



OPHTHALMIC INSTRUMENTS

+ IOLs & Consumables

2026



AFFORDABLE INNOVATIONS

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APPENDIXES

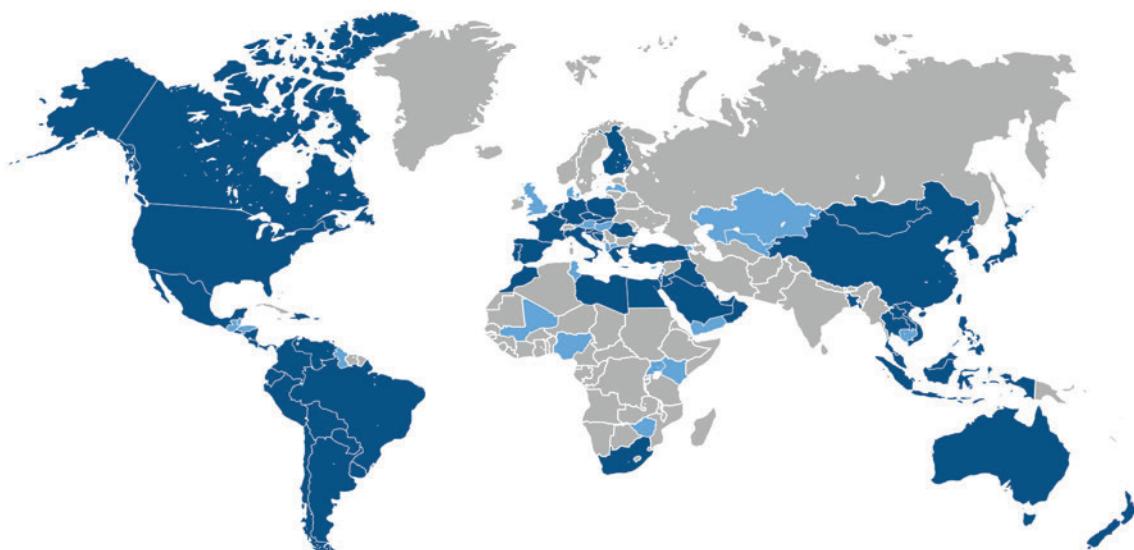
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MORE THAN 30 YEARS OF SUCCESS



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



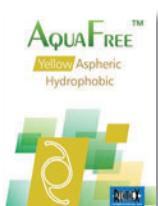
**Disposable Accuject™
Injector**

FEATURES:

- Fast injection
- Ready-to-use option

OR

NON-PRELOADED IOL



**AquaFree Yellow
Aspheric Hydrophobic**

PLUS



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

DELIVERY SYSTEM

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%

AND/OR

COHESIVE

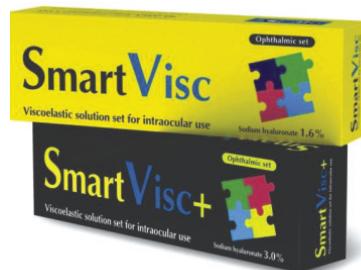
SMARTVISC Sodium Hyaluronate 1.6% SMARTVISC PLUS Sodium Hyaluronate 3.0%

BEST FOR:

- Coating the surgical instruments
- Endothelium protection

BEST FOR:

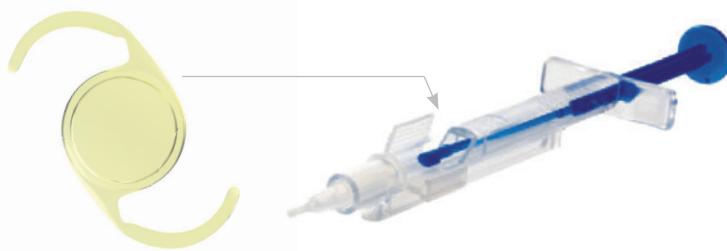
- Keeping the empty capsular bag open for IOL insertion
- Flattening the anterior capsule to facilitate capsulorhexis



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: a0 a1 a2	HofferQ: pACD	Holl:1: sf SRK/T SRK II n Ref.
	1.32 0.40 0.10	5.51	1.75 118.9 119.2 190 [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

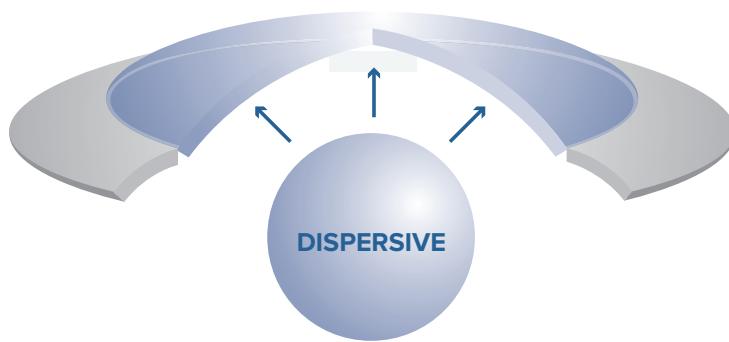
Advantages

- 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



*Not available in the US

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

SMARTVISC/SMARTVISC PLUS*

Ophthalmic Viscosurgical Device

SmartVisc is a cohesive, sterile, highly purified, non-inflammatory, sodium hyaluronate viscoelastic solution with high molecular weight. It is used to keep the anterior chamber formed, to keep the anterior capsule flat during capsulorhexis creation, to move and manipulate iris or other tissues and to keep the empty capsular bag open for IOL insertion.

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

supplied with a cannula

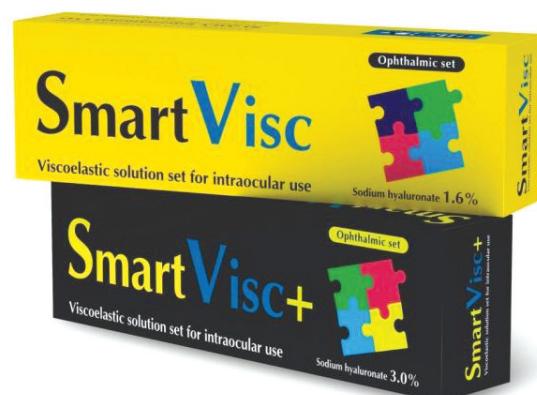
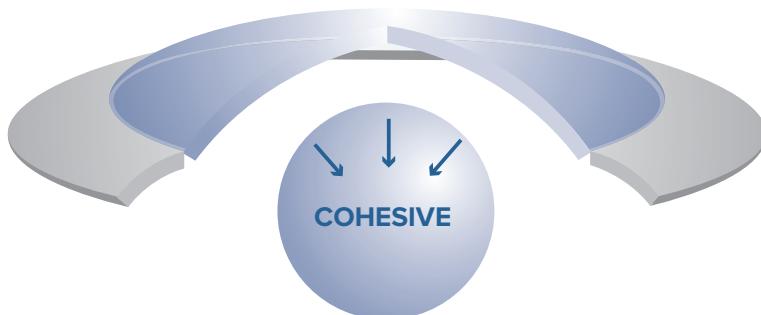


Advantages

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

Cohesive 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



CE

*Not available in the US

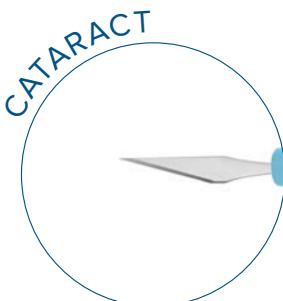
Product design and/or features that do not influence its functionality and main parameters are subject to change

DISPOSABLE KNIVES

STERILE



ALL KNIVES ARE EQUIPPED WITH SAFETY LIDS



Side-Port Knives

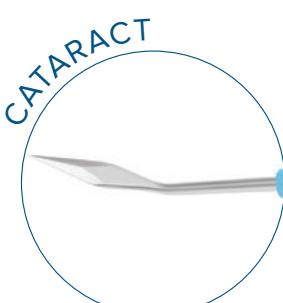
Initial stab incisions

Straight, double bevel

SP-15 1.00 mm, 15° 

SP-30 1.00 mm, 30°

SP-45 1.00 mm, 45°

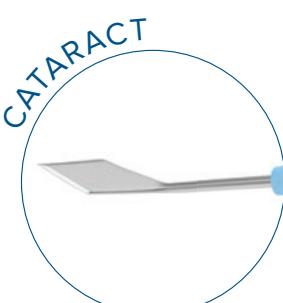


Paracentesis Knives

Paracentesis incisions/side-port incisions

Angled, double bevel

PK-11 1.10 mm



Slit Knives

Scleral tunnel incisions

Angled, single bevel

SL-22 2.20 mm

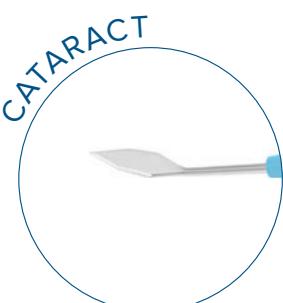
SL-24 2.40 mm

SL-26 2.65 mm

SL-27 2.75 mm

SL-28 2.80 mm 

SL-32 3.20 mm



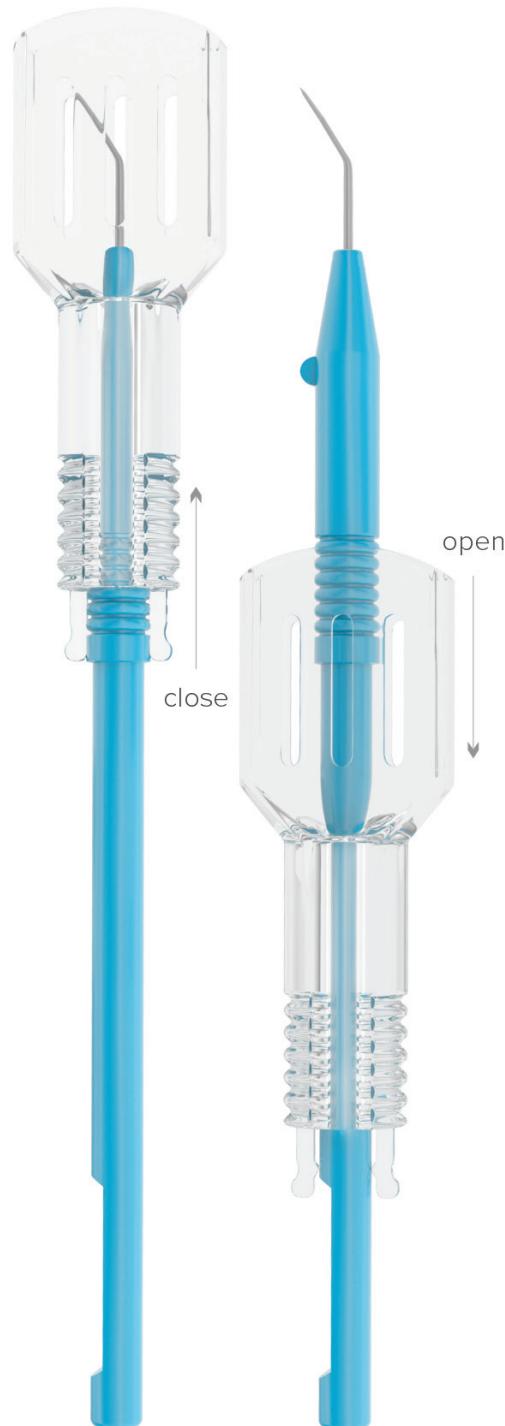
Trapezoid Knives

Tunnel incisions

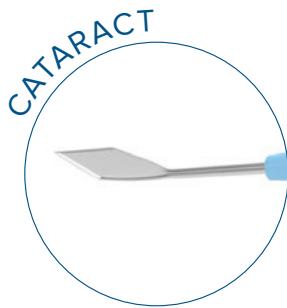
Angled, single bevel

TR-10 1.20-1.40 mm

TR-17 1.50-1.70 mm



CE

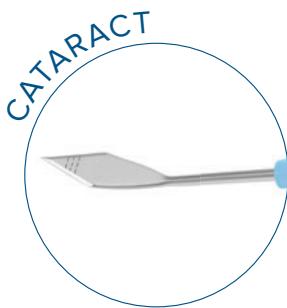


Clear Corneal Knives

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

STERILE



Clear Corneal Knives with Depth Indicators

Tunnel incisions
Angled, double bevel

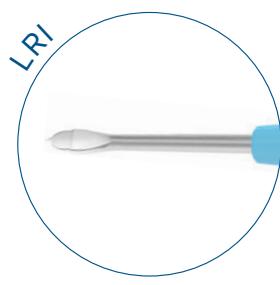
- CCD-22 2.20 mm 1.50, 1.75 mm depth indicators
- CCD-24 2.40 mm 1.50, 1.75, 2.00 mm depth indicators
- CCD-26 2.65 mm 1.50, 1.75, 2.00 mm depth indicators
- CCD-27 2.75 mm 1.50, 1.75, 2.00 mm depth indicators



Crescent Knives

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

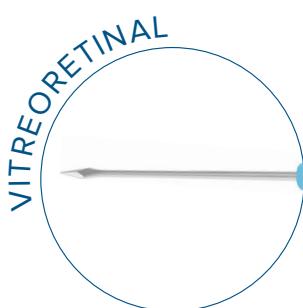
- CR-20 2.00 mm 



Pre-Set Knives

Groove making/limbal relaxing incisions
Multifacet

- PD-60 600 µm Depth



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



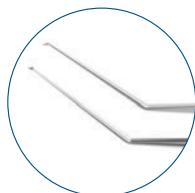
Spatula for
Femtosecond Laser Procedure
20-204D



Forcesps

Overall length 104 mm

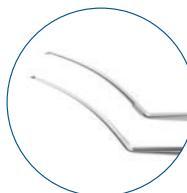
STERILE



Utrata Capsulorhexis Forceps

Cystotome tips
Straight

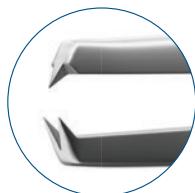
4-0311D



Utrata Capsulorhexis Forceps

Cystotome tips
Curved

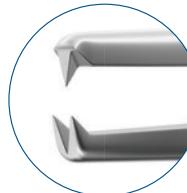
4-0331D



Castroviejo Suturing Forceps

0.12 mm

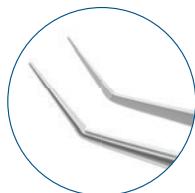
4-0600D



Bonn-Catalano Corneal Forceps

0.12 mm

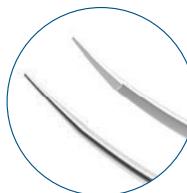
4-0551D



McPherson Tying Forceps

Angled

4-174D

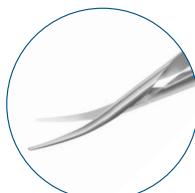


McPherson Tying Forceps

Curved

4-177D

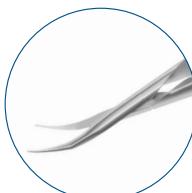
Scissors



Castroviejo Universal Corneal Scissors

Blunt tips
Overall length 106 mm

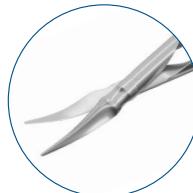
11-012D



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

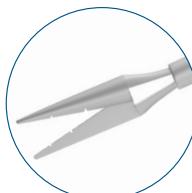
Stainless steel
For silicon and acrylic IOLs



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



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

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*



NEW



Eye Shields

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

16-201D



MANI OPHTHALMIC SUTURES*

STERILE



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 Description	Length	Shape	Needle Length	Curve	Diameter	Main Application
10-0 Nylon Black Mono Sutures							
22-R1404		30 cm	Trape Spatula	5.5 mm	7/16 (158°)	0.14 mm	Cornea, Sclera, Sclera Flap
22-R1410		30 cm	Trape Spatula	7 mm	1/2 (180°)	0.14 mm	Sclera, cornea
22-R1404S		15 cm	Trape Spatula Single-armed	5.5 mm	7/16 (158°)	0.14 mm	Sclera, cornea
22-R2002		30 cm	Trape Spatula	6.5 mm	3/8 (135°)	0.20 mm	Sclera, cornea
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		30 cm	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

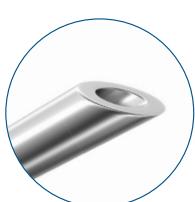
A hub of each cannula has a color according to its gauge.
To learn more, please see the cannula gauge conversion chart below.

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

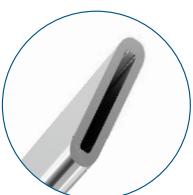


*Not available in Europe

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.

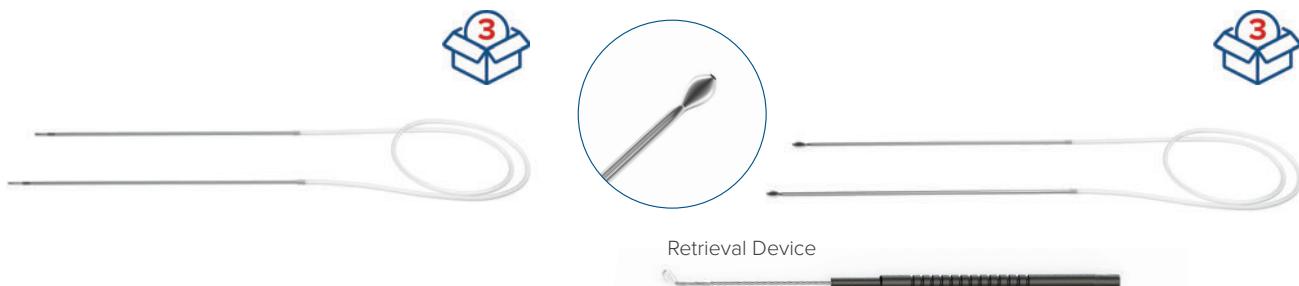
Lindstrom Lasik Irrigating Cannula

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

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
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COMING SOON

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ONE-PIECE CAPSULORHEXIS FORCEPS WITH RUMEX FLUSHING SYSTEM

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

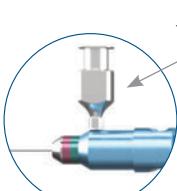
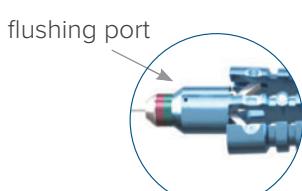
Delicate cleaning – flushing liquid streams towards the tips with zero stress for the jaws

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**



4-0361*

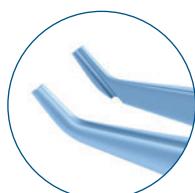
- For penetrating the Schlemm's canal and unroofing it by stripping away the trabeculum
- Reduced risk of trauma to the outer wall of Schlemm's canal and the ostia of the collector channels
- Uniquely shaped jaws enable both penetrating and grasping the trabeculum
- May be introduced through a paracentesis

12-003T



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

*Tip only. Handles are sold separately.

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

CATARACT

Yamane
technique

3-199

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.

A ring for precise centration

2-102S

Braunstein Fixed Caliper

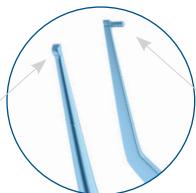
- To create 2.00 to 2.50 mm marks
- Fine tips mark the distance from limbus to sclera



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.

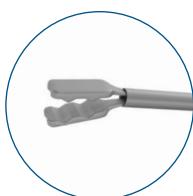
Product design and/or features that do not influence its functionality and main parameters are subject to change

NEW & COMING SOON PRODUCTS

REFRACTIVE

4-21433* ICL Cartridge Loading Forceps, 20 Ga

12-003T Universal Squeeze Handle



4-21433*

+



12-003T

- 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®

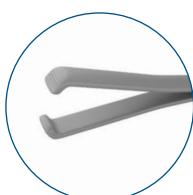
VITREORETINAL

12-450-23*

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

12-003T

Universal Squeeze Handle



12-450-23*

+



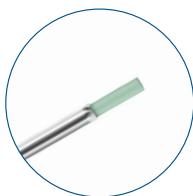
12-003T



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

VITREORETINAL CANNULAS

Disposable Backflush Cannulas**



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

STERILE

2

10



Green Soft Tip Cannulas

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

*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**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

STERILE**Disposable Non-Vacuum Trehines***

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 Trehines***

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

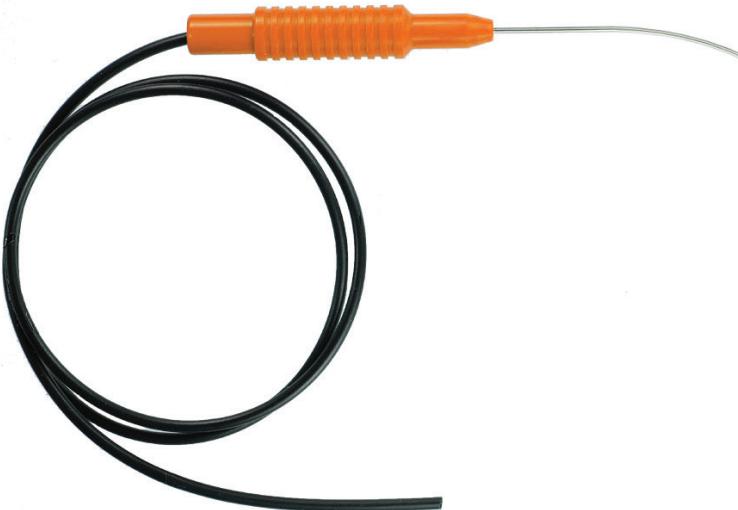


NEW & COMING SOON PRODUCTS

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	
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		

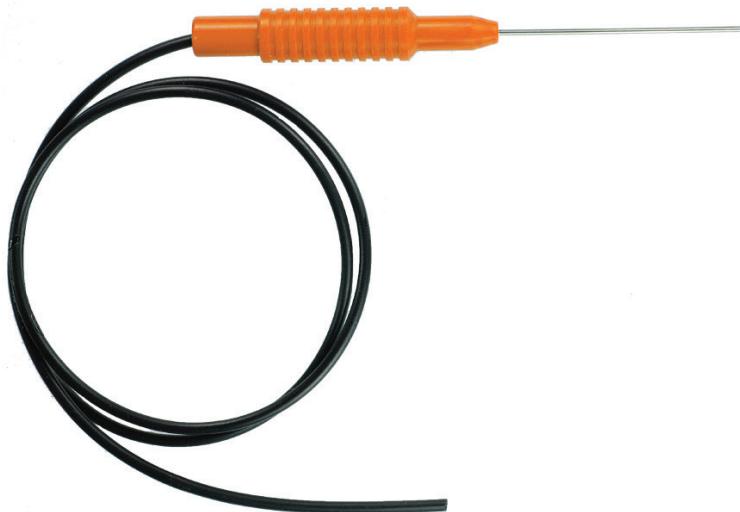
*Not available in the US and Europe

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

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

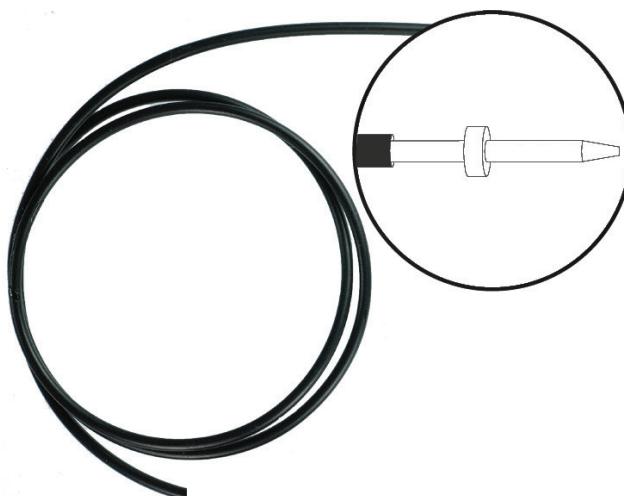
NEW & COMING SOON PRODUCTS

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	12-4526 25 Ga	12-5223 23 Ga 12-5225 25 Ga 12-6327 27 Ga
B&L®	12-4573 23 Ga	12-4545 25 Ga	
Oertli®	12-4593 23 Ga	12-4543 25 Ga	12-5543 23 Ga 12-5545 25 Ga
Synergetics®	12-4553 23 Ga	12-4525 25 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

DISPOSABLE VITRECTOMY CUTTERS*

Help to efficiently cut and aspirate vitreous.

