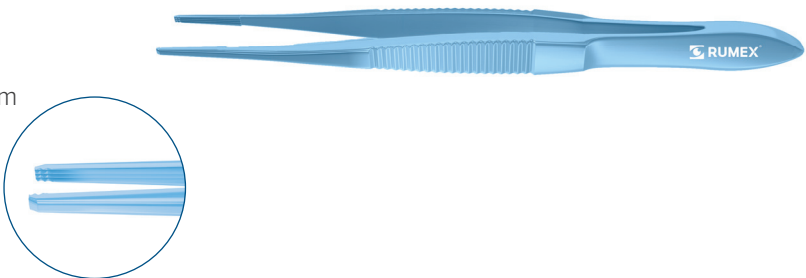


UTILITY FORCEPS

Bonaccolto Utility Forceps

Longitudinal atraumatic serrations, 15.00 mm
Cross serrations at tips
Flat handle
Overall length 100 mm
Titanium

4-2300T 



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

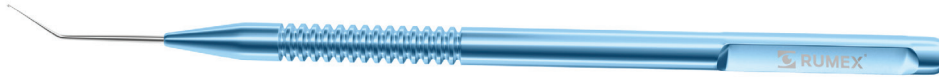
4-2201T



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



5-030D 5-030S
INOX

**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



**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 ♥



5-032D 5-032S
INOX

**Sinskey
Lens Manipulating Hook**

Angled
0.15 mm diameter tip
Overall length 121/122 mm

5-032 Angled ♥
5-0321 Straight



**Reversed Sinskey
Scoring Hook for Endothelial
Keratoplasty**

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

5-0322 ♥



5-0331D 5-0331S
INOX

**Lester
Lens Manipulator**

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

5-033 Straight ♥
5-0331 Angled



5-034S
INOX

**Bechert
Nucleus Rotator**

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

5-034 ♥



**Fenzi
Lens Manipulating Hook**

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

5-036

REUSABLE ANTERIOR INSTRUMENTS

5 - HOOKS

MUSCLE/TENOTOMY HOOKS

Stainless Steel hooks with an ergonomic light-weight round 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 ♥

1.50 mm tip, 8.00 mm hook
Overall length 128 mm

5-0401 Small



Graefe Muscle Hook

Flat hook

1.00 mm tip, 8.00 mm hook
Overall length 135 mm

5-041 Size 1 ♥

1.50 mm tip, 10.00 mm hook
Overall length 140 mm

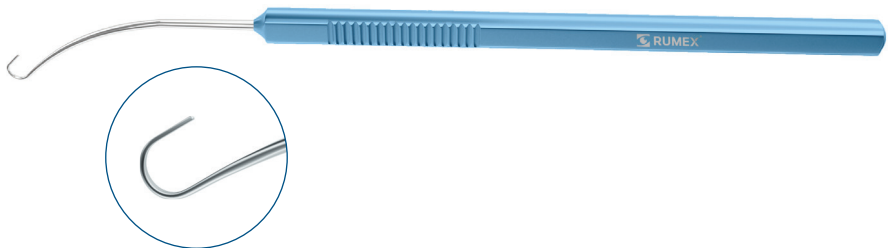
5-042 Size 2 ♥



Scobee Oblique Muscle Hook

Curved shaft
4.50 mm flat hook
Overall length 136 mm

5-061



Stevens Tenotomy Hook

6.00 mm flat hook
Overall length 120 mm

5-062 ♥



Rychwalski Muscle Hook with Groove

1.80 mm tip
12.20 mm hook
Overall length 140 mm

5-046



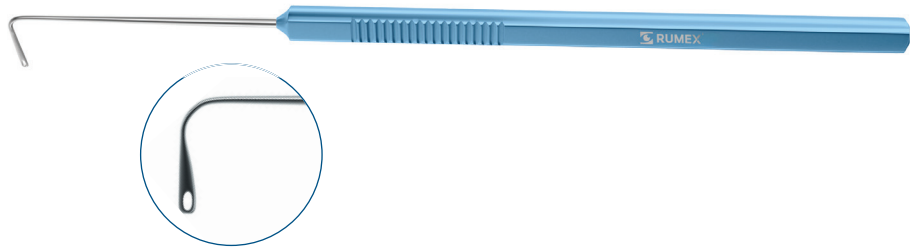
RETINAL DETACHMENT HOOKS

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

Gass Retinal Detachment Hook

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

5-060 



IRIS HOOKS

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

Iris Hook

Angled
Overall length 121 mm

5-020



REUSABLE ANTERIOR INSTRUMENTS

6 - DIAMOND KNIVES

DIAMOND KNIVES

up to 3000
INCISIONS



Extreme sharpness of the blades

Potentially reduced risk of wound leak

Minimal pressure

Predictable cuts and architecture of the wound for more consistent healing

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).

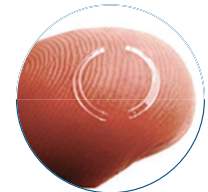
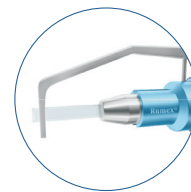
Performs a 1.00 mm radial incision at 70–80% of corneal thickness.

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)

6-00/6-020

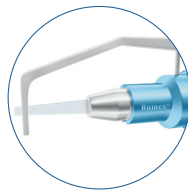


Arcuate

1.00/0.20 mm

Tapered blade

6-00/6-030

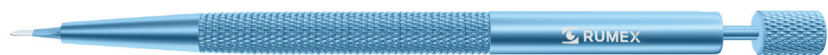


UNIVERSAL SIDE-PORT KNIVES

Used for paracentesis.

Straight Titanium handle

Overall length 120 mm



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

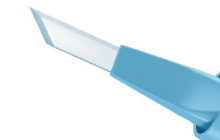
6-10/6-051



45° Double Edge

1.00 mm

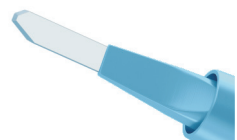
6-10/6-052



Trifacet

1.00 mm

6-10/6-053



20° Trifacet

1.00 mm

6-10/6-0531



60° Lancet

1.00 mm

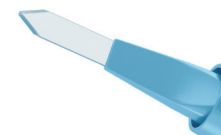
6-10/6-070



60° Lancet

0.80 mm

6-10/6-0701



Multi-incision

1.00 mm

6-10/6-076



Trifacet

1.00 mm

6-10/6-053

ANGLED PHACO KNIVES

up to 3000
INCISIONS



6 - DIAMOND KNIVES

Used for tunnel incision.
Angled Titanium handle
Overall length 117 mm



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



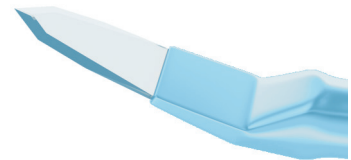
Facet-Free Crescent Knives

- 6-20/6-092 – 2.00 mm



Self-Diving Trapezoid Blades

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



Used for micro incision.
Angled Titanium handle
Overall length 117 mm



Trapezoid Self-Diving Blades

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



Zaldivar Knife for ICL Implantation

- 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



REUSABLE ANTERIOR INSTRUMENTS

6 - DIAMOND KNIVES

LRI KNIVES

up to 3000
INCISIONS



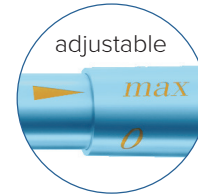
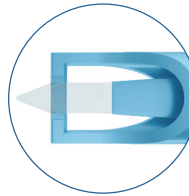
Universal Three-Step Knife for Cataract and LRI Surgery

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 125 mm



6-322/6-0531 ♥

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



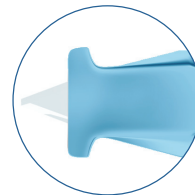
Pre-Set LRI Knives

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

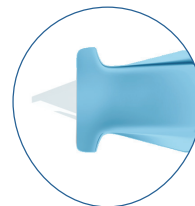
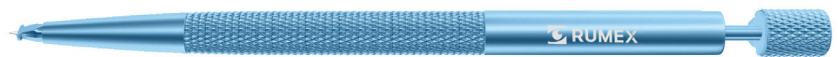


Pre-Set LRI Knives

Long Titanium handle
Overall length 110 mm

6-500/6-0531
Preset depth 500 microns

6-600/6-0531
Preset depth 600 microns



Diamond Knife Cleaning Pack

The pack consists of 3 solutions (1, 2, 3) that are used to clean the blade from the residual debris prior to sterilization.

21-602-1 ♥



SAPPHIRE KNIVES



6 - SAPPHIRE KNIVES

Low pressure

Accurate cuts

Consistent healing



UNIVERSAL SIDE-PORT KNIVES

Overall length 136 mm



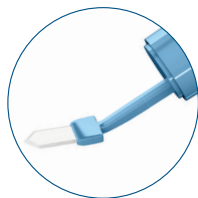
45° Double Edge Blade
1.00 mm
6-10/6SK-0501



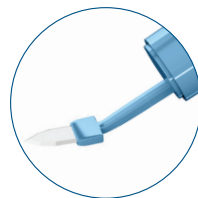
60° Double Edge Lancet Blade
1.00 mm
6-10/6SK-070 ♥

PHACO KNIVES

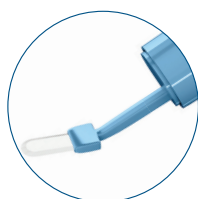
Overall length 135 mm



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



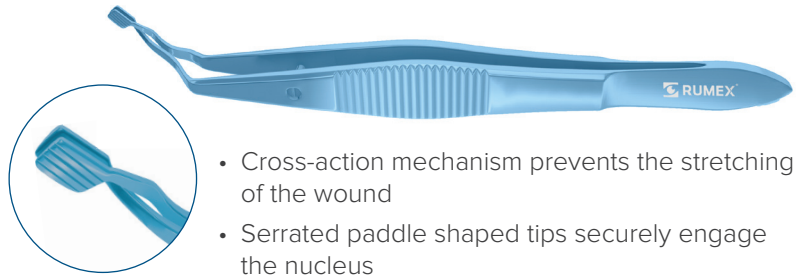
Facet-Free Crescent Blades
6-20/6SK-093 – 2.20 mm

PHACO INSTRUMENTS

Ernest Nucleus Cracker

Cross-action
Flat handle
Overall length 106 mm
Titanium

7-025T 

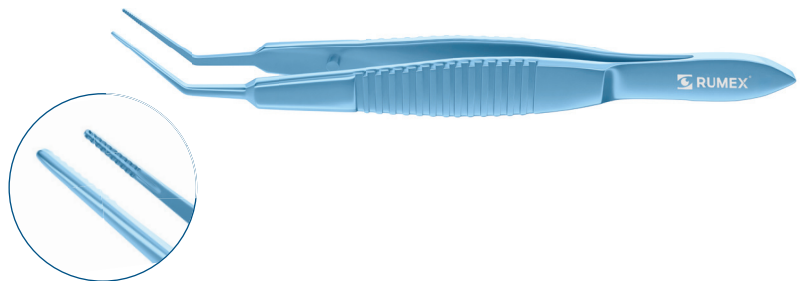


- Cross-action mechanism prevents the stretching of the wound
- Serrated paddle shaped tips securely engage the nucleus

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

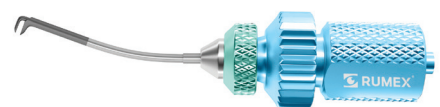
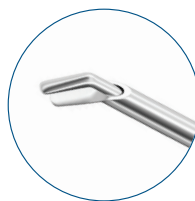


FEMTOCATARACT CHOPPERS

Slade/Terao Nucleus Splitter

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

7-143* 23 Ga



PRECHOPPERS

Cross-action

Stainless Steel

Ergonomic round serrated squeeze-handle



Angled Prechopper

Max opening 3.00 mm
Overall length 116 mm

7-111S



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 3.00 mm
Overall length 120 mm

7-1165S ❤️



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 3.00 mm
Overall length 121 mm

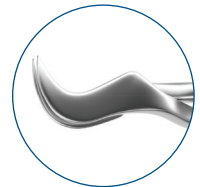
7-1161S ❤️



Inamura Prechopper

Straight
Max opening 2.80 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 ❤️



Crozafon Prechopper

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

7-1167S



Akahoshi Prechopper

Straight
Groove enables easy rotation of the nucleus during prechopping.
Max opening 3.00 mm
Overall length 121 mm

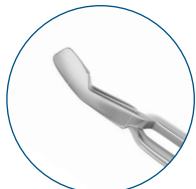
7-1163S ❤️



Escaf Prechopper

Straight
Round handle
Overall length 120 mm
Stainless Steel

7-149S ❤️



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

Designed in cooperation with Luis Escaf, M.D., Colombia



Used to complete breakdown after Femtosecond or Ultrachopper use.

- Fractures cataract with hardness less than 4+
- Tolerates capsulorhexis less than 5.00 mm with no injure to the capsule edges
- Fits through 2.00 mm incision

REUSABLE ANTERIOR INSTRUMENTS

CHOPPERS

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

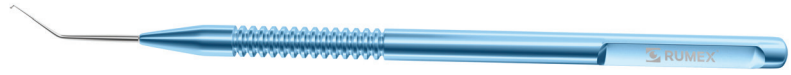
Stainless Steel choppers with an ergonomic light-weight round serrated Titanium handle



Nagahara Phaco Chopper

Overall length 120 mm

- 7-060 1.50 mm tip with Elongated Blade, RHD ♥
- 7-063 0.90 mm tip, RHD (shown)
- 7-064 0.90 mm tip, LHD



Nucleus Claw Chopper

Overall length 120 mm

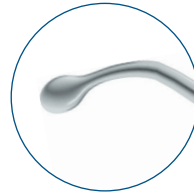
- 7-072 ♥



Rosen Phaco Chopper Universal

Overall length 120 mm

- 7-065 ♥



Intraocular Manipulator with Ball tip

0.50 mm diameter ball tip

Straight
Overall length 123 mm

- 7-074

Angled
Overall length 121 mm

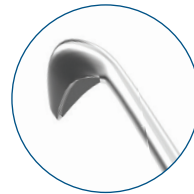
- 7-075



Rosen Phaco Splitter

60° angled
Wedge-shaped
Overall length 120 mm

- 7-066 RHD ♥
- 7-067 LHD (shown)



Phaco Cleaver

Overall length 120 mm

- 7-068 RHD
- 7-069 LHD (shown)



Phaco Chopper for Cross-Chop Technique

Designed for Cross-Chop and Quick-Chop techniques.

- Elongated 2.00 mm tip fractures all lens densities
- Reduced use of Ultrasound lowers risk of endothelial cells loss

Overall length 120 mm

- 7-0681 ♥



Universal Multifunctional Phaco Chopper

- Anterior sharp edge for horizontal and vertical nucleus chopping
- Blunt posterior surface for iris/capsule retraction
- Rounded tip is for safe nucleus cracking

Overall length 120 mm

- 7-0751

CHOPPERS



Small Pupil Snapper Hook & Phaco Chopper

Overall length 121 mm

7-077



Micro Finger Chopper

Overall length 120 mm

7-097



Buratto Manipulator

Overall length 118 mm

7-099



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



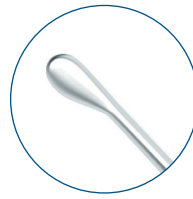
Phaconit Quick Chopper

Designed to quickly and easily chop all grades of nuclei.

Overall length 120 mm

7-125 0.18 mm tip

7-1251 0.35 mm tip



Drysdale Nucleus Manipulator & Capsule Polisher

For nucleus dividing and separating
Overall length 121 mm

7-093 Regular tip

7-0931 Capsule polisher tip

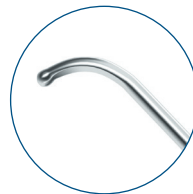


Quick Chopper with Rounded Edge

Overall length 120 mm

7-128 RHD (shown)

7-1281 LHD



Seibel Chopper

Chopper with ball-shaped tip for efficient capsule protection

Overall length 122 mm

7-130 RHD



Axe Quick Chopper

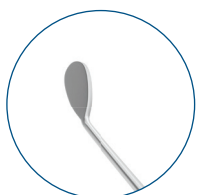
Overall length 120 mm

7-135

Escaf Nucleus Manipulator

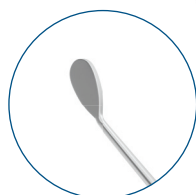
Overall length 120 mm

Designed in cooperation with Luis Escaf, M.D., Colombia



7-1171

45° bent tip



7-117

30° bent tip



- Atraumatic flat olive-shaped tip
- Rotates the cataract fragments and introduces them to the phaco tip
- Disengages the cataract fragments after fracturing with a prechopper
- Useful in protecting the posterior capsule

REUSABLE ANTERIOR INSTRUMENTS

7 - PHACO INSTRUMENTS

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

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

Nagahara Phaco Chopper & Drysdale Nucleus Manipulator

Overall length 128 mm

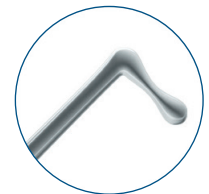
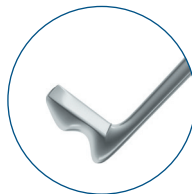
7-0631 RHD 



Double Phaco Spatula

Small Pupil Snapper Hook & Micro Finger
Overall length 132 mm

7-079

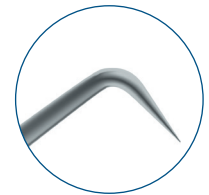


Chang Micro Finger & Quick Chopper

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 

7-1271 LHD Titanium handle



Seibel Chopper & Quick Chopper

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

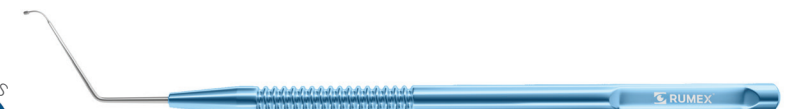
7-1361 RHD 



Triple Edge Phaco Chopper with Polisher Tip

Overall length 117 mm

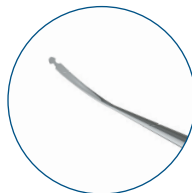
7-126 



Koch Nucleus Spatula

Curved
Duck bill tips with notches
Overall length 122 mm

7-070



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.

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



20 Ga tip with Nagahara type chopper (for 1.00 mm incisions)
 The end opening port provides maximum irrigation.
 The dual oval sideports 0.50x0.70 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



CAPSULE POLISHERS

Anterior/Posterior Capsule Polisher

135° angled shaft
 Titanium Handle/Stainless Steel Tip
 Overall length 120 mm

7-101



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

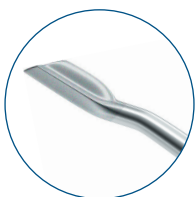
Holz Capsule Polisher

Designed to perform delicate polishing of the capsule.
 Angled shaft, "iron"-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
 Titanium Handle/Stainless Steel Tip
 Overall length 123 mm

Designed in cooperation with Huck Holz, M.D., USA



7-142



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

The hub forward - 16 Ga (1.60 mm) with a 21 Ga (0.80 mm) going through the center of the hub.
Do not require sleeve
Stainless Steel



Thornton 20° angled
7-080/20



Binkhorst
7-080/BC



Simcoe
7-080/SIM



45° angled
7-080/45



90° angled
7-080/90



Straight
7-080/ST

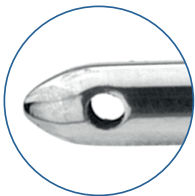
Irrigation Handpiece for Bimanual Technique


Curved tube with smooth tip
Titanium handle/Stainless Steel tip
Standard connector

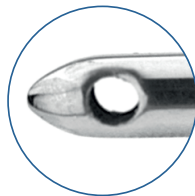



Irrigates anterior chamber, maintaining its stability and providing for maximal cortex removal.

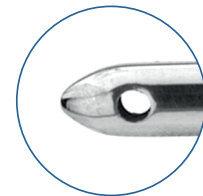
May be introduced through any side-port incision, allowing easy access to all parts of the capsule.




2x0.35 mm side-ports
Overall length 104 mm
7-081 21 Ga 



2x0.50 mm side-ports
Overall length 104 mm
7-0813 21 Ga 



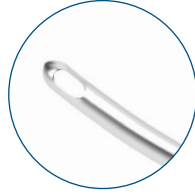
2x0.35 mm side-ports
Overall length 105 mm
7-081-23 23 Ga 

IRRIGATION/ASPIRATION HANDPIECES

Stodulka Enhanced Irrigation Handpiece for Bimanual Technique

Curved tube
 Two ports on side 0.50x1.00 mm for optimal irrigation
 Titanium handle/Stainless Steel tip
 Standard connector
 Overall length 105 mm

7-0811 21 Ga



- Handpiece recommended for bimanual microphaco and Femtosecond cataract surgery
- Smooth bullet-shaped tip facilitates instrument insertion

Aspiration Handpiece for Bimanual Technique


Curved tube with smooth or texturized tip
 Titanium handle/Stainless steel tip
 Standard connector

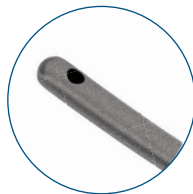


May be introduced through any side-port incision, allowing easy access to all parts of the capsule

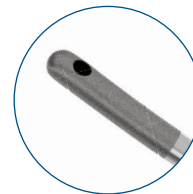
Removes residual cortex after phacoemulsification




1x0.35 mm top port
 Smooth tip
 Overall length 104 mm
 7-082 21 Ga 



1x0.35 mm top port
 Capsule polisher tip
 Overall length 104 mm
 7-0821 22 Ga 



1x0.35 mm top port
 Capsule polisher tip
 Overall length 105 mm
 7-0821-23 23 Ga 

NEEDLE HOLDERS

Tungsten carbide coated tips for advanced gripping

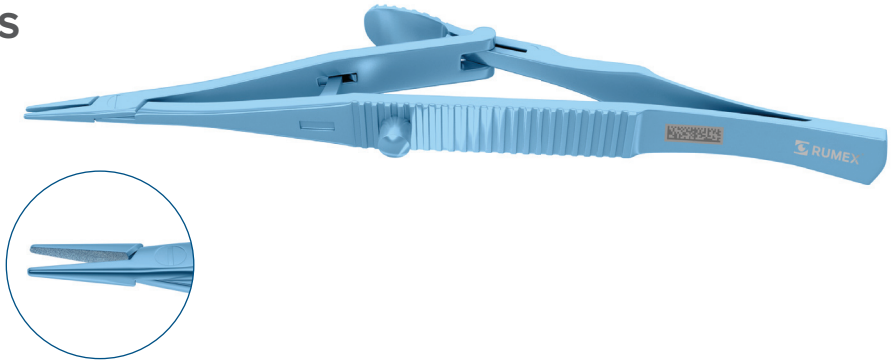
Lightweight

Non-magnetic

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

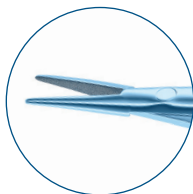


CASTROVIEJO NEEDLE HOLDER

Castroviejo Needle Holder

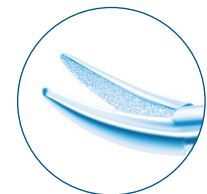
Titanium
Flat serrated handle

For 4.0-6.0 sutures
Straight delicate jaws, 13.50 mm
Overall length 122 mm
8-0921T with lock



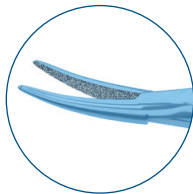
8-0921S
INOX

For 4.0-7.0 sutures
Curved standard jaws, 11.00 mm
Overall length 140 mm
8-100T with lock



8-100S
INOX

For 7.0-9.0 sutures
Curved delicate jaws, 8.00 mm
Overall length 135 mm
8-096T without lock

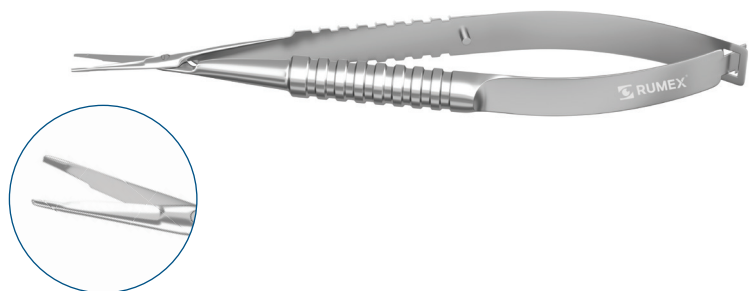


8-096S
INOX

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



BARRAQUER NEEDLE HOLDER

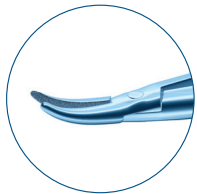
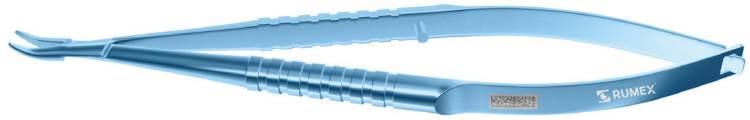
Tungsten carbide coated tips for advanced gripping

Lightweight

Non-magnetic

**Barraquer
Needle Holder**

Titanium
Ergonomic round serrated handle



Curved standard jaws, 12.00 mm
For 4.0-7.0 sutures

Overall length 100 mm

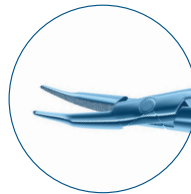
8-010T with lock
8-011T without lock

Overall length 115 mm

8-030T with lock
8-031T without lock

Overall length 125 mm

8-060T with lock
8-061T without lock



Curved extra fine jaws, 8.00 mm
For 8.0-11.0 sutures

Overall length 100 mm

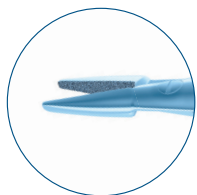
8-024T with lock
8-025T without lock

Overall length 115 mm

8-045T without lock

Overall length 125 mm

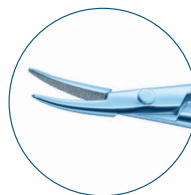
8-050T with lock
8-051T without lock



Straight standard jaws, 12.00 mm
For 4.0-7.0 sutures

Overall length 100 mm

8-013T without lock



Curved fine jaws, 12.00 mm
For 4.0-7.0 sutures

Overall length 100 mm

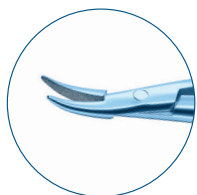
8-020T with lock
8-021T without lock

Overall length 115 mm

8-040T with lock
8-041T without lock

Overall length 125 mm

8-070T with lock
8-071T without lock



Curved strong jaws, 12.00 mm
For 4.0-6.0 sutures

Overall length 125 mm

8-090T with lock
8-091T without lock

PROBES

Bowman Lacrimal Probe

Overall length 133 mm

- 9-010S size 0000 & 000 ♥
- 9-011S size 00 & 0
- 9-012S size 1 & 2 ♥
- 9-013S size 3 & 4 ♥
- 9-014S size 5 & 6
- 9-015S size 7 & 8



Quickert Lacrimal Intubation Probe

Overall length 140 mm

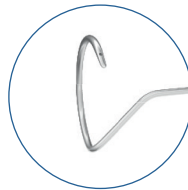
- 9-021S size 0
- 9-023S size 2



Pigtail Lacrimal Probe

8.00 mm pigtail curved probes with holes
Polished tip
Titanium Handle/Stainless Steel Tips
Overall length 125 mm

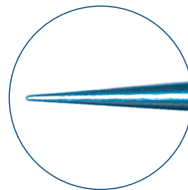
- 9-031 ♥



Wilder Lacrimal Dilator

Blunt polished tip
Overall length 100 mm
Titanium

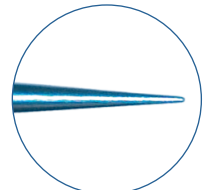
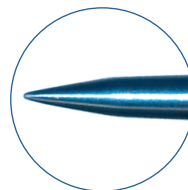
- 9-050T size 1 (19.00 mm) ♥
- 9-051T size 2 (23.00 mm) ♥
- 9-052T size 3 (32.00 mm)



Castroviejo Double-Ended Lacrimal Dilator

Polished tip
Overall length 100 mm
Titanium

- 9-060T size 1 & 2 ♥



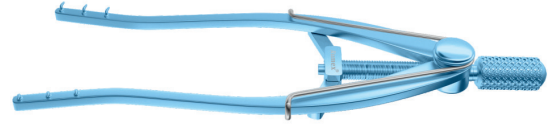
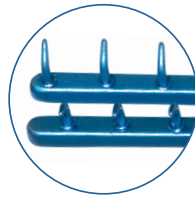
RETRACTORS

LACRIMAL SAC RETRACTORS

Stevenson Lacrimal Sac Retractor

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

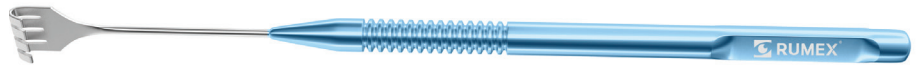
10-013



Knapp Lacrimal Sac Retractor

4 blunt prongs
8.00 mm width tip
Titanium Handle/Stainless Steel Tip
Overall length 140 mm





10-014 

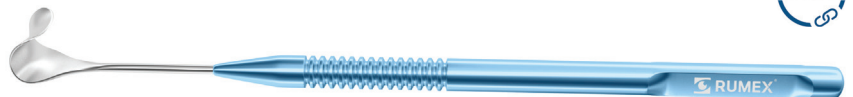


LID & ORBITAL RETRACTORS

Desmarres Lid Retractor

Titanium Handle/Stainless Steel Tip
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 



- Secures the eyelid in the everted position
- May be employed for safe eyelid and lashes isolation during intravitreal injections

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

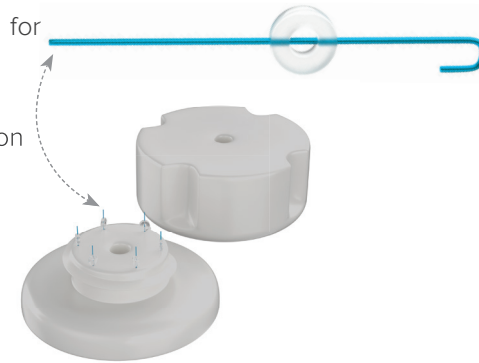
Iris Retractors*

- Strong yet flexible polypropylene hook mechanical iris dilation
- Vertical orientation for easy handling
- Insertion through 0.50 mm self-sealing incision at the limbus

Reusable
Supplied sterile in an autoclavable PTFE container


10-5127 

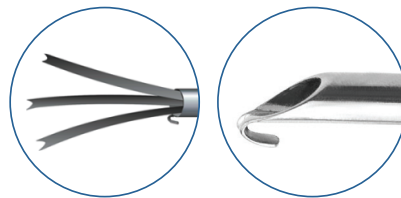
STERILE 



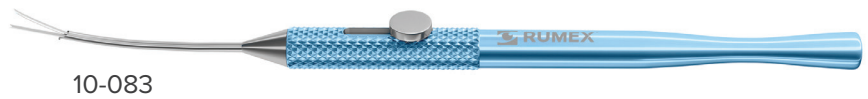
Beehler Pupil Dilator

17 Gauge
Curved shaft
Four prongs
Overall length 130 mm
Titanium

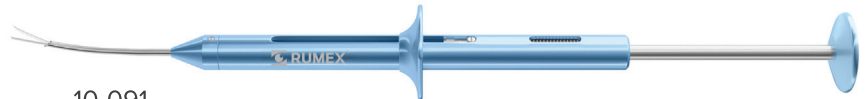
10-083 
10-091 with plunger



3 fingers for 4 point dilation



10-083



10-091

Provides even dilation by allocating tension on all sides of the pupil.