STERILE



- 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

NEW & COMING SOON PRODUCTS

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 Medicel® Accuject™ IOL is preloaded in a cartridge in a container with liquid

* Products in the process of development and certification

** Posterior Capsule Opacification

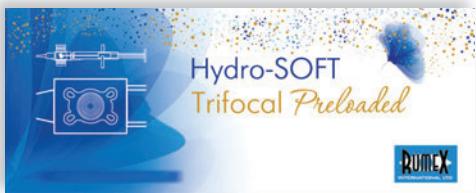
Product design and/or features that do not influence its functionality and main parameters are subject to change

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 Medicel® 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

VitreoBlue

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

COMING SOON*

STERILE



VitreoBlue Plus

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

STERILE



SmartBlue

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

STERILE



PFO LIQUID

VitreoOcta

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

STERILE



REUSABLE ANTERIOR INSTRUMENTS

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BLADE HOLDERS

Blade Holder

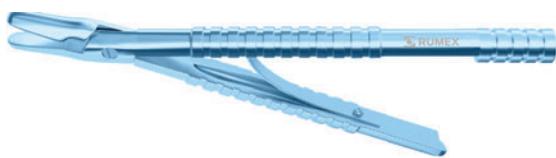
Round knurled handle with end lock

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

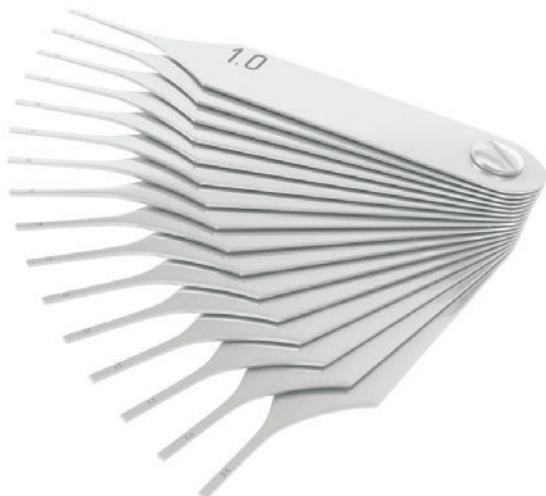
2-010T 0-20.00 mm
2-010S 0-20.00 mm



**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

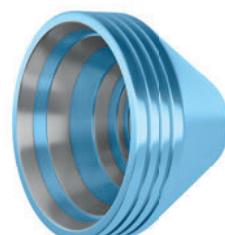
2-062S 1.00-2.50 mm



**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

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

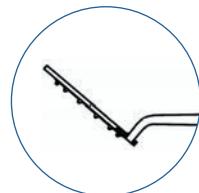
Matte finish

ID 13.00 mm/ED 19.00 mm

Overall length 134 mm

Titanium

2-031T



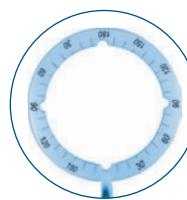
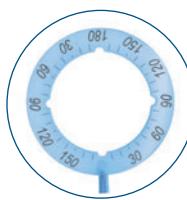
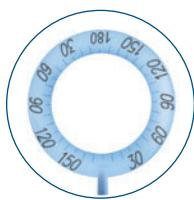
Mendez Degree Gauge

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

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

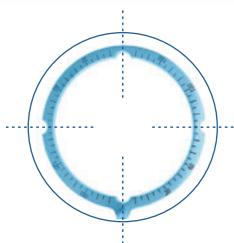
With 4 grooves for better marks visualization
ID 13.00 mm/ED 16.50 mm
Overall length 122 mm

2-030T 

2-033T

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

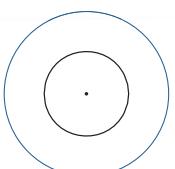
CAPSULORHEXIS MARKERS

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

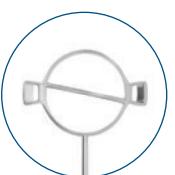
Apostolov Yamane IOL Fixation Marker

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



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

REUSABLE ANTERIOR INSTRUMENTS

3 - MARKERS

CORNEAL TRANSPLANT MARKERS

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

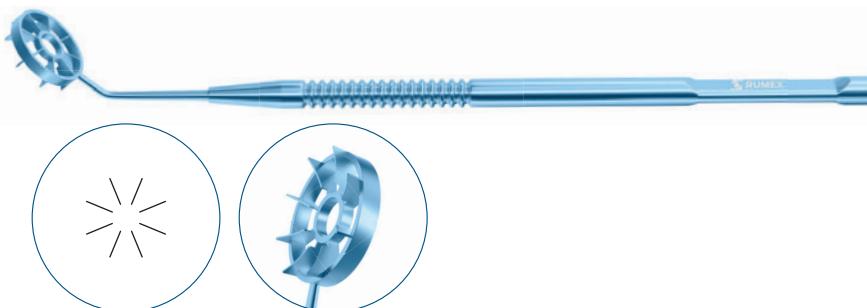
Overall length 125 mm
Titanium
3-024T



- 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



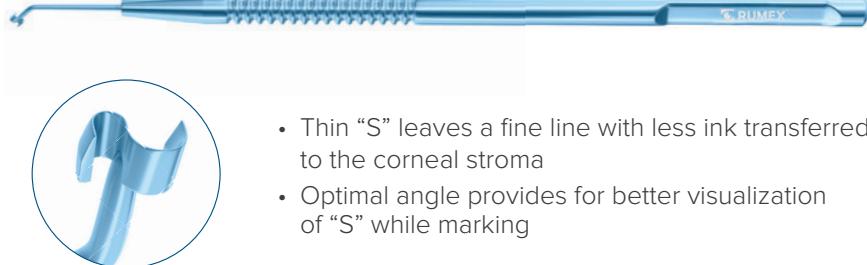
John
DSAEK Double-Ended Marker

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

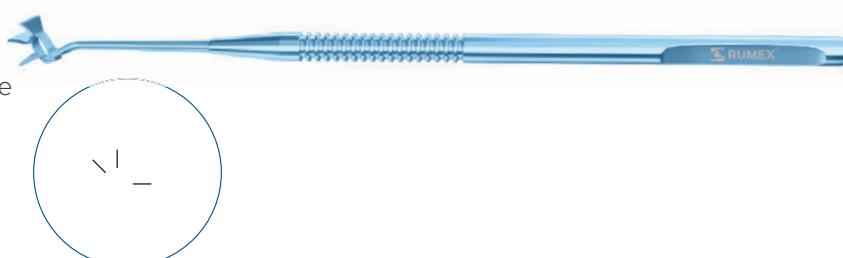
3-174T



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

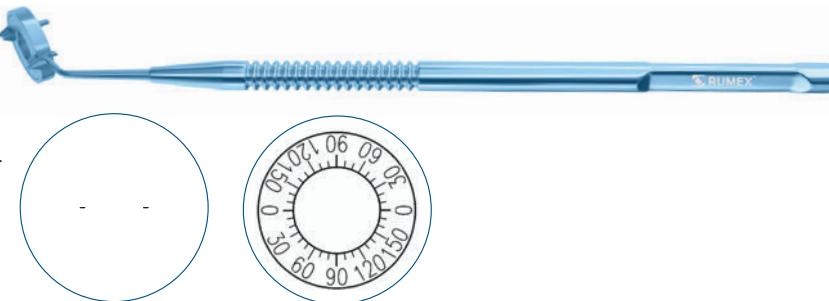


TORIC IOL MARKERS

Toric IOL Marker

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

3-181



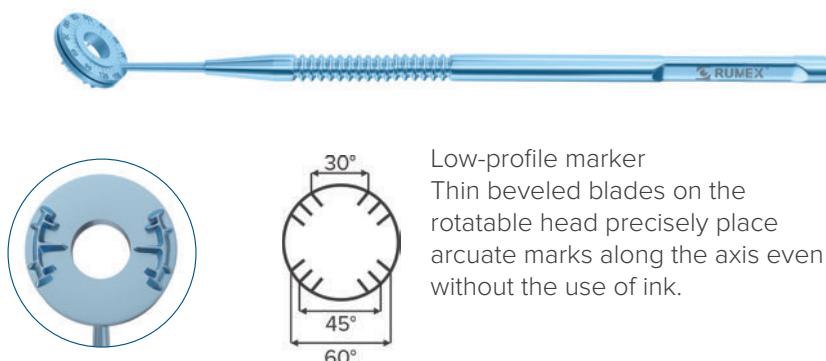
REUSABLE ANTERIOR INSTRUMENTS

LRI MARKERS

LRI Marker

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

3-183T

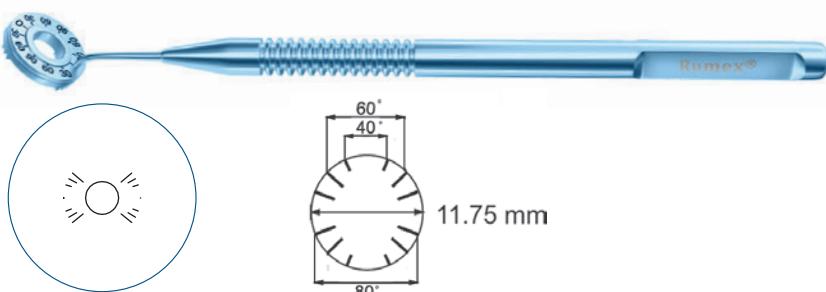


Low-profile marker
Thin beveled blades on the rotatable head precisely place arcuate marks along the axis even without the use of ink.

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

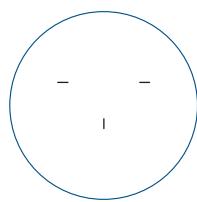
3-192



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

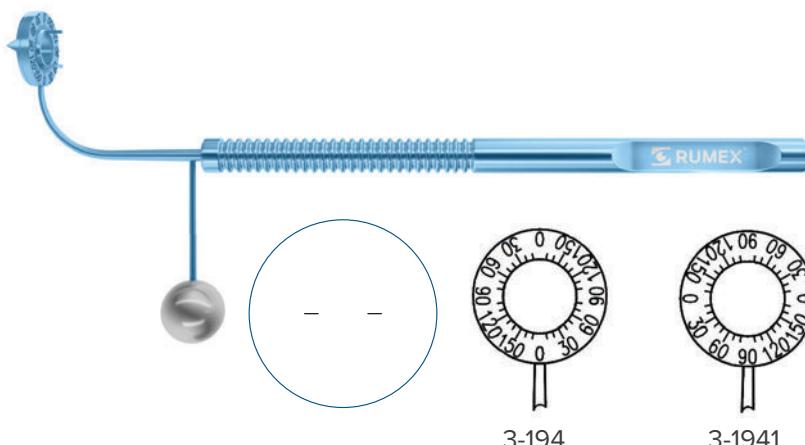
3-1932

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

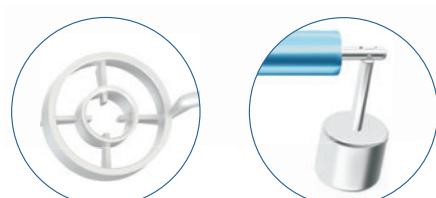
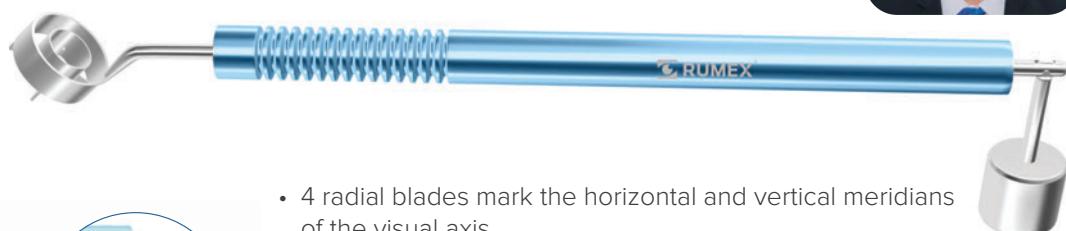
3-1941

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

REUSABLE ANTERIOR INSTRUMENTS

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



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

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



MARKING PENS

STERILE



Disposable Marking Pen

Double-ended

20-050*



* Not available in Europe

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

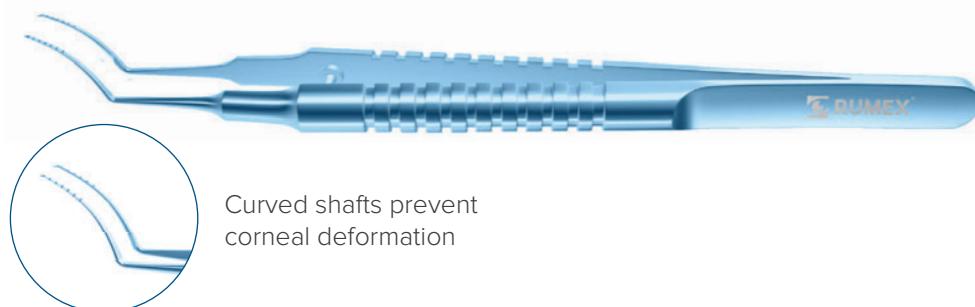
A VARIETY OF CAPSULORHEXIS FORCEPS

STANDARD

2.20 - 3.00 mm

4-0331T Ultrata Capsulorhexis Forceps with Scale

Cystotome tips, TC*



Curved shafts prevent corneal deformation

4-0331D ❤️ Disposable Ultrata Capsulorhexis Forceps

STERILE



Cystotome tips



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*



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

Cystotome tips, TC*



*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.

REUSABLE ANTERIOR INSTRUMENTS

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



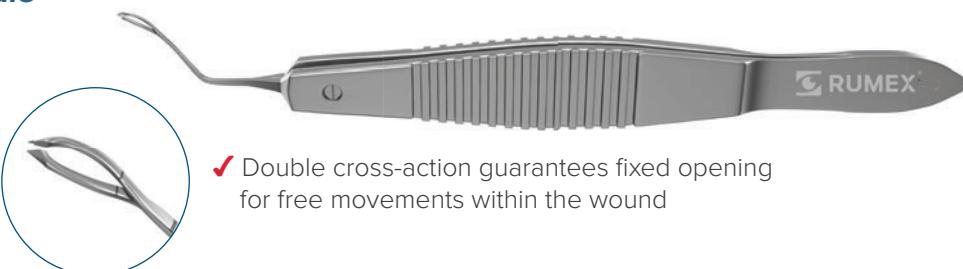
- ✓ Cross-action prevents hyperextension of the incision
- ✓ Hinge joints ensure even distribution of pressure at three points of forceps

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

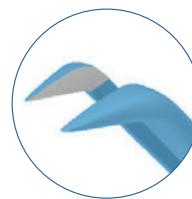
FORCEPS

CAPSULORHEXIS FORCEPS

Tungsten carbide coated cystotome tips for improved gripping



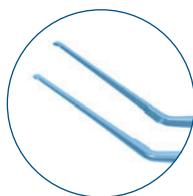
Regular tips



Cystotome tips

Utrata Capsulorhexis Forceps

11.50 mm jaws
Flat handle
Titanium



Straight jaws
Regular tips

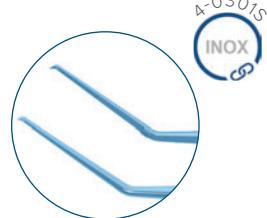
Overall length 82 mm

4-030T 



Straight jaws
Cystotome tips
Overall length 82 mm

4-0300T 



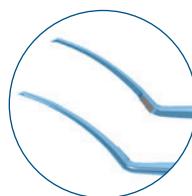
Straight jaws
Cystotome tips
Overall length 107 mm

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 



REUSABLE ANTERIOR INSTRUMENTS

CAPSULORHEXIS FORCEPS

Microcoaxial Capsulorhexis Forceps with Limiter

Curved jaws, 11.50 mm

Cystotome tips

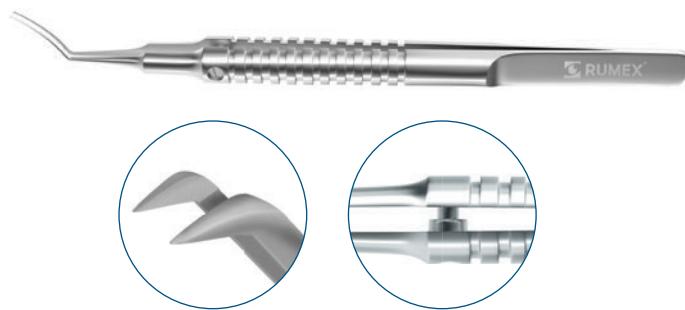
Ultra-thin profile and limiter for capsulorhexis even through 2.00 mm incision

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



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



- 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

REUSABLE ANTERIOR INSTRUMENTS

4 - FORCEPS

Tungsten carbide coated cystotome tips for improved gripping



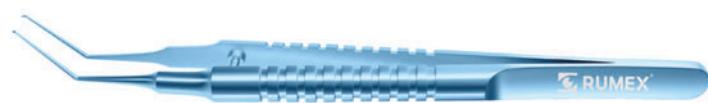
Regular tips



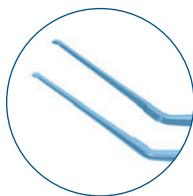
Cystotome tips

Utrata Capsulorhexis Forceps

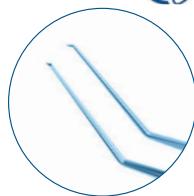
11.50 mm jaws
Round handle
Overall length 110 mm
Titanium



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

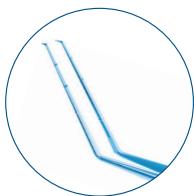


Straight jaws
Regular tips

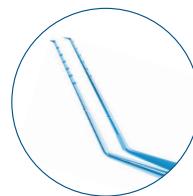


Straight jaws
Cystotome tips

4-0311S
INOX
4-0311D



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



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

4-031T

4-0311T

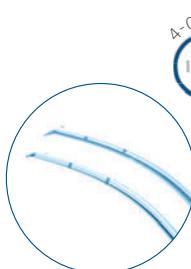
4-03114T

4-03115T

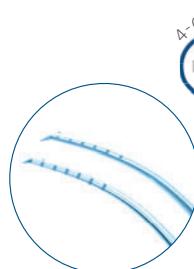


Curved jaws
Cystotome tips

4-0331S
INOX
4-0331D



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



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

4-0331T

4-03314T

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 rhesis.

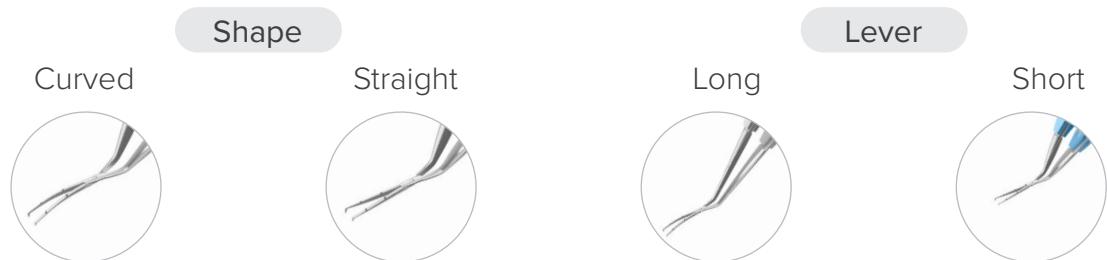
Hinge joints allow for even distribution of pressure at three points.

1.50 mm
8.50 mm tips

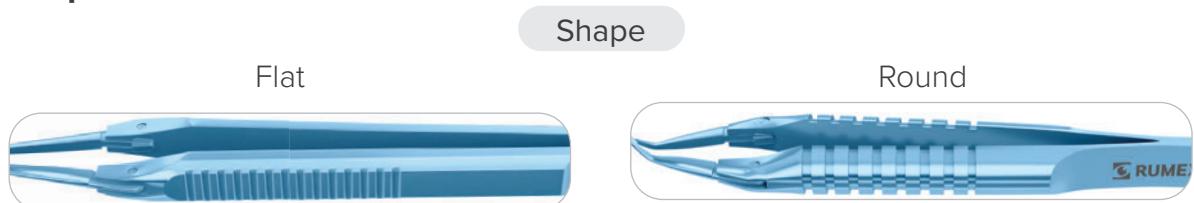


Design custom Cross-Action Capsulorhexis Forceps and we will manufacture them for you!

1. Choose the Tip you prefer:



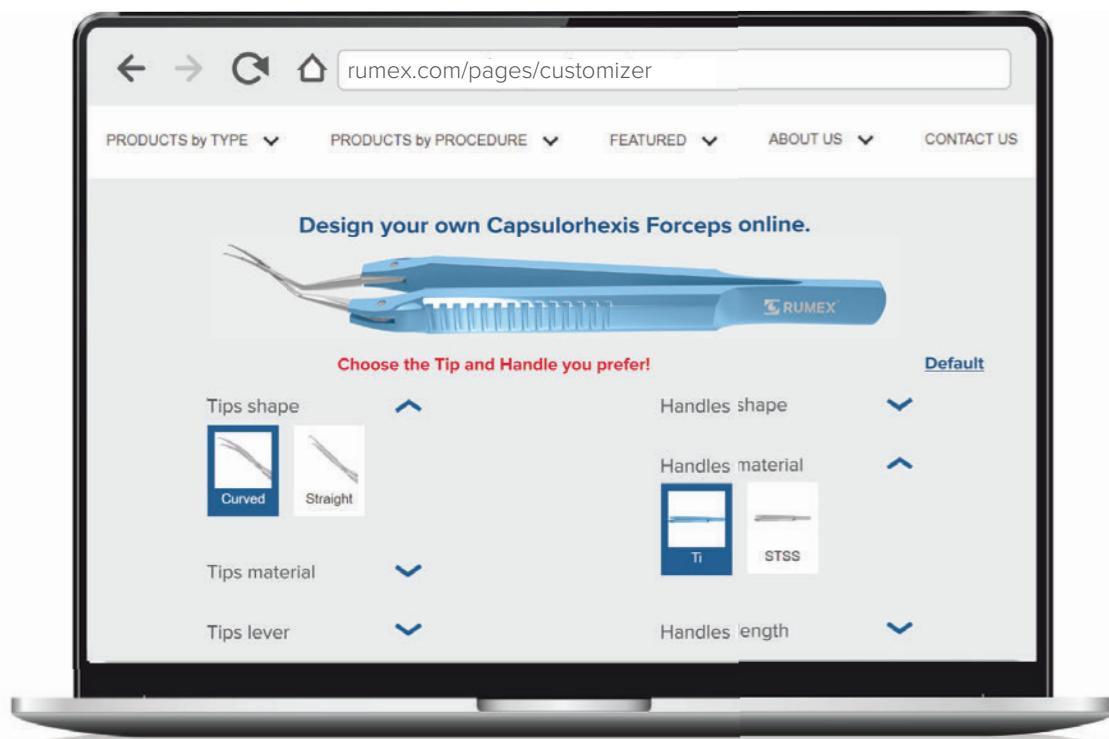
2. Complete with the Handle:



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!

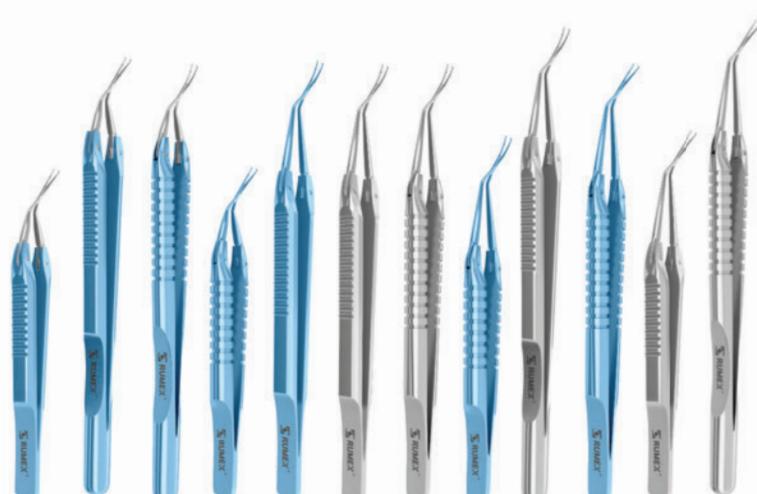
Choose sizes, shapes, and materials that you prefer.

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!



REUSABLE ANTERIOR INSTRUMENTS

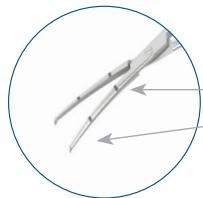
CROSS-ACTION CAPSULORHEXIS FORCEPS

Cross-Action
Capsulorhexis Forceps with Scale

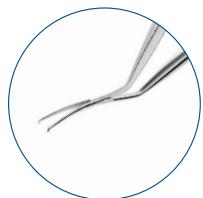
Cross-action prevents the viscoelastic leakage and protects the incision from hyperextension

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

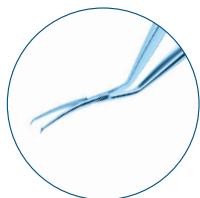
4-0395 

Round handle
Titanium

4-0394 

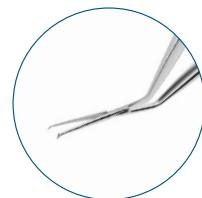
Flat handle
Stainless steel

4-0395S



Curved jaws
Flat handle
Titanium

4-0395T



Straight jaws
Stainless steel

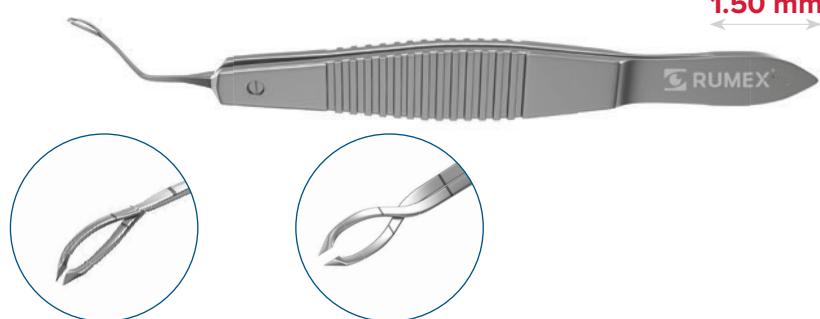
Flat handle
Titanium

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

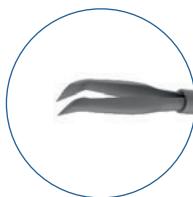
Stiff and flexible Stainless Steel tube

With fixation wheel

Kershner
One-Pinch Capsulorhexis Forceps

Curved shaft

Compatible with Squeeze Handle 12-003T

4-03731* 23 Ga
For high vacuum phaco4-03741* 23 Ga 
Micro jaws
Reduced length of the branches
for better maneuverability
in the anterior chamber
during capsulorhexisCapsulorhexis Forceps
with Micro Jaws and Internal RulerThe 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 mmLesieur
Capsulorhexis Forceps with Internal RulerShorter jaws facilitate gripping the capsule
close to the wound.Gently curved and short shaft for better
maneuverability in the anterior chamber7 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

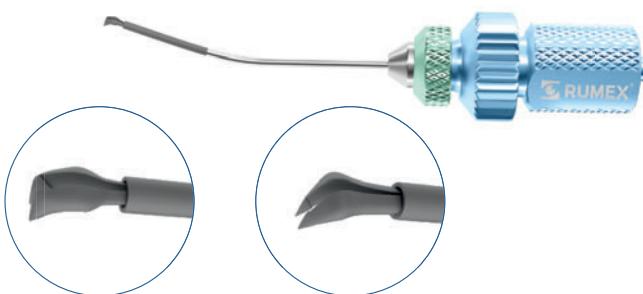
REUSABLE ANTERIOR INSTRUMENTS

4 - FORCEPS

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

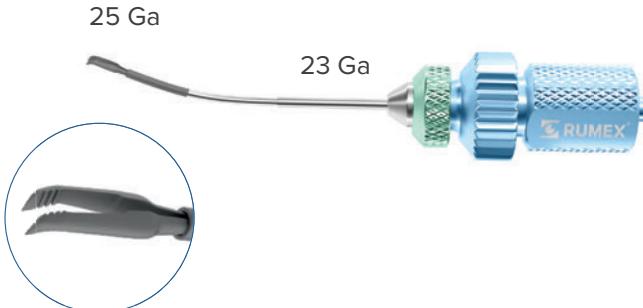
Ikeda Micro
Capsulorhexis
Forceps, 23 Ga

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

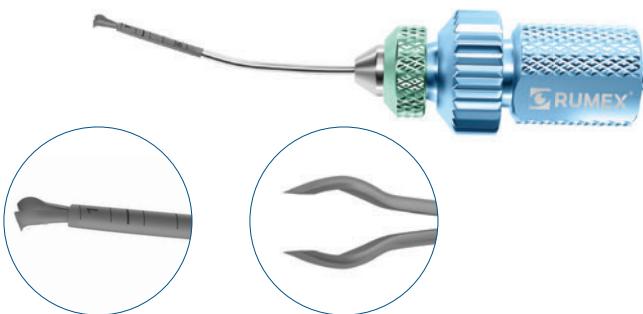
4-03771* 23/25 Ga



Capsulorhexis Forceps with View Port

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

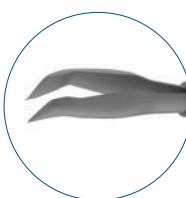
NEW



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

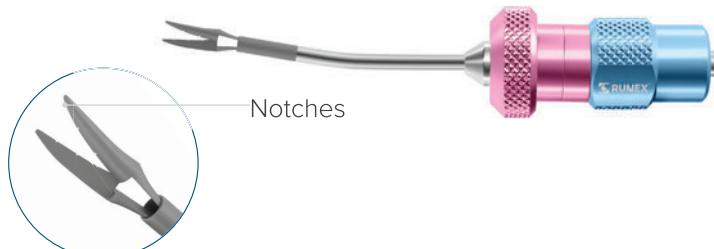
4-2150* 19 Ga 



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

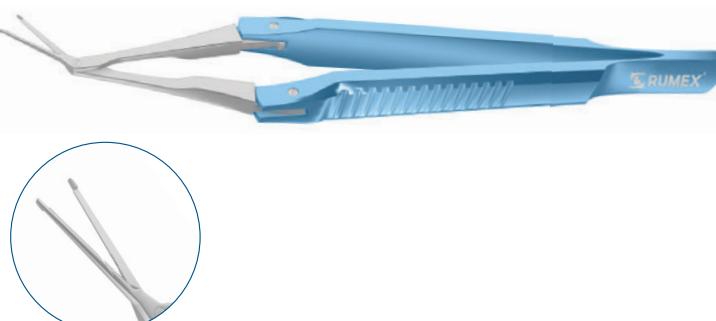
4-2151* 18 Ga 



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

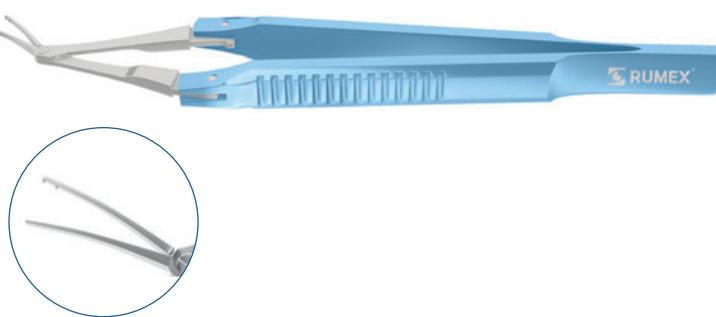
4-2173* 19 Ga 



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

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

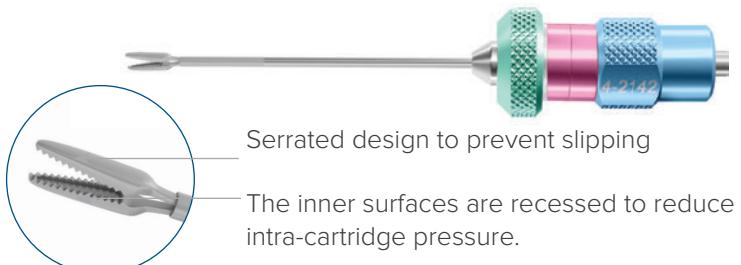
4-2145* 21 Ga



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

NEW

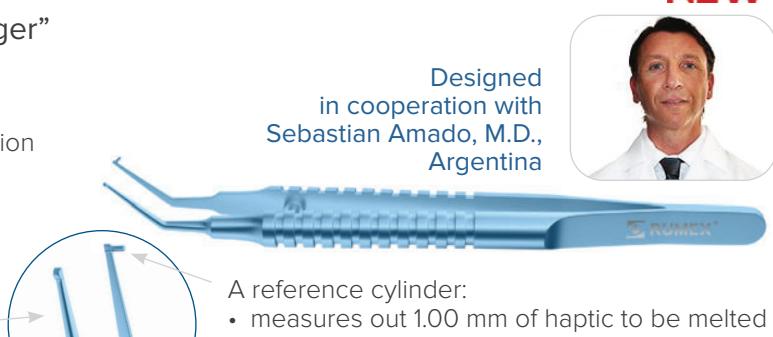
Amado Haptic Holder "Perfect Flanger"

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



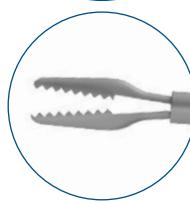
A reference cylinder:

- 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®



A view-port on the upper jaw for perfect visualization

ICL Cartridge Loading Forceps**NEW**

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**

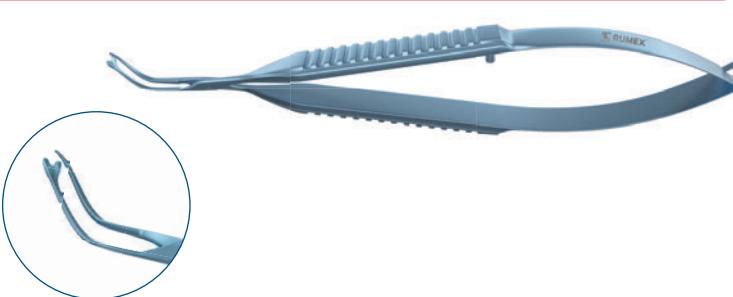
Used for implantation of toric ARTISAN® IOL. Specially designed jaws help to fixate the lens optic during the enclavation.

Flat handle

Overall length 100 mm

Titanium

4-260T



REUSABLE ANTERIOR INSTRUMENTS

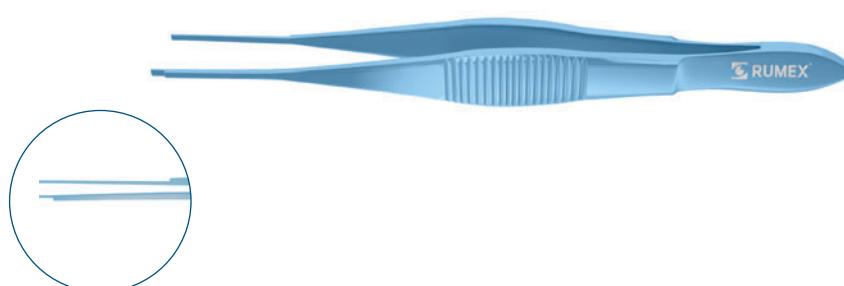
LENS INSERTERS

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

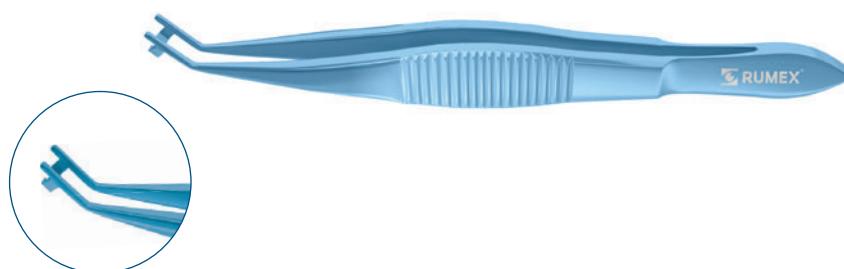
4-2141T



Steinert Paddle Lens Folding Forceps

Angled shafts
Flat handle
Overall length 110 mm
Titanium

4-2107T



Faulkner Lens Holding Forceps

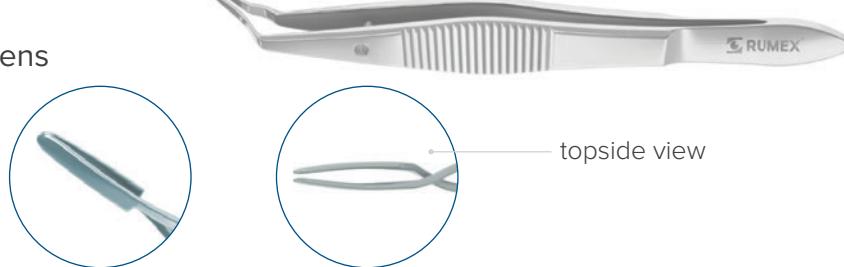
Angled shafts
Smooth jaws
Flat handle
Overall length 105 mm
Stainless Steel

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



Acrylic Lens Insertion Forceps

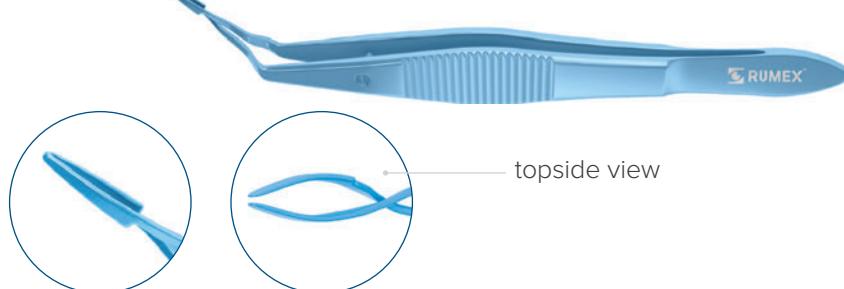
Flat handle
Overall length 105 mm
Titanium

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



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

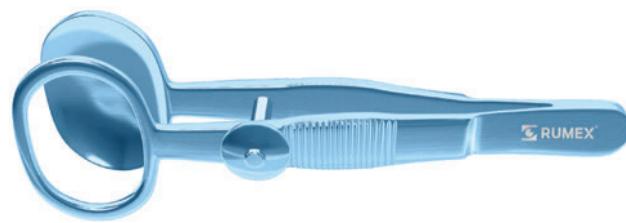
Titanium

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

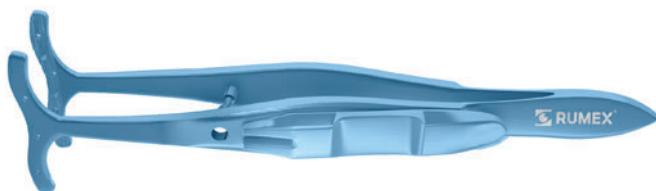
Serrated jaws

Sliding lock

Overall length 100 mm

Titanium

4-140T

**CONJUNCTIVA FORCEPS****Fechtner
Conjunctiva Forceps**

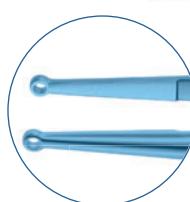
Delicate ring tip jaws

Flat handle

Overall length 108 mm

Titanium

4-2301T



REUSABLE ANTERIOR INSTRUMENTS

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.

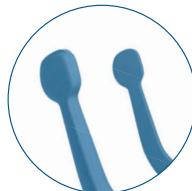
Angled

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

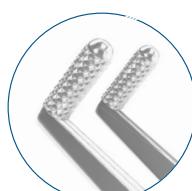
Designed for mechanical meibum removal.

Flat handle

Overall length 107 mm

Stainless Steel

4-124S 



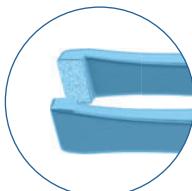
Texturized rollers are safe for the conjunctiva. Quick and delicate meibum expression is achieved by even squeezing of the eyelid from its base to the margin.

CILIA FORCEPS

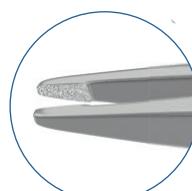
Cilia Forceps

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

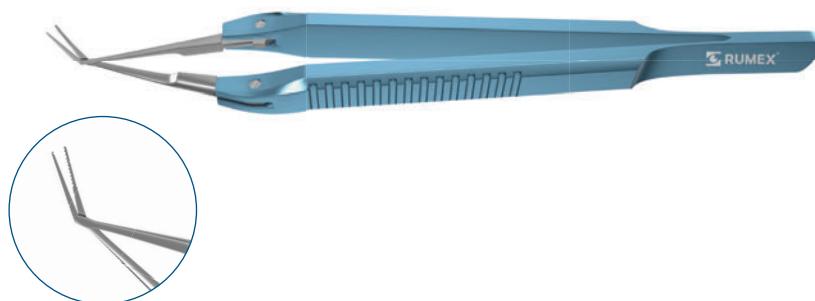
Designed to grasp the lenticule and remove it from the corneal pocket.

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

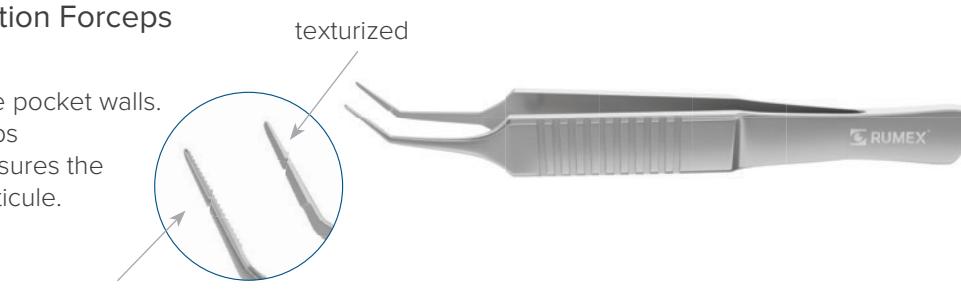


SMILE Lenticule Extraction Forceps with Serrations

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

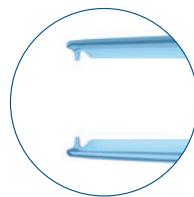
4 - FORCEPS

ICRS FORCEPS

Forceps
for ICRS Implantation

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

4-2144T

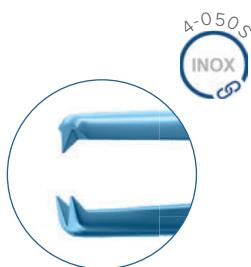


CORNEAL FORCEPS

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

Colibri Corneal Forceps

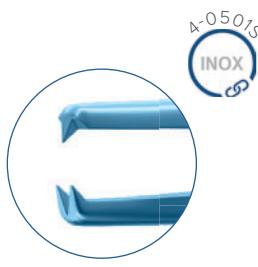
5.00 mm tying platform
Flat handle



Colibri

1x2 teeth 0.12 mm
Overall length 84 mm
Titanium

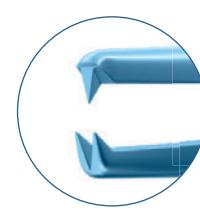
4-050T 



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



Corneal Forceps

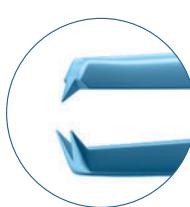
5.00 mm tying platform
Titanium



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 



Bonn

1x2 teeth 0.12 mm
Flat handle
Overall length 94 mm
Medium size

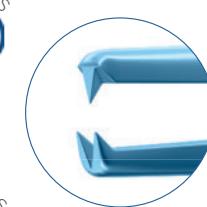
4-058T 



Bonn

1x2 teeth 0.12 mm
Flat handle
Overall length 72 mm
Small size

4-059T



1x2 teeth 0.30 mm
4-056T

1x2 teeth 0.50 mm
4-057T

REUSABLE ANTERIOR INSTRUMENTS

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

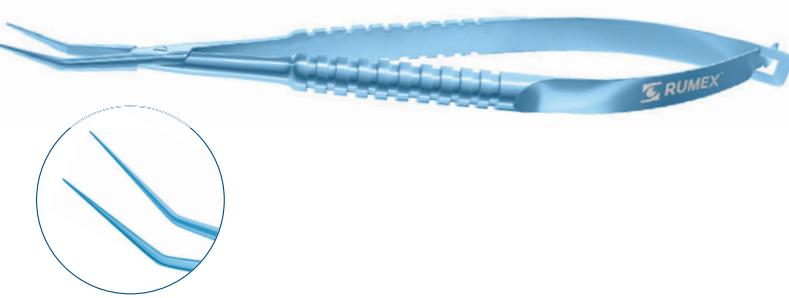
4-246S



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



REUSABLE ANTERIOR INSTRUMENTS

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

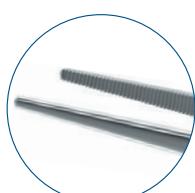
4-070S ❤



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

REUSABLE ANTERIOR INSTRUMENTS

FIXATION FORCEPS

Adson
Fixation Forceps

Ideal for plastic & reconstructive surgery

Flat handle

Overall length 124 mm

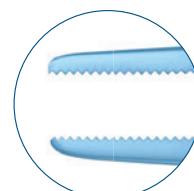
Stainless Steel or Titanium

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

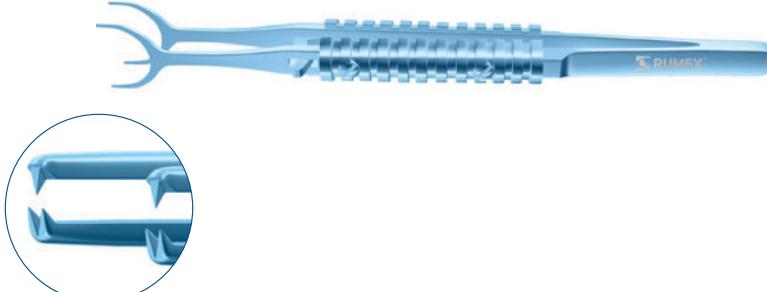
Pierce type tips

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

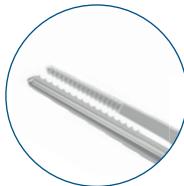
Overall length 105 mm

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

NEW

Designed in cooperation with
Valentin Apostolov, MD,
OLVG

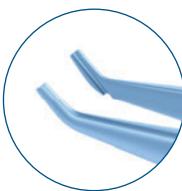
**Ahmed Valve Tube Insertion Forceps**

- 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

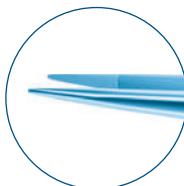
Overall length 110 mm
Titanium

4-075T

NEW

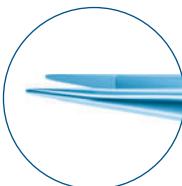
**JEWELER FORCEPS**

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

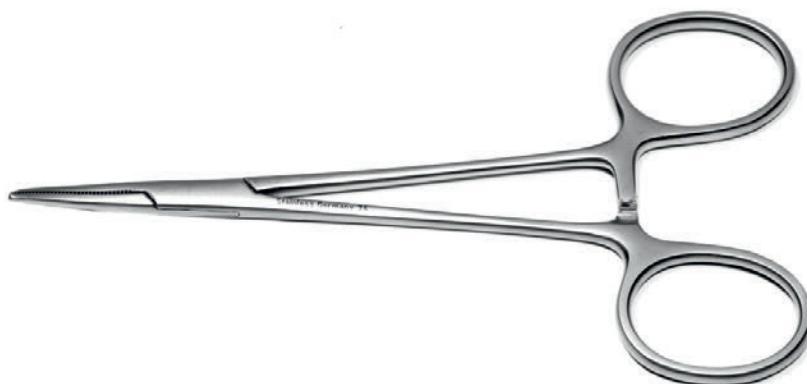
4-120S Straight (shown)
4-121S Curved 



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

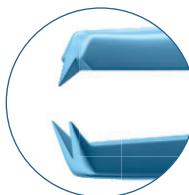
Overall length 110/108/108 mm

4-0600T 1x2 teeth, 0.12 mm

4-0601T 1x2 teeth, 0.30 mm

4-0602T 1x2 teeth, 0.50 mm

Titanium or Stainless Steel



Paufique Suturing Forceps

1x2 teeth, 0.50 mm

Tying platform, 6.00 mm

Flat handle

Overall length 87 mm

4-0606T Titanium

Bishop-Harmon Suturing Forceps

1x2 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

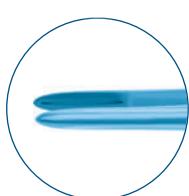
Grooved section, 14.00 mm

Flat handle

Overall length 110 mm

Titanium

4-2303T



REUSABLE ANTERIOR INSTRUMENTS

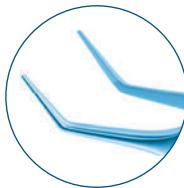
TYING FORCEPS

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

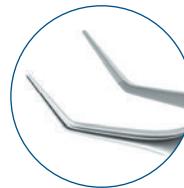
4-092T



Tying platforms, 8.00 mm
Overall length 84 mm

Stainless Steel

4-091S



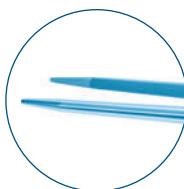
Tying platforms, 10.00 mm
Overall length 86 mm
Stainless Steel

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



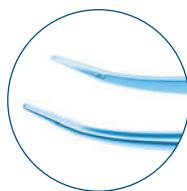
Curved
Tying platforms, 4.00 mm
Overall length 109 mm
Titanium

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 



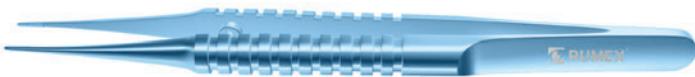
RUMEX

Tennant Tying Forceps

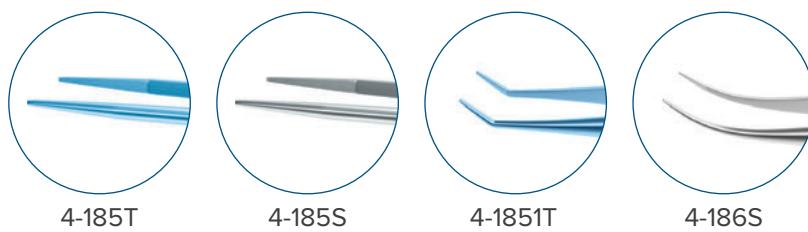
For 9-0 to 11-0 sutures

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	



RUMEX



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



MICS

RUMEX

*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

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

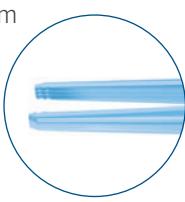
Cross serrations at tips

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



**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 Straight



**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 Straight



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



**Bechert
Nucleus Rotator**
Angled, 10.00 mm from tip to angle
“Y”-shaped tip
Overall length 121 mm
5-034 Straight



**Fenzl
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



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

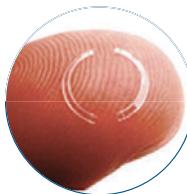
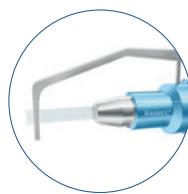
1.00 mm

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

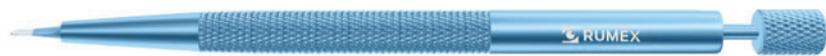


UNIVERSAL SIDE-PORT KNIVES

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

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



Clear Cornea Blades

6-20/6071 – 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



LRI KNIVES

up to 3000
INCISIONS



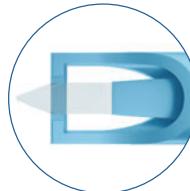
Universal Three-Step Knife for Cataract and LRI Surgery

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

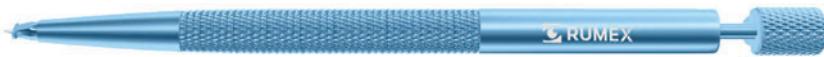
6-500S/6-0531
Preset depth 500 microns
6-600S/6-0531
Preset depth 600 microns



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

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

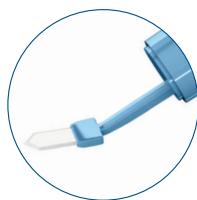


60° Double Edge Lancet Blade
1.00 mm

6-10/6SK-070 

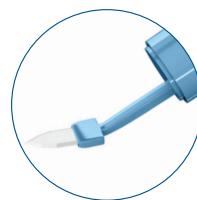
PHACO KNIVES

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.