SCISSORS

Matte finish/anti-glare coating

Minimal friction

Maraging stainless steel

Unique hardening system promoting 3,000+cuts without resharpening

Sharp cutting edges

CORNEAL SCISSORS

Flat handle
Stainless Steel

Castroviejo Corneal Scissors

Blunt tips
Curved 7.00 mm blades
11.00 mm from midscrew to tips
Overall length 100 mm



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



Castroviejo 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 | ❤️
11-012S

Castroviejo Universal Corneal Scissors

Blunt tips
Curved 13.00 mm blades
16.00 mm from midscrew to tip
Overall length 110 mm



11-015S

Osher Universal Corneal Scissors

Blunt tips
Gently curved 13.00 mm blades
21.00 mm from midscrew to tip
Provide a precise 6.50 mm beveled incision opening with a single snip.
Overall length 120 mm



11-013S

Corneal Universal Scissors

Blunt tips
Curved
Round handle
Overall length 110/112 mm
Stainless Steel



11-034S 7.50 mm blades (shown) | ❤️
11-035S 11.00 mm blades



Katzin Corneal Transplant Scissors

Blunt tips
Strongly curved 8.00 mm blades
9.50 mm from midscrew to tips
Overall length 100 mm



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

Castroviejo Corneal Section Scissors

Blunt tips
11.50 mm blades
14.00 mm from midscrew to tips
Lower blade is 0.50 mm longer than upper.
Overall length 106 mm



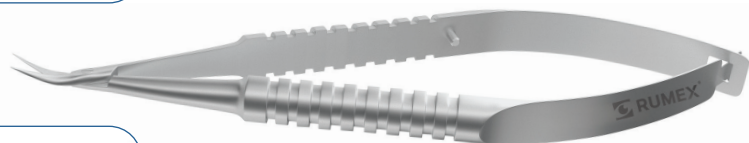
11-024S Right (shown)
11-0241S Left

DALK Corneal Transplant Scissors

Pointed tips
Blades with blunt ledge are used to perform the superficial keratectasia. Remove the 4 parts of separated stromal layers after the «Big Bubble» procedure.
Overall length 106 mm



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



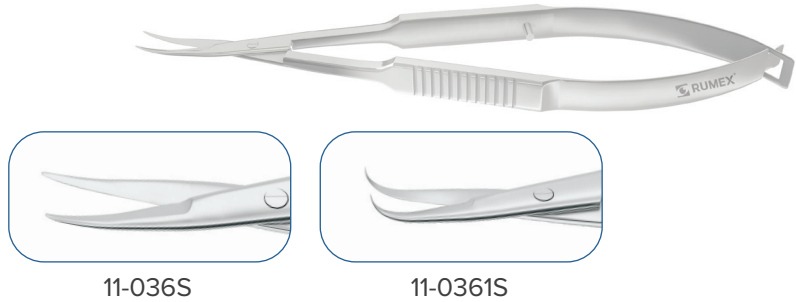
REUSABLE ANTERIOR INSTRUMENTS

11 - SCISSORS

DLEK Corneal Transplant Scissors

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

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



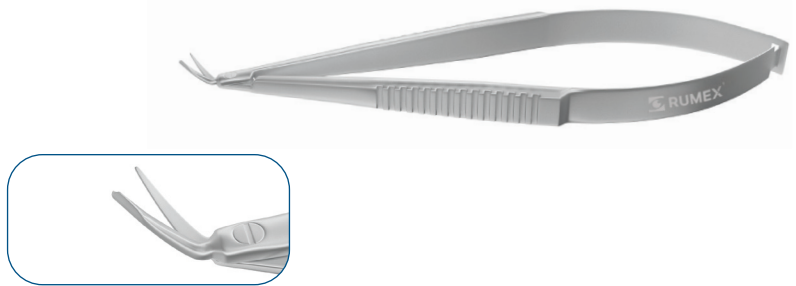
11-036S

11-0361S

Holland Spatulated DALK Scissors

Rounded and blunt tips
Vannas-style scissors with “micro blades” dissect stroma.
Horizontally-oriented, spatulated inner blade ensures proper plane alignment, minimizing inadvertent perforation.
Shortened outer blade for precise tissue trimming
Overall length 100 mm
Stainless Steel

- 11-134 Right (shown)
- 11-135 Left

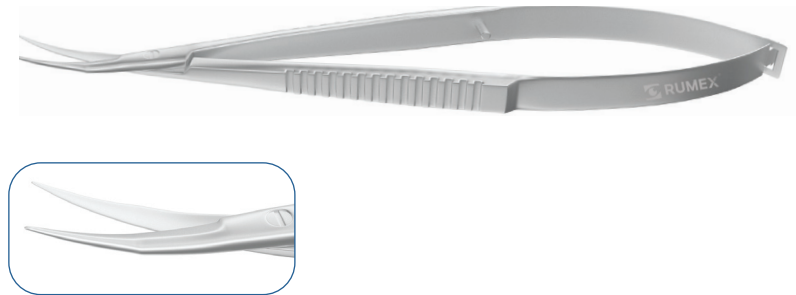


STITCH SCISSORS

Westcott Stitch Scissors

Gently curved
16.00 mm blades
21.00 mm from pivot to tip
Sharp pointed tips
Overall length 120 mm
Stainless Steel

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



Westcott Stitch Scissors

Gently curved
13.00 mm blades
15.00 mm from pivot to tip
Sharp pointed tips
Overall length 115 mm
Stainless Steel

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



STRABISMUS SCISSORS

Knapp Strabismus Scissors

Blunt tips
Ring handle
Overall length 115 mm
Stainless Steel

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



IRIS SCISSORS

**Zaldivar
Iridectomy Scissors**

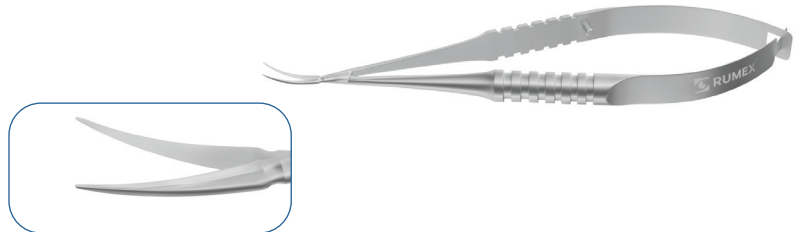
Sharp tips
Straight shaft
With fixation wheel
Compatible with Squeeze Handle 12-003T
11-03721* 23 Ga



**McPherson-Vannas
Iris Scissors**

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

11-062S ❤️



Iris Scissors

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

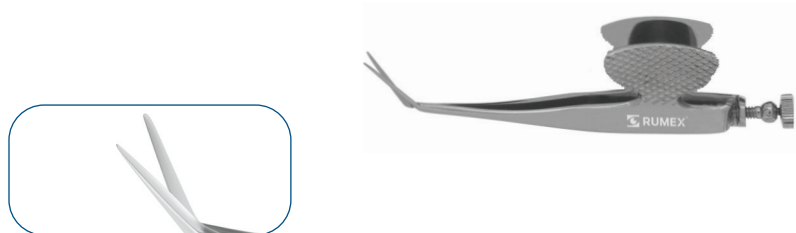
11-080S Straight (shown) ❤️
11-081S Curved



**Barraquer
Iris Scissors**

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

11-1223



*Tip only. Handles are sold separately.

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

REUSABLE ANTERIOR INSTRUMENTS

11 - SCISSORS

TENOTOMY SCISSORS

Westcott Tenotomy Scissors

Stainless Steel
Curved
Blunt tips



Westcott Tenotomy Scissors

13.00 mm blades
15.00 mm from pivot to tip
Overall length 115 mm

11-040S



Shepard-Westcott Tenotomy scissors

16.00 mm blades
Serrated "supercut" upper blade
21.00 mm from pivot to tip
Overall length 123 mm

11-0481S Right



Westcott Tenotomy Scissors

16.00 mm blades
21.00 mm from pivot to tip
Overall length 120 mm

11-042S



Westcott Curved Tenotomy Scissors

15.00 mm Blades
19.00 mm from pivot to tip
Overall length 116 mm

11-049S Left



Westcott Tenotomy Scissors

15.00 mm blades
19.00 mm from pivot to tip
Overall length 116 mm

11-048S 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)

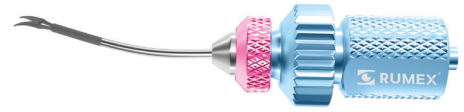
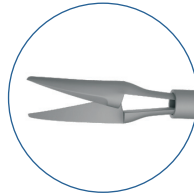


CAPSULOTOMY SCISSORS

**Side-Port
Capsulotomy Scissors**

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

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



Capsulotomy Scissors

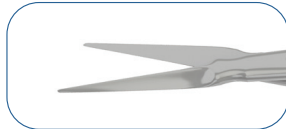
Sharp pointed tips
Stainless Steel



**Vannas
Capsulotomy Scissors**

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

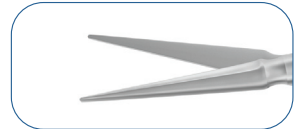
11-050S ❤️



**Gills-Vannas
Capsulotomy Scissors**

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

11-056S



**Vannas
Capsulotomy Scissors**

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

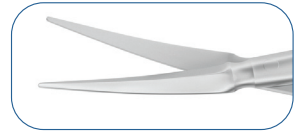
11-052S ❤️



**Gills-Vannas
Capsulotomy Scissors**

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

11-058S ❤️



**Vannas
Capsulotomy Scissors**

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

11-054S



**Gills-Vannas
Capsulotomy Scissors**

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

11-0581S ❤️



**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

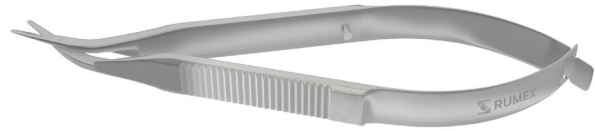


IOL CUTTERS/SCISSORS

Osher IOL Scissors

To cut silicone or acrylic IOL
8.50 mm blades
Overall length 91 mm
Stainless Steel

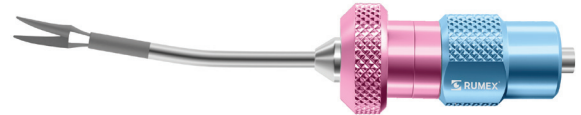
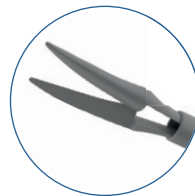
4-2175S ❤️



Rowen Rescue Kit Scissors

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

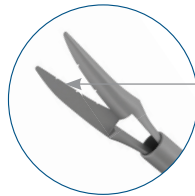
4-2151* 18 Ga ❤️



Micro Foldable Lens Cutter

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

4-2173* 19 Ga



Notches

SPATULAS

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

IRIS/NUCLEUS SPATULAS

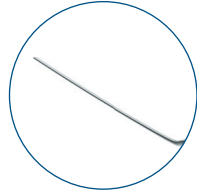
Straight Spatula

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

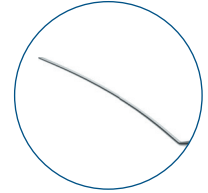
13-014 1.00 mm width, 13.00 mm length



Curved Spatula

Overall length 122 mm

13-020 0.25 mm width, 12.00 mm length



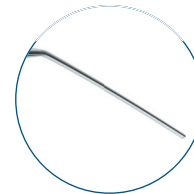
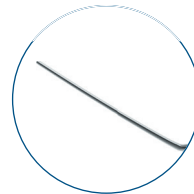
Double Spatula

Overall length 134 mm

13-031 0.50 & 1.00 mm width



13-032 0.30 & 0.50 mm width



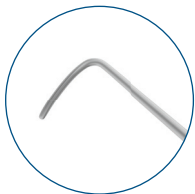
Holz Zonule Defender

Can be used with **4-2142 Intraocular Lens Extraction Forceps.**

Titanium Handle/Stainless Steel Tip

Overall length 120 mm

13-061 



- Inserted into the equator of the capsule bag and used as counter traction during IOL exchange
- Prevents the prying motion from breaking zonules by distributing countertraction forces

NEW

Designed in cooperation with Huck Holz, M.D., USA

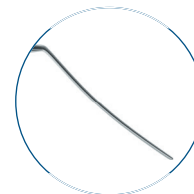
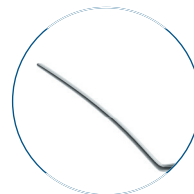


CYCLODIALYSIS SPATULAS

Castroviejo Double-Ended Cyclodialysis Spatula

Overall length 136 mm

13-050 0.50 mm width, 10.00 & 15.00 mm

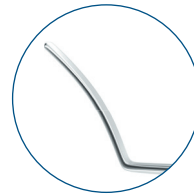


Castroviejo Cyclodialysis Spatula

Overall length 124 mm

13-051 1.00 mm width, 10.00 mm length

13-052 0.75 mm width, 10.00 mm length



REUSABLE ANTERIOR INSTRUMENTS

13 - SPATULAS

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

FEMTOSECOND CATARACT SPATULAS

20-204D
2
CS

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

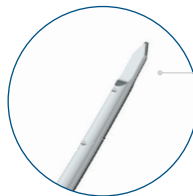
20-204



Donnenfeld Femto Spatula

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

20-2041

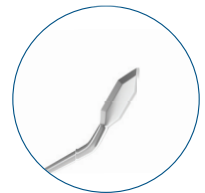


10 serrations for intraocular measurement (from 1.00 mm to 10.00 mm with 1.00 mm increment)

Double-Ended Femto Spatula

Safe and quick Femtosecond incisions opening
Blunt flattened spear easily detects the entering point.
Blunt keratome-shaped tip facilitates incision opening.
Overall length 132 mm

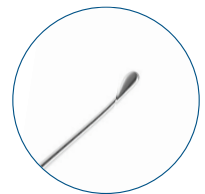
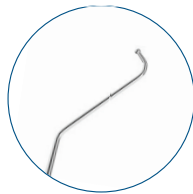
20-061



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



CORNEAL SPATULAS

Paton Spatula and Spoon

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

13-110



DSEK, DSAEK, DMEK SPATULAS

Corneal Dissector

For intrastromal dissection
Straight
60° angled shaft
12.00 mm from tip to angle
Titanium Handle/Stainless Steel Tip
Overall length 125 mm

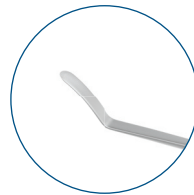
13-137



Corneal Dissector

For intrastromal dissection
Curved (curvature radius 22.00 mm)
45° angled shaft
12.00 mm from tip to angle
Titanium Handle/Stainless Steel Tip
Overall length 127 mm

13-138



Irrigating Endothelial Stripper

For Descemet's stripping
Titanium Handle/Stainless Steel Tip
Overall length 104 mm

13-139/I



Spatula-Guide

For corneal endothelium implantation
Overall length 122 mm
Titanium

13-150T



DSEK, DSAEK, DMEK SPATULAS

Cindy Sweeper DSEK Spatula

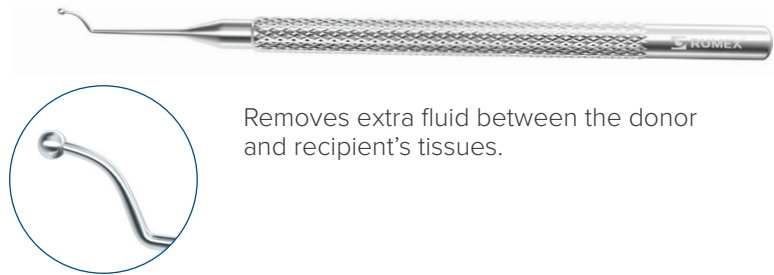
Angled shaft
12.00 mm from bend to tip
0.70 mm diameter
Overall length 114 mm
Stainless Steel
13-151S



Smoothens out the area between the donor graft and recipient's stromal bed.

Carlson DSEK Smoother

Angled/vaulted shaft
7.50 mm from tip to angle
2.50 mm blunt ball
Overall length 115 mm
Stainless Steel
13-152S



Removes extra fluid between the donor and recipient's tissues.

Terry DSEK Scraper

Angled shaft
11.00 mm from tip to angle
Hole-shaped scraper facing upward
Overall length 114 mm
Stainless Steel
13-153S



Roughens the recipient's inner corneal stroma for better layers adherence.

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



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

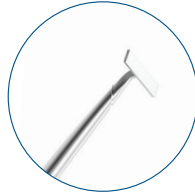
DSEK, DSAEK, DMEK SPATULAS

John DSAEK Descemet's Stripper

"T" shape 1.80 mm wide × 0.60 mm high tip
Efficient in cases of strong adherence of the Descemet's membrane to recipient's corneal stroma.

Strongly vaulted shaft
Overall length 118 mm

13-1491



John Dexatome DMEK/ DSAEK Spatula

Removes the Descemet's membrane as a single disc.

Strongly vaulted shaft
Overall length 119 mm

13-182



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

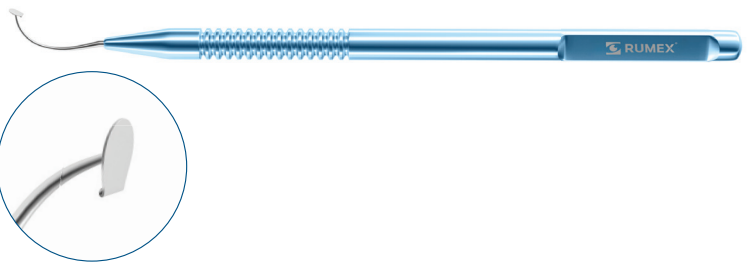


John DSAEK Glider

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

Overall length 114 mm

13-184

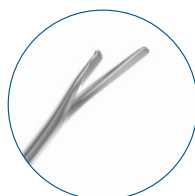
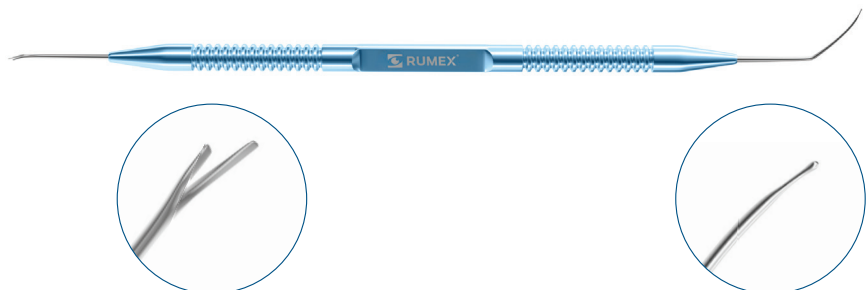


Tan Marginal DMEK Dissector

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

Curved single-tipped end is used for convenient separation of the membrane from the stroma.
Overall length 132 mm

13-185



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

DALK SPATULAS

Trisector for DALK Procedure

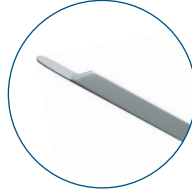
Facilitates separation of rest of stromal attachments from Descemet's membrane at the periphery.

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



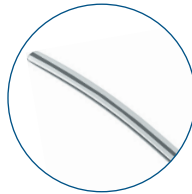
Spatula for DALK Procedure

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



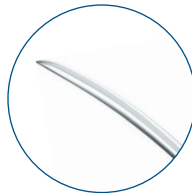
Dissector for DALK Procedure

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 



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

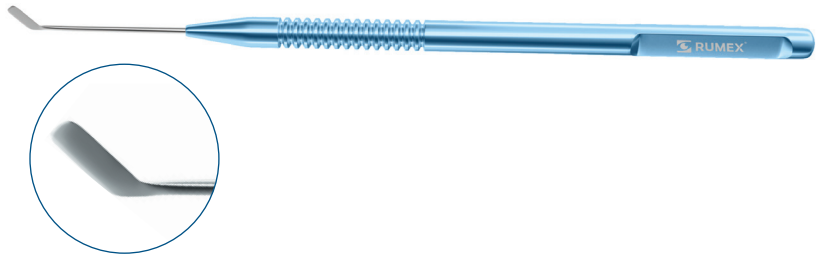
FOREIGN BODY SPUDS

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 ❤️



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 138 mm
20-002



LASIK
Spatula and Flap Retreatment
Instrument

Double-ended
Overall length 133 mm
20-013



REUSABLE ANTERIOR INSTRUMENTS

13 - SPATULAS

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

LASEK SPATULAS

LASEK Epithelial Micro Hoe

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

Overall length 122 mm

20-131



LASEK Knife

The sharp anterior part of the knife is used to detach epithelium from the incision.

The blunt part of the knife is for repositioning of the epithelium after the ablation.

Overall length 128 mm

20-0011



SMILE SPATULAS

Stodulka

ReLEx Smile Double Lenticule Spatula

Blunt spoon and flat spatula

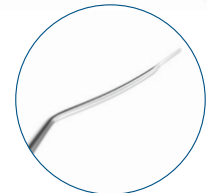
Overall length 130 mm

20-207

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 129 mm

20-2071



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



Flat shortened spatula



SMILE Lenticule Removing Spatula

Double-function tool

Overall length 120 mm

20-2073

Delicate reversed hook for easy identification and capture of lenticule edge



Modified spatula for smooth and safe removal



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

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 



**Zaldivar
FemtoLASIK Spatula**

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

20-203 



REUSABLE ANTERIOR INSTRUMENTS

13 - SPATULAS

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

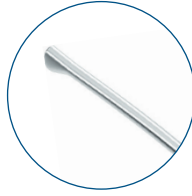
ICL™ SPATULAS

Pallikaris ICL™ Manipulator

Designed to place the lens corners under the iris.

Sandblasted tip
Overall length 123 mm

13-141



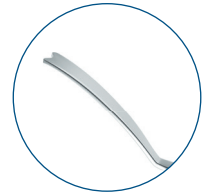
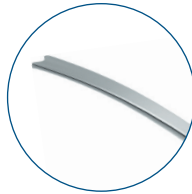
ICL™ — registered trademark of STAAR®

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™ — registered trademark of STAAR®

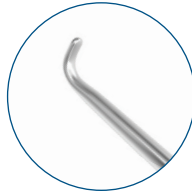
ICRS SPATULAS

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

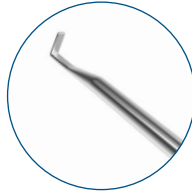


Suarez Spreader

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

Straight shaft
Tip dimensions: 0.10 mm height, 0.60 mm width, 1.25 mm length
Overall length 122 mm

13-146

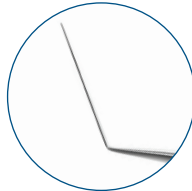


Bicalto Guide

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

Blunt tip
Tip dimensions: 0.30 mm height, 0.10 mm width, 5.00 mm length
Overall length 121 mm

13-147

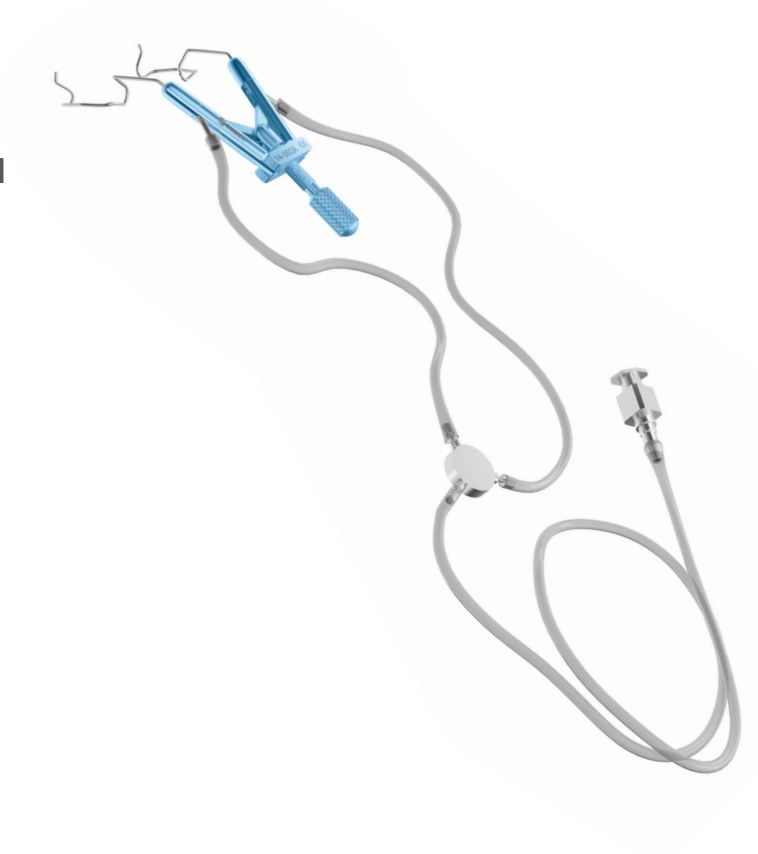


SPECULUMS

SPECULUMS WITH ASPIRATION

Thumb-screw control to adjust lid tension

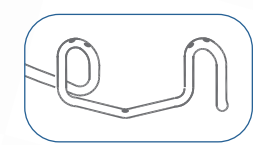
Ports on each blade allow continuous aspiration providing better vision during the operation.