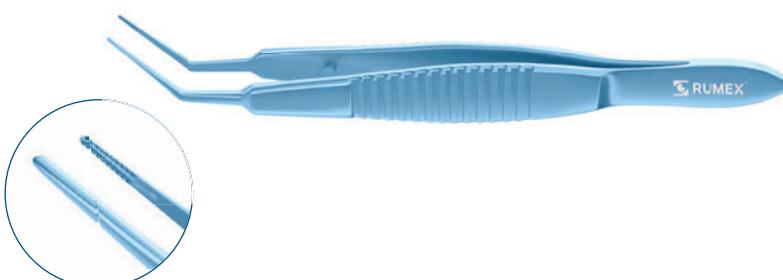
2 rows of delicate teeth

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 mm7-1165S 

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 mm7-1161S 

Combo Prechopper

Straight
For sub-2.00 mm Coaxial Micro Phaco
Max opening 2.00 mm
Overall length 121 mm7-1162S 

Akahoshi Prechopper

Straight
Groove enables easy rotation of the nucleus during prechopping.
Max opening 3.00 mm
Overall length 121 mm7-1163S 

Inamura Prechopper

Straight
Max opening 2.80 mm
Overall length 120 mm

7-11651S



Crozafon Prechopper

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

7-1167S



Escaf Prechopper

Straight
Round handle
Overall length 120 mm
Stainless Steel7-149S 

- 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



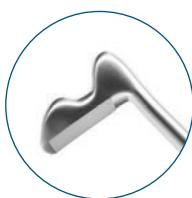
Universal Multifunctional Phaco Chopper

- 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

Escarf Nucleus Manipulator

Overall length 120 mm



7-1171

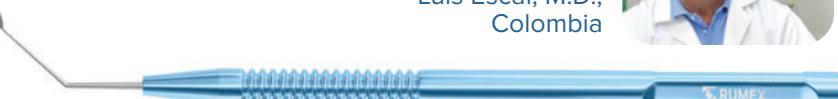
45° bent tip



7-117

30° bent tip

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



- 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

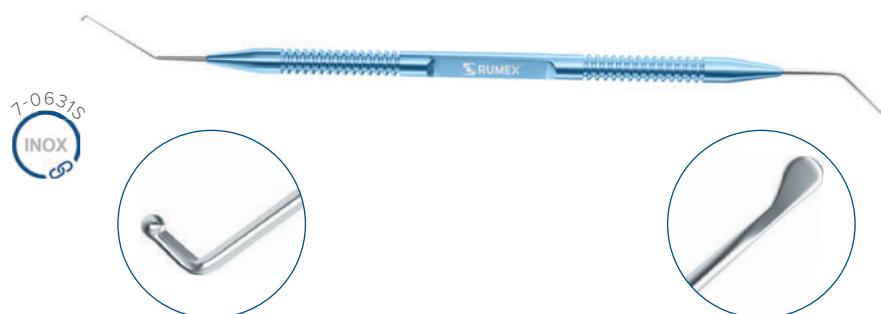
RHD for right-handed surgeon - to hold in the left hand
LHD for left-handed surgeon - to hold in the right hand

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 

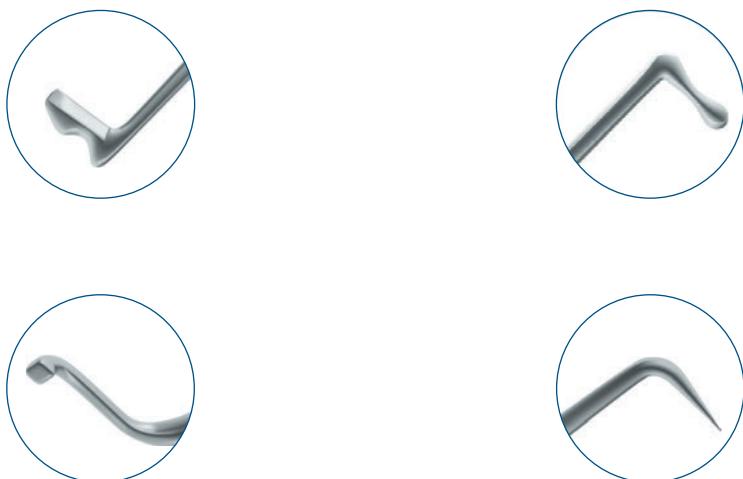


Double Phaco Spatula

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

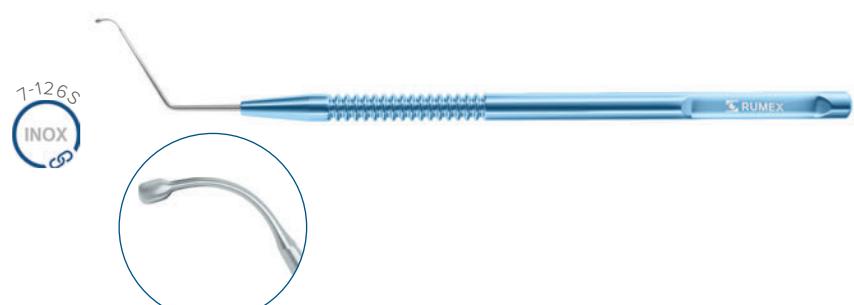
7-1361 RHD 



**Triple Edge Phaco Chopper
with Polisher Tip**

Overall length 117 mm

7-126 



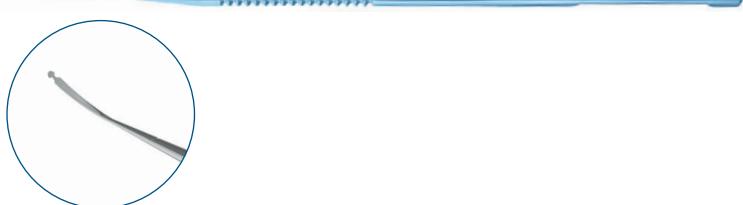
Koch Nucleus Spatula

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.

20 Ga tip with Nagahara type chopper (for 1.00 mm incisions)

The end opening port provides maximum irrigation.

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

Titanium handle/Stainless Steel tip

Overall length 105 mm

7-0634/I 20 Ga

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



CAPSULE POLISHERS

Anterior/Posterior Capsule Polisher

135° angled shaft

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

7-142

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



REUSABLE ANTERIOR INSTRUMENTS

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

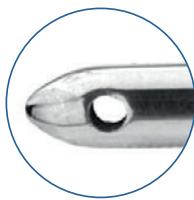
Irrigation Handpiece
for Bimanual Technique

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

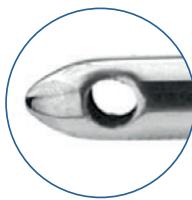


Irrigates anterior chamber,
maintaining its stability and providing
for maximal cortex removal.

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 



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



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

IRRIGATION/ASPIRATION HANDPIECES

Stodulka Enhanced Irrigation Handpiece
for Bimanual Technique

Curved tube
Two ports on side 0.50×1.00 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

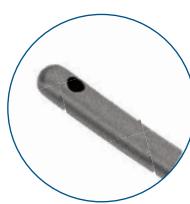
Aspiration Handpiece
for Bimanual Technique

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



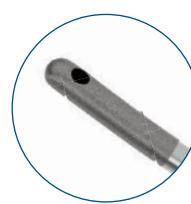
1×0.35 mm top port
Smooth tip
Overall length 104 mm

7-082 21 Ga 



1×0.35 mm top port
Capsule polisher tip
Overall length 104 mm

7-0821 22 Ga 



1×0.35 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

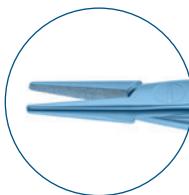
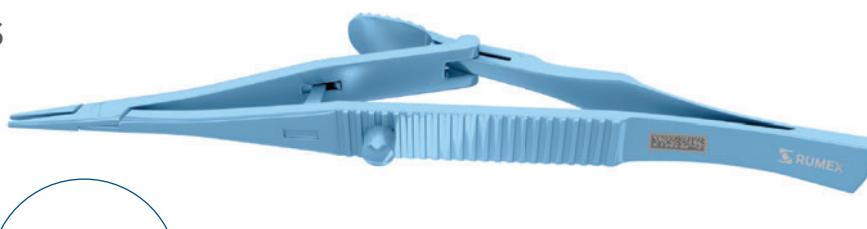
Standard jaws, 10.50 mm

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

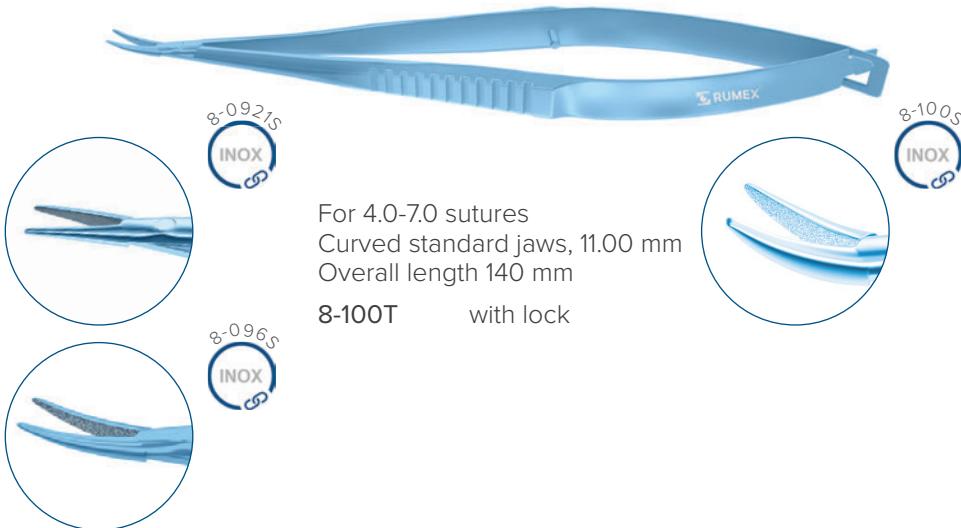


For 7.0-9.0 sutures

Curved delicate jaws, 8.00 mm

Overall length 135 mm

8-096T without lock



ING'S NEEDLE HOLDERS/SCISSORS

Ing's Needle Holder/Scissors

For 4.0-7.0 sutures

Used to cut suture only.

Combination of needle holder and scissors in one instrument

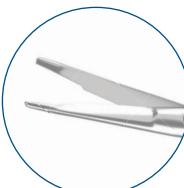
Straight long size jaws, 15.00 mm

Round handle

Overall length 105 mm

Stainless Steel

8-102S



COAXIAL/INTRAOCULAR NEEDLE HOLDERS

Intraocular Needle Holder

For 9.0-11.0 sutures

Designed for intraocular suturing and manipulations with the IOL.

Curved shaft

With fixation wheel

Compatible with Squeeze Handle 12-003T

8-1211-23* 23 Ga



BARRAQUER NEEDLE HOLDER

Tungsten carbide coated tips for advanced gripping

Lightweight

Non-magnetic

Barraquer
Needle HolderTitanium
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



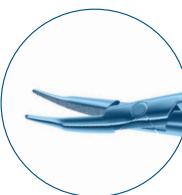
8-031T without lock

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

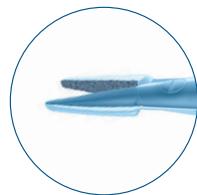


Overall length 125 mm

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



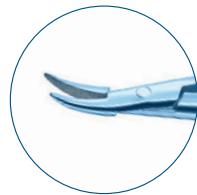
8-041T without lock

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 



Quicker Lacrimal Intubation Probe

Overall length 140 mm

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



Pigtail Lacrimal Probe

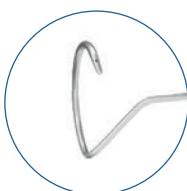
8.00 mm pigtail curved probes with holes

Polished tip

Titanium Handle/Stainless Steel Tips

Overall length 125 mm

- 9-031 



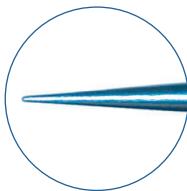
Wilder Lacrimal Dilator

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) 



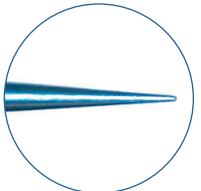
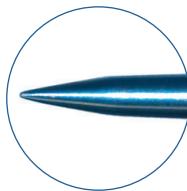
Castroviejo Double-Ended Lacrimal Dilator

Polished tip

Overall length 100 mm

Titanium

- 9-060T size 1 & 2 



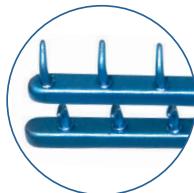
RETRACTORS

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 

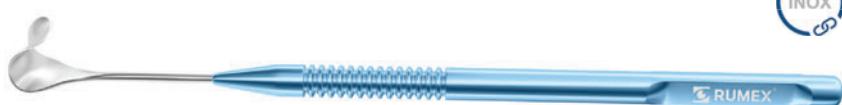


LID & ORBITAL RETRACTORS

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



REUSABLE ANTERIOR INSTRUMENTS

10 - RETRACTORS

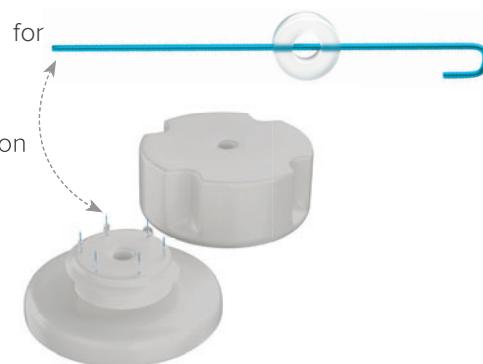
IRIS (PUPIL) DILATORS

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

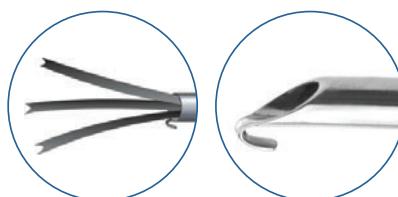
Beehler Pupil Dilator

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

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

Castroviejo Universal Corneal Scissors

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

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

Corneal Universal Scissors

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



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



11-011S
11-012S



11-015S



11-013S



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

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



REUSABLE ANTERIOR INSTRUMENTS

TENOTOMY SCISSORS

Westcott
Tenotomy ScissorsStainless Steel
Curved
Blunt tips11-040D
2Westcott
Tenotomy Scissors13.00 mm blades
15.00 mm from pivot to tip
Overall length 115 mm

11-040S

Shepard-Westcott
Tenotomy scissors16.00 mm blades
Serrated "supercut" upper blade
21.00 mm from pivot to tip
Overall length 123 mm

11-0481S Right

Westcott
Tenotomy Scissors16.00 mm blades
21.00 mm from pivot to tip
Overall length 120 mm

11-042S

Westcott Curved
Tenotomy Scissors15.00 mm Blades
19.00 mm from pivot to tip
Overall length 116 mm

11-049S Left

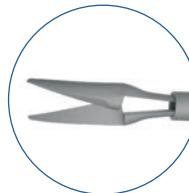
Westcott
Tenotomy Scissors15.00 mm blades
19.00 mm from pivot to tip
Overall length 116 mm

11-048S Right

Stevens
Tenotomy scissorsOverall length 115 mm
Stainless Steel11-130S 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



11-052D
2

**Vannas
Capsulotomy Scissors**

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

11-052S

**Vannas
Capsulotomy Scissors**

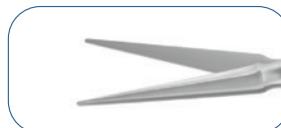
Angled
6.00 mm blades
9.00 mm from pivot to tip
Overall length 81 mm

11-054S

**Gills-Vannas
Capsulotomy Scissors**

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

11-056S

**Gills-Vannas
Capsulotomy Scissors**

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

11-058S

**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



REUSABLE ANTERIOR INSTRUMENTS

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

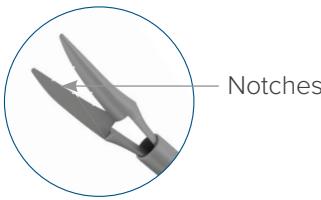
4-2151* 18 Ga 



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

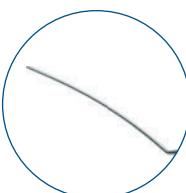
13-010	0.25 mm width, 10.00 mm length (shown)	+
13-011	0.40 mm width, 14.00 mm length	+
13-014	1.00 mm width, 13.00 mm length	



Curved Spatula

Overall length 122 mm

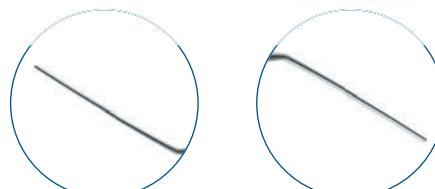
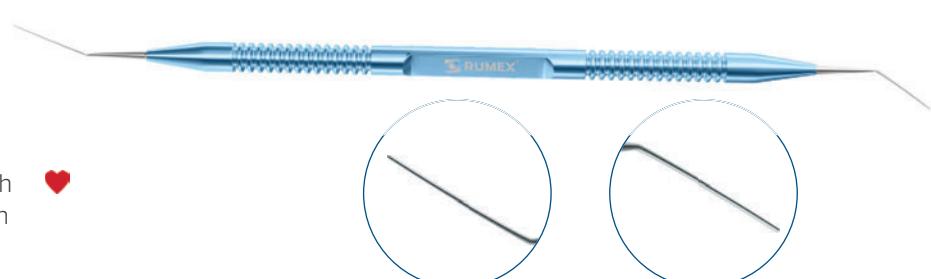
13-020	0.25 mm width, 12.00 mm length	+
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Double Spatula

Overall length 134 mm

13-031	0.50 & 1.00 mm width	+
13-032	0.30 & 0.50 mm width	



Holz Zonule Defender

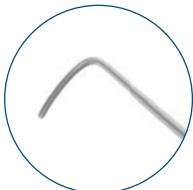
NEW

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

Titanium Handle/Stainless Steel Tip

Overall length 120 mm

13-061	+
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Designed
in cooperation with
Huck Holz, M.D.,
USA



- 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

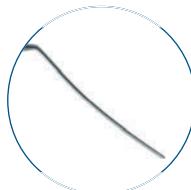
CYCLODIALYSIS SPATULAS

Castroviejo

Double-Ended Cyclodialysis Spatula

Overall length 136 mm

13-050	0.50 mm width, 10.00 & 15.00 mm	+
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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

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

FEMTOSECOND CATARACT SPATULAS



Spatula for Femtosecond Laser Procedure

Used for opening cataract incision created by femtosecond laser system.

Specially designed for Alcon LenSx® Laser. Also compatible with incisions made by VICTUS™ Femtosecond Laser platform (Bausch & Lomb).

1.40 mm length flat tip
Overall length 120 mm

20-204

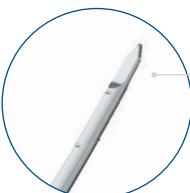


Donnenfeld Femto Spatula

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

Overall length 122 mm

20-2041



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

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

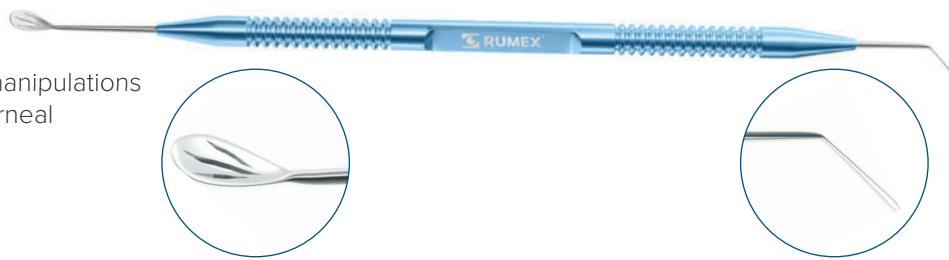
13-181



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**

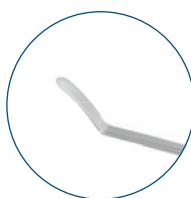
For intrastromal dissection
Straight
60° angled shaft
12.00 mm from tip to angle
Titanium Handle/Stainless Steel Tip
Overall length 125 mm

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



REUSABLE ANTERIOR INSTRUMENTS

13 - SPATULAS

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

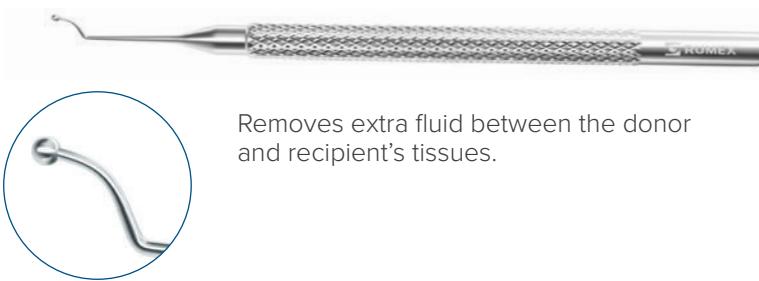


Smoothens out the area between the donor graft and recipient's stromal bed.

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

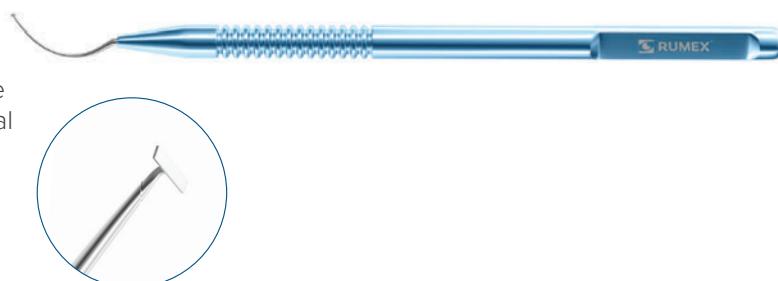
DSEK, DSAEK, DMEK SPATULAS

John DSAEK Descemet's Stripper

"T" shape 1.80 mm wide x 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.
Smoothes the corneal surface and clears fluid in the donor-recipient interface.
Overall length 114 mm

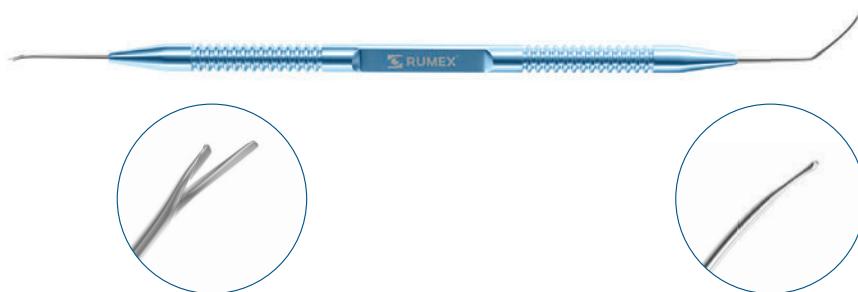
13-184



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



REUSABLE ANTERIOR INSTRUMENTS

13 - SPATULAS

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

DALK SPATULAS

Trisection 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

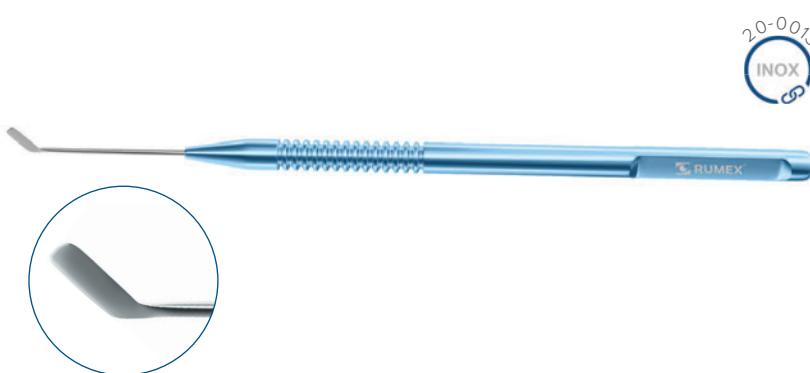
FOREIGN BODY SPUDS

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

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

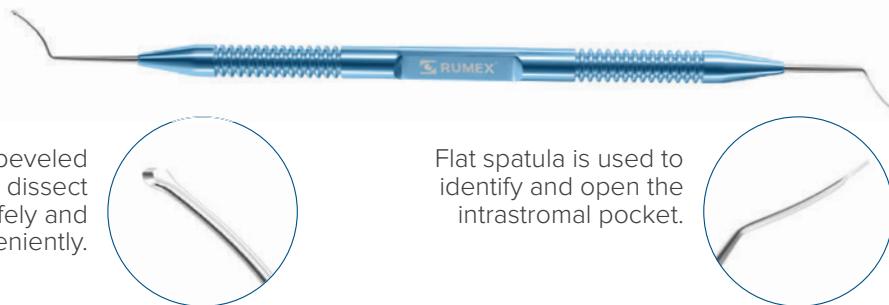
Stodulka

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.



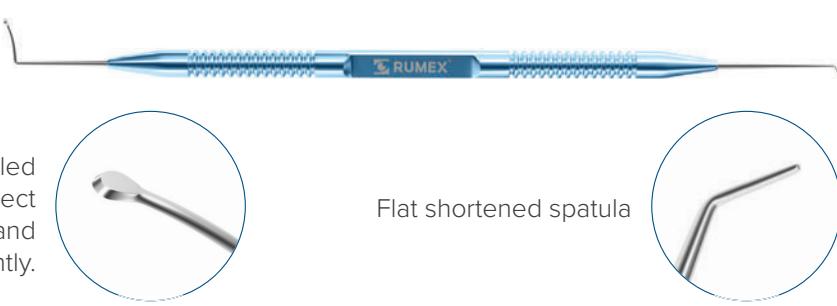
Flat spatula is used to identify and open the intrastromal pocket.

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.



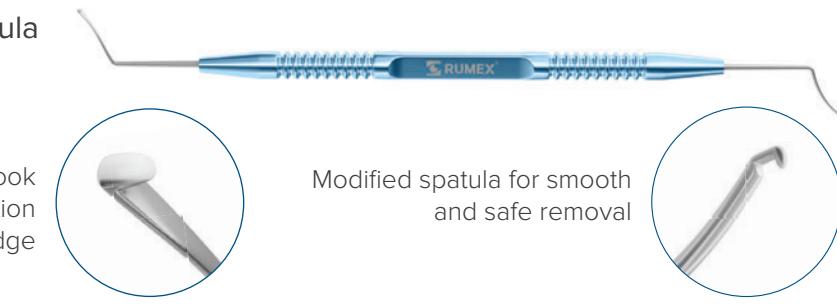
Flat shortened spatula

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

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

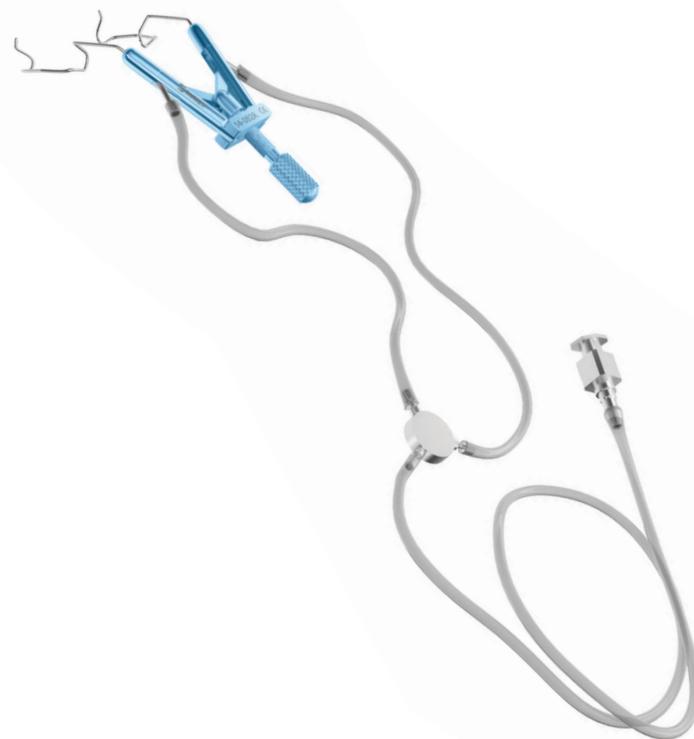


SPECULUMS

SPECULUMS WITH ASPIRATION

Thumb-screw control to adjust lid tension

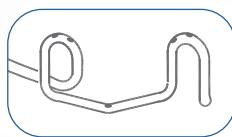
Ports on each blade allow continuous aspiration providing better vision during the operation.



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 



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

Child Lieberman Style

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

14-082A Child

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

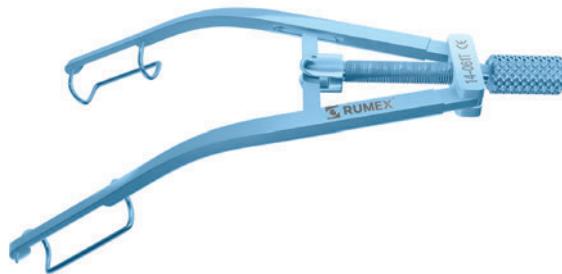
Blades spread 30.00 mm

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

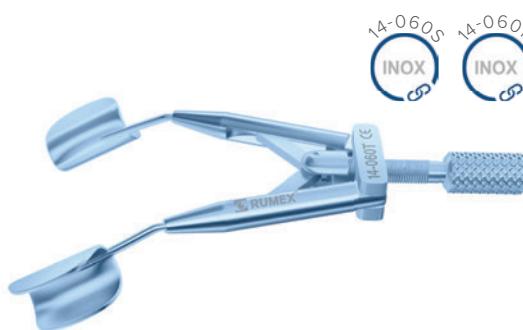
Solid blades, 14.00 mm

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 

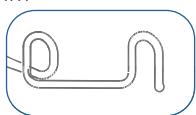


«V» style open blades, 14.00 mm
Flat handle
Overall length 76 mm

14-0401T Adult 

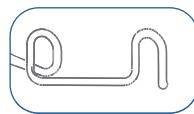
Kratz style open blades, 14.00 mm
Round handle
Overall length 71 mm

14-040TK Adult 



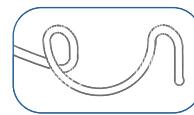
Kratz style open blades, 14.00 mm
Flat handle
Overall length 76 mm

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.

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.

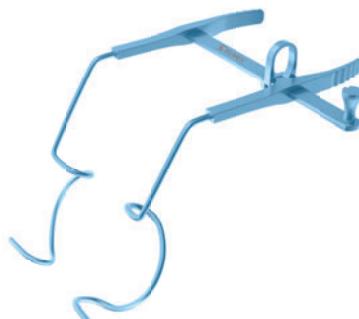
Blades specially curved to facilitate laser docking without increasing external pressure.

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)



REUSABLE ANTERIOR INSTRUMENTS

NASAL SPECULUMS LIEBERMAN STYLE

Thumb-screw control to adjust lid tension

Nasal Speculum Lieberman Style

Titanium

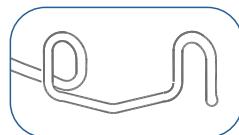
«V» style open blades

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

«V» style open blades,

14.00 mm

Flat handle

Overall length 70 mm

14-0411T Adult

«V» style open blades,

10.00 mm

Flat handle

Overall length 60 mm

14-0431T Child

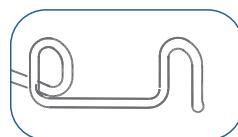
Kratz style open blades,

14.00 mm

Round handle

Overall length 70 mm

14-041TK Adult



For LASIK

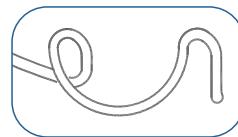
Rounded open blades,

14.00 mm

Flat handle

Overall length 70 mm

14-0411TL Adult



Specially designed to accommodate microkeratome suction ring.

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



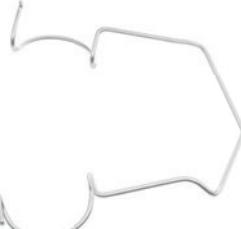
Closed wire blades

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

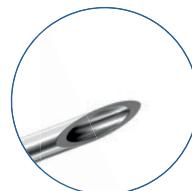
Sheets Irrigating Vectis

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

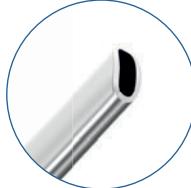
Sub-Tenon's Anesthesia Cannula

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

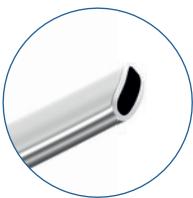
Regular

"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 x 22 mm

15-071-25 25 Ga x 22 mm

15-071-27 27 Ga x 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 x 16 mm 



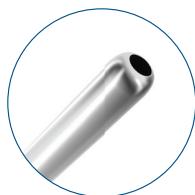
Pearce J-Shaped Micro Hydrodissector

Hook 1.75 mm wide, 2.25 mm long
"J" shape facilitates hydrodissection at the 12 o'clock position

15-073-27 27 Ga x 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

GLAUCOMA CANNULAS

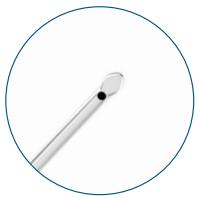


Viscocanalostomy Cannula

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

15-1051-30 30 Ga x 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 x 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 x 22 mm



Buratto LASIK Irrigation Cannula

3 irrigating ports of 0.25 mm

15-379-25 25 Ga x 32 mm



Slade LASIK Cannula

Flattened spatulated tip

15-376 26 Ga x 25 mm



Banaji LASIK Irrigation Cannula

Curved
4 ports of 0.25 mm

15-373-25 25 Ga x 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

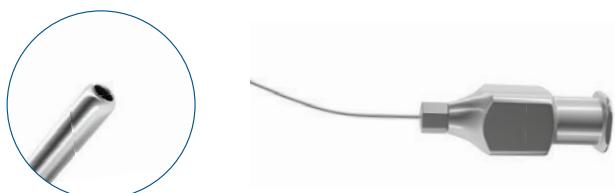
15-031 23 Ga × 15 mm



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

REUSABLE ANTERIOR INSTRUMENTS

MISCELLANEOUS

INJECTORS

Injector for Capsular Ring with Irrigation

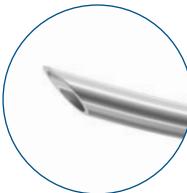
Designed for one-hand implantation of the capsular tension rings with diameters of 10, 11 and 12 mm.

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 NaviInject™

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**

STERILE



20



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

*Not available in the US, Japan, Germany, Switzerland

**Not available in Europe

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

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



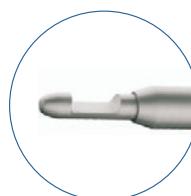
Used to perform a sclerectomy at the corneoscleral junction.

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

Micro Trabeculectomy Punch

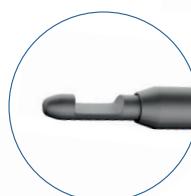
0.60 mm diameter head
Bullet-shaped tip
0.30 mm x 0.60 mm deep bite
Straight shaft
Compatible with Squeeze Handle 12-003T

16-011* 20 Ga

Kelly
Descemet's Membrane Punch

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

16-011



REUSABLE ANTERIOR INSTRUMENTS

SPOONS & CURETTES

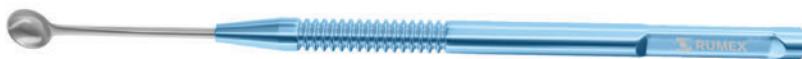
Bunge Evisceration Spoon

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

REUSABLE ANTERIOR INSTRUMENTS

DISPOSABLE ELECTRIC EYE CAUTERIES

Electric Eye Cautery

Battery operated
Low temperature

16-041 fine tip 

STERILE 

 10



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

16-0341T 



FLIERINGA RINGS

Flieringa Rings

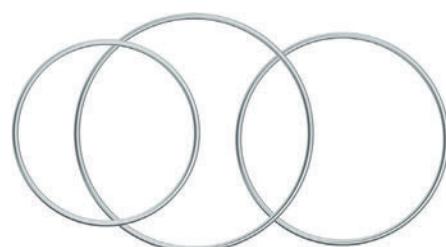
Sutured to the sclera to support the globe
during difficult eye operations.

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

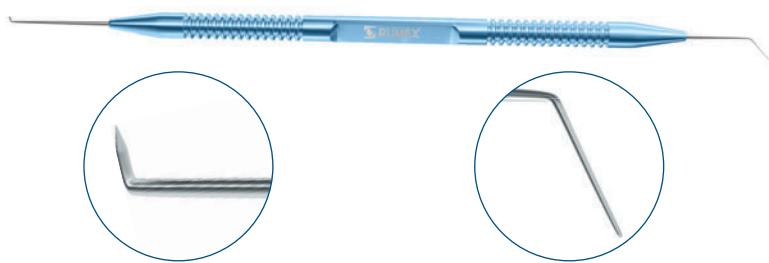
Stainless Steel Tips with an ergonomic light-weight round Titanium handle

SPATULAS

LASIK Spatula and Flap Retreatment Instrument

Double-ended
Overall length 133 mm

20-013

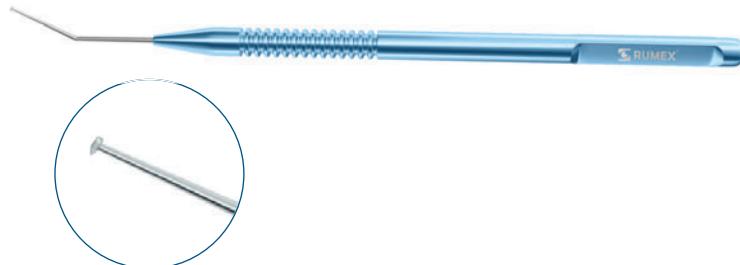


LASEK Epithelial Micro Hoe

Can be used to detach edge of the epithelium flap.

Overall length 122 mm

20-131



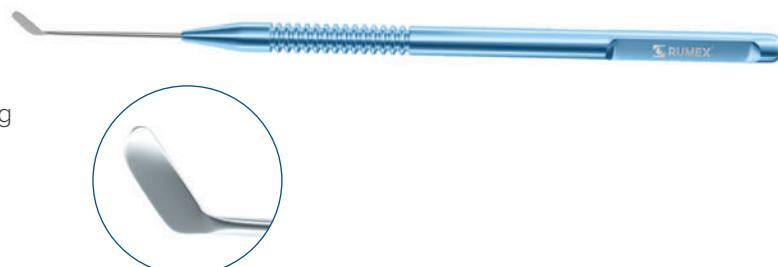
LASEK Knife

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



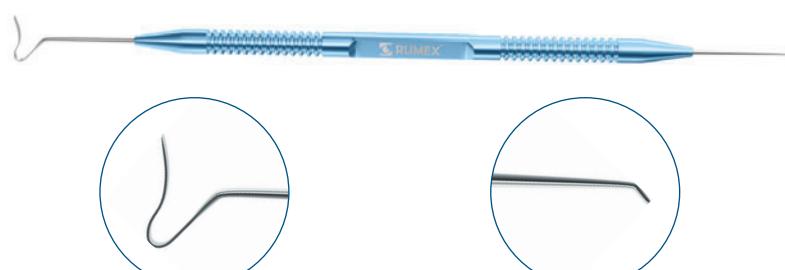
FemtoLASIK Flap Spatula

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

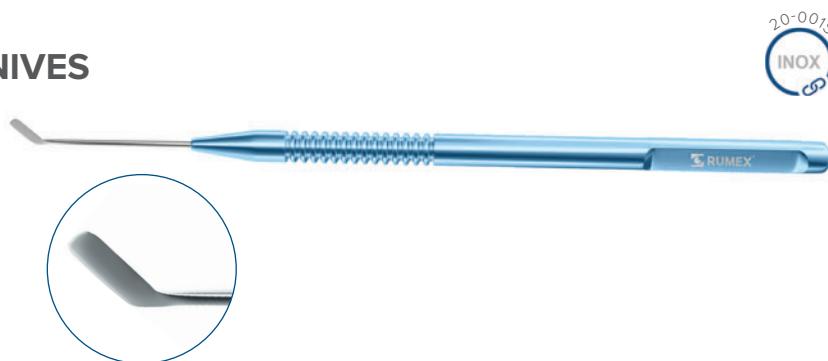


EPITHELIUM REMOVAL KNIVES

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

TREPHINES & FUNNELS

LASEK Trehine

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



RUMEX

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



RUMEX

LASEK Trehine & 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



STERILE



MARKING PENS

Disposable Marking Pen

Double-ended
20-050*



RUMEX

STERILIZATION TRAYS

Size Chart

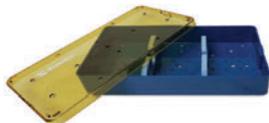
Item	Inserts	Dimensions		Size	Configuration	Accommodates, number of instruments
		mm	in			
Plastic Trays						
18-300	2 silicone plug-in inserts	190×101×38	7.5×4×1.5"	Medium	Single level	1
18-301-1	2 silicone plug-in inserts	152×63.5×19	6×2.5×0.75"	Small	Single level	2
18-305-1	2 silicone plug-in inserts	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

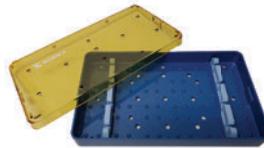
PLASTIC TRAYS

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



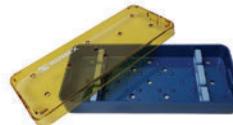
18-300

Silicone inserts
for 1 instrument190×101×38 mm
7.5×4×1.5 in

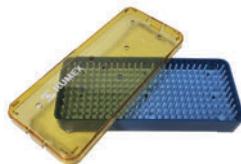
18-303-1

Silicone inserts
for 4 instruments190×101×19 mm
7.5×4×0.75 in

18-305-1

Silicone inserts
for 3 instruments254×152.4×38 mm
10×6×1.5 in

18-301-1

Silicone inserts
for 2 instruments152×63.5×19 mm
6×2.5×0.75 in

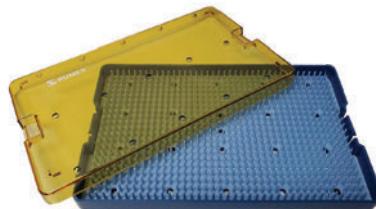
18-301

152×63.5×19 mm
6×2.5×1.5 in

18-300-1

190×101×38 mm
7.5×4×1.5 in

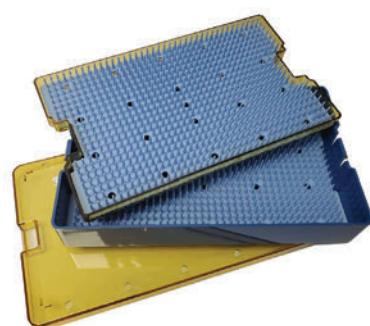
18-308

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

18-307

68.6×38×25.4 mm
3×1.5×1 in

18-303

190×101×19 mm
7.5×4×0.75 in

18-304

254×152.4×38 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



18-322

200×110×20 mm
7.75×4.25×0.8 in

18-332

310×235×20 mm
12.25×9.25×0.8 in

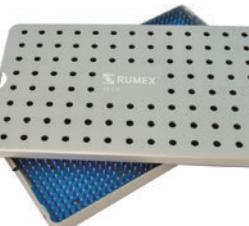


18-323

200×110×40 mm
7.75×4.25×1.5 in

18-333

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

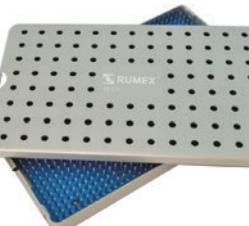


18-324

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

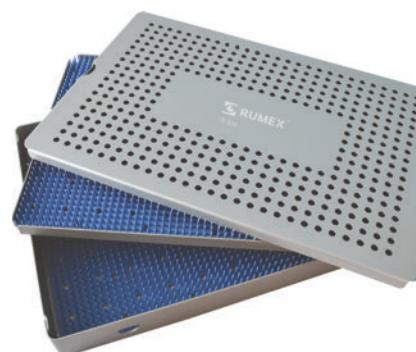
18-335

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



18-327

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

18-336

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

VITREORETINAL INSTRUMENTS & CONSUMABLES

REUSABLE INSTRUMENTS

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A VARIETY OF OPTIONS FOR VITREORETINAL SURGERY

REUSABLE

Option 1. Two-Piece Instruments

Universal Handle + Interchangeable Tips*



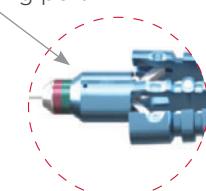
**EASY
TO CLEAN**

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**

Option 1. All Stainless Steel Instruments

Precise performance and instant tactile control

STERILE



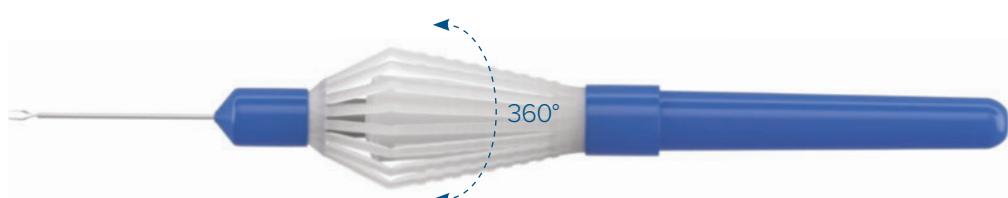
**SHELF LIFE
3 YEARS**



Option 2. Ergonomic 360-Degree Handle**

Enhanced utility due to rotatable squeeze handle

**SHELF LIFE
5 YEARS**



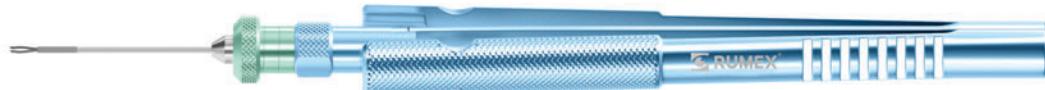
360°

* Tip only. Handles are sold separately.