Kershner Style

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 

Child Lieberman Style

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

14-082A Child

Lieberman Style for LASIK

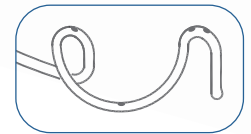
Temporal
Rounded open blades, 14.00 mm
Overall length 78 mm

14-080LA Adult

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

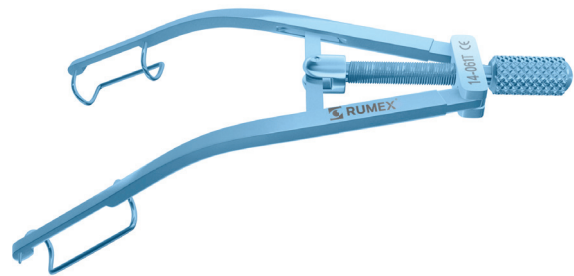
Temporal
 Solid blades, 16.00 mm
 Overall length 70 mm
 Titanium
 14-045T



CASTROVIEJO SPECULUMS

Castroviejo Speculum

Temporal
 Fenestrated blades, 14.00 mm
 Blades spread 30.00 mm
 Flat handle
 Overall length 85 mm
 Titanium
 14-061T Adult ❤️

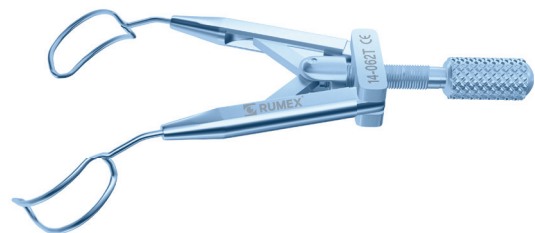


REVERSIBLE SPECULUMS KERSHNER STYLE

Can be used both for nasal and temporal approach.

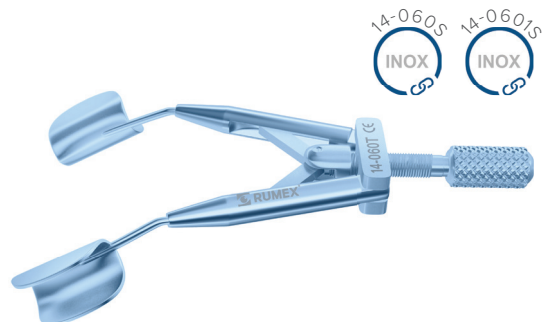
Kershner Reversible Speculum

Fenestrated blades, 14.00 mm
 Flat handle
 Overall length 70 mm
 Titanium
 14-062T Adult



Kershner Reversible Speculum

Adult
 Solid blades, 14.00 mm
 Overall length 70 mm
 Titanium
 14-060T Round handle | ❤️
 14-0601T Flat handle



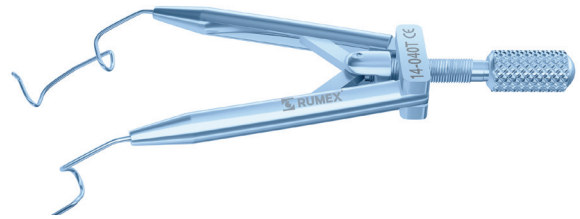
TEMPORAL SPECULUMS LIEBERMAN STYLE

Thumb-screw control to adjust lid tension

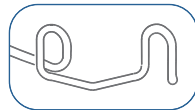
Temporal Speculum

Lieberman Style

Titanium



«V» style open blades, 14.00 mm
Round handle
Overall length 76 mm



14-040T Adult ❤️

«V» style open blades, 10.00 mm
Round handle
Overall length 60 mm

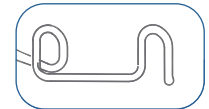


14-042T Child

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

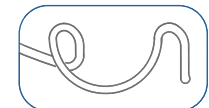
14-0401T Adult ❤️

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



14-0401TK Adult ❤️

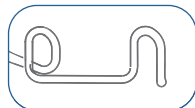
For LASIK
Rounded open blades, 14.00 mm
Round handle
Overall length 76 mm



14-040TL Adult ❤️

Specially designed to accommodate microkeratome suction ring.

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



14-040TK Adult ❤️

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

14-0401TL Adult

TEMPORAL FEMTO SPECULUMS

Slade-Murdoch Speculum

Adjustable Speculum with Lath Mechanism

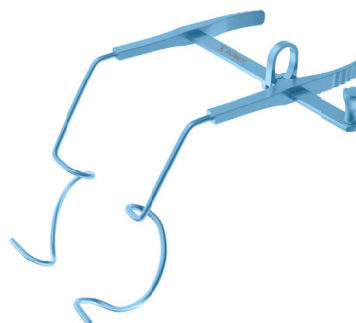
Parallel retraction design. Quick installation and removal due to self-locking mechanism. Blades specially curved to facilitate laser docking without increasing external pressure.

Temporal

Open 14.00 mm blades

Overall length 54 mm

14-052T



SAUER SPECULUMS

Temporal

Solid blades

Blade spread 20.00 mm

Overall length 35/25/20 mm

14-030 Child (8.00 mm blades)

14-031 Newborn (5.00 mm blades)

14-032 Premature (4.00 mm blades)



NASAL SPECULUMS LIEBERMAN STYLE

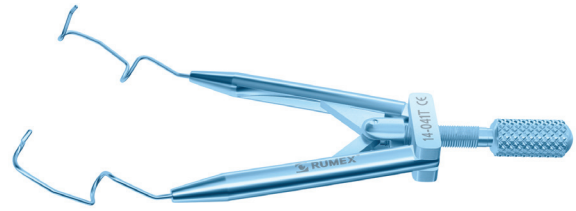
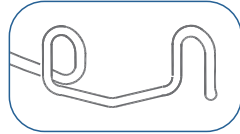
Thumb-screw control to adjust lid tension

Nasal Speculum Lieberman Style

Titanium

«V» style open blades
14.00 mm
Round handle
Overall length 70 mm

14-041T Adult 

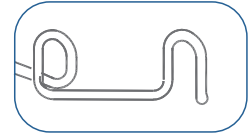


«V» style open blades,
10.00 mm
Round handle
Overall length 60 mm

14-043T Child

Kratz style open blades,
14.00 mm
Round handle
Overall length 70 mm

14-041TK Adult

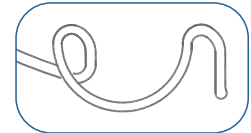


«V» style open blades,
14.00 mm
Flat handle
Overall length 70 mm

14-0411T Adult

For LASIK
Rounded open blades,
14.00 mm
Flat handle
Overall length 70 mm

14-0411TL Adult



Specially designed to accommodate microkeratome suction ring.

«V» style open blades,
10.00 mm
Flat handle
Overall length 60 mm

14-0431T Child

BARRAQUER WIRE SPECULUMS

Angled for temporal approach

Stainless Steel



Closed rounded wire blades

14.00 mm blades
Overall length 45 mm

14-022S Adult

11.00 mm blades
Overall length 38 mm

14-023S Child

10.00 mm blades
Overall length 38 mm

14-024S Infant

4.00 mm blades
Overall length 25 mm

14-0244S Newborn



Solid blades

14.00 mm blades
Overall length 40 mm

14-0221S Adult

11.00 mm blades
Overall length 35 mm

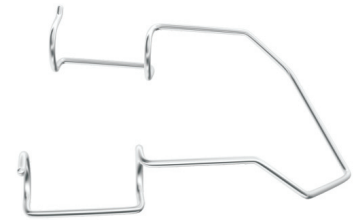
14-0231 Child

5.00 mm blades
Overall length 28 mm

14-0241S Newborn

4.00mm blades
Overall length 28 mm

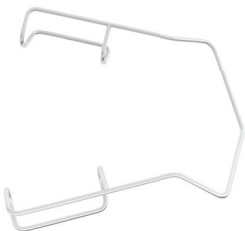
14-0222S Premature



Open wire blades

14.00 mm blades
Overall length 45 mm

14-025S Adult



Closed wire blades

14.00 mm blades,
Overall length 40 mm

14-028S Adult

11.00 mm blades,
Overall length 36 mm

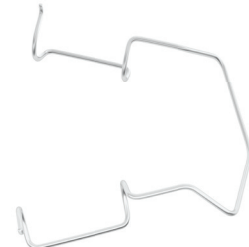
14-0281S Child



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

CANNULAS

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

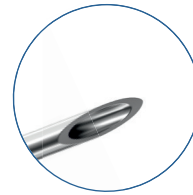
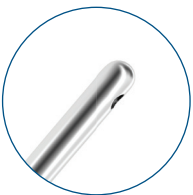
Sheets Irrigating Vectis

3 irrigating ports
Serrations on top
Loop 6.50 mm wide, 19.00 mm long

15-203 21 Ga × 38 mm

ANESTHESIA CANNULAS

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



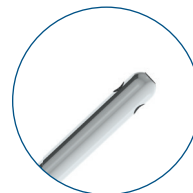
Sub-Tenon's Anesthesia Cannula

Curved
0.30 mm side-port

15-009 19 Ga × 25 mm

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

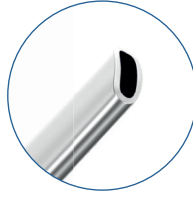
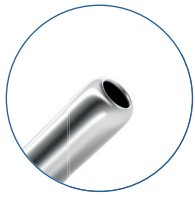
Sub-Tenon's Anesthesia Cannula

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



6 mm angled tip

15-052-27 27 Ga × 22 mm

8 mm angled tip

15-053-27 27 Ga × 22 mm



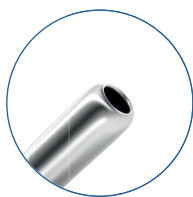
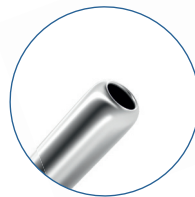
Bishop-Harmon Anterior Chamber Cannula

8 mm angled tip

Angled 40°

Spatulated

15-055-19 19 Ga × 25 mm



McIntyre Anterior Chamber Cannula

Angled 45°

Smooth blunt tip

Front opening

15-061-26 26 Ga × 20 mm

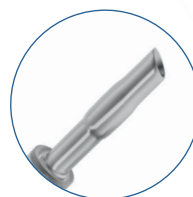
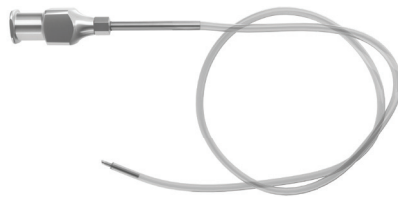
Irrigating Cannula

Straight

Blunt polished tip

15-049-23 23 Ga × 25 mm

15-049-30 30 Ga × 25 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 × 3.50 mm tip

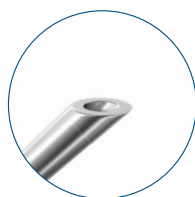


Jaymce Anterior Chamber Maintainer

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



Girard Anterior Chamber Maintainer

Atkinson tip

27.5 cm silicone tubing

15-067 23 Ga × 5 mm tip

IRRIGATING/ASPIRATING CANNULAS

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

Simcoe I/A Cannulas

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

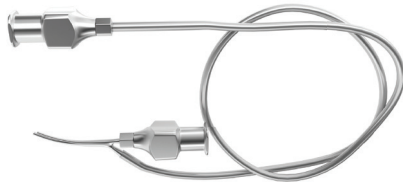
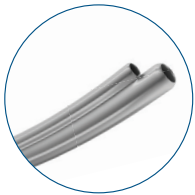
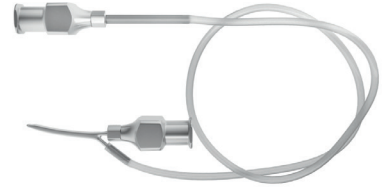
15-129-0.3 23/23 Ga

15-129-0.4 23/23 Ga 

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

15-133-0.3 23/23 Ga

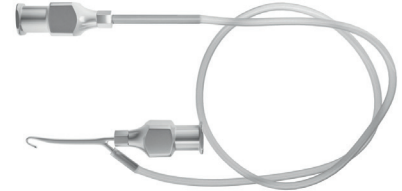
15-133-0.4 23/23 Ga



Gills I/A Cannula

Side by side front opening

15-119 23/23Ga



J-Shaped I/A Cannula

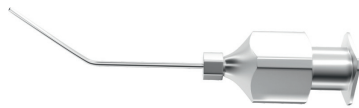
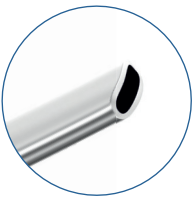
Regular

"J" shape facilitates removal of cortex at 12 o'clock position
0.30 mm top port

15-1149R 23/23 Ga, Right

HYDRODISSECTION 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 tip

15-071-23 23 Ga × 22 mm

15-071-25 25 Ga × 22 mm

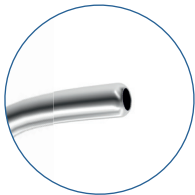
15-071-27 27 Ga × 22 mm 



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 



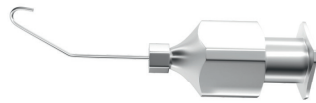
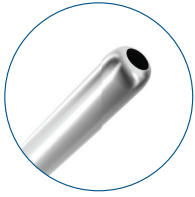
Pearce J-Shaped Micro Hydrodissector

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

CORTEX REMOVAL CANNULAS

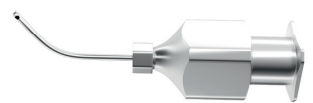
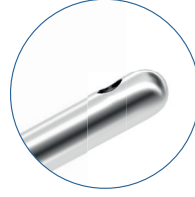
Used to remove cortical material during phacoemulsification.



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

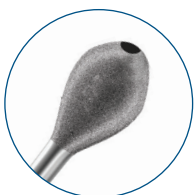
15-170 23 Ga × 25 mm



Kratz Capsule Polisher

0.30 mm side-port
Angled, blasted 3.00 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

REUSABLE ANTERIOR INSTRUMENTS

15 - CANNULAS

GLAUCOMA CANNULAS

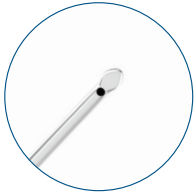


Viscocanalostomy Cannula

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

15-1051-30 30 Ga × 20 mm

DALK CANNULAS



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 

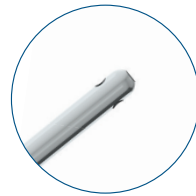
REFRACTIVE CANNULAS



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

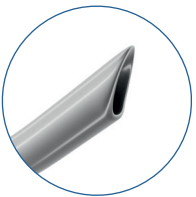
15-371-25 25 Ga × 22 mm



Buratto LASIK Irrigation Cannula

3 irrigating ports of 0.25 mm

15-379-25 25 Ga × 32 mm



Slade LASIK Cannula

Flattened spatulated tip

15-376 26 Ga × 25 mm



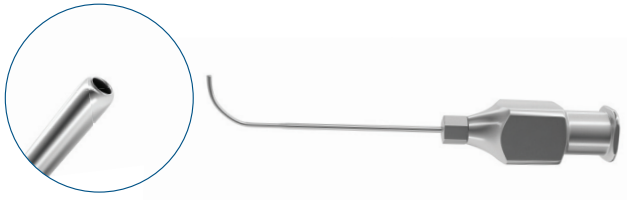
Banaji LASIK Irrigation Cannula

Curved
4 ports of 0.25 mm

15-373-25 25 Ga × 22 mm 

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

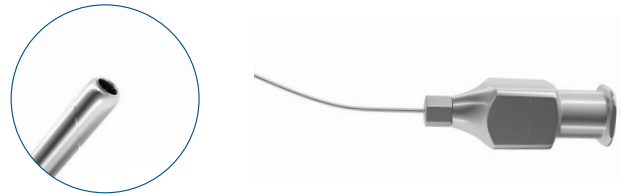
15-031 23 Ga × 15 mm ♥



Shahinian Lacrimal Cannula

Smooth bullet shape tip

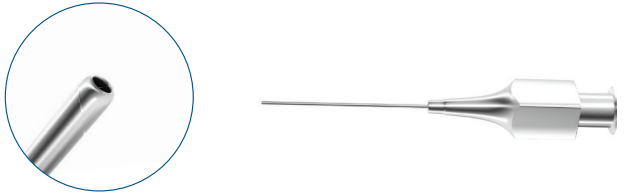
15-032 25 Ga × 35 mm



Fasanella Lacrimal Cannula

Gently curved

15-033 23 Ga × 42 mm



Anel Lacrimal Cannulas

Special long mount blunt tip
Straight

15-035-23S 23 Ga × 20 mm
15-035-25S 25 Ga × 20 mm ♥



Anel Lacrimal Cannulas

Special long mount blunt tip
Curved

15-035-23C 23 Ga × 20 mm
15-035-25C 25 Ga × 20 mm ♥

ACCESSORIES

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



Silicone Bulb with Adapter
15-301/303 ♥



Titanium Microsurgical Handle

Male-Male (shown) 15-307T
Male-Female 15-308T

MISCELLANEOUS

INJECTORS

Injector for Capsular Ring with Irrigation

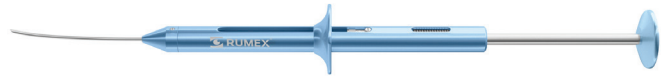
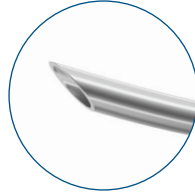
Designed for one-hand implantation of the capsular tension rings with diameters of 10, 11 and 12 mm.

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 



Compatible with MORCHER® CTRs Type 14 (14, 14A, 14C) or similar original shape with 10 mm, 11 mm and 12 mm diameter (compressed).

Not to be used with rings of sinusoidal shape (MORCHER® CTR Type 10C or similar); rings with additional fixation eyelet (MORCHER® Cionni Rings or similar); rings with bent eyelet (MORCHER® CTR Type 13 or similar).

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 used with **4-2141T IOL Loading Forceps**.
Overall length 212 mm

16-2806* For A, B, C cartridges

16-2808* For D cartridge 



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 used 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 and other sizes**

Overall length 178.5 mm

16-2853*



Disposable Cartridges for IOL Injector**

To be used with Reusable IOL Injector **16-2853** for foldable one-piece IOLs

CAT-22 for 2.20 mm incision

CAT-24 for 2.40 mm incision

CAT-26 for 2.60 mm incision

STERILE  



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

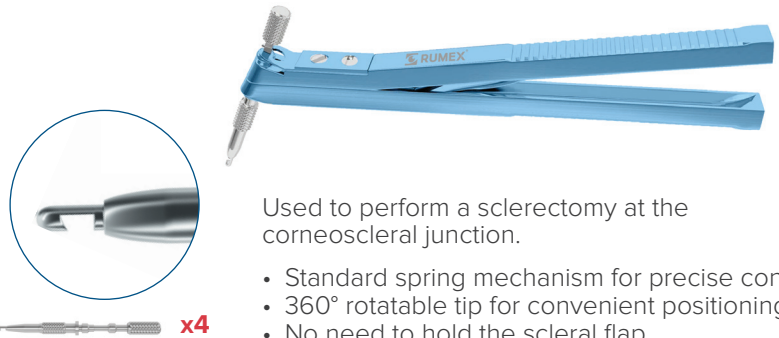
16-136 size 0



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 



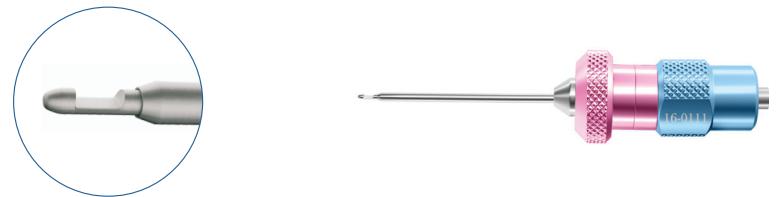
Used to perform a sclerectomy at the corneoscleral junction.

- Standard spring mechanism for precise control
- 360° rotatable tip for convenient positioning
- No need to hold the scleral flap

Micro Trabeculectomy Punch

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

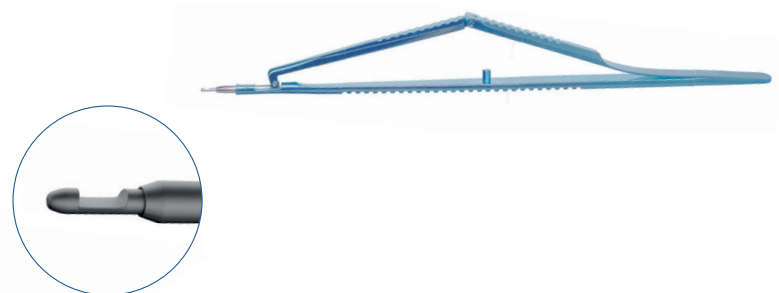
16-0111* 20 Ga



**Kelly
Descemet's Membrane Punch**

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

16-011 



*Tip only. Handles are sold separately.

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

REUSABLE ANTERIOR INSTRUMENTS

16 - MISCELLANEOUS

SPOONS & CURETTES

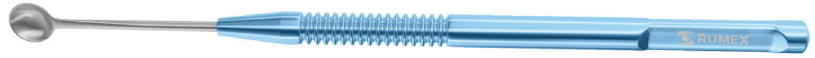
Bunge Evisceration Spoon

Titanium Handle/Stainless Steel Tip
Small size
Overall length 137 mm

16-061

Large size
Overall length 141 mm

16-062



Meyerhoefer Chalazion Curette

Titanium Handle/Stainless Steel Tip
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)

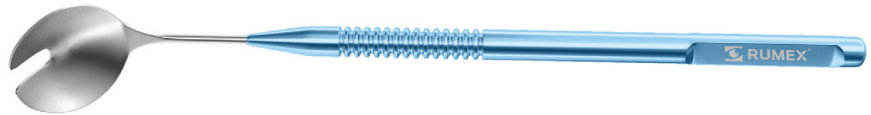
16-067 size 4 (3.50 mm)



Wells Enucleation Spoon

Titanium Handle/Stainless Steel Tip
Overall length 145 mm

16-060

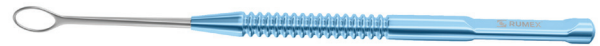


SCLERAL DEPRESSORS

Flynn Scleral Depressor

Loop style tip for depressing pediatric sclera
Titanium Handle/Stainless Steel Tip
Overall length 100 mm

16-115



Schocket Double-Ended Scleral Depressor

With pocket clip
Titanium Handle/Stainless Steel tips
Overall length 143 mm

16-111

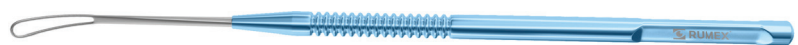


LENS LOOPS

Wilder Lens Loop

4.00 mm width
Titanium Handle/Stainless Steel Tip
Overall length 134 mm

16-072




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.

16-051-2.5 With a 2.50 mm  Diamond Dusted Round Fine Grit Burr

16-050-3.5 With a 3.50 mm  Diamond Dusted Round Medium Grit Burr

16-050-5.0 With 5.00 mm Diamond Dusted Disk-Shaped Medium Grit Burr



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

16-051-2.5B Diamond Round Fine Grit Burr, 2.50 mm 

16-051-3.5B Diamond Round Medium Grit Burr, 3.50 mm 

16-052-5.0B Diamond Disk-Shaped Medium Grit Burr, 5.00 mm 



Rust Rings Remover Replacement Burrs

5 per box, reusable, non-sterile

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


REUSABLE ANTERIOR INSTRUMENTS

16 - MISCELLANEOUS

DISPOSABLE ELECTRIC EYE CAUTERIES

Electric Eye Cautery

Battery operated
Low temperature

16-041 fine tip 

STERILE  



FIXATION RINGS

Fine-Thornton Phaco Fixation Ring

3/4 open ring with swivel
Titanium

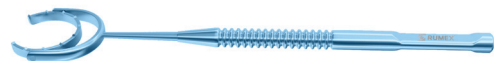
13.00 mm diameter ring with teeth
Overall length 96 mm

16-036T

14.00 mm diameter ring with teeth
Overall length 98 mm

16-034IT 

16-036S
INOX 



FLIERINGA RINGS

Flieringa Rings

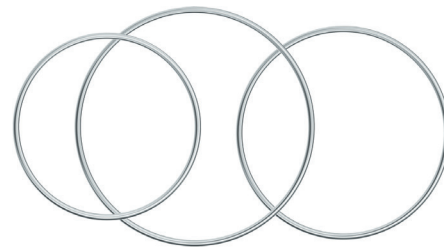
Sutured to the sclera to support the globe during difficult eye operations.

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)



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



TREPHINES

Corneal Trephine Blades

Polished finish
Stainless Steel

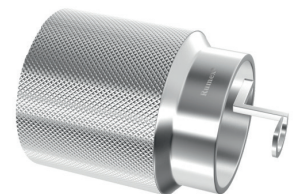


16-0300	6.00 mm	16-0307	8.00 mm
16-0301	6.50 mm	16-0308	8.25 mm
16-0303	7.00 mm	16-0309	8.50 mm
16-0305	7.50 mm	16-0310	9.00 mm
16-0306	7.75 mm	16-0311	9.50 mm

TUNNEL MAKERS

Tunnel Maker

ID 4.40 mm/ED 5.60 mm
Stainless Steel

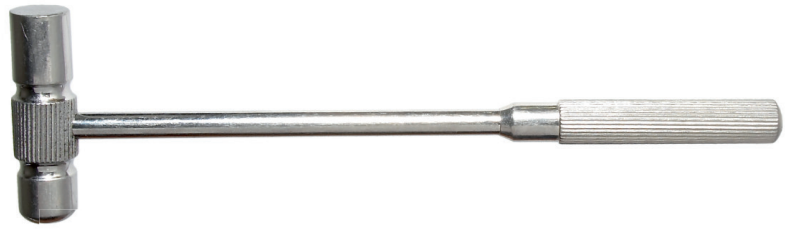


16-173S Left
16-174S Right

SURGICAL MALLETS & CHISELS

Surgical Mallet

Polished finish
Overall length 177 mm
Stainless Steel
16-135



Surgical Chisel

3.00 mm
Overall length 136 mm
Stainless Steel
16-137



NASAL SPECULUMS

Nasal Speculum

Adult size
Polished finish
Stainless Steel
Overall length 150 mm
16-127



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

LID PLATES

Lid Plate

20.00 mm and 24.00 mm wide
Nonreflecting surface
Overall length 110 mm

16-50T Titanium



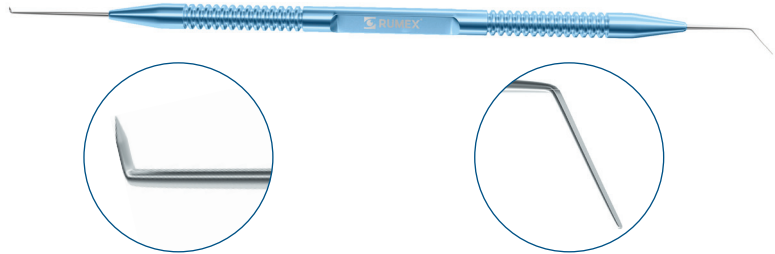
LASEK/LASIK INSTRUMENTS

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

SPATULAS

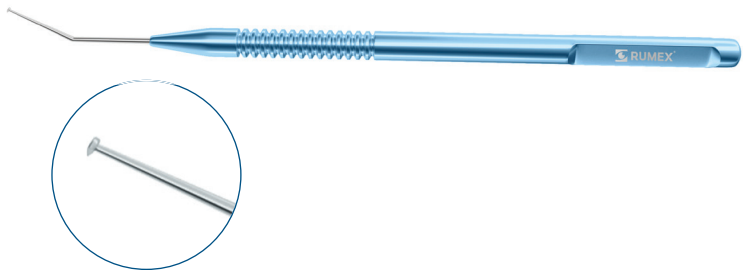
LASIK Spatula and Flap Retreatment Instrument

Double-ended
Overall length 133 mm
20-013



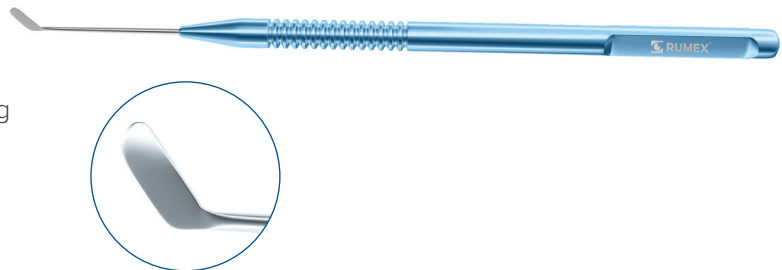
LASEK Epithelial Micro Hoe

Can be used to detach edge of the epithelium flap.
Overall length 122 mm
20-131



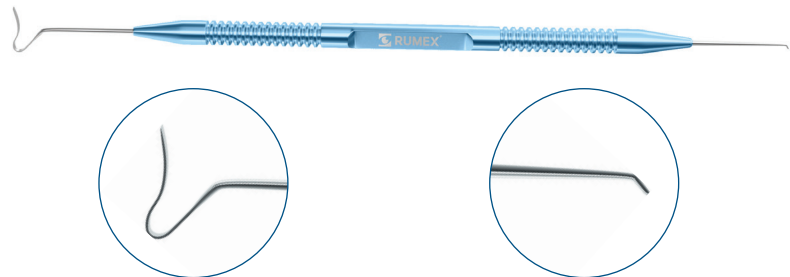
LASEK Knife

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



FemtoLASIK Flap Spatula

Double-ended
A delicate pick and a curved spatula to open and manipulate the flap
Overall length 128 mm
20-201 ❤️



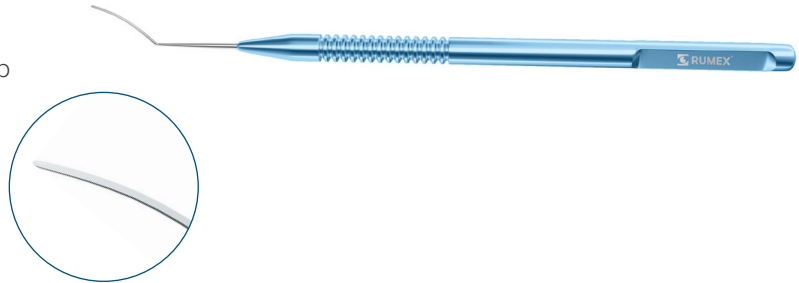
Stainless Steel Tips with an ergonomic light-weight round Titanium handle

SPATULAS

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 

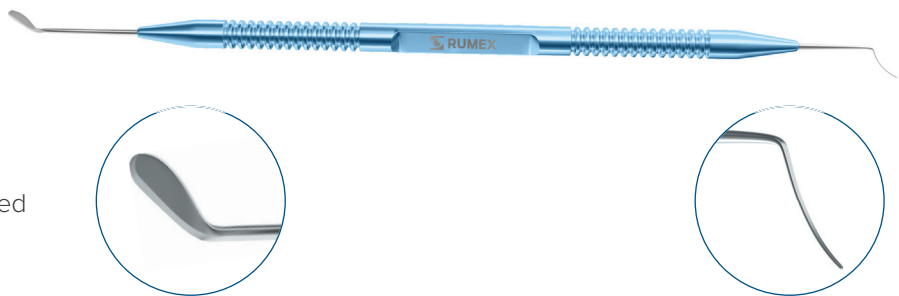


Lindstrom LASIK/PRK Spatula and Epithelium Removal Board

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 138 mm

20-002



REUSABLE ANTERIOR INSTRUMENTS

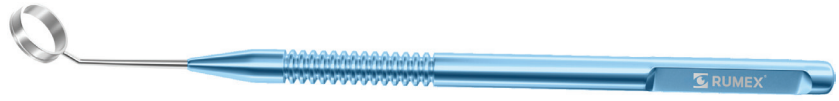
17 - LASEK/LASIK INSTRUMENTS

TREPHINES & FUNNELS

LASEK Trephine

For epithelial flap creation
Depth of the incision 70 µm
Titanium Handle/Stainless Steel Tip
Overall length 128 mm

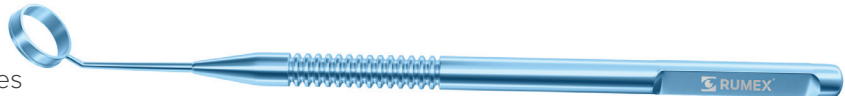
20-1011 8.00 mm
20-1021 9.00 mm



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 Trephine & Funnel

For epithelial flap creation
Depth of the incision 70 µm
For application of alcohol solution
For 8.00 mm and 9.00 mm optical zones
Titanium Handle/Titanium & Stainless Steel Tips
Overall length 147 mm

20-121 8.00 & 8.50 mm
20-122 9.00 & 9.50 mm



MARKING PENS

Disposable Marking Pen

Double-ended

20-050* 

STERILE



STERILIZATION TRAYS

Size Chart

Item	Inserts	Dimensions		Size	Configuration	Accommodates, number of instruments
		mm	in			
Plastic Trays						
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	254×152.4×38	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
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

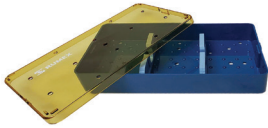
REUSABLE ANTERIOR INSTRUMENTS

18 - STERILIZATION TRAYS

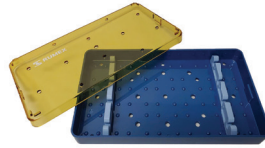
PLASTIC TRAYS

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.

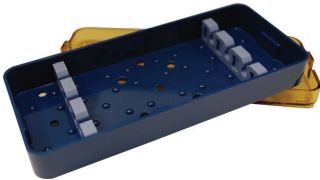
**AUTOClave
STEAM
DRY HEAT
CHEMICAL**



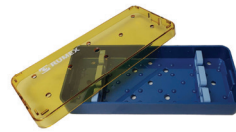
18-300
Silicone inserts
for 1 instrument
190×101×38 mm
7.5×4×1.5 in



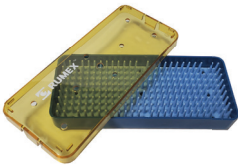
18-303-1
Silicone inserts
for 4 instruments
190×101×19 mm
7.5×4×0.75 in



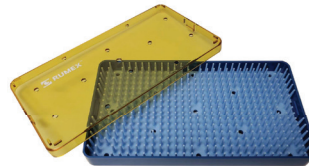
18-305-1
Silicone inserts
for 3 instruments
254×152.4×38 mm
10×6×1.5 in



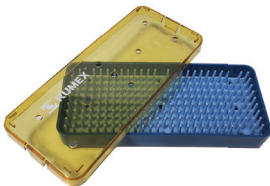
18-301-1
Silicone inserts
for 2 instruments
152×63.5×19 mm
6×2.5×0.75 in



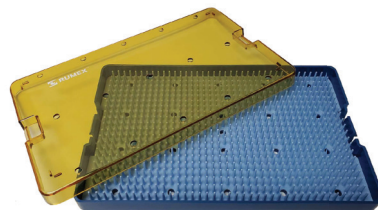
18-301 ♥
152×63.5×19 mm
6×2.5×1.5 in



18-300-1
190×101×38 mm
7.5×4×1.5 in

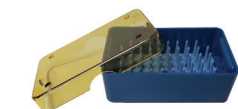


18-308 ♥
190.5×63.5×19 mm
7.5×2.5×0.75 in



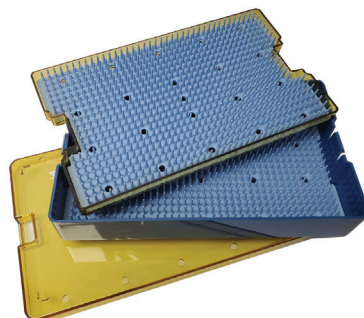
18-302 ♥
165×101×19 mm
6.5×4×0.75 in

18-303 ♥
190×101×19 mm
7.5×4×0.75 in



18-307
68.6×38×25.4 mm
3×1.5×1 in

18-304 ♥
254×152×19 mm
10×6×0.75 in

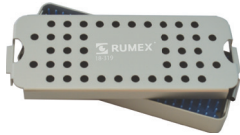


18-305 ♥
Double Level
254×152.4×38 mm
10×6×1.5 in

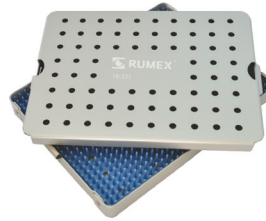
ALUMINUM TRAYS

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.

AUTOCLAVE
STEAM
DRY HEAT
CHEMICAL



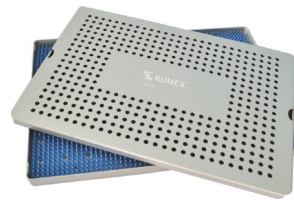
18-319
155×65×20 mm
6×2.5×0.8 in



18-331
215×165×20 mm
8.5×6.5×0.8 in

18-320
155×65×40 mm
6×2.5×1.5 in

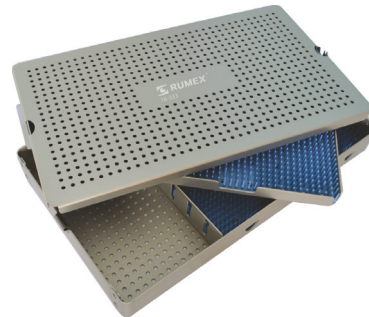
18-321
200×65×20 mm
2.5×7.75×0.8 in



18-332
310×235×20 mm
12.25×9.25×0.8 in



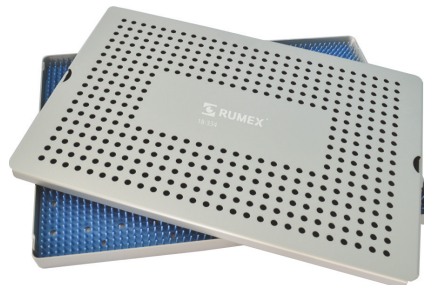
18-322
200×110×20 mm
7.75×4.25×0.8 in



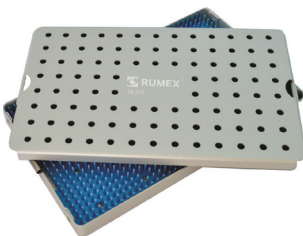
18-333
Double Level +
Open Section
375×220×45 mm
14.75×8.75×1.75 in

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



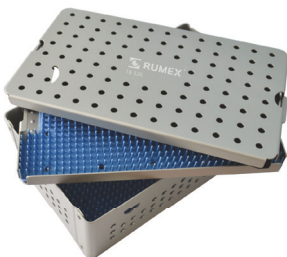
18-334
390×265×20 mm
15.5×10.5×0.8 in



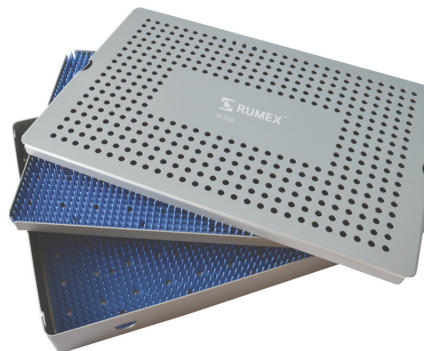
18-325
260×160×40 mm
10.25×6.25×1.5 in

18-328
260×160×80 mm
10.25×6.25×3.25 in

18-335
390×265×40 mm
15.5×10.5×1.5 in



18-326
Double Level
260×160×40 mm
10.25×6.25×1.5 in



18-336
Double Level
390×265×40 mm
15.5×10.5×1.5 in

18-327
Double Level
260×160×80 mm
10.25×6.25×3.25 in

VITREORETINAL INSTRUMENTS & CONSUMABLES

REUSABLE INSTRUMENTS

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A VARIETY OF OPTIONS FOR VITREORETINAL SURGERY

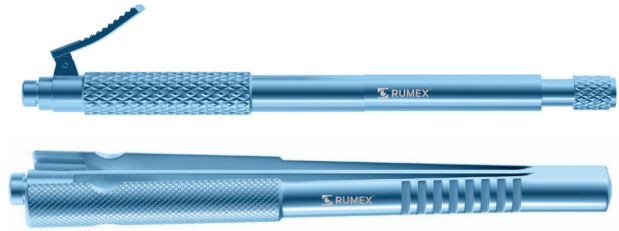
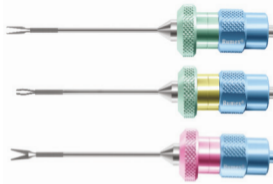
REUSABLE

**EASY
TO CLEAN**

Option 1. Two-Piece Instruments

Universal Handle + Interchangeable Tips*

Money-Wise
Solution



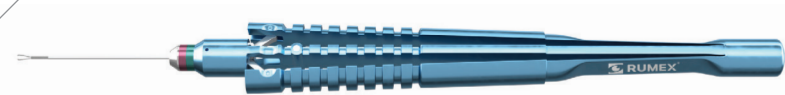
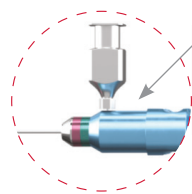
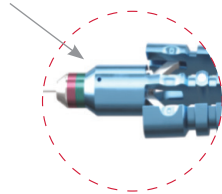
Completely detachable for most effective cleaning.
One handle for the set.

Option 2. One-Piece Instruments

with Innovative RUMEX Flushing System

Flushing port

Flushing cannula



Easy cleaning without disassembling

Complete tool – no need to adjust the tip to the handle

Delicate cleaning – flushing liquid streams towards the tips with zero stress for the jaws

Increased lifespan – the inner mechanism is not involved into the cleaning process and stays intact

DISPOSABLE

**READY
FOR USE**

STERILE



Option 1. All Stainless Steel Instruments

Precise performance and instant tactile control

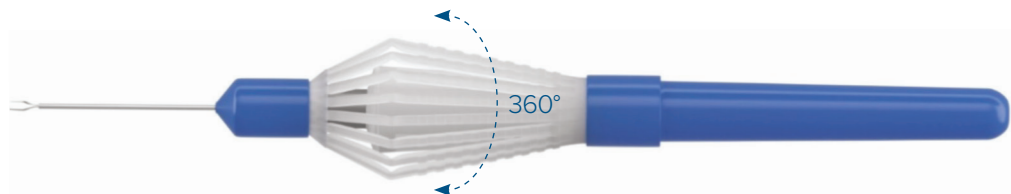
SHELF LIFE
3 YEARS



Option 2. Ergonomic 360-Degree Handle**

Enhanced utility due to rotatable squeeze handle

SHELF LIFE
5 YEARS



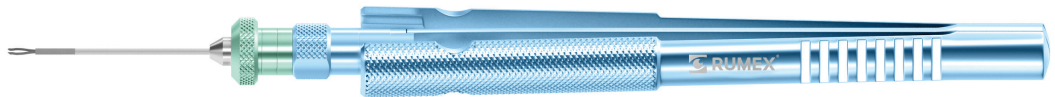
* Tip only. Handles are sold separately.

**Not available in Europe

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

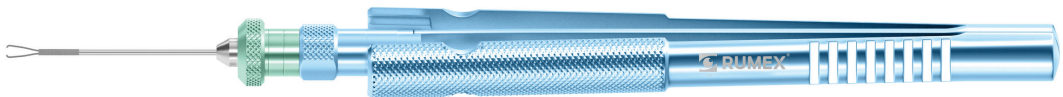


Universal End-Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.



- 12-420-23 23 Ga
- 12-420-25 25 Ga
- 12-420-27 27 Ga
- Tip only

End-Grasping Forceps

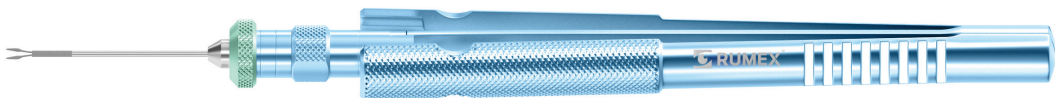


The special design of the tips promotes delicate, precise and safe ILM peeling. The strengthened jaws ensure enhanced gripping power. Expanded space between branches contributes to greater visualization of the grasped membrane in the macular area.



- 12-4013 23 Ga
- Tip only

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
- Tip only



HANDLES FOR VITREORETINAL INSTRUMENTS

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

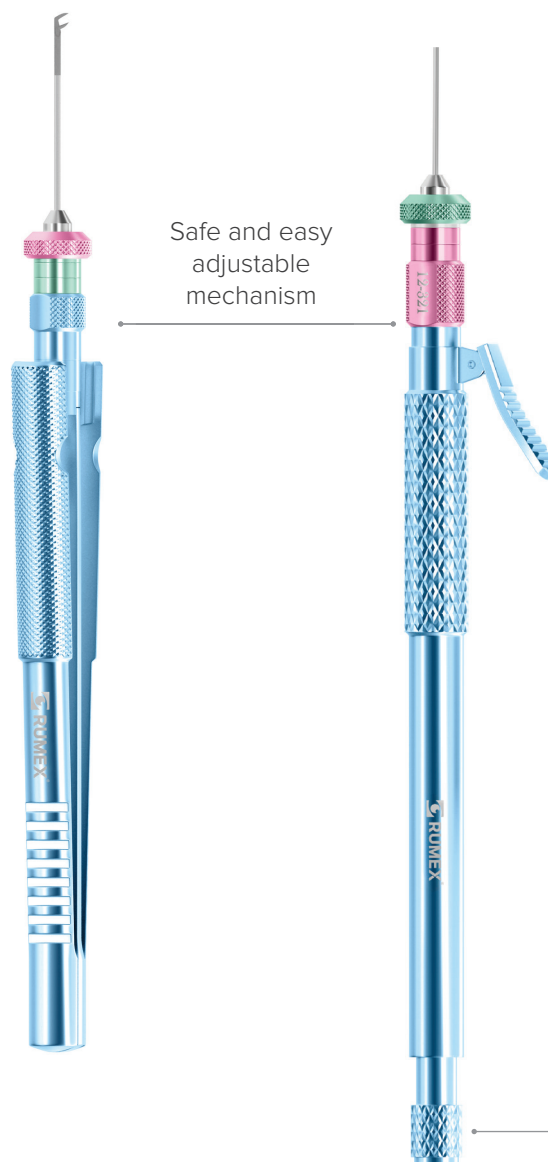
- Made of Titanium
- Corrosion resistant
- Can be used with tips of any gauge 20/23/25/27 (and other gauges)

Ergonomic Model

Two Fingers Control
Squeeze Handle

12-003T 

- Two fingers linear actuation
- Ergonomic handle with specially designed gripping area for amplified control over the instrument
- Optimal diameter round handle allows 360° rotation
- Non compatible with the following tips: 12-206, 12-313, 12-321, 12-335



Classic Model

One Finger Control
Handle

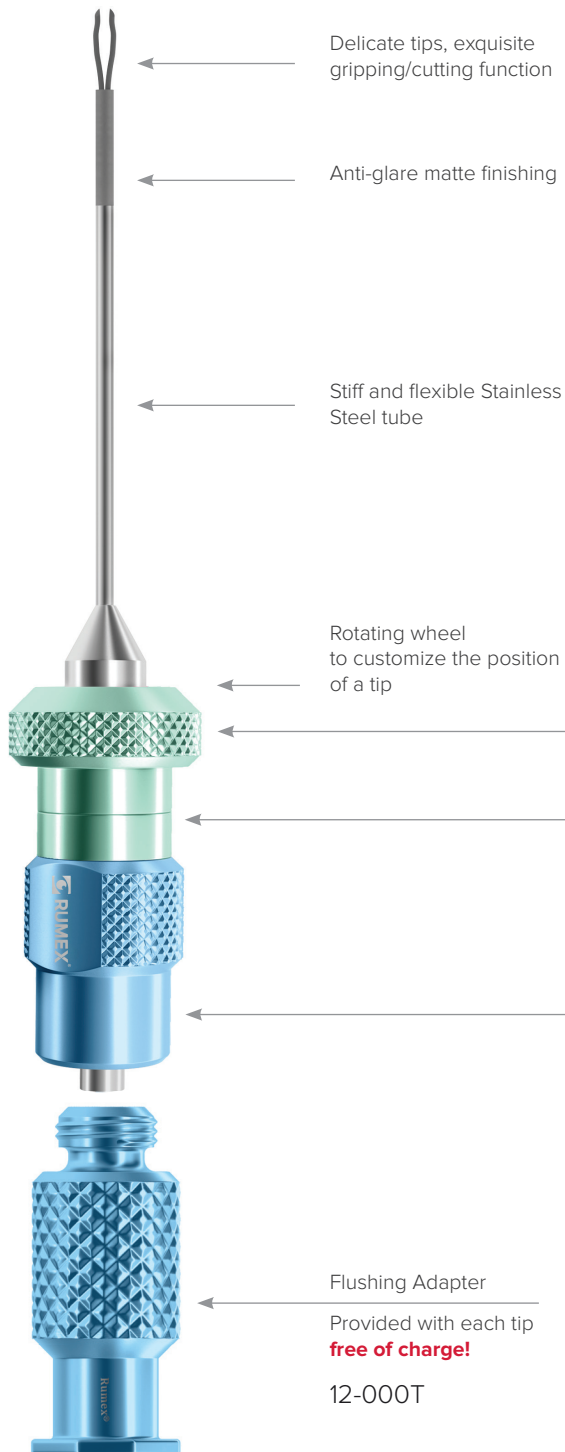
12-001T 

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

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

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

SCISSORS*

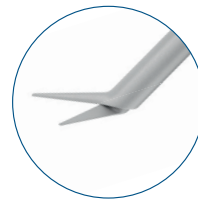
Designed for cutting membranes and junction zones of the proliferative tissue.



Vertical Scissors

70°
Sharp tips

12-202-23 23 Ga



Horizontal Scissors

55°

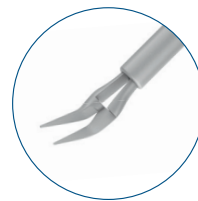
12-206** 20 Ga



Vertical Scissors

45°

12-2029 25 Ga

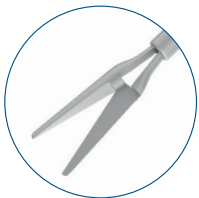


Horizontal Scissors

Angled
45°

Short blades (1.70 mm
in the closed position)

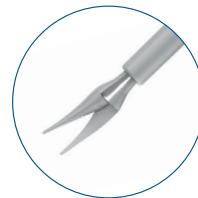
12-2085 20 Ga



Straight Scissors

Blunt tips

12-211 20 Ga



Curved Subretinal Scissors

Curvature radius 12.00 mm

12-209 20 Ga

12-209-23 23 Ga

12-2099 25 Ga



*Tip only. Handles are sold separately.

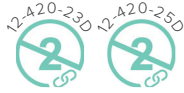
** Compatible with Universal Handle 12-001T Only

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
12-420-25 25 Ga
12-420-27 27 Ga

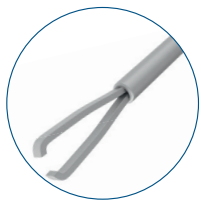
Designed for myopic eyes.
Elongated tube, 30.00 mm

12-4202-23 23 Ga

Enhanced visualization!

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

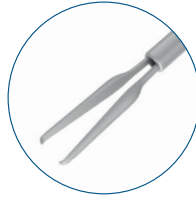
Expanded space between branches

12-4013 23 Ga

Enhanced visualization!

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.

ILM



Eckardt End-Gripping Forceps

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



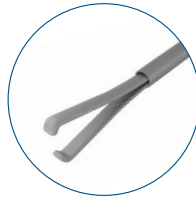
ILM



Tano Asymmetrical End-Gripping Forceps

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

NEW

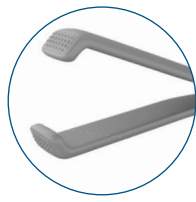


End-Grasping ILM Forceps with Texturized Outer Platform

- Increased friction between tissue and forceps
- Can be used as ILM elevator

12-450-23 23 Ga

Enhanced cohesion!



Tanaka Maculorhexis Forceps

12-414 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

EPIRETINAL (ERM) 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






12-301-23	23 Ga
12-3019	25 Ga



End-Gripping Forceps
With extended gripping area at the end of the tip


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	♥



End-Gripping Forceps
With nail-shaped jaws

12-402-23	23 Ga
12-4089	25 Ga

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

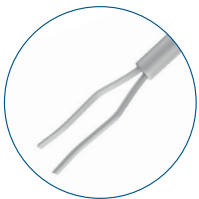
PICK FORCEPS*



Pick Forceps

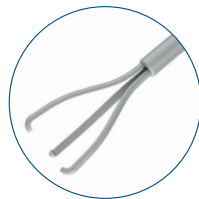
12-325-23 23 Ga
12-3259 25 Ga

FOREIGN BODY REMOVAL FORCEPS*



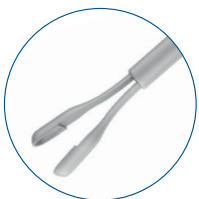
Avci Foreign Body Forceps

12-412*** 17 Ga



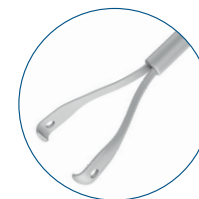
Spring Gripping Forceps

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



Vitreoretinal Forceps

With cup jaws
12-313** 20 Ga



Stolyarenko Forceps

For large foreign bodies
12-335** 20 Ga

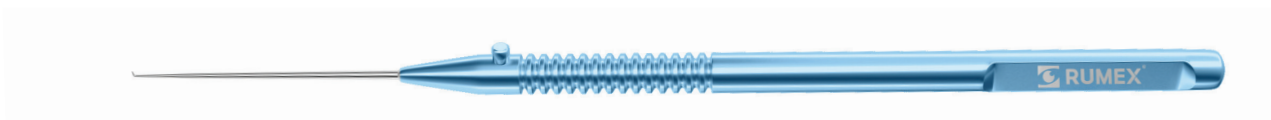
*Tip only. Handles are sold separately.