**Not available in Europe

FEATURED PRODUCTS

Universal End-Grasping Forceps with Asymmetrical Branches

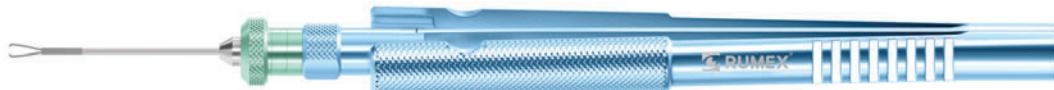


Universal End-Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.



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.*

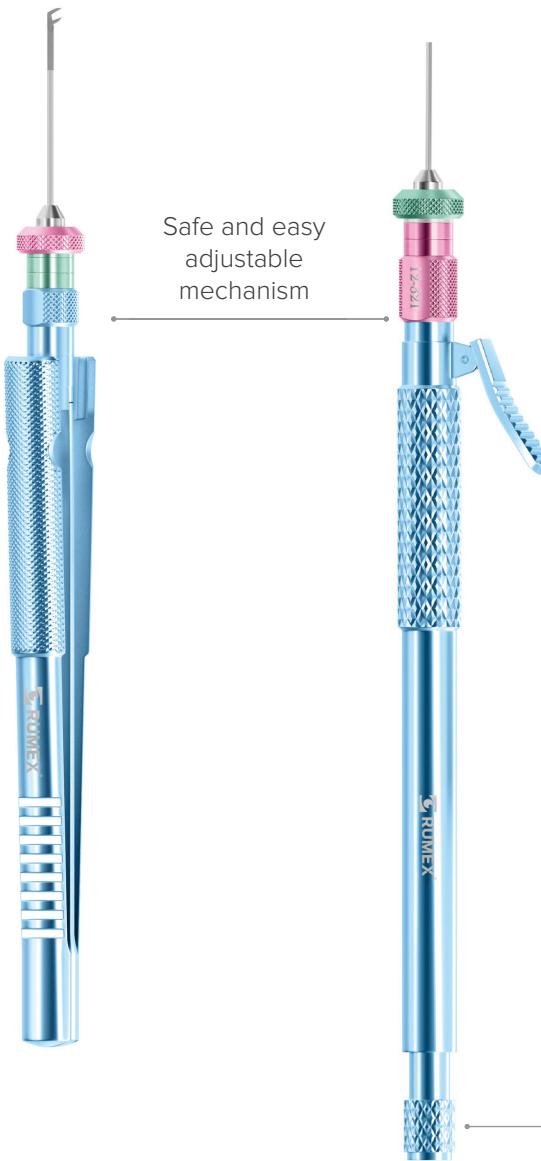
- Made of Titanium
- Corrosion resistant
- Can be used with tips of any gauge 20/23/25/27 (and other gauges)

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

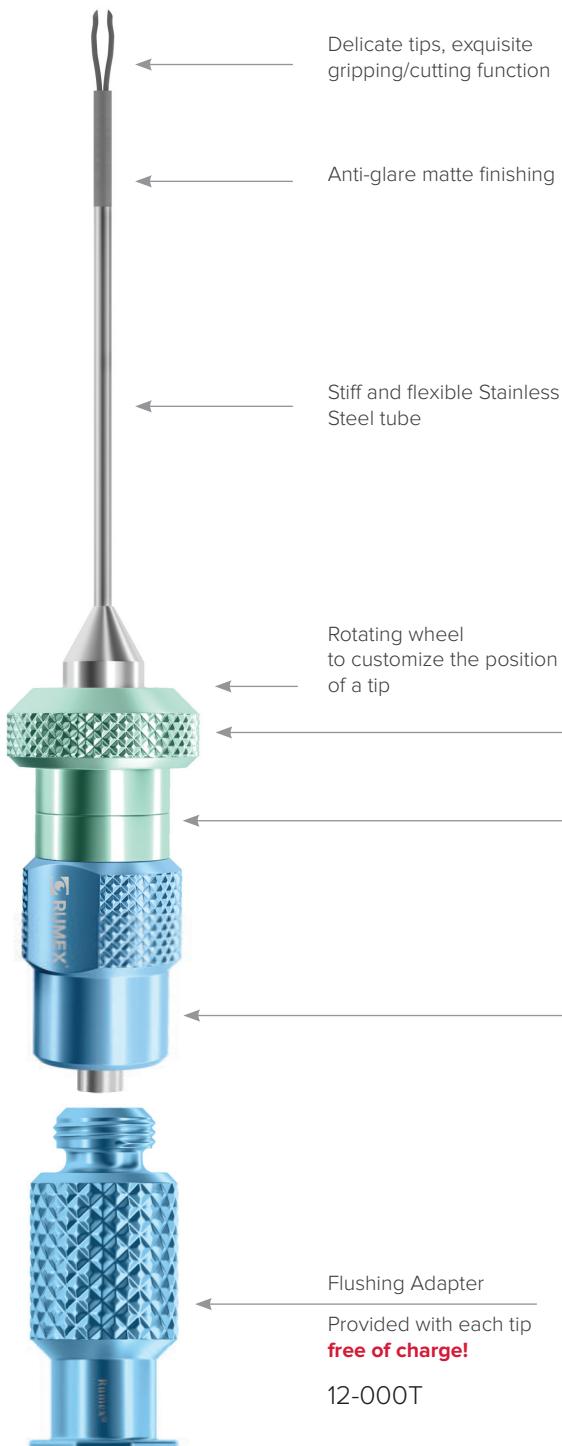
One Finger Control
Handle

12-001T 

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

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

VITREORETINAL INSTRUMENTS & CONSUMABLES

SCISSORS*

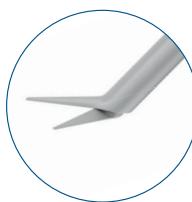
Designed for cutting membranes and junction zones of the proliferative tissue.



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

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

INTERNAL LIMITING MEMBRANE (ILM) FORCEPS*

Delicate branches for ILM peeling



ILM

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

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

12-410-23D 12-410-23DP 12-410-25D 12-410-25DP 12-410-27DP

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

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.

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

VITREORETINAL INSTRUMENTS & CONSUMABLES

EPIRETINAL (ERM) FORCEPS*

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



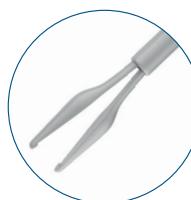
ERM



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



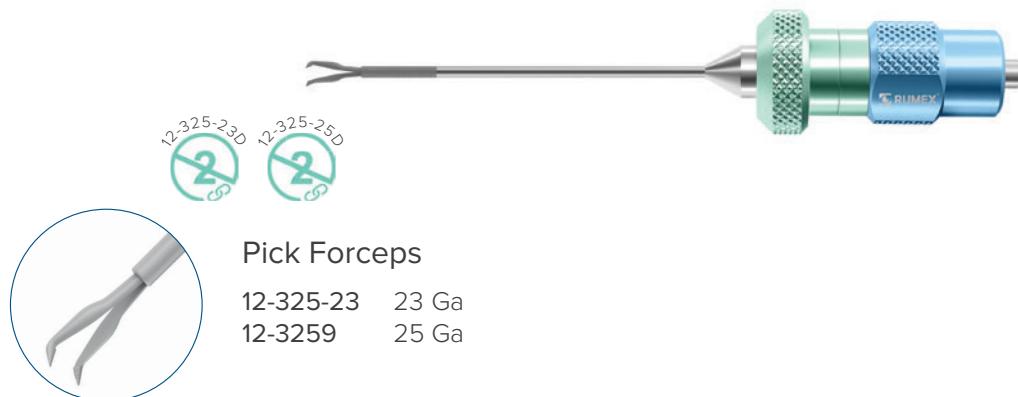
End-Gripping Forceps

With nail-shaped jaws

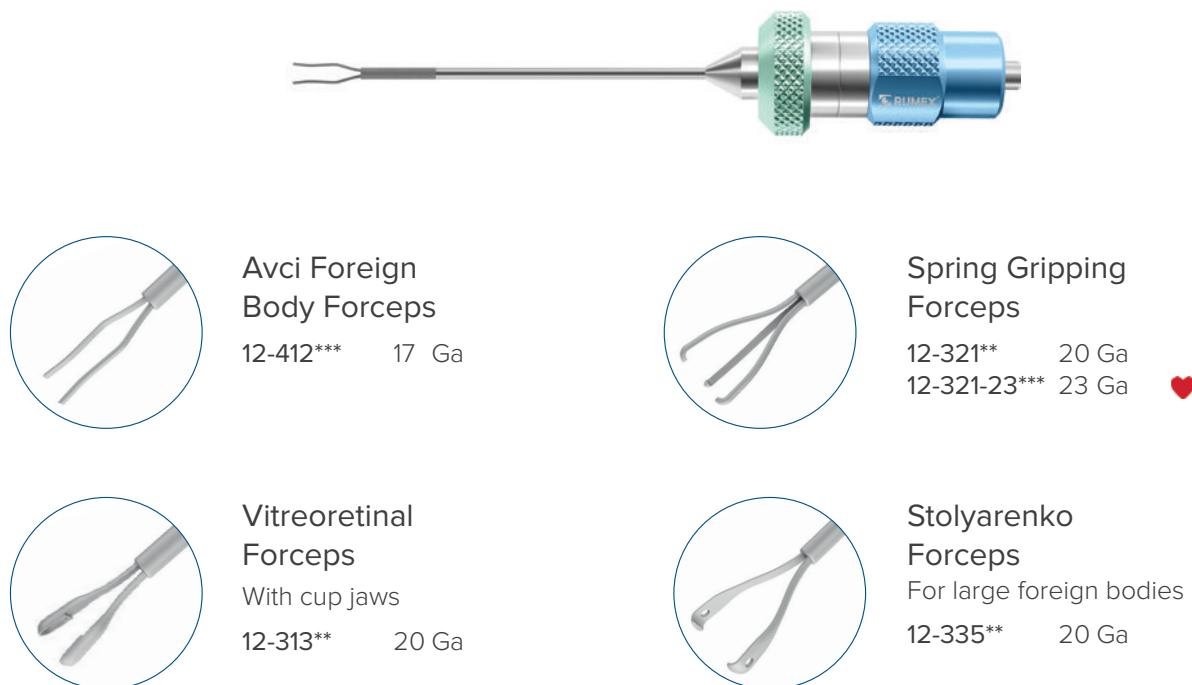
12-402-23 23 Ga
12-4089 25 Ga

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

PICK FORCEPS*



FOREIGN BODY REMOVAL FORCEPS*



*Tip only. Handles are sold separately.

** Compatible with Universal Handle 12-001T only

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

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

MEMBRANE INSTRUMENTS



Delicate Membrane Pick

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

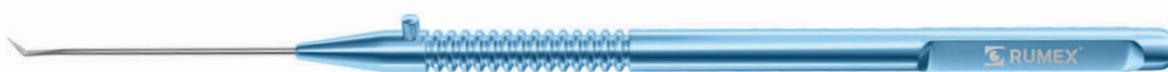
- Unique geometry of the tip for maximal effectiveness and minimal shredding of the tissue
- Jut on the handle identifies the tip orientation
- Titanium Handle/Stainless Steel Tip



Membrane Scratcher

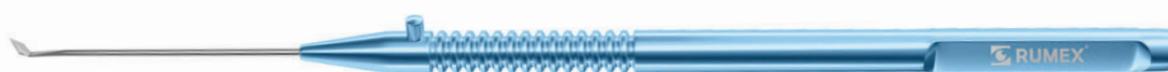
13-092 20 Ga

- 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-Grasping 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-Grasping Forceps

Expanded space between branches

12-4013 23 Ga

Enhanced visualization!



Asymmetrical End-Grasping Forceps

12-420-23 23 Ga

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!



ERM



12-301-23D
12-301-23P

Gripping Forceps

With a sandblasted platform

12-301-23 23 Ga



Gripping Forceps

With a "crocodile" platform

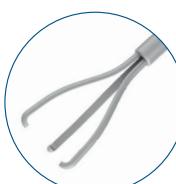
12-304-23 23 Ga



Vertical Scissors

70°
Sharp tips

12-202-23 23 Ga



Spring Gripping Forceps

12-321-23 23 Ga



12-325-23D
12-325-23P

Pick Forceps

12-325-23 23 Ga



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



12-411-25
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

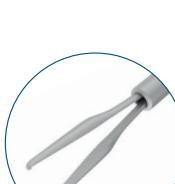


12-209-25D
12-209-25DP

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

12-410-23D
12-410-23DP
12-410-25D
12-410-25DP



Eckardt End-Gripping 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

12-304-23D
12-304-23DP
12-304-25D
12-304-25DP



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

12-209-23D
12-209-23DP
12-209-25D
12-209-25DP



Curved Subretinal
Scissors
Curvature radius 12.00 mm

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

REUSABLE TWO STEP TROCAR SYSTEMS



2 extra cannulas

MVR knives should be purchased separately

Reusable Trocar System with Closure Valves

Package includes:

- Trocar cannula with closure valves – 5 pcs
- Loading forceps – 1 pc
- Fixation plate – 1 pc
- Cannula inserter – 3 pcs
- Universal infusion line – 1 pc
- Sterilization tray – 1 pc

12-5173-23 23 Ga

12-5173-25 25 Ga



Loading Forceps

12-5186 23/25 Ga



Instrument Cannula Inserter

12-5187 23 Ga

12-5187-25 25 Ga



Fixation Plate

12-5188 23/25 Ga



MVR Knives

Multifacet blade

STERILE



Straight VRS-23 - 23 Ga

Angled VRA-23 - 23 Ga

VRS-25 - 25 Ga

VRA-25 - 25 Ga



Scleral Plugs Forceps

Cross-action mechanism reduces hand fatigue.
Overall length 106 mm

12-5086S 20 Ga



Watzke Sleeve Spreading Forceps

Used to stretch the silicone sleeve placed around the eyeball.

Serrated tips aid in gripping the sleeve and allow for adjustable traction.

Overall length 110 mm

4-2201T

DISPOSABLE ONE-PIECE STAINLESS STEEL INSTRUMENTS

STERILE



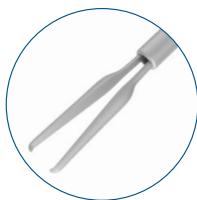
All stainless steel disposable instruments in 23 and 25 Ga are designed for precise manipulations during posterior segment surgeries.



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

DISPOSABLE INSTRUMENTS WITH PLASTIC HANDLE*

STERILE

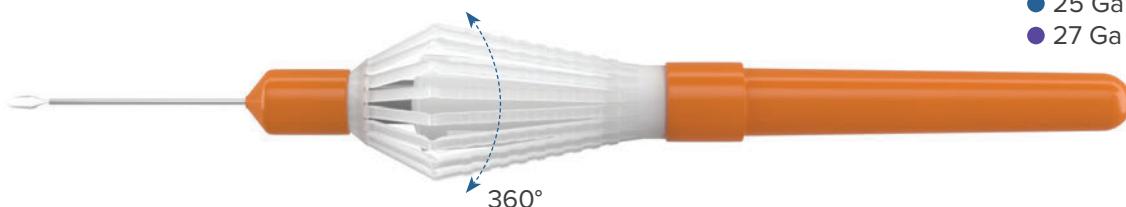


360-degree handle design incorporates a unique rotatability, convenience and actuation.

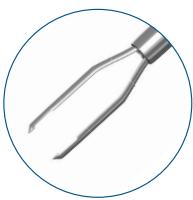
The instrument's weight is less than 8 grams.

Lightweight plastic ergonomic handle especially valuable during hours-long surgeries.

- 23 Ga
- 25 Ga
- 27 Ga



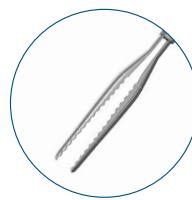
ILM



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

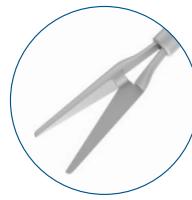
12-304-23DP 23 Ga
12-304-25DP 25 Ga
12-304-27DP 27 Ga

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



* Not available in Europe

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

DISPOSABLE ONE STEP TROCAR SYSTEMS*

STERILE



Each set includes:

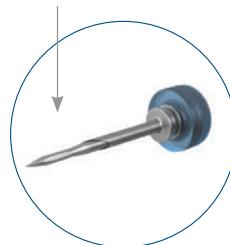
- Trocar knife with preloaded trocar cannula – 3 pcs
- Self-sealing trocar cannula (preloaded) – 3 pcs
- Universal infusion line – 1 pc

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



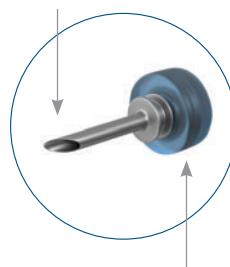
Sharp MVR Blade

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

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

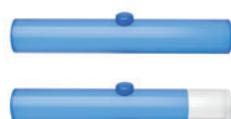
BACKFLUSH HANDLES AND RESERVOIRS



Reusable Backflush Handle

Titanium

12-6000 Active aspiration
12-6010 Passive aspiration



STERILE



Disposable Replacement
Reservoir for Backflush Handle*

12-5159 Active aspiration
12-5147 Passive aspiration

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.

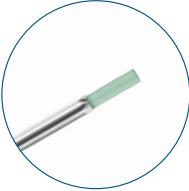
12-5162	23 Ga x 34 mm	
12-5160	25 Ga x 34 mm	
12-5167	27 Ga x 34 mm	



Green Soft Tip Cannulas

Colored for Enhanced Visualization

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



STERILE 



Dual Bore Cannulas*

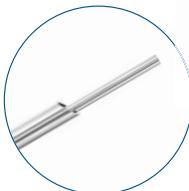
STERILE 



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	



SILICONE OIL*

SmartSil 1000/5000**

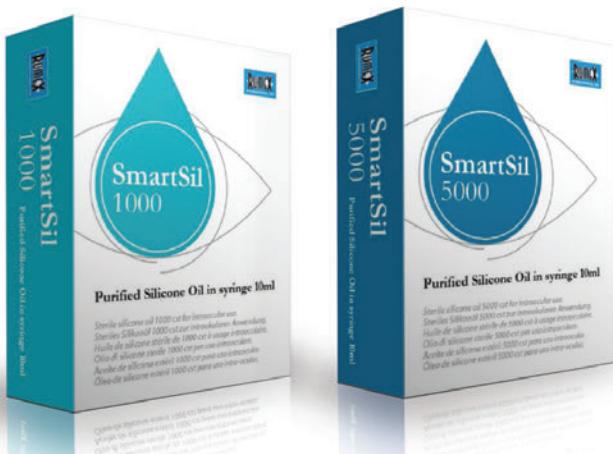
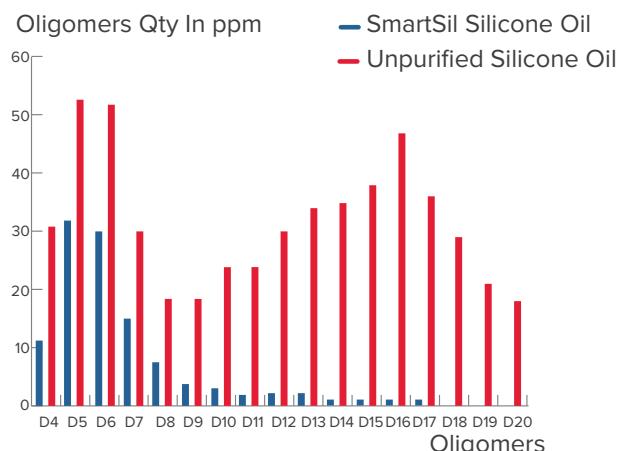
Purified Silicone Oil for Vitreoretinal Surgery

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

Physico-chemical properties

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

GC



**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

CE

*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® Pentasy™	
Optikon® Antares™	
Alcon® STTO™	12-RTUB-1
Storz® Premiere™	
DORC® Harmony Budget™	
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

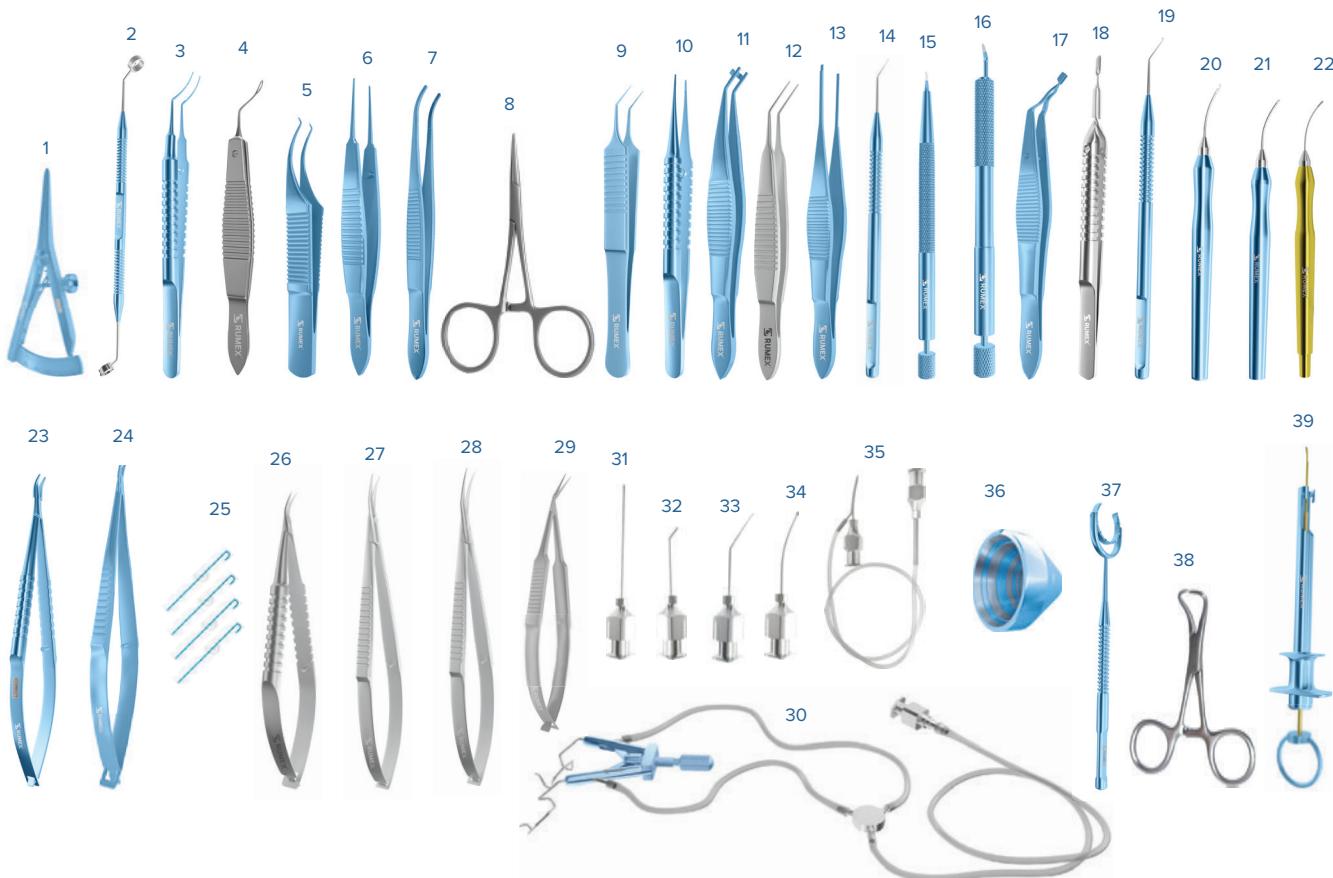
PHACOEMULSIFICATION SET	162
BIMANUAL MICROPHACO (MICS) SET	163
TORIC IOL IMPLANTATION SET	163
EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET	164
FEMTOSECOND CATARACT SET	165
LRI SET	165
SMILE SET	165
ICL SET	166
LASIK/FEMTOLASIK SET	166
CORNEAL TRANSPLANTATION SET	167
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VITREORETINAL REUSABLE SET, TWO-PIECE, 23 GA	175
VITREORETINAL DISPOSABLE SET, 23 GA	175
VITREORETINAL REUSABLE SET, TWO-PIECE, 25 GA	176
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