** Compatible with Universal Handle 12-001T only


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

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

MEMBRANE INSTRUMENTS



Delicate Membrane Pick

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

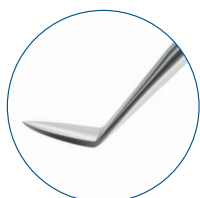
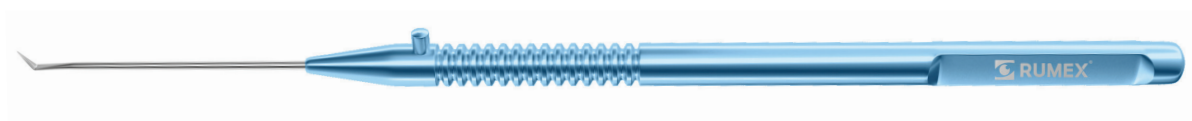
- Unique geometry of the tip for maximal effectiveness and minimal shredding of the tissue
- Jut on the handle identifies the tip orientation
- Titanium Handle/Stainless Steel Tip



Membrane Scratcher

13-092 20 Ga

- Flat, thin instrument to remove tissue and fine membranes from retinal surface in early stages of PVR
- Useful for cleaning residual ERM or ILM
- Great for lifting of large membrane edges without shredding



Ogura PVD Spatula

Titanium Handle/Stainless Steel Tip
 Overall length 132
 13-1081-23 23 Ga



BRVO Knife

Designed for performing a lateral CRVO incision.
 Titanium Handle/Stainless Steel Tip
 Overall length 135
 13-1091-23 23 Ga

23 GAUGE INSTRUMENTS*



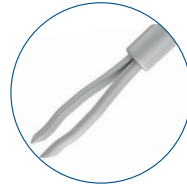
ILM



12-410-23D
12-410-23DP

Eckardt End-Gripping Forceps

12-410-23 23 Ga ❤️



Asymmetrical End-Gripping Forceps

Designed for myopic eyes. Elongated tube, 30.00 mm

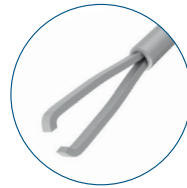
12-4202-23 23 Ga

Enhanced visualization!



Tano Asymmetrical End-Gripping Forceps

12-411-23 23 Ga



End-Gripping Forceps

Expanded space between branches

12-4013 23 Ga

Enhanced visualization!

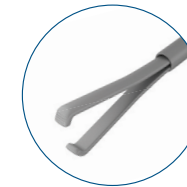


12-420-23D

Asymmetrical End-Gripping Forceps

12-420-23 23 Ga

Enhanced visualization!



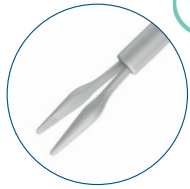
End-Gripping ILM Forceps with Texturized Outer Platform

- Increased friction between tissue and forceps
- Can be used as ILM elevator

12-450-23 23 Ga ✦

Enhanced cohesion!

ERM



12-301-23D

Gripping Forceps

With a sandblasted platform

12-301-23 23 Ga



12-304-23D

Gripping Forceps

With a "crocodile" platform

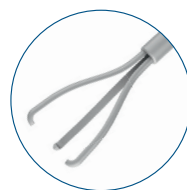
12-304-23 23 Ga ❤️



Vertical Scissors

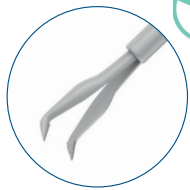
70°
Sharp tips

12-202-23 23 Ga ❤️



Spring Gripping Forceps

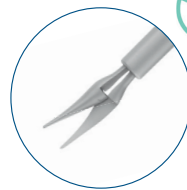
12-321-23 23 Ga ❤️



12-325-23D

Pick Forceps

12-325-23 23 Ga

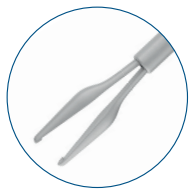


12-209-23D

Curved Subretinal Scissors

Curvature radius 12.00 mm

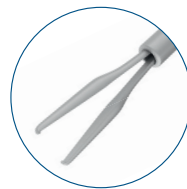
12-209-23 23 Ga ❤️



End-Gripping Forceps

With extended gripping area at the end of the tip

12-4012 23 Ga



End-Gripping Forceps

With nail-shaped jaws

12-402-23 23 Ga

*Tip only. Handles are sold separately.

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

VITREORETINAL INSTRUMENTS & CONSUMABLES

25 GAUGE INSTRUMENTS*



ILM



12-410-25D
12-410-25DP

Eckardt End-Gripping Forceps

12-410-25 25 Ga



Tano Asymmetrical End-Gripping Forceps

12-411-25 25 Ga



12-420-25D

Asymmetrical End-Grasping Forceps

12-420-25 25 Ga

Enhanced visualization!

ERM

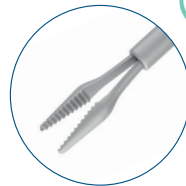


12-301-25D

Gripping Forceps

With a sandblasted platform

12-3019 25 Ga



12-304-25D

12-304-25DP

Gripping Forceps

With a "crocodile" platform

12-304-25 25 Ga

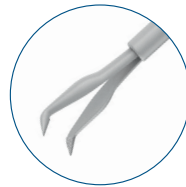


12-202-25DP

Vertical Scissors

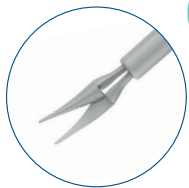
45°
Sharp tips

12-2029 25 Ga



Pick Forceps

12-3259 25 Ga

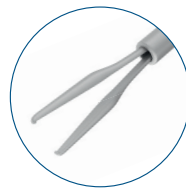


12-209-25D
12-209-25DP

Curved Subretinal Scissors

Curvature radius 12 mm

12-2099 25 Ga



End-Gripping Forceps

With nail-shaped jaws

12-4089 25 Ga

27 GAUGE INSTRUMENTS*



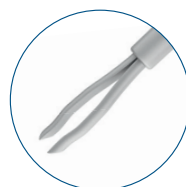
ILM



12-410-27DP

Eckardt End-Gripping Forceps

12-410-27 27 Ga

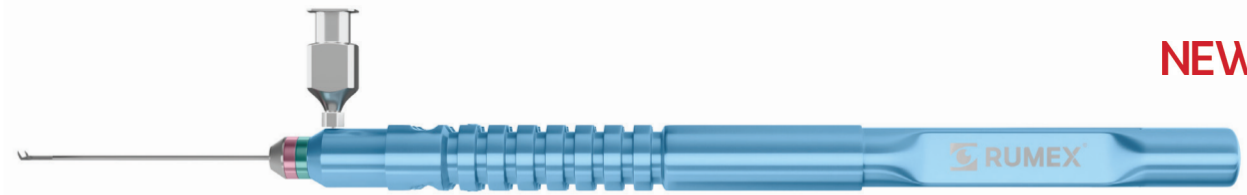


Asymmetrical End-Grasping Forceps

12-420-27 27 Ga

Enhanced visualization!

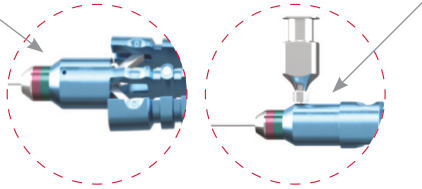
ONE-PIECE VITREORETINAL INSTRUMENTS WITH RUMEX FLUSHING SYSTEM



NEW

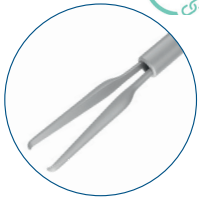
Flushing port

Flushing cannula




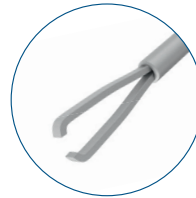
The tip can be easily cleaned without disassembling.
Special flushing cannula is provided for free!

ILM



Eckardt End-Grasping Forceps

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



End-Grasping Forceps

Expanded space
between branches

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

Enhanced visualization!

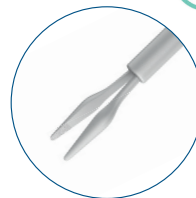
ERM



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



Curved Subretinal Scissors

Curvature radius 12.00 mm

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

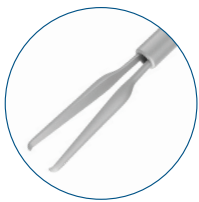
DISPOSABLE ONE-PIECE STAINLESS STEEL INSTRUMENTS

STERILE  

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



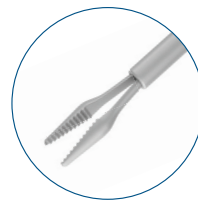
ILM



Eckardt End-Gripping Forceps

12-410-23D 23 Ga 
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

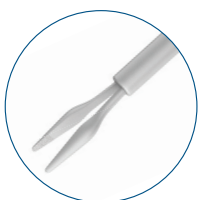
12-420-23D 23 Ga
12-420-25D 25 Ga



Pick Forceps

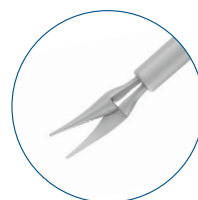
12-325-23D 23 Ga
12-325-25D 25 Ga

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 

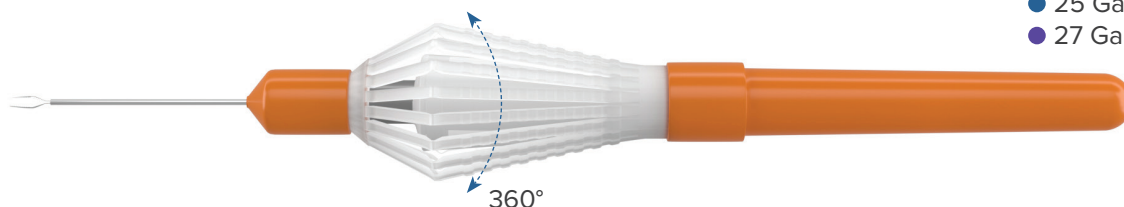
VITREORETINAL INSTRUMENTS & CONSUMABLES

DISPOSABLE INSTRUMENTS WITH PLASTIC HANDLE*

STERILE  

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  

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

SOFT SILICONE TIP is safe for retinal surface.
DIAMOND DUSTED finish provides an extreme grip.

RETRACTABLE VERSION enables easy insertion through the trocar cannula



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



DISPOSABLE ONE STEP TROCAR SYSTEMS*



Each set includes:

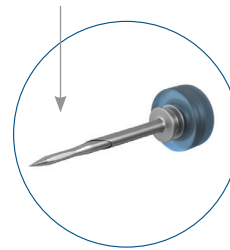
- Trocar knife with preloaded trocar cannula – 3 pcs
- Self-sealing trocar cannula (preloaded) – 3 pcs
- Universal infusion line – 1 pc

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



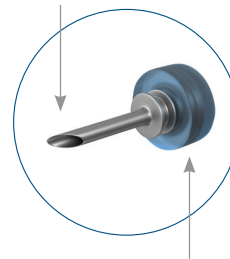
Sharp MVR Blade

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



Trocar Cannula

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



Silicone Closure Valves

Removable self-sealing valves ensure maintenance of the desired intraocular pressure 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: 3.00 and 4.00 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

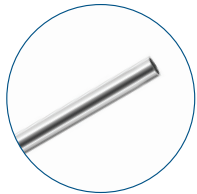
VITREORETINAL INSTRUMENTS & CONSUMABLES

DISPOSABLE BACKFLUSH INSTRUMENTS*

STERILE  

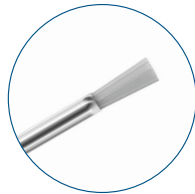
One-piece instrument combines a handle and a soft, brush or blunt tip cannula. The set comes with two connectors for active and passive aspiration. Used for intraocular fluids and debris aspiration during vitreoretinal surgery.

- 23 Ga
- 25 Ga
- 27 Ga



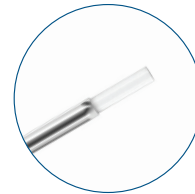
with **Blunt Tip**

- 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

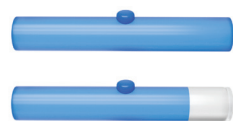
BACKFLUSH HANDLES AND RESERVOIRS





Reusable Backflush Handle

Titanium

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



Disposable Replacement Reservoir for Backflush Handle*

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

STERILE  

VITREORETINAL CANNULAS


Disposable Backflush Cannulas*

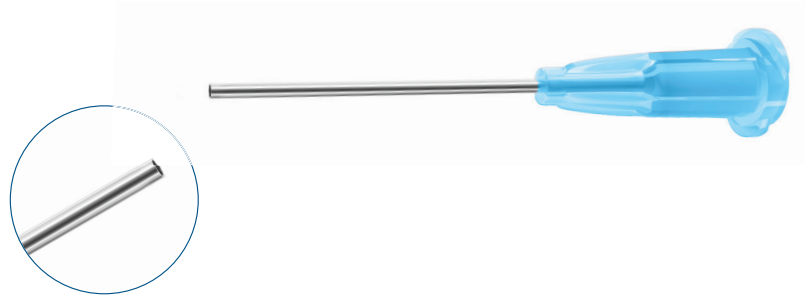
STERILE  

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.

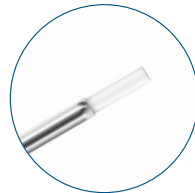
- 12-5164 23 Ga x 34 mm 
- 12-5156 25 Ga x 34 mm
- 12-5492 27 Ga x 34 mm



Soft Tip Cannulas

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

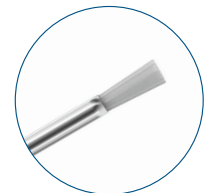
- 12-5161 23 Ga x 34 mm 
- 12-5152 25 Ga x 34 mm 
- 12-5491 27 Ga x 34 mm



Brush Tip Cannulas



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

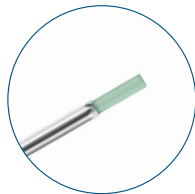
- 12-5162 23 Ga x 34 mm
- 12-5160 25 Ga x 34 mm
- 12-5167 27 Ga x 34 mm





Green Soft Tip Cannulas

Colored for Enhanced Visualization

- 12-6123 23 Ga x 34 mm 
- 12-6125 25 Ga x 34 mm 



NEW

STERILE  

Dual Bore Cannulas*

STERILE  

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**

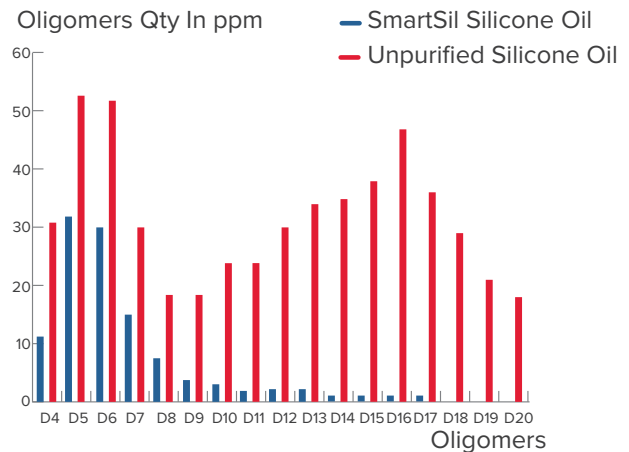
Purified Silicone Oil for Vitreoretinal Surgery

- 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**

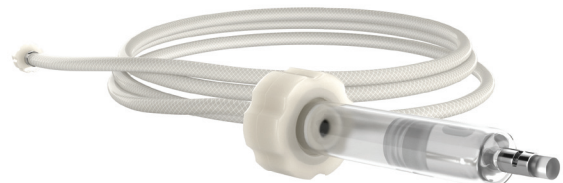
Physico-chemical properties

Interfacial tension	≥ 40 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



Silicone Oil Infusion System is sold separately



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



*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
IOL Tech® Pentasys™ Optikon® Antares™ Alcon® STTO™ Storz® Premiere™ DORC® Harmony Budget™	12-RTUB-1
Reusable Tubing System for the Infusion Of Silicone Oil, Caprolone Adapter Adjustable To DORC® Associate™, EVA™, EVA NEXUS™; Alcon® Constellation™, Accurus™	12-RTUB-2 
B&L® Millenium™, Stellaris™	12-RTUB-3
Oertli® Orbit™, Faros™, OS3™ Optikon® R-Evolution®	12-RTUB-4

STERILE  

Disposable Viscous Fluid Injection Cannulas*

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

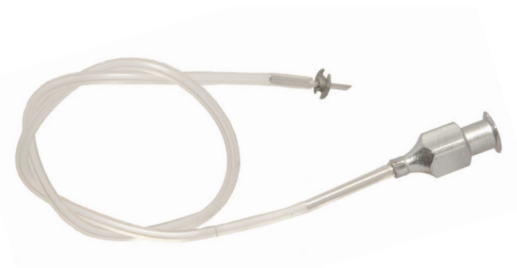


- 12-5248 23 Ga x 4.00 mm
- 12-5258 25 Ga x 4.00 mm

Infusion Cannula

Reusable Infusion Cannula

- 12-025 20 Ga
Self-retaining hub of 4.00 mm
- 12-026 20 Ga
Self-retaining hub of 6.00 mm



*Not available in Europe

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

FEATURED SETS

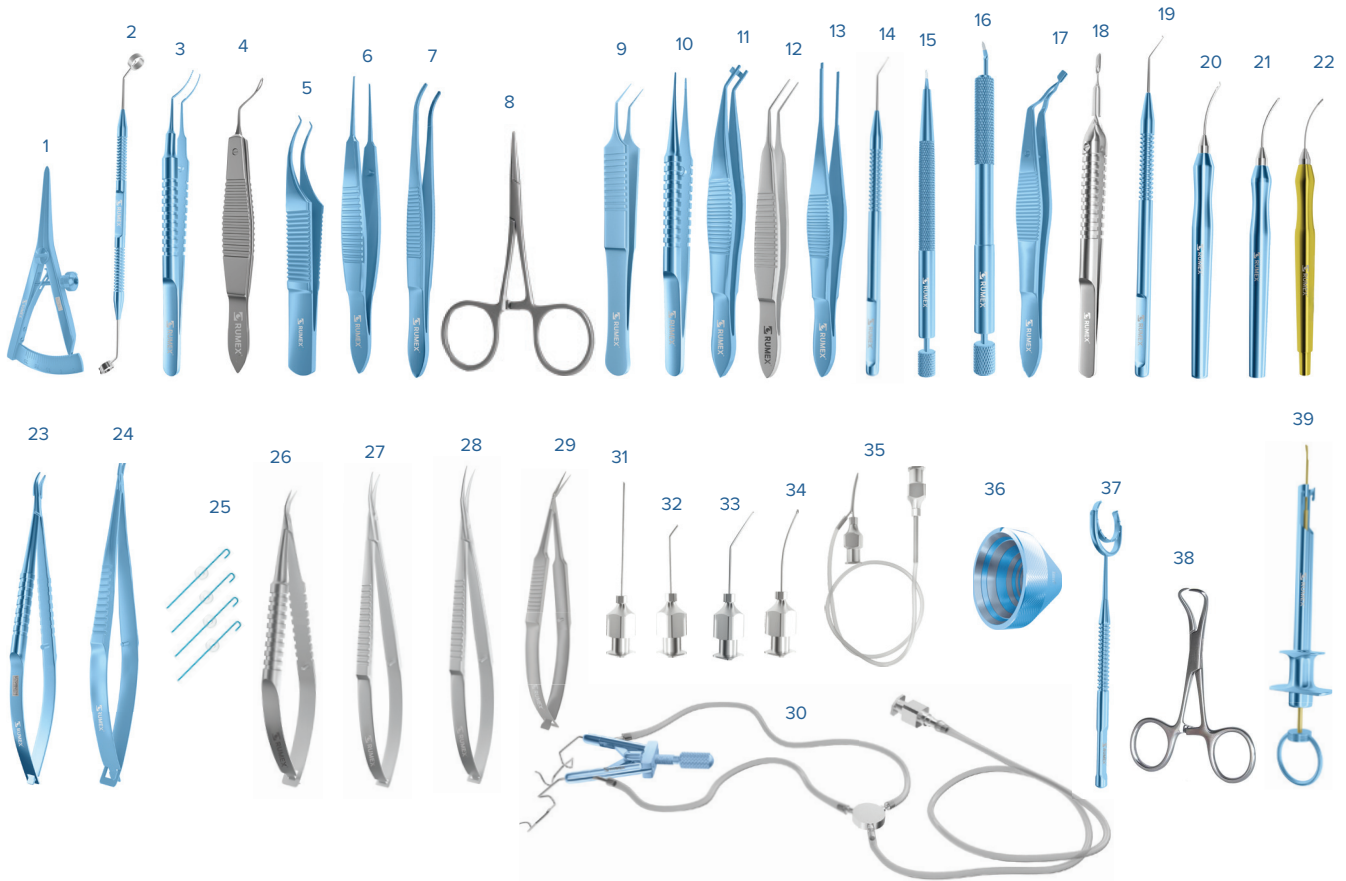
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VITREORETINAL DISPOSABLE SET, 25 GA	176

All sets are advisory, if a surgical technique or professional preference requires a customized set, please contact us.



FEATURED SETS

CATARACT PHACOEMULSIFICATION SET

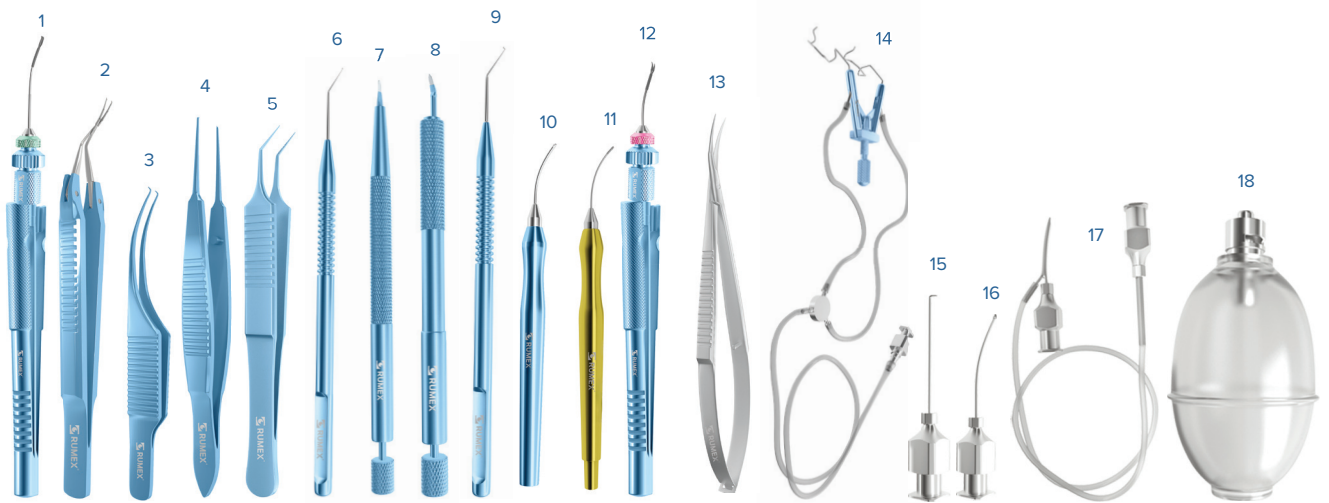


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3-040	2	Whipple Capsulorhexis Centration Marker	45	7-0821	22	Aspiration Handpiece for Bimanual Technique, 22 Ga	93
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4-174T	9	McPherson Angled Tying Forceps	76	11-0581S	29	Gills-Vannas Capsulotomy Scissors	103
4-185T	10	Tennant Straight Tying Forceps	77	14-080A	30	Lieberman Temporal Speculum with Aspiration	115
4-2107T	11	Steinert Paddle Lens Folding Forceps	64	15-025	31	Kelman Sharp Irrigating Cystotome, 25 Ga	123
4-2108S	12	Faulkner Lens Holding Forceps	64	15-051-27	32	Rycroft Anterior Chamber Cannula, 27 Ga	121
4-2141T	13	Cartridge Loading Forceps, for Inserting IOL	64	15-071-25	33	McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga	122
5-030	14	Kuglen Iris Hook, Angled	79	15-170	34	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
5-032*		Sinsky Hook, Angled	79	15-129-0.3	35	Simcoe I/A Cannula, 23/23 Ga	122
5-034*		Bechert Nucleus Rotator	79	16-020T	36	Maloney Intraoperative Keratometer	43
6-10/6-053	15	Diamond Knife, Trifacet Blade, 1.00 mm	82	16-0341T	37	Fine Thornton Fixation Ring with Swivel	130
6-20/6-107	16	Diamond Knife, Self-Diving Trapezoid Blade, 2.00/2.30 mm	83	16-081S	38	Towel Forceps	74
7-025T	17	Ernest Nucleus Cracker	86	16-2806	39	IOL Injector for A, B, C Cartridges	126
7-1163S	18	Akahoshi Hybrid Combo Prechopper	87	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
7-063	19	Nagahara Phaco Chopper RHD (LHD*)	88				
7-064*			88				
7-0634/I	20	Lesieur Hydrochopper, 20 Ga	91				

*not shown

CATARACT

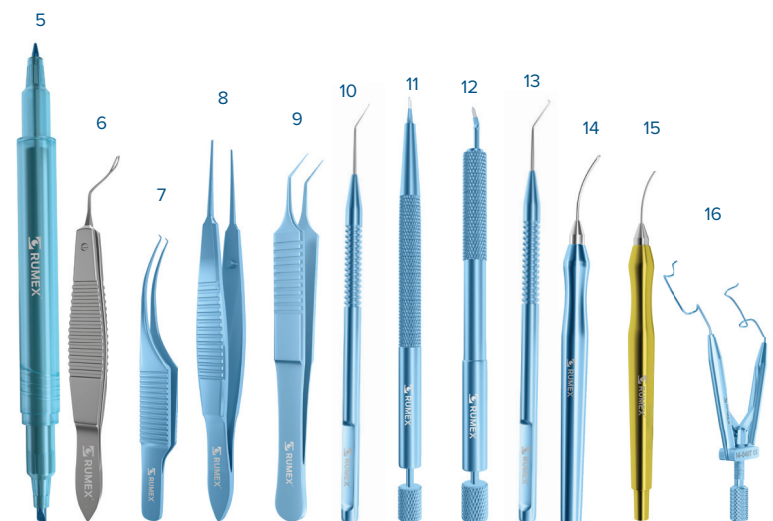
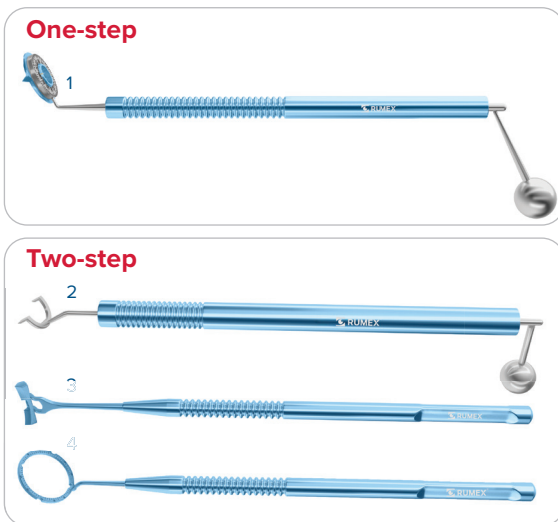
BIMANUAL MICROPHACO (MICS) SET



Reference	Key	Description	Page	Reference	Key	Description	Page
4-03771/ 12-003T	1	Kawai Capsulorhexis Forceps, Tapered 23/25 Ga shaft/ Universal Squeeze Handle	60 142	7-081	10	Irrigation Handpiece for Bimanual Technique, 21 Ga	92
4-0395	2	Capsulorhexis Forceps with Scale, Cross-Action	52, 58	7-0821	11	Aspiration Handpiece for Bimanual Technique, 22 Ga	93
4-0501T	3	Colibri Corneal Forceps, 0.12 mm 1x2 Teeth	68	11-03741	12	Side-Port Capsulotomy Scissors, Left, 20 Ga	103
4-0600T	4	Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth	75	11-03751*	12	Side-Port Capsulotomy Scissors, Right, 20 Ga /Universal Squeeze Handle	103 142
4-174T	5	McPherson Angled Tying Forceps	76	11-044S	13	Westcott Stitch Scissors	100
5-032	6	Sinskey Hook	79	14-080A	14	Lieberman Temporal Speculum with Aspiration	115
5-034*		Bechert Nucleus Rotator	79	15-0681	15	Chang Nucleus Hydrodissector, 27 Ga	122
6-10/6-053	7	Diamond Knife Trifacet Blade, 1.00 mm	82	15-170	16	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
6-20/6-144	8	Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm	83	15-129-0.3	17	Simcoe I/A Cannula, 23/23 Ga	122
7-063	9	Nagahara Phaco Chopper RHD (LHD)*	88	15-301/303	18	Silicone Bulb with Adapter	125
7-064*			88	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

*not shown

TORIC IOL IMPLANTATION



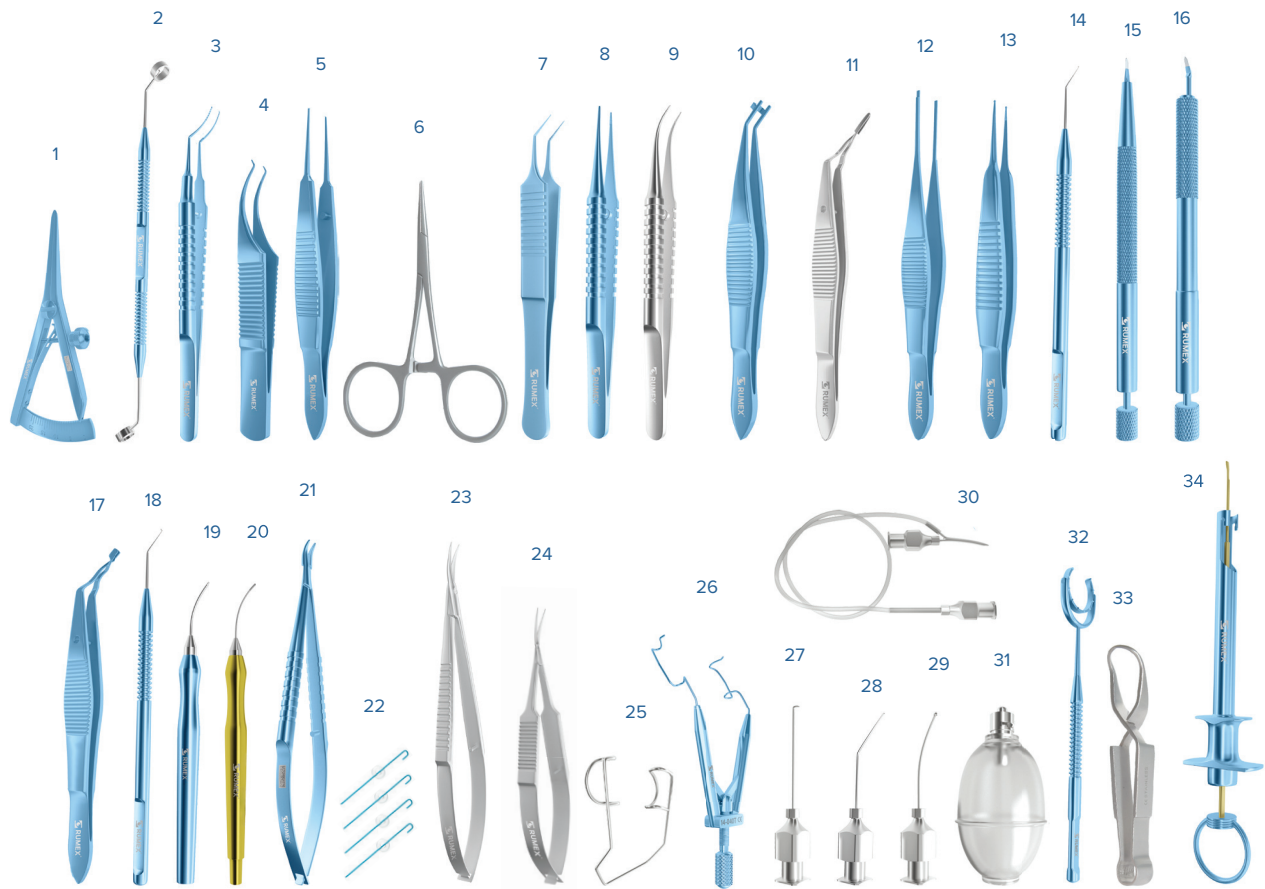
Reference	Key	Description	Page	Reference	Key	Description	Page
3-196	1	Richman Toric Marker	50	6-20/6-144	12	Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm	83
3-193	2	Whitehouse Gravity Axis Marker	49	7-063	13	Nagahara Phaco Chopper RHD	88
3-091T	3	Bores Axis Marker	45	7-064*	13	Nagahara Phaco Chopper LHD	88
2-034T	4	Grooved Fine Mendez Degree	44	7-081-23	14	Irrigation Handpiece for Bimanual Technique, 23 Ga	92
20-050	5	Disposable Marking Pen, Double-Ended, 10 per Box	50, 134	7-0821-23	15	Aspiration Handpiece for Bimanual Technique, 23 Ga	93
4-033S	6	Small-incision Capsulorhexis Forceps with Double Cross-Action and Scale	52, 58	14-040TK	16	Lieberman Temporal Speculum, Adult Size	117
4-050T	7	Colibri Corneal Forceps	68	15-170*		Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
4-0600T	8	Castroviejo Suturing Forceps	75	15-129-0.3*		Simcoe I/A Cannula, 23/23 Ga	122
4-174T	9	McPherson Angled Tying Forceps	79	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
5-032	10	Sinskey Hook, Angled	82				
6-10/6-053	11	Diamond Knife, Trifacet Blade, 1.00 mm					

*not shown

FEATURED SETS

CATARACT

EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET

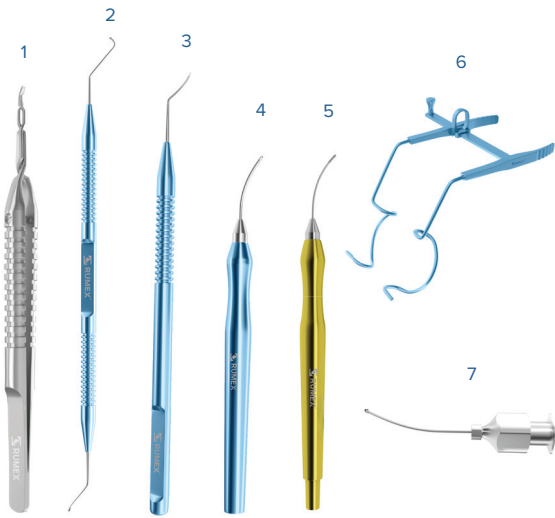


Reference	Key	Description
2-010T	1	Castroviejo Caliper
3-040	2	Whipple Capsulorhexis Centration Marker
4-03315T	3	Utrata Capsulorhexis Forceps with Ruler
4-050T	4	Colibri Corneal Forceps, 0.12 mm 1x2 Teeth
4-0600T	5	Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth
4-120S	6	Hartman Mosquito Forceps, Straight
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

Page	Reference	Key	Description	Page
43	7-025T	17	Ernest Nucleus Cracker	86
45	7-065	18	Rosen Phaco Chopper, Universal	88
51, 55	7-081-23	19	Irrigation Handpiece for Bimanual Technique, 23 Ga	92
68	7-0821-23	20	Aspiration Handpiece for Bimanual Technique, 23 Ga	93
75	8-041T	21	Barraquer Needle Holder, Fine Jaws, w/out Lock	95
74	10-5016-1	22	Disposable Iris Retractors (1 Pack of 4 pcs)	20
76	11-040S	23	Westcott Tenotomy Scissors	102
77	11-058S	24	Gills-Vannas Capsulotomy Scissors	103
77	14-022S	25	Barraquer Wire Speculum, Adult Size	119
64	14-040TK	26	Lieberman Temporal Speculum, Adult Size	117
64	15-0681	27	Chang Nucleus Hydrodissector, 27 Ga	122
65	15-071-25	28	McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga	122
79	15-170	29	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
79	15-129-0.3	30	Simcoe I/A Cannula, 23/23 Ga	122
79	15-301/303	31	Silicone Bulb with Adapter	125
82	16-0341T	32	Fine Thornton Fixation Ring with Swivel	130
83	16-080S	33	Towel Clamp	74
	16-2806	34	IOL Injector for A, B, C Cartridges	26
	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

**CATARACT / REFRACTIVE
FEMTOSECOND CATARACT SET**



Reference	Key	Description	Page
7-149S	1	Escaf Prechopper	87
7-1167S*		Crozafon Prechopper	87
13-181	2	Uy Laser Lens Fragmentation Combo Manipulator	106
20-204*		Spatula for Femtosecond Laser Procedure	106
20-2041	3	Donnenfeld Femto Spatula	106
7-081-23	4	Irrigation Handpiece for Bimanual Technique, 23 Ga	92
7-0821-23	5	Aspiration Handpiece for Bimanual Technique, 23 Ga	93
14-052T	6	Slade-Murdoch Speculum	117
15-170	7	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

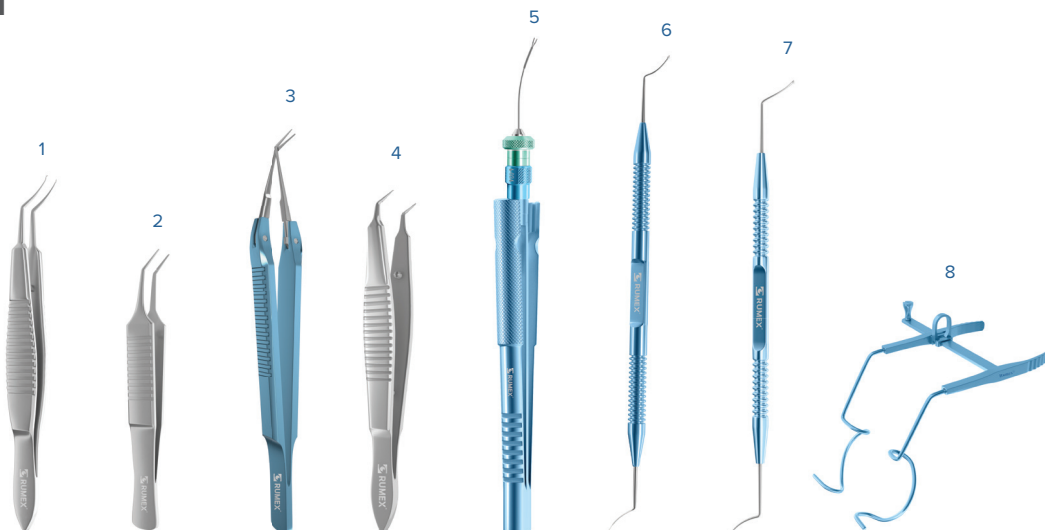
*not shown

LRI SET



Reference	Key	Description	Page
2-034T	1	Grooved Fine Mendez Degree Gauge with 4 Grooves	44
3-091T	2	Bores Axis Marker	45
3-1932	3	Whitehouse Gravity Axis Marker with Reduced Diameters	49
6-322/6-0531	4	Universal Three-Step Diamond Knife for Cataract and LRI Surgery	84
3-1801	5	LRI Marker, 40-60-80°	48
3-183T	6	LRI Marker, Intra-Op, 30- 45-60°	48
18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

SMILE SET

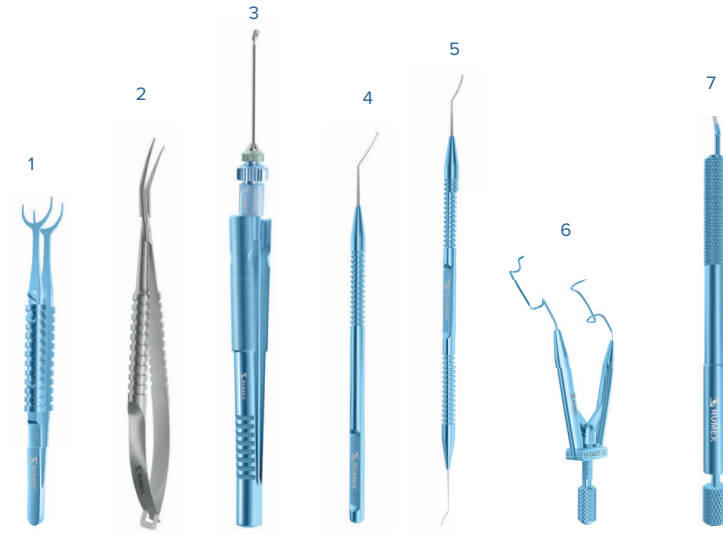


Reference	Key	Description	Page	Reference	Key	Description	Page
4-266S	1	SMILE Lenticule Extraction Forceps with a View-Port	67	20-207	6	Stodulka ReLEx Smile Double Lenticule Spatula (Blunt Spoon and Flat Spatula)	112
4-268S	2	SMILE Lenticule Extraction Forceps with Serrations	67	20-2071*		ReLEx Smile Double Lenticule Spatula (Blunt Spoon and Shortened Flat Spatula)	112
4-0398	3	Cross-Action SMILE Forceps	67	20-2073	7	SMILE Lenticule Removing Spatula	112
4-2012S	4	Stodulka Forceps for Small-Incision Lenticule Extraction	67	14-052T	8	Slade-Murdoch Speculum	117
4-034/ 12-003T	5	Forceps for Corneal Endothelium Implantation, 23 Ga/ Universal Squeeze Handle	70 142				

*not shown

FEATURED SETS

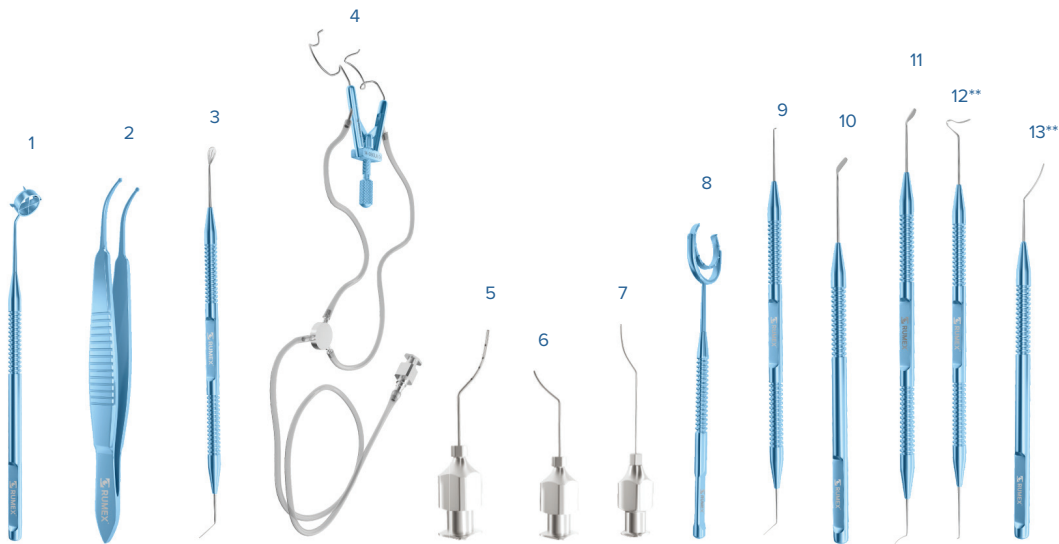
REFRACTIVE ICL SET



Reference	Key	Description	Page	Reference	Key	Description	Page
4-08011T	1	Nevyas-Wallace Fixation Forceps, 0.12 mm 1x2 Teeth	72	13-142	5	Zaldivar ICL™ Manipulator	114
4-20111S	2	ICL™ Cartridge Loading Forceps	63	14-040T	6	Lieberman Temporal Speculum	117
4-21432/ 12-003T	3	Zaldivar - Kraff ICL Pacman Forceps, 20 Ga, Tip Only/ Universal Squeeze Handle	63	6-20/6-0551	7	Zaldivar Universal ICL™ Knife, 0.55/1.00 mm	83
13-141	4	Pallikaris ICL™ Manipulator	142	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

*not shown

LASIK/ FEMTOLASIK

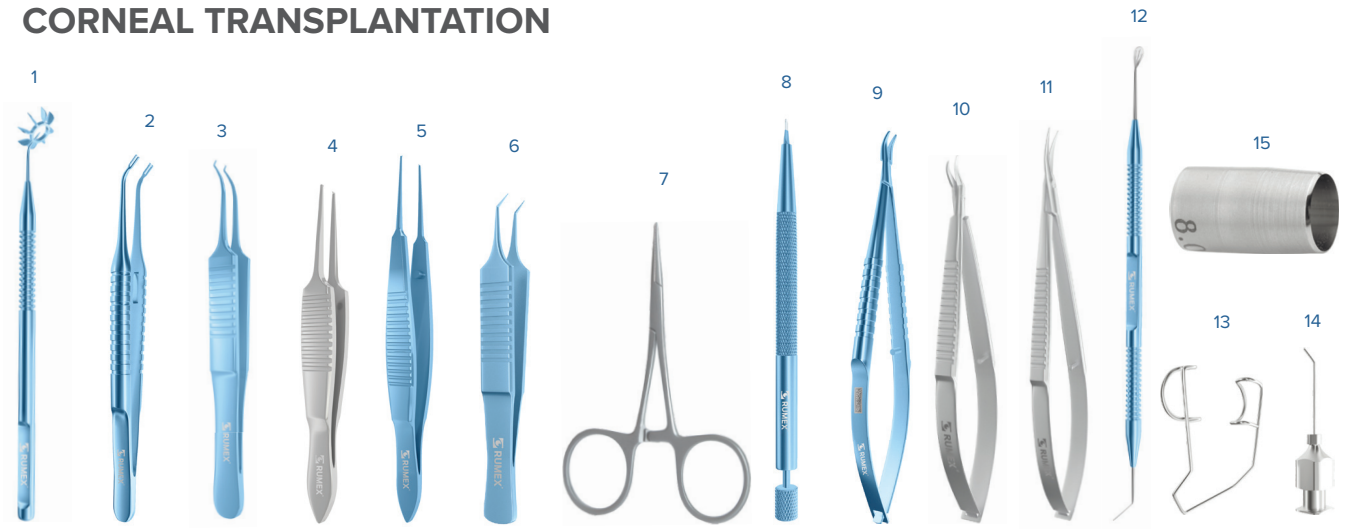


Reference	Key	Description	Page	Reference	Key	Description	Page
3-174T	1	Lavery LASIK Marker	47	16-0341T	8	Fine Thornton Fixation Ring with Swivel	130
4-2206T	2	LASIK Flap Forceps	66	20-013	9	LASIK Spatula and Flap Retreatment Instrument	111, 132
13-110	3	Paton Double-Ended Spatula and Spoon	107	20-001	10	Hockey Epithelium Removal Knife	111, 133
14-080LA	4	Lieberman Temporal Speculum with Aspiration for LASIK	115	20-002	11	Lindstrom LASIK / PRK Spatula and Epithelium Removal Board	111, 133
15-373-25	5	Banaji LASIK Irrigation Cannula, 25 Ga	124	20-201	12**	FemtoLASIK Flap Spatula, Double-Ended	113, 132
15-376	6	Slade LASIK Cannula, 26 Ga	124	20-203	13**	Zaldivar FemtoLASIK Spatula	113, 133
15-379-25	7	Buratto LASIK Irrigation Cannula, 45° Angled, Triport, 25 Ga	124	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

*not shown
**optional set

CORNEAL

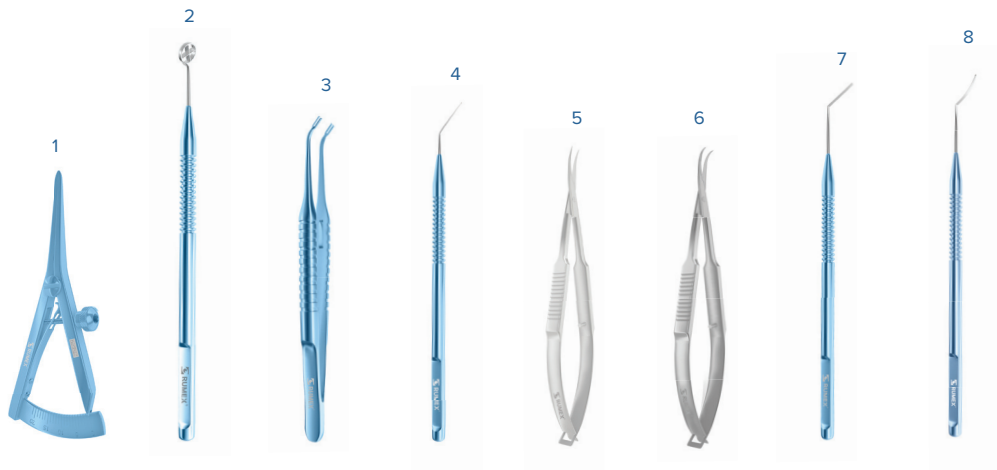
CORNEAL TRANSPLANTATION



Reference	Key	Description	Page	Reference	Key	Description	Page
3-140T	1	Corneal Transplant Marker	46	11-020S	10	Katzin Corneal Transplant Scissors, Left	99
4-0814T	2	Pollack Corneal Transplantation Fixation Forceps	72	11-0201S*		Katzin Corneal Transplant Scissors, Right	99
4-0541T	3	Castroviejo Colibri Corneal Forceps, 0.12 mm 1x2 Teeth	69	11-024S*		Castroviejo Corneal Section Scissors, Right	99
4-0607S	4	Bishop-Harmon Suturing Forceps, 0.30 mm 1x2 Teeth	75	11-0241S*		Castroviejo Corneal Section Scissors, Left	99
4-0600T	5	Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth	75	11-040S	11	Westcott Curved Tenotomy Scissors	102
4-0601T*		Castroviejo Suturing Forceps, 0.30 mm 1x2 Teeth	75	11-044S*		Westcott Stitch Scissors	100
4-090T	6	Kelman-McPherson Tying Forceps, 4 mm Platforms	76	13-110	12	Paton Double-Ended Spatula and Spoon	107
4-178S*		McPherson Straight Tying Forceps, 7 mm Platforms	76	14-022S	13	Barraquer Wire Speculum, Adult Size	119
4-120S	7	Hartman Mosquito Forceps	74	15-051-25	14	Rycroft Anterior Chamber Cannula, 25 Ga	121
6-10/6-053	8	Diamond Knife, Trifacet Blade, 1.00 mm	82	15-301/303*		Silicone Bulb with Adapter	125
6-20/6-107*		Diamond Knife, Trapezoid Self-Diving Blade, 2.00/2.30 mm	83	16-081S*		Towel Forceps	74
8-031T	9	Barraquer Needle Holder, Standard Jaws, without Lock	95	16-0305*		Corneal Trephine Blades, 7.50 mm	130
8-045T*		Barraquer Needle Holder, Extra Fine Jaws, without Lock	95	16-0307	15	Corneal Trephine Blades, 8.00 mm	130
				18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

*not shown

DLEK

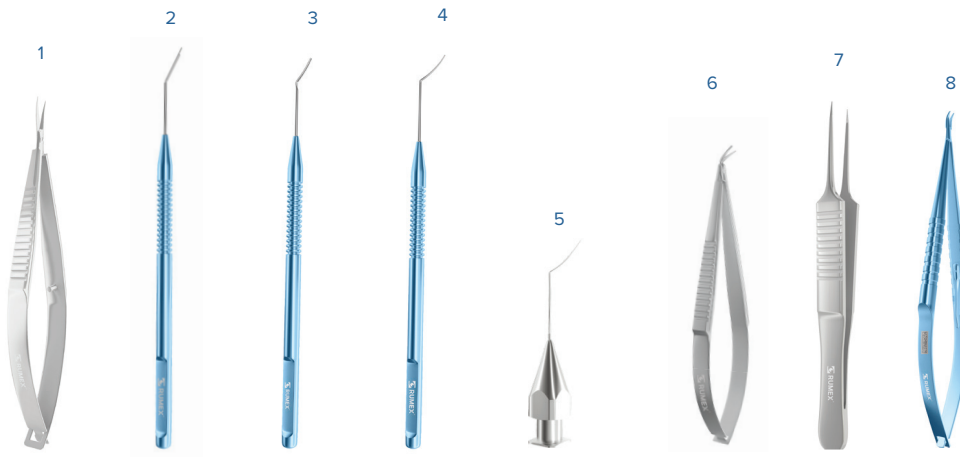


Reference	Key	Description	Page	Reference	Key	Description	Page
2-010T	1	Castroviejo Caliper	43	11-0361S	6	DLEK Scissors, Strong Curve	100
3-0217T	2	Hoffer Optical Zone Marker, 8.00 mm	47	13-137	7	Corneal Dissector, Straight	107
4-0814T	3	Pollack Corneal Transplantation Fixation Forceps	72	13-138	8	Corneal Dissector, Curved	107
5-0322	4	Reversed Sinsky Hook	79	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136
11-036S	5	DLEK Scissors, Medium Curve	100				

*not shown

FEATURED SETS

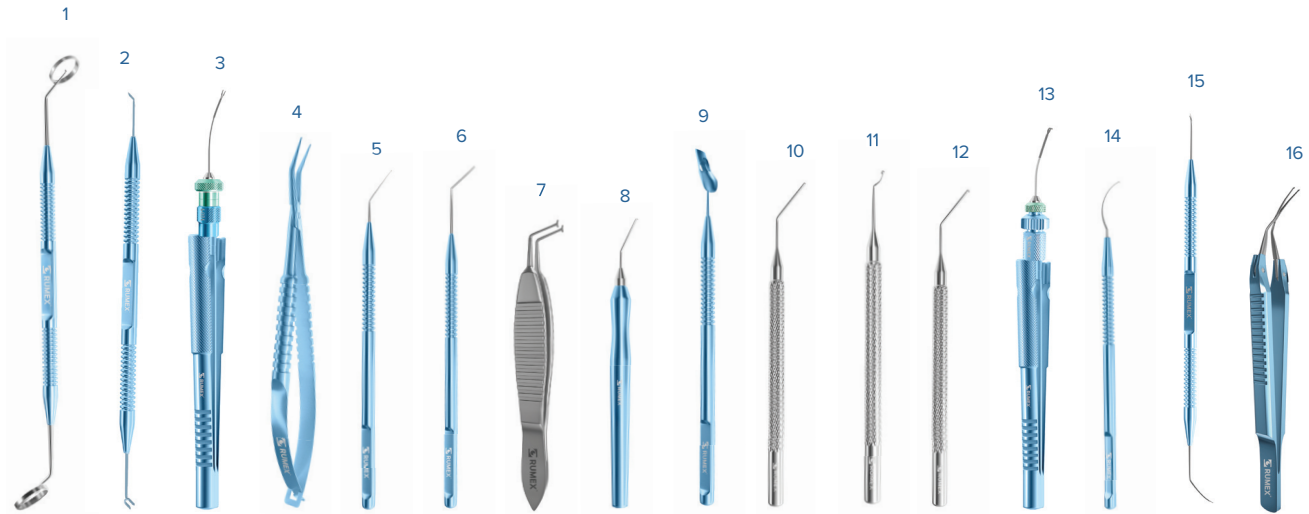
CORNEAL DALK SET



Reference	Key	Description	Page	Reference	Key	Description	Page
11-038S	1	Scissors for DALK Procedure, Right	99	11-134	6	Holland Spatulated DALK Scissors, Right	100
11-0381S*		Scissors for DALK Procedure, Left	99	11-135*		Holland Spatulated DALK Scissors, Left	100
13-170	2	Trisector for DALK Procedure	110	4-178S	7	McPherson Tying Forceps, Straight	76
13-171	3	Spatula for DALK Procedure	110	4-174T*		McPherson Tying Forceps, Angled	76
13-172	4	Dissector for DALK Procedure	110	8-024T	8	Barraquer Needle Holder, Extra Fine Jaws, with Lock	95
15-450-27	5	Cannula for DALK Procedure, 27 Ga	124	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