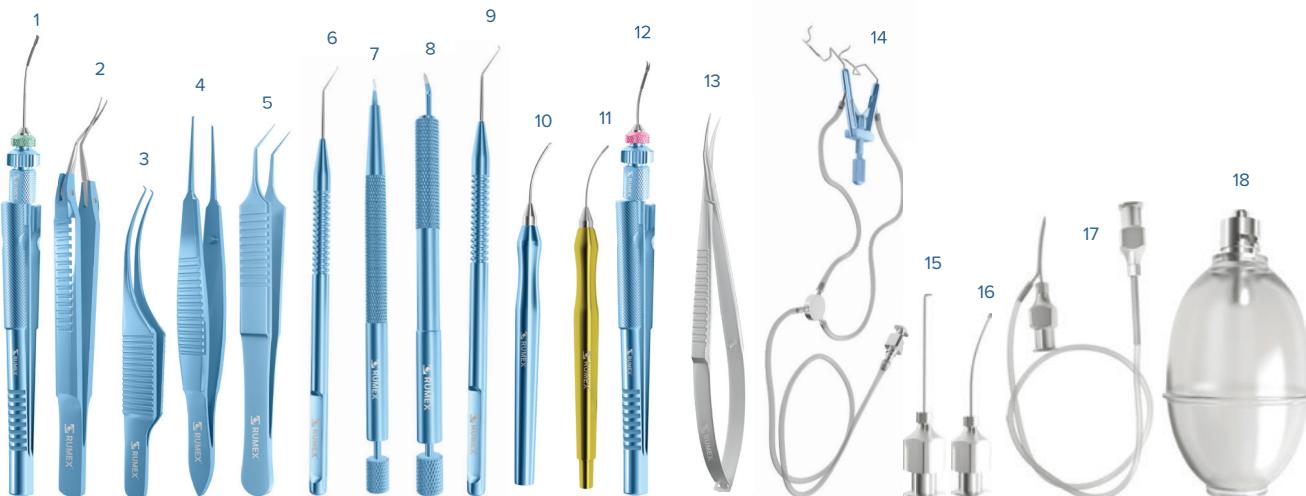


Reference	Key	Description	Page	Reference	Key	Description	Page
2-010T	1	Castroviejo Caliper	43	7-081	21	Irrigation Handpiece for Bimanual Technique, 21 Ga	92
3-040	2	Whipple Capsulorhexis Centration Marker	45	7-0821	22	Aspiration Handpiece for Bimanual Technique, 22 Ga	93
4-03315T	3	Utrata Capsulorhexis Forceps, Cystome Tips, with Scale	51, 55	8-031T	23	Barrera Needle Holder, Standard Jaws, w/out Lock	95
4-033S	4	Small-Incision Capsulorhexis Forceps with Double Cross-Action and Scale	29, 52, 58	8-096T	24	Castroviejo Needle Holder, Delicate Jaws, w/out Lock	94
4-050T	5	Colibri Corneal Forceps	68	10-5016-1	25	Disposable Iris Retractors, 1 Pack of 4 pcs	20
4-0600T	6	Castroviejo Suturing Forceps	75	11-034S	26	Universal Corneal Scissors	99
4-072T	7	Dressing Forceps with Serrations	71	11-040S	27	Westcott Tenotomy Scissors	102
4-120S	8	Hartman Hemostatic Mosquito Forceps	74	11-044S	28	Westcott Stitch Scissors	100
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 Cystome, 25 Ga	123
4-2108S	12	Faulkner Lens Holding Forceps	64	15-051-27	32	Rycoft Anterior Chamber Cannula, 27 Ga	121
4-2141T	13	Cartridge Loading Forceps, for Inserting IOL	64	15-071-25	33	McIntyre Nucleus Hydrossector, 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*		Sinskey 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

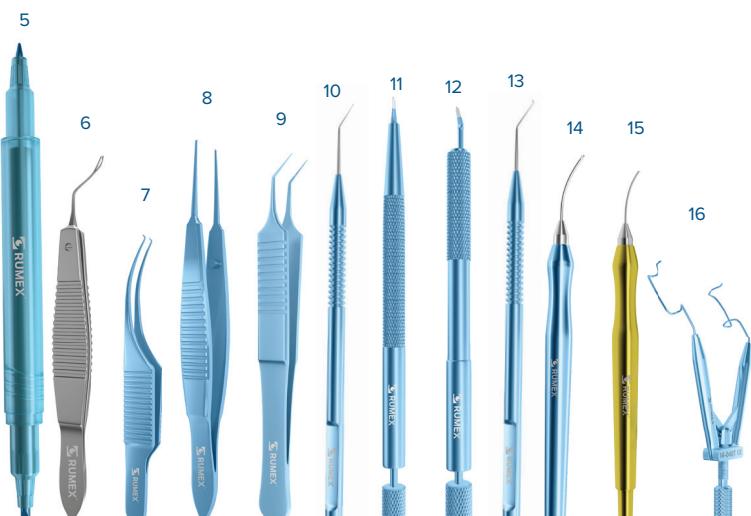
BIMANUAL MICROPHACO (MICS) SET



Reference	Key	Description	Page	Reference	Key	Description	Page
4-0377/1	1	Kawai Capsulorhexis Forceps, Tapered 23/25 Ga shaft/ Universal Squeeze Handle	60	7-081	10	Irrigation Handpiece for Bimanual Technique, 21 Ga	92
12-003T			142	7-0821	11	Aspiration Handpiece for Bimanual Technique, 22 Ga	93
4-0395	2	Capsulorhexis Forceps with Scale, Cross-Action	52, 58	11-03741	12	Side-Port Capsulotomy Scissors, Left, 20 Ga	103
4-0501T	3	Colibri Corneal Forceps, 0.12 mm 1x2 Teeth	68	11-03751*	13	Side-Port Capsulotomy Scissors, Right, 20 Ga /Universal Squeeze Handle	103
4-0600T	4	Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth	75	/12-003T	14	Lieberman Temporal Speculum with Aspiration	142
4-174T	5	McPherson Angled Tying Forceps	76	11-044S	15	Chang Nucleus Hydrodissector, 27 Ga	100
5-032	6	Sinskey Hook	79	14-080A	16	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	115
5-034*		Bechert Nucleus Rotator	79	15-0681	17	Simcoe I/A Cannula, 23/23 Ga	122
6-10/6-053	7	Diamond Knife Trifacet Blade, 1.00 mm	82	15-170	18	Silicone Bulb with Adapter	125
6-20/6-144	8	Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm	83	15-129-0.3		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136
7-063	9	Nagahara Phaco Chopper RHD (LHD*)	88	15-301/303			
7-064*			88	18-304*			

*not shown

TORIC IOL IMPLANTATION



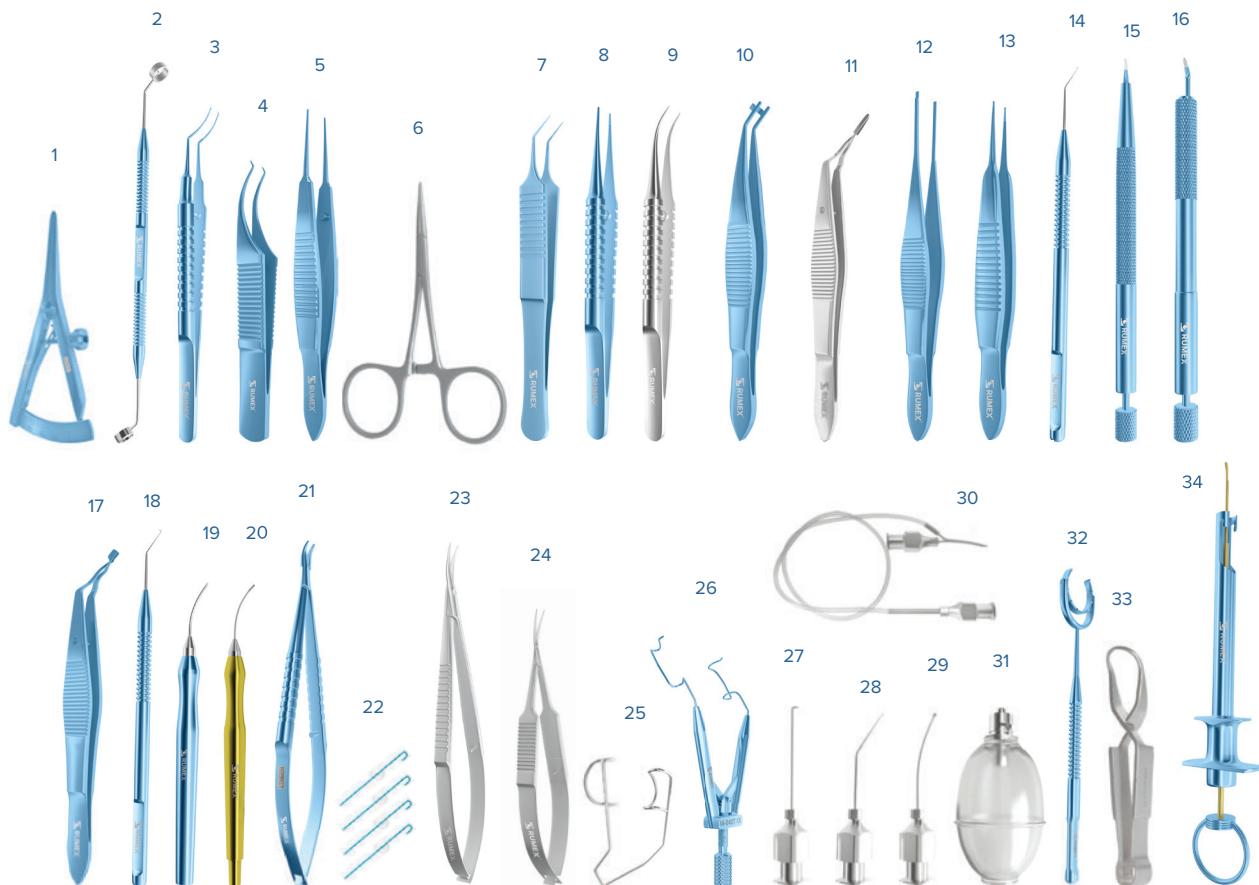
Reference	Key	Description	Page	Reference	Key	Description	Page
3-196	1	Richman Toric Marker	50	6-20/6-144	12	Diamond Knife, Self-Diving Trapezoid Blade, 1.80/2.00 mm	88
3-193	2	Whitehouse Gravity Axis Marker	49	7-063	13	Nagahara Phaco Chopper RHD	88
3-091T	3	Bores Axis Marker	45	7-064*	14	Nagahara Phaco Chopper LHD	88
2-034T	4	Grooved Fine Mendez Degree	44	7-081-23	15	Irrigation Handpiece for Bimanual Technique, 23 Ga	92
20-050	5	Disposable Marking Pen, Double-Ended, 10 per Box	50, 134	7-0821-23	16	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		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	82				

*not shown

FEATURED SETS

CATARACT

EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET

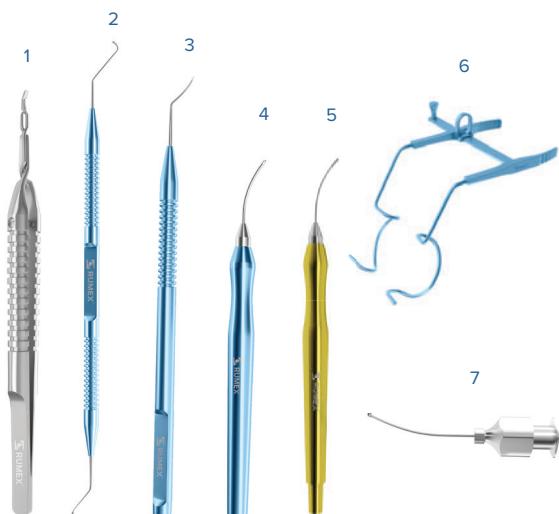


Reference	Key	Description	Page	Reference	Key	Description	Page
2-010T	1	Castroviejo Caliper	43	7-025T	17	Ernest Nucleus Cracker	86
3-040	2	Whipple Capsulorhexis Centration Marker	45	7-065	18	Rosen Phaco Chopper, Universal	88
4-03315T	3	Ultrata Capsulorhexis Forceps with Ruler	51, 55	7-081-23	19	Irrigation Handpiece for Bimanual Technique, 23 Ga	92
4-050T	4	Colibri Corneal Forceps, 0.12 mm 1x2 Teeth	68	7-0821-23	20	Aspiration Handpiece for Bimanual Technique, 23 Ga	93
4-0600T	5	Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth	75	8-041T	21	Barraquer Needle Holder, Fine Jaws, w/out Lock	95
4-120S	6	Hartman Mosquito Forceps, Straight	74	10-5016-1	22	Disposable Iris Retractors (1 Pack of 4 pcs)	20
4-174T	7	McPherson Angled Tying Forceps	76	11-040S	23	Westcott Tenotomy Scissors	102
4-185T	8	Tennant Straight Tying Forceps	77	11-058S	24	Gills-Vannas Capsulotomy Scissors	103
4-186S	9	Tennant Curved Tying Forceps	77	14-022S	25	Barraquer Wire Speculum, Adult Size	119
4-2107T	10	Steinert Paddle Lens Folding Forceps	64	14-040TK	26	Lieberman Temporal Speculum, Adult Size	117
4-2113S	11	McDonald Style Inserting Forceps	64	15-0681	27	Chang Nucleus Hydrodissector, 27 Ga	122
4-2141T	12	Cartridge Loading Forceps	64	15-071-25	28	McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga	122
4-2301T	13	Fechtner Conjunctiva Forceps	65	15-170	29	Microincisional Capsule Polisher Cannula, Disc-Shaped Tip, 23 Ga	123
5-030	14	Kuglen Iris Hook	79	15-129-0.3	30	Simcoe I/A Cannula, 23/23 Ga	122
5-0331*		Lester Lens Manipulator	79	15-301/303	31	Silicone Bulb with Adapter	125
5-034*		Bechert Nucleus Rotator	79	16-0341T	32	Fine Thornton Fixation Ring with Swivel	130
6-10/6-053	15	Diamond Knife, Trifacet Blade, 1.00 mm	82	16-080S	33	Towel Clamp	74
6-20/6-104	16	Diamond Knife, 2.30/2.80 mm, Self-Diving Trapezoid Blade	83	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

*not shown

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

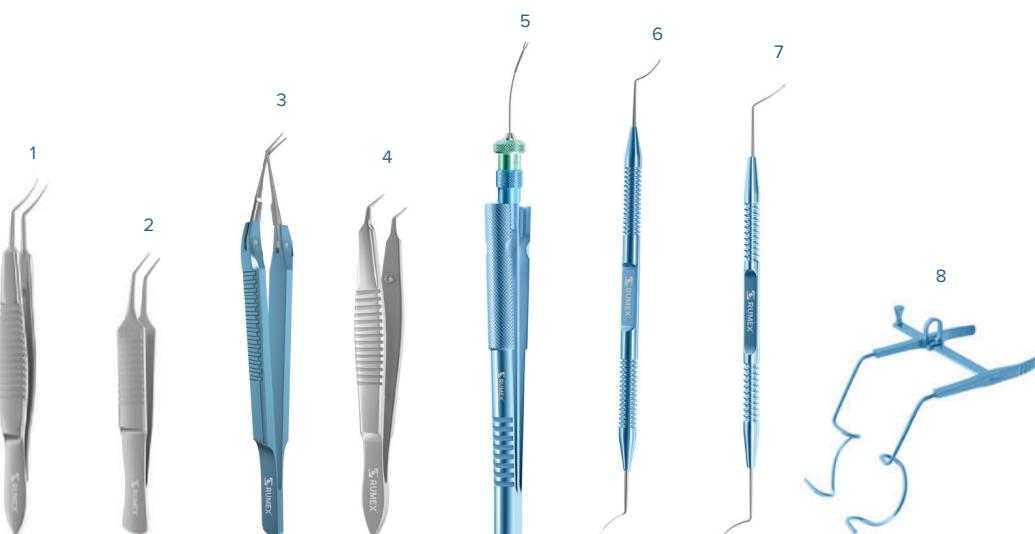
LRI SET



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

*not shown

SMILE SET



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

*not shown

FEATURED SETS

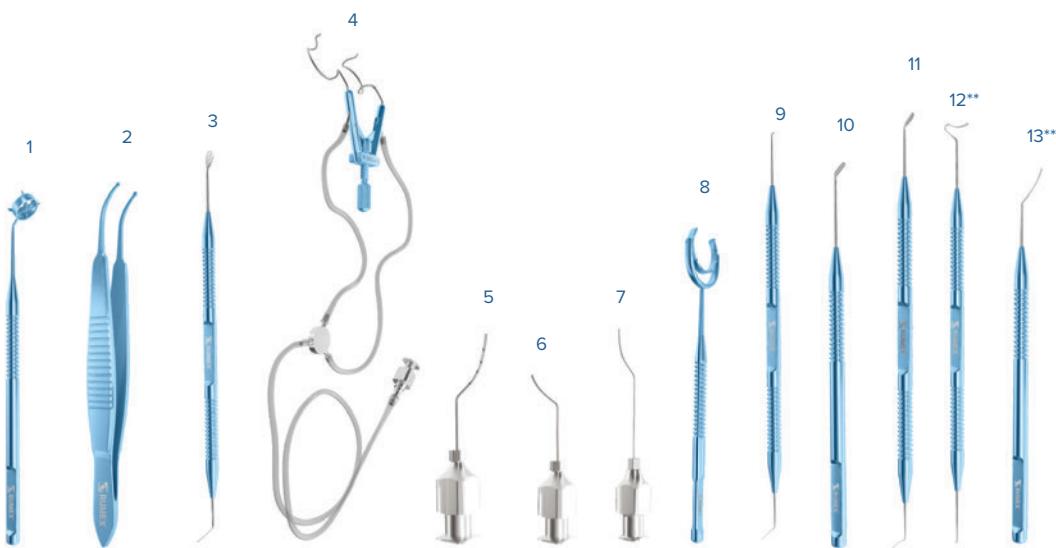
REFRACTIVE ICL SET



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

*not shown

LASIK/ FEMTOLASIK



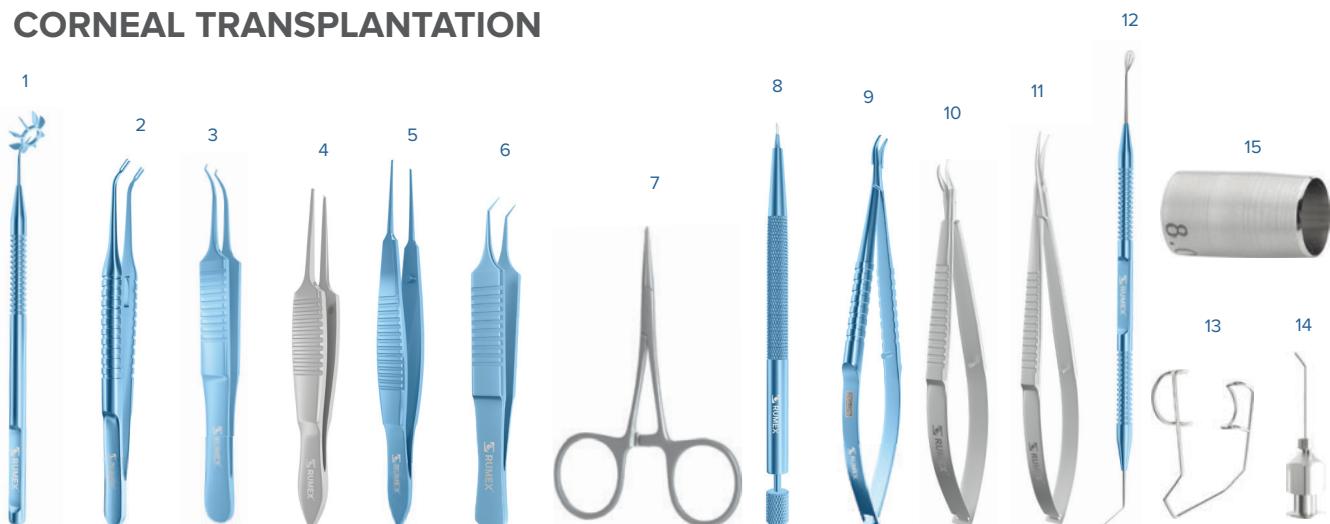
Reference	Key	Description	Page	Reference	Key	Description	Page
3-174T	1	Lavery LASIK Marker	47	16-0341T	8	Fine Thornton Fixation Ring with Swivel	130
4-2206T	2	LASIK Flap Forceps	66	20-013	9	LASIK Spatula and Flap Retreatment Instrument	111, 132
13-110	3	Paton Double-Ended Spatula and Spoon	107	20-001	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, 124 25 Ga	124	18-304*		Plastic Sterilization Tray with Silicone Finger Mat, Extra Large	135, 136

*not shown

**optional set

CORNEAL

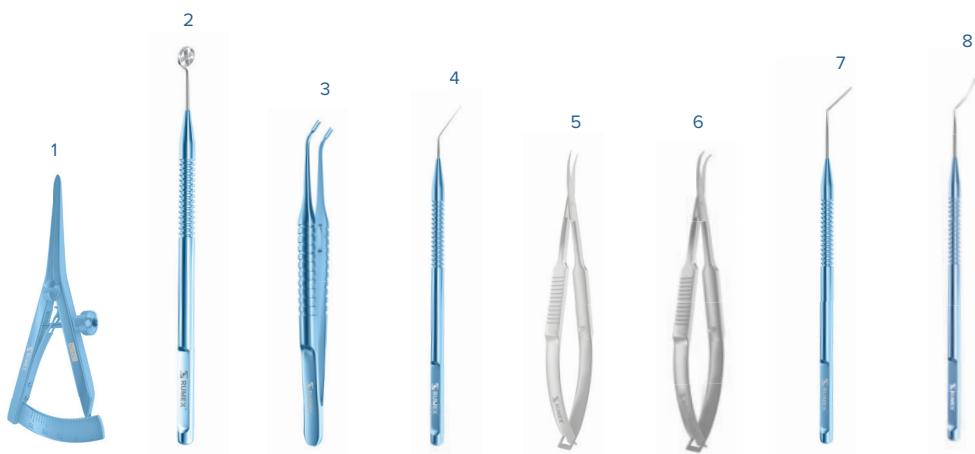
CORNEAL TRANSPLANTATION



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 Trehpine Blades, 7.50 mm	130
8-045T*	Barraquer Needle Holder, Extra Fine Jaws, without Lock	95	16-0307	15 Corneal Trehpine Blades, 8.00 mm	130
			18-305*	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136

*not shown

DLEK

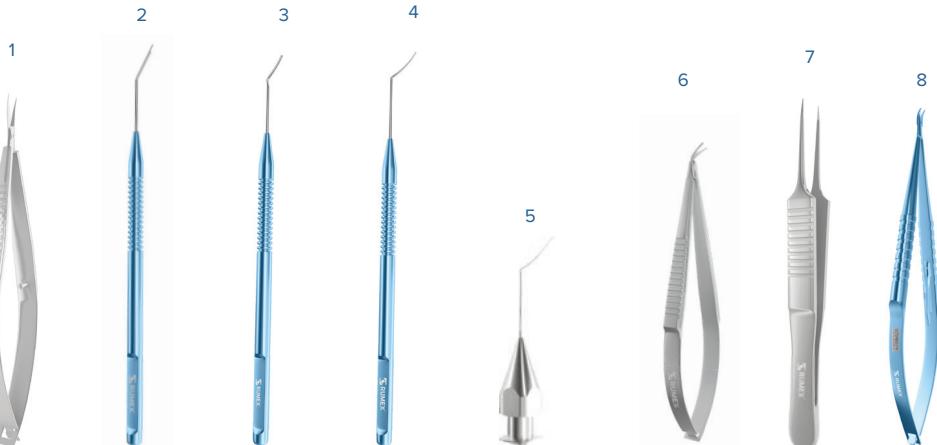


Reference	Key Description	Page	Reference	Key Description	Page
2-010T	1 Castroviejo Caliper	43	11-0361S	6 DLEK Scissors, Strong Curve	100
3-0217T	2 Hoffer Optical Zone Marker, 8.00 mm	47	13-137	7 Corneal Dissector, Straight	107
4-0814T	3 Pollack Corneal Transplantation Fixation Forceps	72	13-138	8 Corneal Dissector, Curved	107
5-0322	4 Reversed Sinskey 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