*not shown

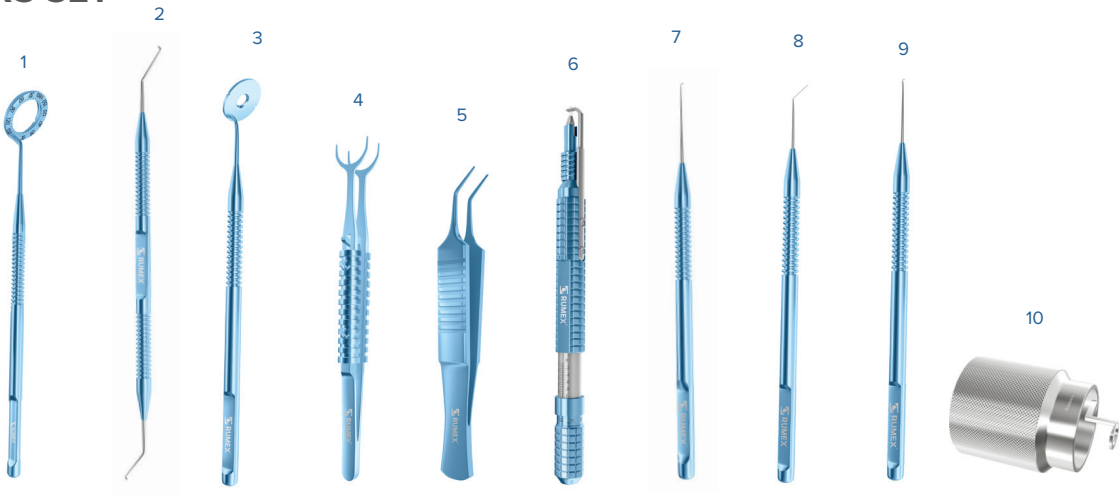
DSEK, DSAEK, DMEK SET



Reference	Key	Description	Page	Reference	Key	Description	Page
3-0231	1	Abdullayev Corneal Marker for Keratoplasty	45	13-152S	11	Carlson DSEK Smoother	108
3-0230*		Abdullayev Scleral Marker for Keratoplasty	45	13-153S	12	Terry DSEK Scraper	108
3-024T	2	Abdullayev I & II Marker (for DSAEK/DMEK Grafts)	46	4-247	13	Florakis Microinvasive Endothelial Forceps, 23 Ga / Universal Squeeze Handle	70
3-208T*		DMEK/DSAEK "S" Marker	46	/12-003T		Florakis Endothelial Forceps	142
4-034	3	Forceps for Corneal Endothelium Implantation, 23 Ga/ /12-003T	70	4-246S*		John Dextatome DMEK/DSAEK Spatula	70
4-2019T	4	Universal Squeeze Handle	142	13-182	14	John DSAEK Stromal Scrubber	109
5-0322	5	Corneal Donor Insertion Forceps	70	13-183*		John DSAEK Glider	109
13-137	6	Reversed Sinskey Hook	79	13-184*		Tan Marginal DMEK Dissector	109
13-137	6	Corneal Dissector, Straight	107	13-185	15	Cross-Action DMEK Forceps	109
13-138*		Corneal Dissector, Curved	107	4-251	16	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	71
4-261S	7	Abdullayev DMEK Grasping Forceps	71	18-305*			135, 136
13-139/I	8	Endothelial Stripper, Irrigating	107				
13-150T	9	Spatula-Guide for Corneal Endothelium Implantation	107				
13-151S	10	Cindy Sweeper DSEK Spatula	108				

*not shown

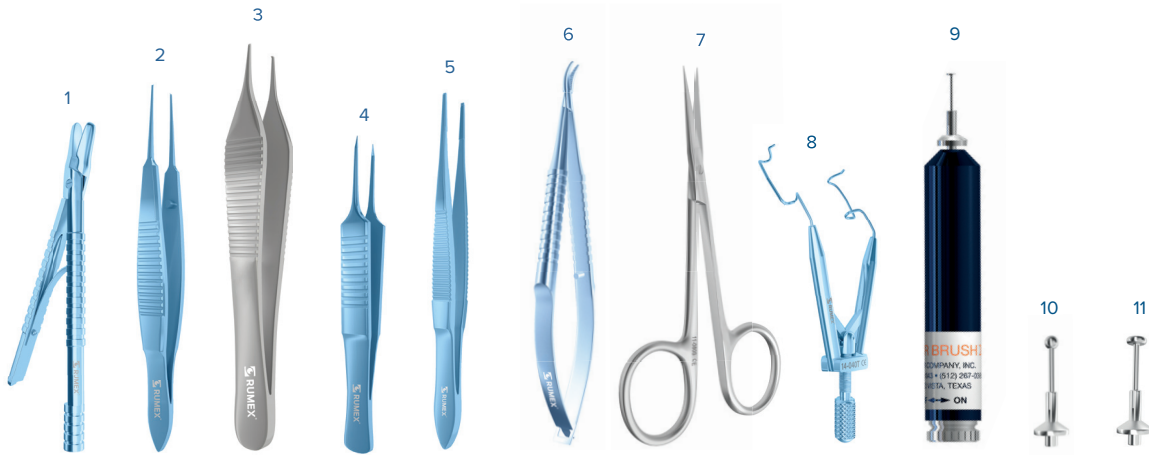
**CORNEAL/PTERYGIUM
ICRS SET**



Reference	Key	Description	Page	Reference	Key	Description	Page
2-0331T	1	Grooved Mendez Degree Gauge with 4 Grooves	44	10-035	7	Elevator for ICRS Implantation	114
3-034	2	Optical Zone Marker	47	13-146	8	Suarez Spreader	114
3-143T	3	Tunnel Zone Marker	47	13-147	9	Bicalto Guide	114
4-08011T	4	Nevyas-Wallace Fixation Forceps	72	16-173S	10	Tunnel Maker, Left	130
4-2144T	5	Forceps for ICRS Implant	68	16-174S*		Tunnel Maker, Right	130
6-00/6-020	6	Diamond Knife for ICRS, Micrometer Handle, 1.00 mm	82	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

*not shown

PTERYGIUM SET

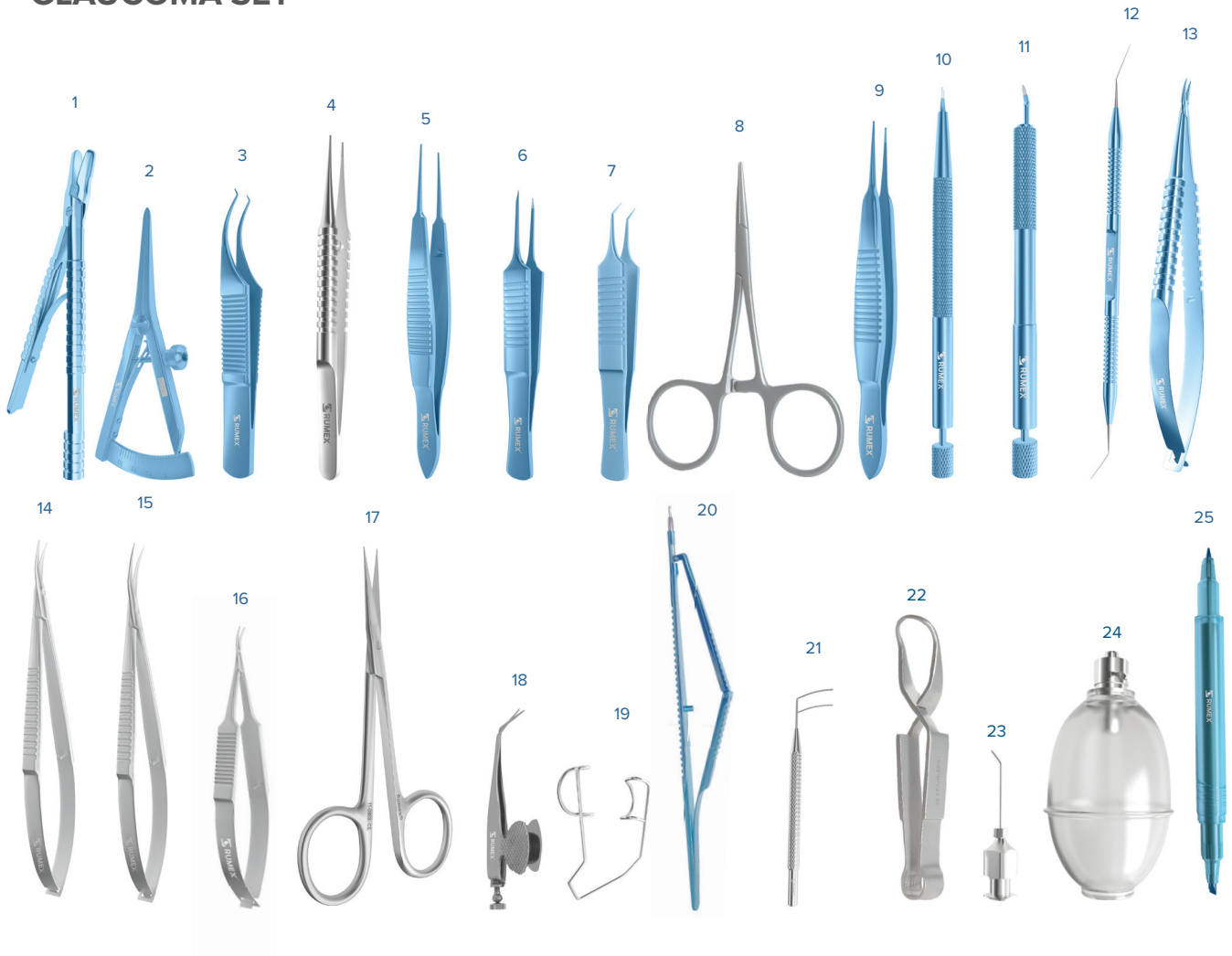


Reference	Key	Description	Page	Reference	Key	Description	Page
1-010T	1	Blade Holder	42	16-051-2.5	9	AlgerBrush with a 2.50 mm Diamond Dusted Round Fine Grit Burr	129
4-0600T	2	Castroviejo Suturing Forceps	75	16-051-3.5B	10	Diamond Dusted Round Medium Grit Burr for AlgerBrush, 3.50 mm	129
4-0741S	3	Adson Fixation Forceps	72	16-052-5.0B	11	Diamond Dusted Disk-Shaped Medium Grit Burr for AlgerBrush, 5.00 mm	129
4-171T	4	McPherson Tying Forceps	76	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136
4-2300T	5	Bonaccolto Utility Forceps	78				
8-031T	6	Barraquer Needle Holder, Standard Jaws, w/out Lock	95				
11-080S	7	Iris Scissors	101				
14-040T	8	Lieberman Temporal Speculum	117				

*not shown

FEATURED SETS

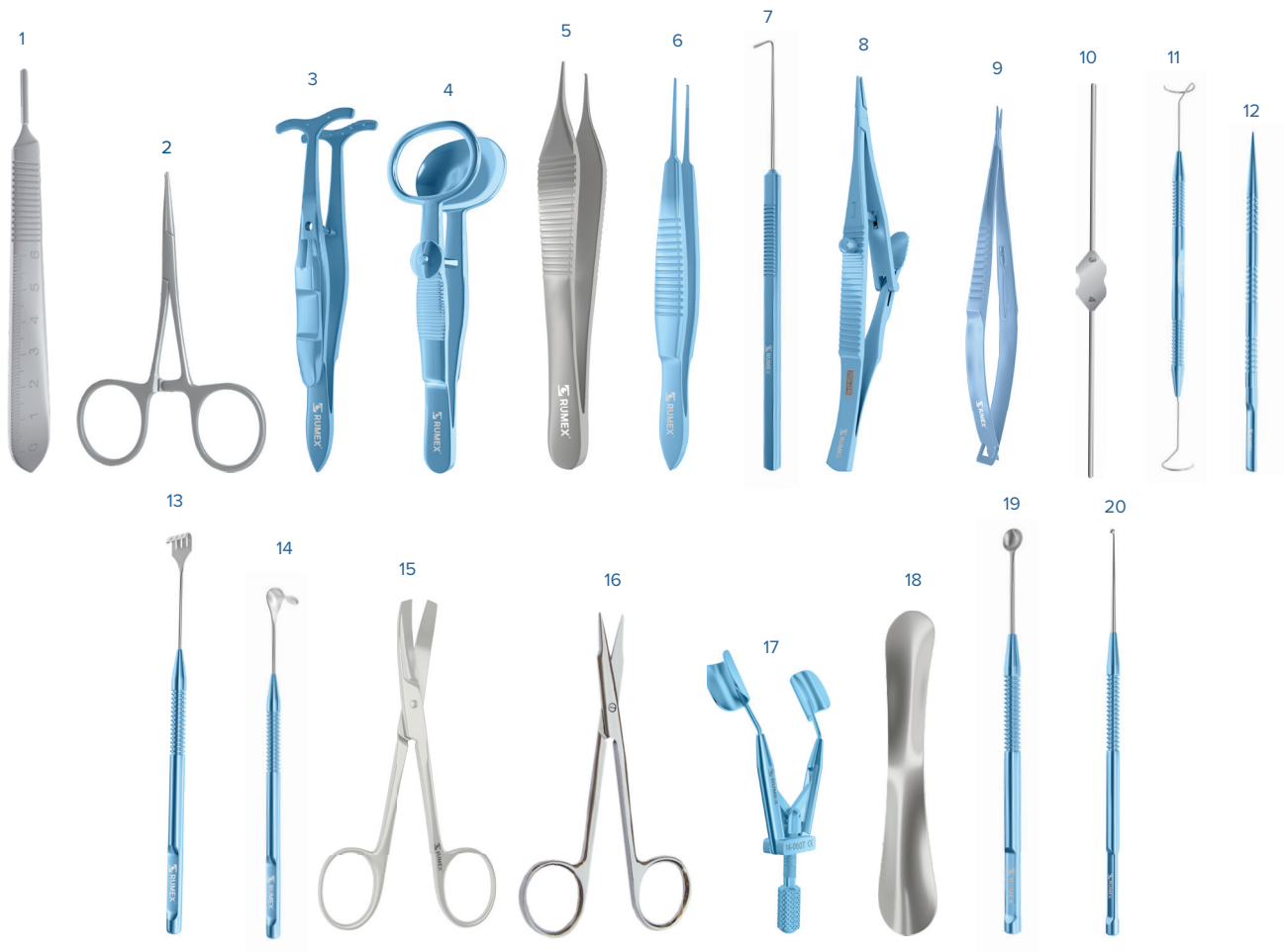
GLAUCOMA GLAUCOMA SET



Reference	Key	Description	Page	Reference	Key	Description	Page
1-010T	1	Blade Holder	42	11-044S	15	Westcott Stitch Scissors	100
2-010T	2	Castroviejo Caliper	43	11-052S	16	Vannas Capsulotomy Scissors	103
4-050T	3	Colibri Corneal Forceps	68	11-080S	17	Iris Scissors	101
4-070S	4	Dressing Forceps with Delicate Serrations	71	11-1223	18	Barraquer Iris Scissors	101
4-0600T	5	Castroviejo Suturing Forceps	75	14-022S	19	Barraquer Wire Speculum	119
4-171T	6	McPherson Straight Tying Forceps	76	16-011	20	Kelly Descemet's Membrane Punch, 0.75 mm Diameter	127
4-090T	7	Kelman-McPherson Tying Forceps	76	16-012S	21	Harms Trabeculotome, Left	130
4-120S	8	Hartman Mosquito Forceps	74	16-013S*		Harms Trabeculotome, Right	130
4-2301T	9	Fechtner Conjunctiva Forceps	65	16-080S	22	Schaedel Towel Clamp	74
6-10/6-053	10	Diamond Knife, Trifacet Blade, 1.00 mm	82	15-051-27	23	Rycroft Anterior Chamber Cannula, 27 Ga	121
6-20/6-092	11	Diamond Knife, Crescent Blade, 2.00 mm	83	15-301/303	24	Silicone Bulb with Adapter	125
13-050	12	Castroviejo Double-Ended Cyclodialysis Spatula	105	20-050	25	Disposable Marking Pen, Double-Ended, 10 per Box	50, 134
8-045T	13	Barraquer Needle Holder, Extra Fine Jaws, w/out Lock	95	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
11-040S	14	Westcott Tenotomy Scissors	102				

*not shown

**OCULOPLASTIC
OCULOPLASTIC SET**



Reference	Key Description	Page	Reference	Key Description	Page
1-020S	1 Bard Parker Handle	42	10-014	13 Knapp Lacrimal Sac Retractor	97
4-120S	2 Hartman Mosquito Forceps	74	10-022	14 Desmarres Lid Retractor, Size 2	97
4-140T	3 Putterman Type Lid Clamp	65	11-090S	15 Enucleation Scissors	104
4-1906T	4 Desmarres Chalazion Forceps, Large	65	11-133S	16 Stevens Tenotomy Scissors	102
4-0741S	5 Adson Fixation Forceps, 0.50 mm 1x2 Teeth	72	14-0601T	17 Kershner Reversible Solid Blade Speculum	116
4-0822T	6 Castroviejo Fixation Forceps, 0.50 mm 1x2 Teeth	72	16-50S	18 Lid Plate	131
5-042	7 Graefe Muscle Hook, Size 2	80	16-061	19 Bunge Evisceration Spoon, Small	128
8-080T	8 Kalt Needle Holder	94	16-066	20 Meyerhoefer Chalazion Curette, Size 3	128
8-0921T	9 Castroviejo Needle Holder, Delicate Jaws, with Lock	94	18-305*	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
9-013S	10 Bowman Lacrimal Probe, Size 3-4	96			
9-031	11 Pigtail Lacrimal Probe	96			
9-050T	12 Wilder Lacrimal Dilator, Size 1	96			

*not shown

FEATURED SETS

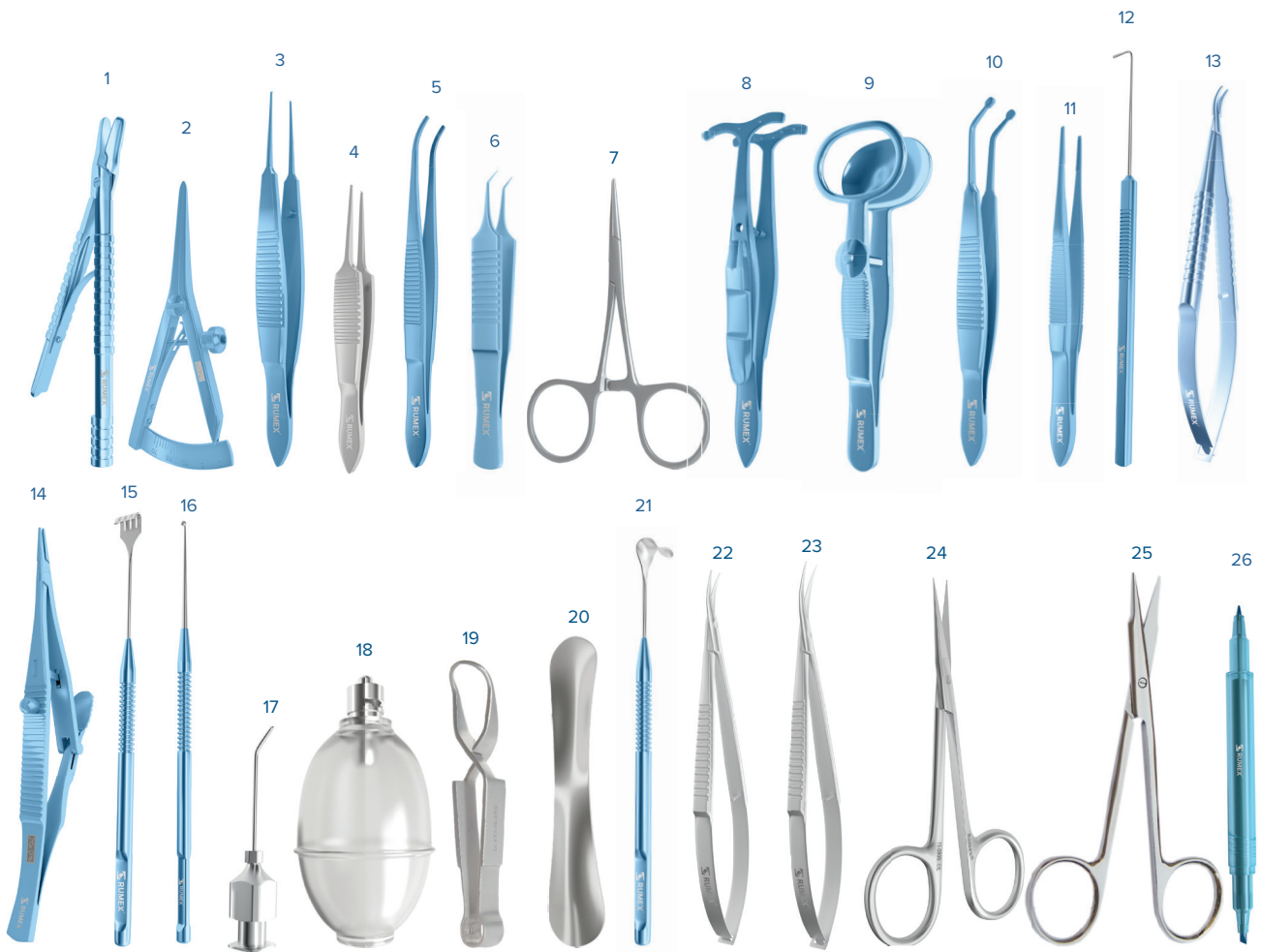
OCULOPLASTIC LACRIMAL SET



Reference	Key	Description	Page	Reference	Key	Description	Page
1-010T	1	Blade Holder	42	10-013	12	Stevenson Lacrimal Sac Retractor	97
4-071S	2	Dressing Forceps	71	10-014	13	Knapp Lacrimal Sac Retractor	97
4-2300T	3	Bonaccolto Utility Forceps	78	11-080S	14	Iris Scissors	101
4-0601T	4	Castroviejo Suturing Forceps	75	11-125S	15	Westcott Type Stitch Scissors	100
4-122S	5	Halsted Mosquito Forceps	74	11-130S	16	Stevens Scissors	102
8-031T	6	Barraquer Needle Holder, Standard Jaws, w/out Lock	95	15-029	17	Lacrimal Cannula, Reinforced, Curved, 23 Ga	125
9-010S	7	Bowman Lacrimal Probe, Size 0000-000	96	15-301/303	18	Silicone Bulb with Adapter	125
9-011S*		Bowman Lacrimal Probe, Size 00-0	96	16-081S	19	Towel Forceps	74
9-012S*		Bowman Lacrimal Probe, Size 1-2	96	16-127	20	Nasal speculum, Adult Size	131
9-013S*		Bowman Lacrimal Probe, Size 3-4	96	16-135	21	Surgical Mallet, Polished Finish	131
9-014S*		Bowman Lacrimal Probe, Size 5-6	96	16-136	22	Kerrison Rongeur, Size 0	127
9-021S	8	Quickert Lacrimal Intubation Probe, Size 0	96	16-138	23	Belz Lacrimal Sac Rongeur	127
9-031	9	Pigtail Lacrimal Probe	96	21-R7011	24	Disposable DCR Set, Straight 4.50 cm	25
9-050T	10	Wilder Lacrimal Dilator, Size 1	96	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
9-060T	11	Castroviejo Double-Ended Lacrimal Dilator, Size 1 & 2	96				

*not shown

**OCULOPLASTIC
LID SET**

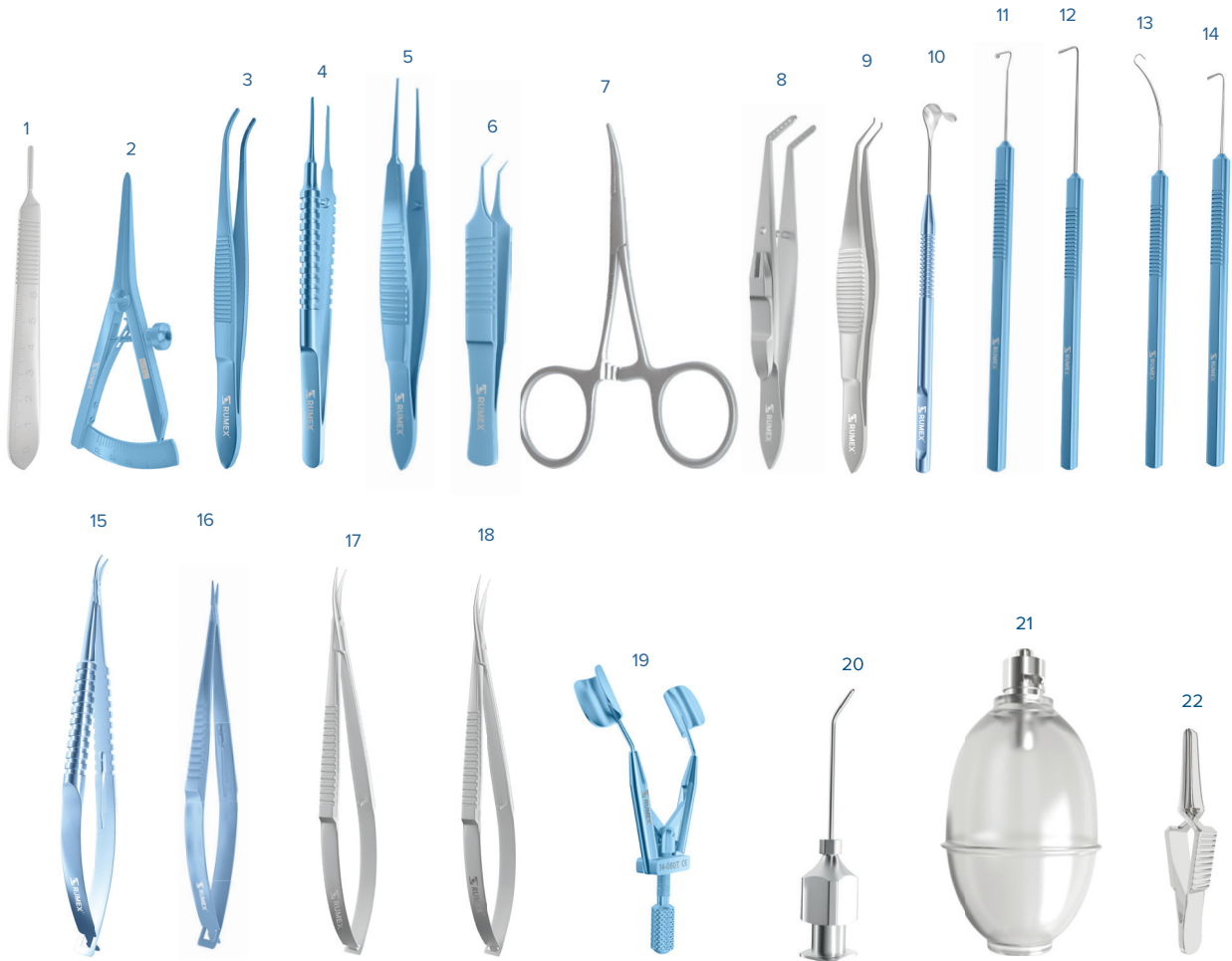


Reference	Key	Description	Page	Reference	Key	Description	Page
1-010T	1	Blade Holder	42	10-014	15	Knapp Lacrimal Sac Retractor	97
2-010T	2	Castroviejo Caliper	43	16-066	16	Meyerhoefer Chalazion Curette, Size 3	128
4-0601T	3	Castroviejo Suturing Forceps	75	16-067*		Meyerhoefer Chalazion Curette, Size 4	128
4-0607S	4	Bishop-Harmon Suturing Forceps	75	15-055-19	17	Bishop Harmon AC Cannula, 19 Ga	121
4-072T	5	Dressing Forceps	71	15-301/303	18	Silicone Bulb with Adapter	125
4-090T	6	Kelman-McPherson Tying Forceps	76	16-080S	19	Schaedel Towel Clamp	74
4-120S	7	Hartman Mosquito Forceps	74	16-50S	20	Lid Plate	131
4-140T	8	Putterman Type Lid Clamp	65	10-020*		Desmarres Lid Retractor, Size 0	97
4-1906T	9	Desmarres Chalazion Forceps, Large	65	10-021	21	Desmarres Lid Retractor, Size 1	97
4-1912T*		Desmarres Chalazion Forceps, Medium	65	10-022*		Desmarres Lid Retractor, Size 2	97
4-124S*		Compressing Lid Forceps with Atraumatic Rollers	66	10-023*		Desmarres Lid Retractor, Size 3	97
4-1913T	10	Compressing Lid Forceps	66	11-040S	22	Westcott Tenotomy Scissors	102
4-2300T	11	Bonaccolto Utility Forceps	78	11-044S	23	Westcott Stitch Scissors	100
5-042	12	Graefe Muscle Hook, Size 2	80	11-080S	24	Straight Iris Scissors	101
8-031T	13	Barraquer Needle Holder, Standard Jaws, w/out Lock	95	11-133S	25	Stevens Tenotomy Scissors	102
8-080T	14	Kalt Needle Holder	94	20-050	26	Disposable Marking Pen, Double-Ended, 10 per Box	50, 134
				18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

*not shown

FEATURED SETS

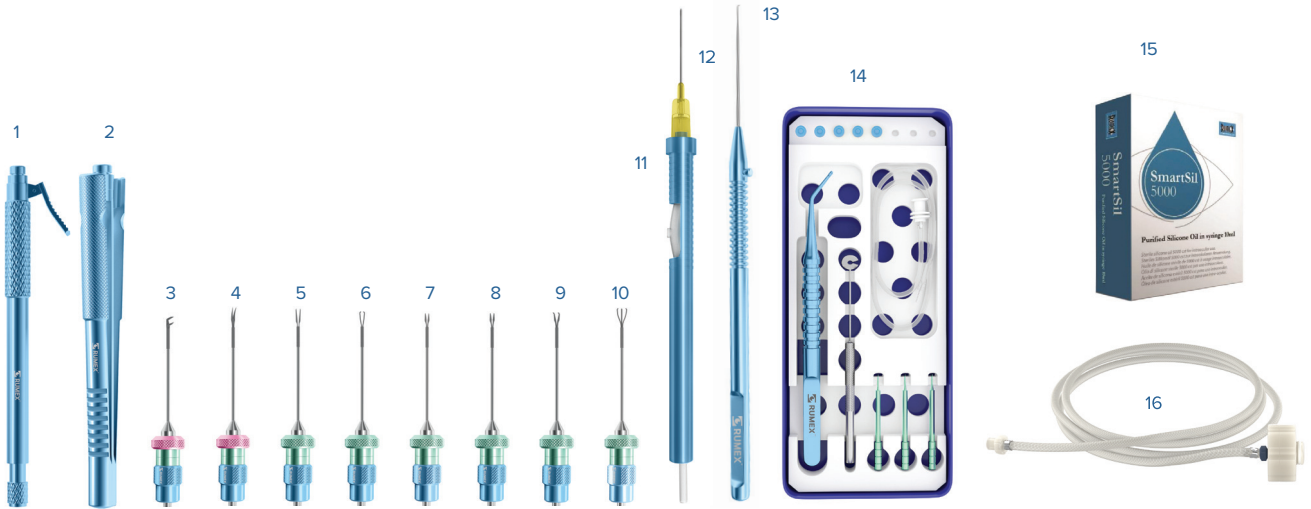
OCULOPLASTIC MUSCLE SET



Reference	Key	Description	Page	Reference	Key	Description	Page
1-020S	1	Bard Parker Handle	42	5-061	13	Scobee Oblique Muscle Hook	80
2-010T	2	Castroviejo Caliper	43	5-062	14	Stevens Curved Tenotomy Hook	80
4-072T	3	Dressing Forceps	71	8-090T	15	Barraquer Needle Holder, Strong Jaws, with Lock	95
4-0551T	4	Corneal Forceps, Bonn-Catalano Type	69	8-0921T	16	Castroviejo Needle Holder, Delicate Jaws, with Lock	94
4-0602T	5	Castroviejo Suturing Forceps	75	11-040S	17	Westcott Tenotomy Scissors	102
4-090T	6	Kelman-McPherson Tying Forceps	76	11-044S	18	Westcott Stitch Scissors	100
4-121S	7	Hartman Mosquito Forceps	74	14-0601T	19	Kershner Reversible Solid Blade Speculum	116
4-130S	8	Jameson Muscle Forceps, Left	78	15-055-19	20	Bishop Harmon AC Cannula, 19 Ga	121
4-131S*		Jameson Muscle Forceps, Right	78	15-301/303	21	Silicone Bulb with Adapter	125
4-136S	9	Osher Superior Rectus Forceps	78	16-090S	22	Serrefine	74
10-022	10	Desmarres Lid Retractor, Size 2	97	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
5-040	11	Jameson Muscle Hook	80				
5-042	12	Graefe Muscle Hook, Size 2	80				

*not shown

**VITREORETINAL
REUSABLE SET, TWO-PIECE, 23 GA**



Reference	Key Description	Page	Reference	Key Description	Page
12-001T	1 Universal Instrument Handle, One Finger Control	142	10	Spring Gripping Forceps, 23 Ga, Tip only	147, 149
12-003T	2 Universal Instrument Handle, Squeeze Model, Two Fingers Control	142	12-6000	11 Titanium Backflush Handle, Active Aspiration	156
12-202-23	3 Vertical Vitreoretinal Scissors, 23 Ga, Tip only	144, 149	12-5161	12 Soft Tip Cannula, 23 Ga, Disposable, 5 per Box	157
12-209-23	4 Curved Subretinal Scissors, 23 Ga, Tip only	144, 149	13-097-23	13 Delicate Membrane Pick, 23 Ga	148
12-410-23	5 Eckardt End-Gripping Forceps, 23 Ga, Tip only	145, 149	12-5173-23	14 Reusable Trocar System, 23 Ga	152
12-4013	6 End-Grasping Forceps, Expanded Space between Branches, 23 Ga, Tip only	141, 145, 149	SmartSil5000	15 Purified Silicone Oil for Retinal Endotamponade, 5000 cSt	158
12-301-23	7 Vitreoretinal Forceps with a Sandblasted Platform, 23 Ga, Tip only	146, 149	SmartSil1000*	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt	158
12-304-23	8 Vitreoretinal Forceps with a "Crocodile" Platform, 23 Ga, Tip only	141, 146, 149	12-RTUB-2	16 Reusable Tubing System for the Infusion Of Silicone Oil, Caprolone Adapter Adjustable To DORC® Associate™, EVA™, EVA NEXUS™, Alcon® Constellation™, Accurus™	159
12-325-23	9 Pick Vitreoretinal Forceps, 23 Ga, Tip only	147, 149	18-305*	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

*not shown

DISPOSABLE SET, 23 GA

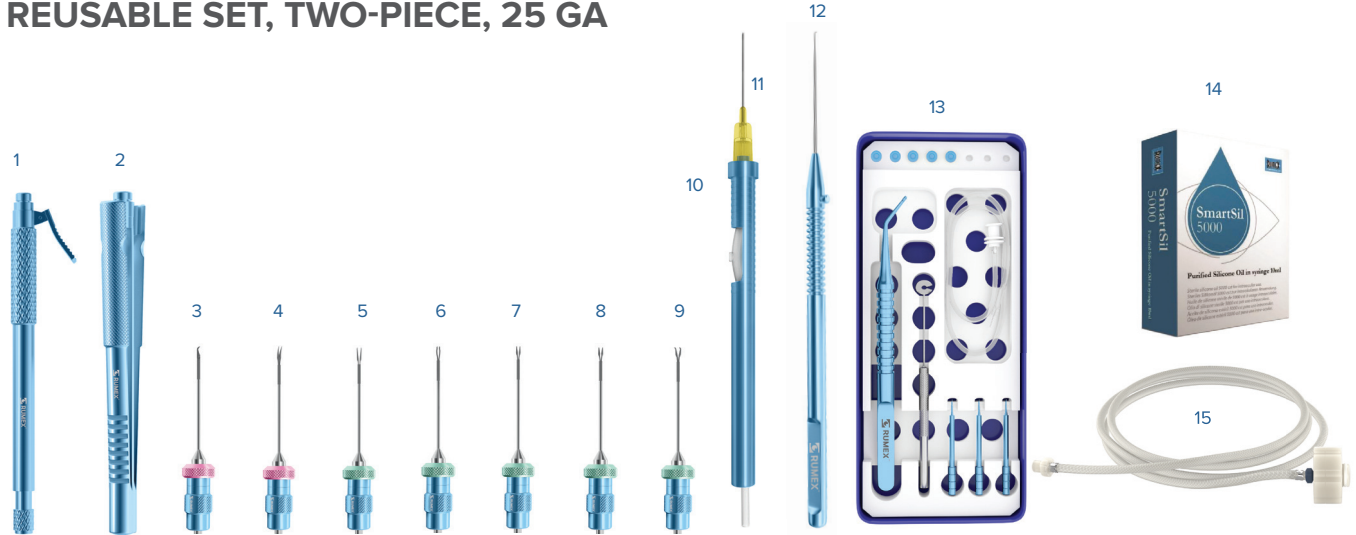


Reference	Key Description	Page	Reference	Key Description	Page
12-5229	1 Disposable One Step Trocar System 23 Ga, 6 per Box	155	12-202-23DP	7 Disposable Vitreoretinal Vertical Scissors, 23 Ga, Plastic Handle 360°, 6 per Box	154
12-5161H	2 Backflush Instrument with Soft Tip, 23 Ga, 6 per Box	156	12-5203	8 Dual Bore PFC Cannula, 23 Ga, 5 per Box	157
12-7523	3 Disposable Diamond Dusted Retractable ILM Elevator, 23 Ga, 5 per Box	154	12-5248	9 Viscous Fluid Injection Cannula, 23 Ga, 4 mm Tip, 5 per Box	159
12-209-23D	4 Disposable Curved Scissors, 23 Ga, Stainless Steel, 6 per Box	153	SmartSil5000	10 Purified Silicone Oil for Retinal Endotamponade, 5000 cSt	158
12-209-23DP*	Disposable Vitreoretinal Curved Scissors, 23 Ga, Plastic Handle 360°, 6 per Box	154	SmartSil1000*	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt	158
12-410-23D	5 Disposable Eckardt End-Gripping Forceps, 23 Ga, Stainless Steel, 6 per Box	153	RLC-23AZ	11 Disposable Laser Probe, Curved, 23 Ga - SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®, 6 per box	36
12-410-23DP*	Disposable Vitreoretinal Eckardt End-Gripping Forceps, 23 Ga, Plastic Handle 360°, 6 per Box	154	12-5180	12 Disposable Wide Angle Fiber Optic Probe, 23 Ga - B&L®, 6 per box	37
12-304-23DP	6 Disposable Vitreoretinal Gripping Forceps with a "Crocodile Platform", 23 Ga, Plastic Handle 360°, 6 per Box	154	12-4573	13 Disposable Chandelier Fiber Optic Probe, 23 Ga - B&L®, 6 per box	38
12-304-23D*	Disposable Gripping Forceps with a "Crocodile" Platform, 23 Ga, Stainless Steel, 6 per Box	153	RV-23BFD	14 Disposable Posterior Vitrectomy Cutter, Double Cut, 23 Ga, 6 per box B&L®: Stellaris® Speed: 10000 CPM Pressure: 42 PSI	39

*not shown

FEATURED SETS

VITREORETINAL REUSABLE SET, TWO-PIECE, 25 GA



Reference	Key Description	Page	Reference	Key Description	Page
12-001T	1 Universal Instrument Handle, One Finger Control	142	12-6000	10 Titanium Backflush Handle, Active Aspiration	156
12-003T	2 Universal Instrument Handle, Squeeze Model, Two Fingers Control	142	12-5152	11 Soft Tip Cannula, 25 Ga, Disposable, 5 per Box	157
12-2029	3 Vertical Vitreoretinal Scissors, 25 Ga, Tip only	15, 144	13-0979	12 Delicate Membrane Pick, 25 Ga	148
12-2099	4 Curved Subretinal Scissors, 25 Ga, Tip only	15, 144	12-5173-25	13 Reusable Trocar System, 25 Ga	152
12-410-25	5 Eckardt End-Gripping Forceps, 25 Ga, Tip only	15, 144	Smart-Sil5000	14 Purified Silicone Oil for Retinal Endotamponade, 5000 cSt	158
12-420-25	6 Asymmetrical End-Grasping Forceps, 25 Ga, Tip Only	141, 145, 150	Smart-Sil1000*	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt	158
12-3019	7 Vitreoretinal Forceps with a Sandblasted Platform, 25 Ga, Tip only	15, 146	12-RTUB-2	15 Reusable Tubing System for the Infusion Of Silicone Oil, Caprolone Adapter Adjustable To DORC® Associate™, EVA™, EVA NEXUS™; Alcon® Constellation™, Accurus™	159
12-304-25	8 Vitreoretinal Forceps with a "Crocodile" Platform, 25 Ga, Tip only	141, 146, 150	18-305*	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
12-3259	9 Pick Vitreoretinal Forceps, 25 Ga, Tip only	15, 147			

*not shown

DISPOSABLE SET, 25 GA



Reference	Key Description	Page	Reference	Key Description	Page
12-5244	1 Disposable One Step Trocar System 25 Ga, 6 per Box	155	12-202-25DP	7 Disposable Vitreoretinal Vertical Scissors, 25 Ga, Plastic Handle 360°, 6 per Box	154
12-5152H	2 Backflush Instrument with Soft Tip, 25 Ga, 6 per Box	156	12-5205	8 Dual Bore PFC Cannula, 25 Ga, 5 per Box	157
12-7525	3 Disposable Diamond Dusted Retractable ILM Elevator, 25 Ga, 5 per Box	154	12-5258	9 Viscous Fluid Injection Cannula, 25 Ga, 4 mm Tip, 5 per Box	159
12-209-25D	4 Disposable Curved Scissors, 25 Ga, Stainless Steel, 6 per Box	153	SmartSil5000	10 Purified Silicone Oil for Retinal Endotamponade, 5000 cSt	158
12-209-25DP*	Disposable Vitreoretinal Curved Scissors, 25 Ga, Plastic Handle 360°, 6 per Box	154	SmartSil1000*	SmartSil1000* Purified Silicone Oil for Retinal Endotamponade, 1000 cSt	158
12-410-25D	5 Disposable Eckardt End-Gripping Forceps, 25 Ga, Stainless Steel, 6 per Box	153	RLC-25AZ	11 Disposable Laser Probe, Curved, 25 Ga - SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®, 6 per box	36
12-410-25DP*	Disposable Vitreoretinal Eckardt End-Gripping Forceps, 25 Ga, Plastic Handle 360°, 6 per Box	154	12-5427	12 Disposable Wide Angle Fiber Optic Probe, 25 Ga - B&L®, 6 per box	37
12-304-25DP	6 Disposable Vitreoretinal Gripping Forceps with a "Crocodile Platform", 25 Ga, Plastic Handle 360°, 6 per Box	154	12-4545	13 Disposable Chandelier Fiber Optic Probe, Dual Fiber, 25 Ga - B&L®, 6 per box	38
12-304-25D*	Disposable Gripping Forceps with a "Crocodile" Platform, 25 Ga, Stainless Steel, 6 per Box	153	RV-25BFd	14 Disposable Posterior Vitrectomy Cutter, Double Cut, 25 Ga, 39 6 per box B&L®: Stellaris® Speed: 10000 CPM Pressure: 42 PSI	39

*not shown

APPENDIXES

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STERILIZATION & CARE

GENERAL INSTRUCTIONS FOR CARE, CLEANING & 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 reading 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 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 general recommendations, cleaning guidelines of the solutions, 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: PRE-STERILIZATION CLEANING

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

It is imperative to follow the rules:

1. As much moisture as possible must be eliminated from all parts of the instrument 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 all 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 SOLUTION

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. Use chemicals with non-protein-fixing process and with/without anti-microbial effects. Prepare the solution according to the manufacturer's instructions. Water layer above the instruments should be no less than 1 cm (.39 inches). Water temperature should be as specified in the manufacturer's instructions.
3. Instruments with hinges and joints must be handled open. The detachable products should be disassembled prior to being 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.
4. Carry out disinfection 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.** Make sure the disinfectant is free of aldehydes, glutaraldehydes. The solution should not foam. 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.

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

5. 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.

6. 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.
7. 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).
8. 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.
9. The cleaning results must be visually inspected. The instruments must be visibly clean.

Stage 2: CLEANING

MANUAL CLEANING PROCESS

ULTRASONIC CLEANING

As some instruments may become heavily soiled during the surgery, the additional cleaning in the ultrasonic bath will be required.

The following rules should be followed:

1. Place the instruments on a silicone mat inside the ultrasonic bath.
2. 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.**
3. 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.
4. Place instruments next to each other without stacking them.
5. When carrying out ultrasonic cleaning, all parameters specified by the manufacturer of the cleaning agent, such as exposure time and concentration, must be observed. Cleaning agents must be compatible with instruments.
6. 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.
7. 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 being 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.

WARNING! Special care should be taken to make certain that the instrument does not come into contact with any metal surface of the ultrasonic container, as this could damage the instrument.

8. 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.
9. 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.
10. Then rinse with distilled water to avoid water spots.
11. 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.)

MANUAL DISINFECTION:

1. Submerge the instruments in the cleaning solution.
2. Make sure to follow the exposure times and concentration of disinfectants and not to combine non-compatible ones.
3. After use of cleaning agent, rinse the instruments with **distilled/demineralized water** at least 5 times and flush the lumens to remove the disinfectant.
4. Repeat if there are still visible impurities on the surface of the instruments.

Manual drying may be done by use of lint free towel or using sterile compressed air to insufflate lumens of the instruments.

AUTOMATED CLEANING PROCESS

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.
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.

- **The cleaning device must be regularly maintained, checked and validated in accordance with internal and manufacturer requirements.**
- **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).

Distilled/deionized water is recommended for all the reprocessing cycles as tap water may cause an increase in ions concentrations on the surface of Stainless Steel instruments.

Aspiration speculums and cannulas with tubes (e.g. Simcoe) 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.

RECOMMENDED PRODUCTS FOR CARE AND CLEANING

Product name, Manufacturer	Description	Composition	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	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	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	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	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	Compatible. Discoloration of metal, residual detergent or water film formation may occur.

Fully demineralized water for rinsing and correct loading must be used to prevent staining!
WARNING! Hydrogen peroxide H₂O₂ may discolor titanium instruments.

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).

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. The following products are recommended - Neodisher IP Spray, Miltex-Integra Spray Lube Instrument Lubricant, Sterilit® i lubricant.

APPENDIXES

After the 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 sterilization 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 may 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, disinfected, and dry 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	
	Gravity Displacement	Prevacuum	Gravity Displacement	Prevacuum
Sterilizer Type	Gravity Displacement	Prevacuum	Gravity Displacement	Prevacuum
Sample Config.	wrapped	wrapped	unwrapped	unwrapped
Temperature°C	+132°C	+132°C	+132°C	+132°C
Temperature°F	+270°F	+270°F	+270°F	+270°F
Exposure Time	15 minutes	4 minutes	3 minutes	3 minutes
Drying Cycle	15-30 minutes	20-30 minutes	10 minutes	10 minutes

WARNING! The sterilization steam must not contain any impurities.

Do not apply steam sterilization temperatures exceeding 137°C (280°F).

The autoclave drying cycle should be used to avoid oxidation.

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.

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.

HANDLING OF DIAMOND KNIVES

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 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.

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 that the knives 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 using a Diamond Knife Cleaning Pack (21-602-1) for gentle cleaning of the blade. The pack contains three solutions that eliminate residual debris off the blade and prepare it for sterilization. Diamond knives can be cleaned in an automatic washer designed for micro-surgical instruments. Please follow the manufacturer's instruction.

PLEASE OBSERVE THE GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION BEFORE HANDLING THE TOOL!

NOTE!

To properly clean and disinfect the ophthalmic knife with a micrometer scale:

- Pull the protective cap upward to protect the blade
- Rotate the lower part of the handle to open and expose the micrometer scale mechanism
- Clean and sterilize the instrument in this open position

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.

Do not apply steam sterilization temperatures exceeding 137°C (280°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 resharpening 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 resharpened or exchanged according to the after-sale service program.

HANDLING OF VITREORETINAL & 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

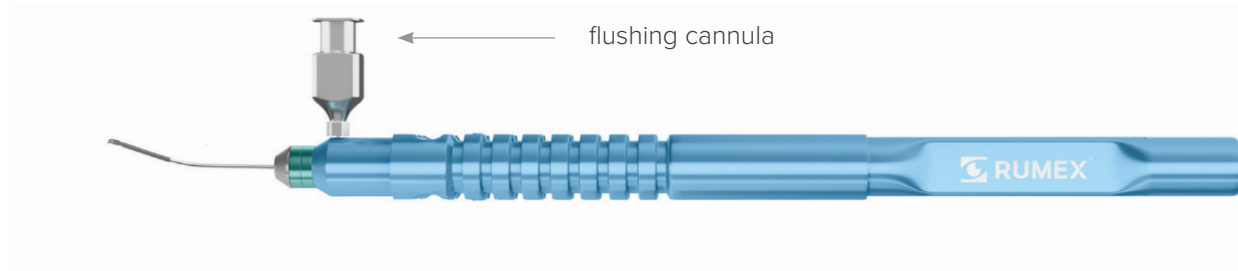
The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. Proteins may also accumulate inside of the mechanism. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument 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 adapter 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

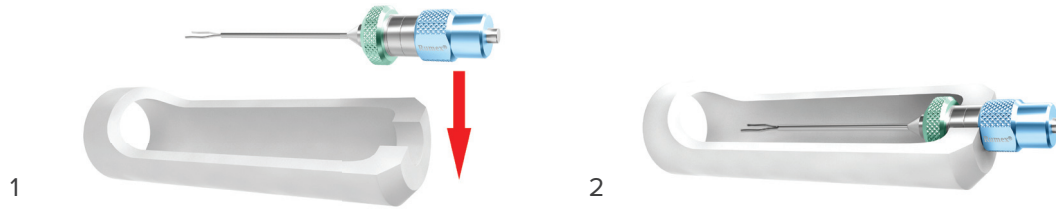


1. Put the instrument into PTFE protector (provided).
2. Soak it in the soap solution at temperature of 50°C (122°F) and keep it there for 15 min.
3. Wash the handle with brush and cotton/gauze pad.
4. Take the instrument out of soap bath and wash it under streaming water for 3 min.
5. Rinse the instrument 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 sterilization 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.

WARNING! Never store the instruments close to the chemicals.

PLEASE OBSERVE THE GENERAL INSTRUCTIONS FOR CARE, CLEANING AND STERILIZATION BEFORE HANDLING THE TOOL!

WARNING!

Gravity displacement is not suitable for vitreoretinal and microincisional tips.

Do not apply steam sterilization temperatures exceeding 137°C (280°F).

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	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	Micro-Vitreoretinal
OD	Outer Diameter
OVD	Ophthalmic Viscosurgical Device
PFC	Perfluorocarbon
PFO	Perfluorooctane
PRK	Photorefractive Keratectomy
PVD	Posterior Vitreous Detachment
PVR	Proliferative Vitreoretinopathy
ReLEx SMILE	Refractive Lenticule Extraction Small Incision Lenticule Extraction
RD	Retinal Detachment
RHD	Right Handed Doctor
SMILE	Small Incision Lenticule Extraction
SS	Stainless Steel

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ASQ/ANSI Z1.9:2003 (R2018)

BS EN 556-1:2024-TC

BS EN ISO 10993-1:2020

BS EN ISO 11737-1:2018+A1:2021

BS EN ISO 15223-1:2021

BS EN ISO 19011:2018

BS EN ISO 9000:2015

DIN EN 556-1:2024-09

DIN EN ISO 11607-1:2024

DIN EN ISO 15223-1:2022

DIN EN ISO 15798:2022

EN 62366-1/A1:2020

EN 868-3:2025

EN ISO 13485/A11:2021

EN ISO 14971:2019/A11:2021

EN ISO 15223-1:2021

EN ISO 17664-1:2021

EN ISO 20417:2021

ISO 10012:2003

ISO 10993-1:2018

ISO 10993-10:2021

ISO 10993-11:2017

ISO 10993-12:2021

ISO 10993-13:2010

ISO 10993-16:2017

ISO 10993-3:2014

ISO 10993-5:2009

ISO 10993-6:2016

ISO 10993-7:2008/Cor 1:2009

ISO 10993-9:2019

ISO 11135:2014/Amd 1:2018

ISO 11137-1:2025

ISO 11137-2:2013/Amd 1:2022

ISO 11138-7:2019

ISO 11607-1:2019/Amd 1:2023

ISO 11607-2:2019/Amd 1:2023

ISO 11737-1:2018/Amd 1:2021

ISO 11737-2:2019

ISO 11979-2:2024

ISO 11979-3:2012

ISO 11979-4:2008/Amd 1:2012

ISO 11979-6:2014

ISO 11979-7:2024

ISO 11979-1:2018

ISO 11979-10:2018

ISO 11979-5:2020

ISO 11979-8:2017

ISO 13485:2016

ISO 14155:2020

ISO 14630:2024

ISO 14644-2:2015

ISO 14644-5:2025

ISO 14644-1:2015

ISO 14971:2019

ISO 15223-1:2021/Amd 1:2025

ISO 15798:2022

ISO 17665:2024

ISO 20857:2010

ISO 2248:1985

ISO 7151:2024

ISO 7153-1:2016

ISO 7741:1986

ISO 8655-2:2022

ISO 8655-6:2022

ISO 9001:2015/Amd 1:2024

MDR 2017/745

NF EN 556-1:2024

NF EN ISO 11737-2:2020

NF EN ISO 11737-1/A1:2021

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