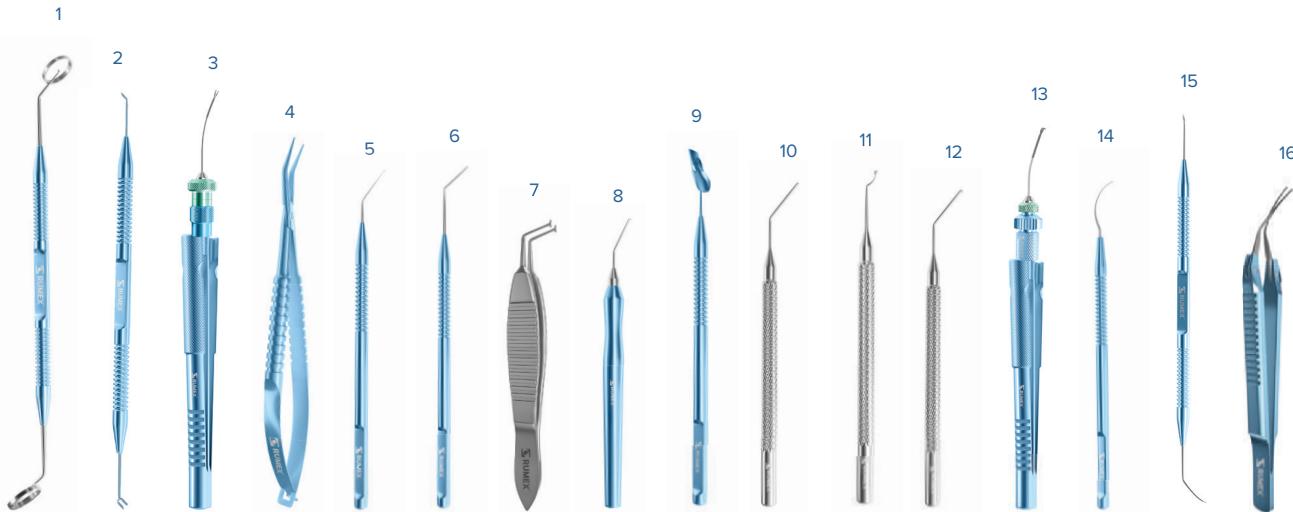


Reference	Key	Description
11-038S	1	Scissors for DALK Procedure, Right
11-0381S*		Scissors for DALK Procedure, Left
13-170	2	Trisector for DALK Procedure
13-171	3	Spatula for DALK Procedure
13-172	4	Dissector for DALK Procedure
15-450-27	5	Cannula for DALK Procedure, 27 Ga

Page	Reference	Key	Description	Page
99	11-134	6	Holland Spatulated DALK Scissors, Right	100
99	11-135*		Holland Spatulated DALK Scissors, Left	100
110	4-178S	7	McPherson Tying Forceps, Straight	76
110	4-174T*		McPherson Tying Forceps, Angled	76
110	8-024T	8	Barraquer Needle Holder, Extra Fine Jaws, with Lock	95
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
3-0231	1	Abdullayev Corneal Marker for Keratoplasty
3-0230*		Abdullayev Scleral Marker for Keratoplasty
3-024T	2	Abdullayev I & II Marker (for DSAEK/DMEK Grafts)
3-208T*		DMEK/DSAEK "S" Marker
4-034	3	Forceps for Corneal Endothelium Implantation, 23 Ga/
/2-003T		Universal Squeeze Handle
4-2019T	4	Corneal Donor Insertion Forceps
5-0322	5	Reversed Sinskey Hook
13-137	6	Corneal Dissector, Straight
13-138*		Corneal Dissector, Curved
4-261S	7	Abdullayev DMEK Grasping Forceps
13-139/I	8	Endothelial Stripper, Irrigating
13-150T	9	Spatula-Guide for Corneal Endothelium Implantation
13-151S	10	Cindy Sweeper DSEK Spatula

Page	Reference	Key	Description	Page
45	13-152S	11	Carlson DSEK Smoother	108
45	13-153S	12	Terry DSEK Scraper	108
46	4-247	13	Florakis Microinvasive Endothelial Forceps, 23 Ga / Universal Squeeze Handle	70
46	/2-003T		Florakis Endothelial Forceps	142
70	4-246S*	14	John Dexatome DMEK/DSAEK Spatula	70
142	13-182		John DSAEK Scrubber	109
70	13-183*	15	John DSAEK Glider	109
79	13-184*		Tan Marginal DMEK Dissector	109
107	13-185	16	Cross-Action DMEK Forceps	71
107	4-251		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
71	18-305*			

*not shown

CORNEAL/PTERYGIUM

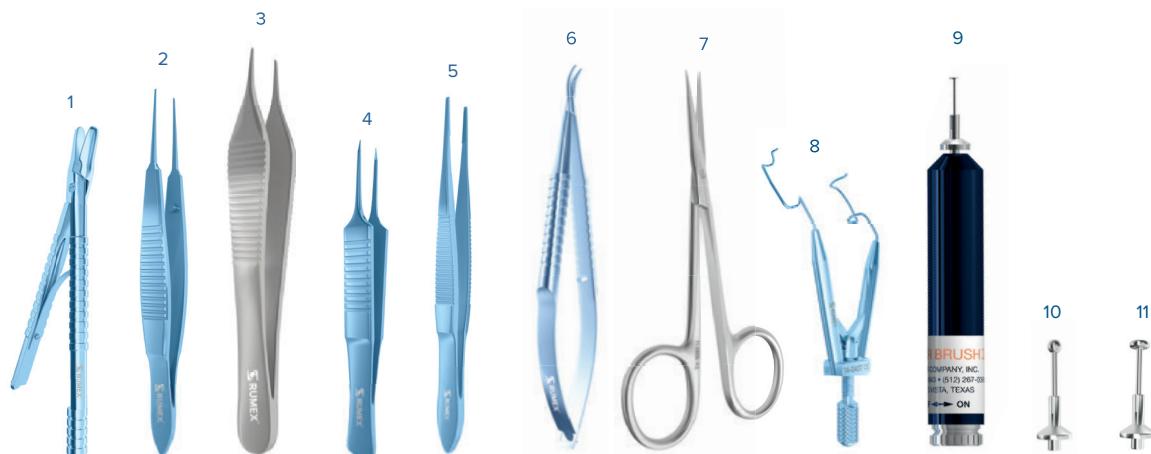
ICRS SET



Reference	Key	Description	Page	Reference	Key	Description	Page
2-031T	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
4-0801T	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



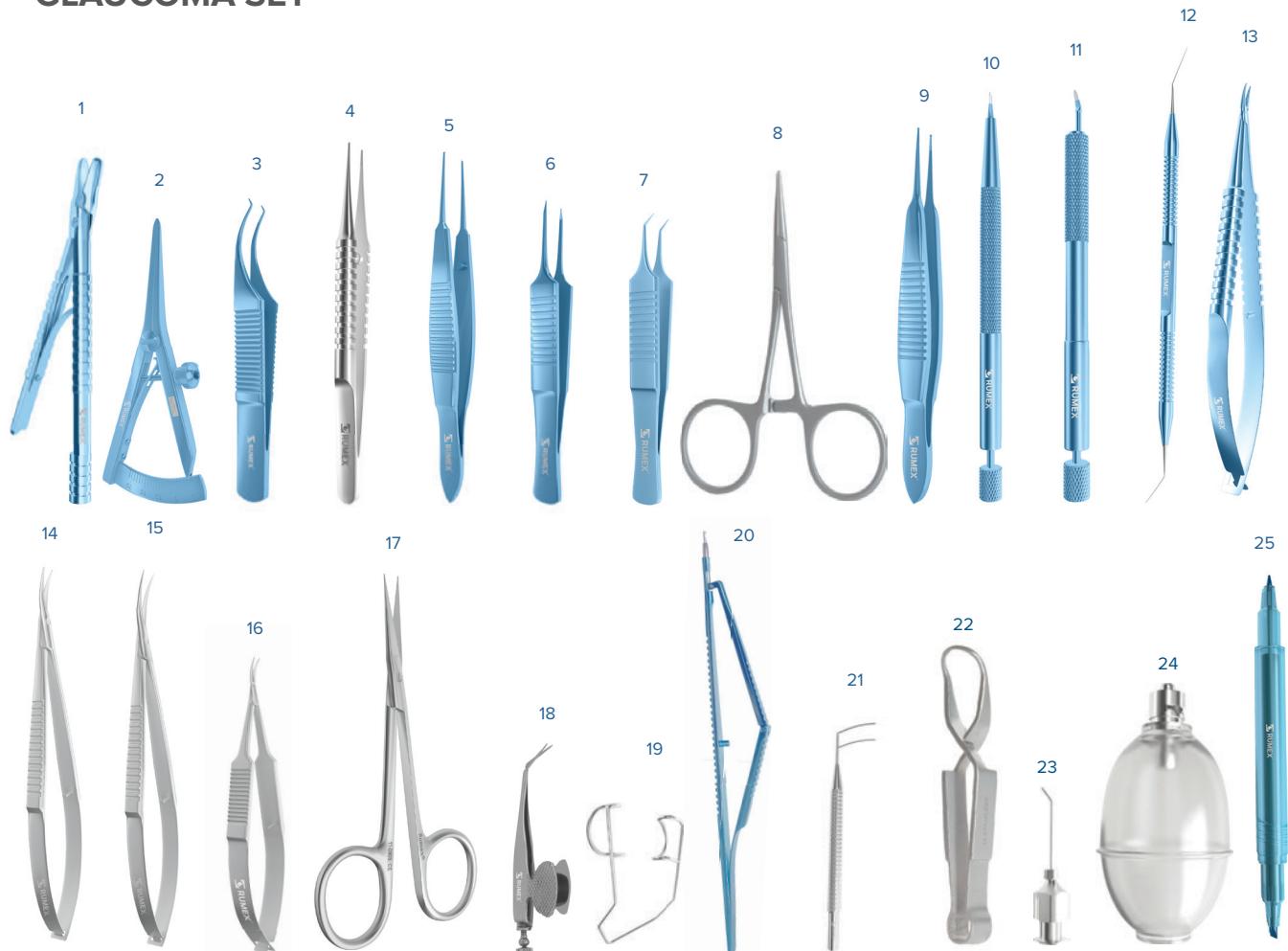
Reference	Key	Description	Page	Reference	Key	Description	Page
1-010T	1	Blade Holder	42	16-051-2.5	9	AlgerBrush with a 2.50 mm Diamond Dusted Round Fine Grit Burr	129
4-0600T	2	Castroviejo Suturing Forceps	75		10	Diamond Dusted Round Medium Grit Burr for AlgerBrush, 3.50 mm	129
4-0741S	3	Adson Fixation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

*not shown

FEATURED SETS

GLAUCOMA

GLAUCOMA SET



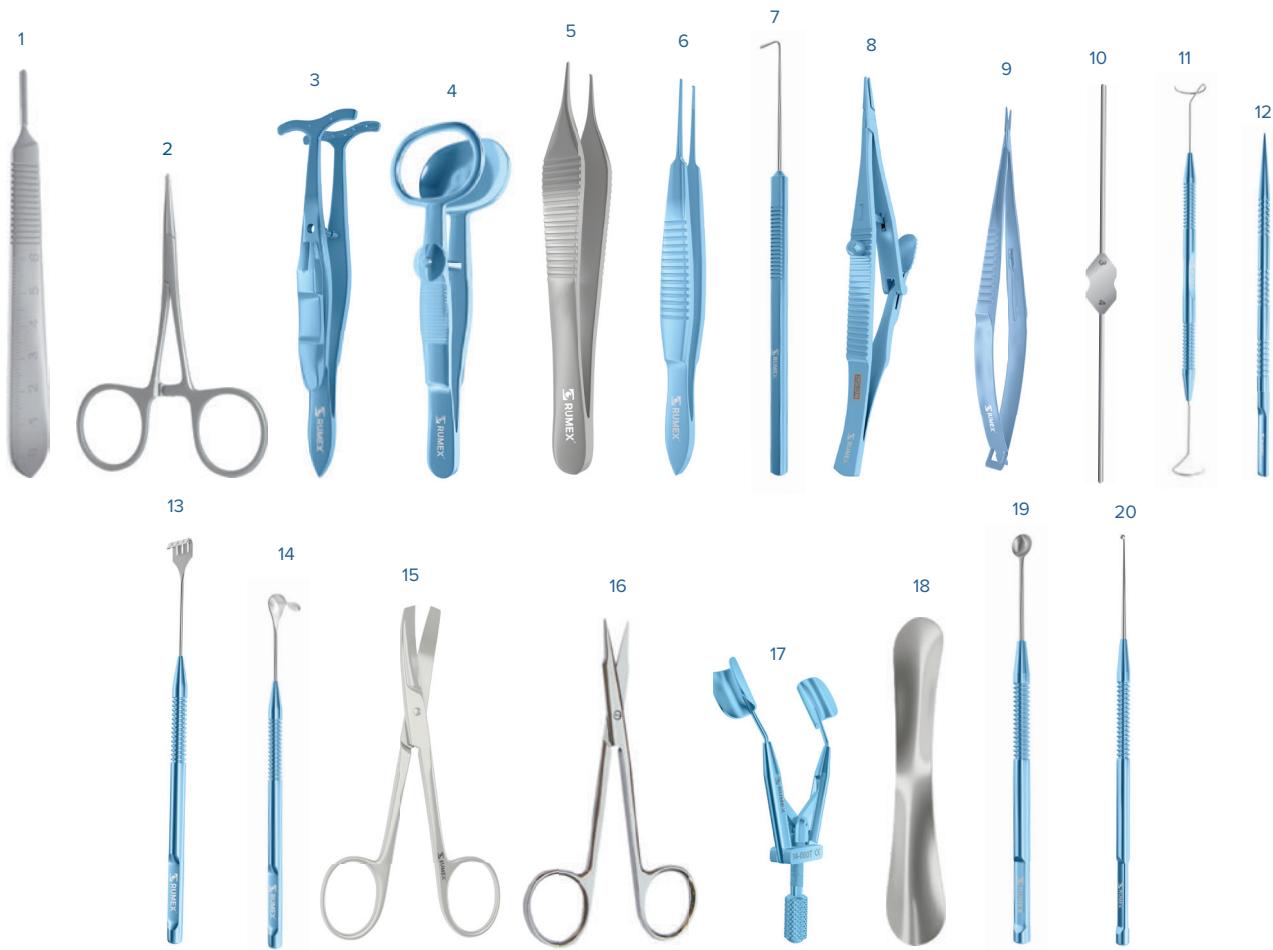
Reference	Key	Description
1-010T	1	Blade Holder
2-010T	2	Castroviejo Caliper
4-050T	3	Colibri Corneal Forceps
4-070S	4	Dressing Forceps with Delicate Serrations
4-0600T	5	Castroviejo Suturing Forceps
4-171T	6	McPherson Straight Tying Forceps
4-090T	7	Kelman-McPherson Tying Forceps
4-120S	8	Hartman Mosquito Forceps
4-2301T	9	Fechtner Conjunctiva Forceps
6-10/6-053	10	Diamond Knife, Trifacet Blade, 1.00 mm
6-20/6-092	11	Diamond Knife, Crescent Blade, 2.00 mm
13-050	12	Castroviejo Double-Ended Cyclodialysis Spatula
8-045T	13	Barraquer Needle Holder, Extra Fine Jaws, w/out Lock
11-040S	14	Westcott Tenotomy Scissors

Page	Reference	Key	Description	Page
42	11-044S	15	Westcott Stitch Scissors	100
43	11-052S	16	Vannas Capsulotomy Scissors	103
68	11-080S	17	Iris Scissors	101
71	11-1223	18	Barraquer Iris Scissors	101
75	14-022S	19	Barraquer Wire Speculum	119
76	16-011	20	Kelly Descemet's Membrane Punch, 0.75 mm Diameter	127
76	16-012S	21	Harms Trabeculotome, Left	130
76	16-013S*	22	Harms Trabeculotome, Right	130
74	16-080S	23	Schaedel Towel Clamp	74
65	16-080S	24	Rycroft Anterior Chamber Cannula, 27 Ga	121
82	15-051-27	25	Silicone Bulb with Adapter	125
83	15-301/303	25	Disposable Marking Pen, Double-Ended, 10 per Box	50, 134
105	20-050	25	Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
95	18-305*			
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 Puttermann 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



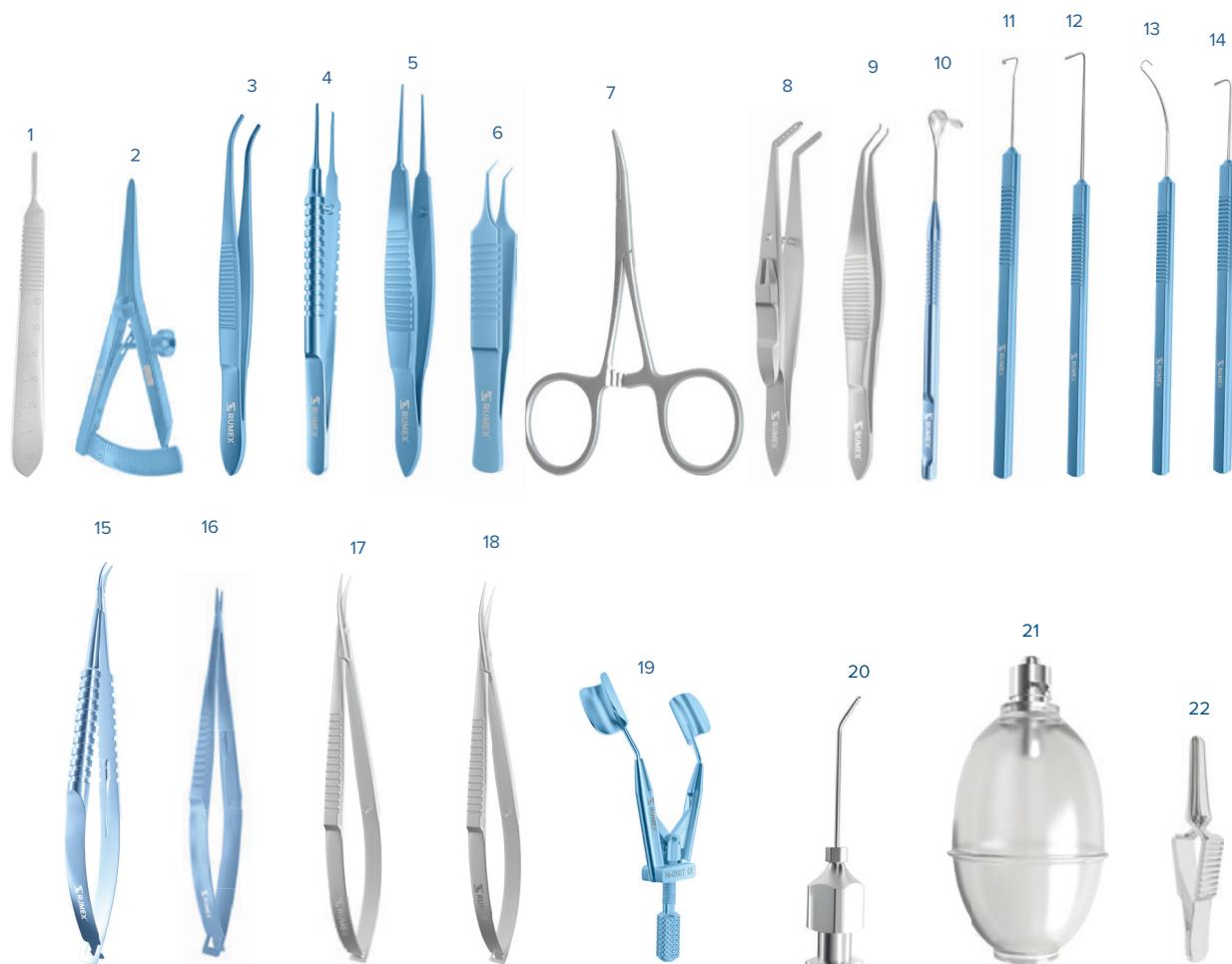
Reference	Key	Description
1-010T	1	Blade Holder
2-010T	2	Castroviejo Caliper
4-0601T	3	Castroviejo Suturing Forceps
4-0607S	4	Bishop-Harmon Suturing Forceps
4-072T	5	Dressing Forceps
4-090T	6	Kelman-McPherson Tying Forceps
4-120S	7	Hartman Mosquito Forceps
4-140T	8	Puttermann Type Lid Clamp
4-1906T	9	Desmarres Chalazion Forceps, Large
4-1912T*	10	Desmarres Chalazion Forceps, Medium
4-124S*	11	Compressing Lid Forceps with Atraumatic Rollers
4-1913T	12	Compressing Lid Forceps
4-2300T	13	Bonaccolto Utility Forceps
5-042	14	Graefe Muscle Hook, Size 2
8-031T		Barrquer Needle Holder, Standard Jaws, w/out Lock
8-080T		Kalt Needle Holder

Page	Reference	Key	Description	Page
42	10-014	15	Knapp Lacrimal Sac Retractor	97
43	16-066	16	Meyerhoefer Chalazion Curette, Size 3	128
75	16-067*	17	Meyerhoefer Chalazion Curette, Size 4	128
75	15-055-19	18	Bishop Harmon AC Cannula, 19 Ga	121
71	15-301/303	19	Silicone Bulb with Adapter	125
76	16-080S	20	Schaedel Towel Clamp	74
76	16-50S	21	Lid Plate	131
74	10-020*	22	Desmarres Lid Retractor, Size 0	97
65	10-021	23	Desmarres Lid Retractor, Size 1	97
65	10-022*	24	Desmarres Lid Retractor, Size 2	97
66	10-023*	25	Desmarres Lid Retractor, Size 3	97
66	11-040S	22	Westcott Tenotomy Scissors	102
78	11-044S	23	Westcott Stitch Scissors	100
80	11-080S	24	Straight Iris Scissors	101
95	11-133S	25	Stevens Tenotomy Scissors	102
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

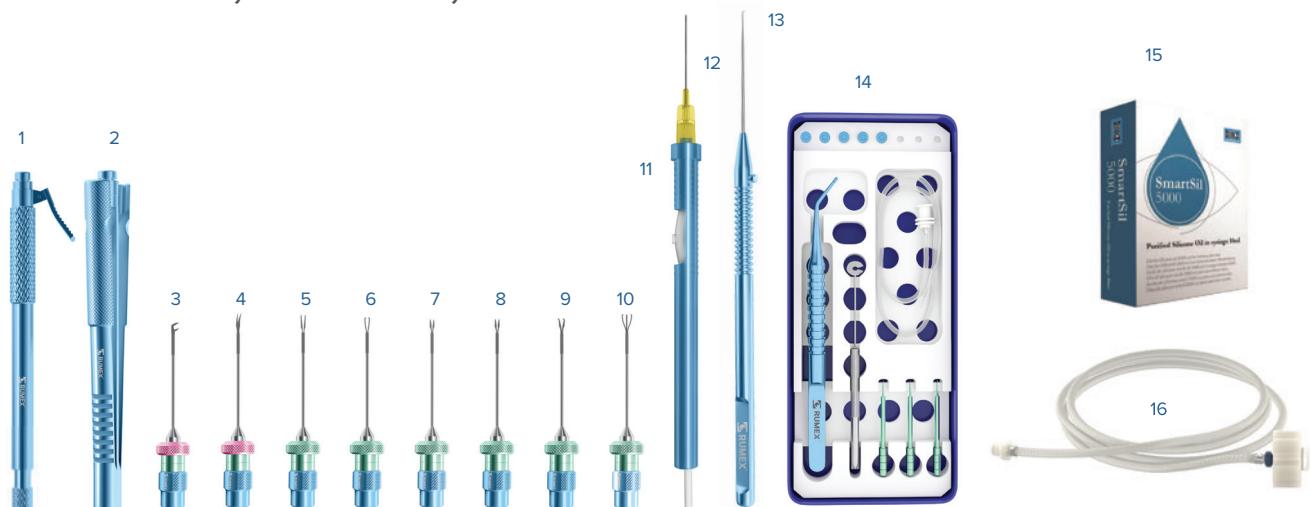


Reference	Key	Description
1-020S	1	Bard Parker Handle
2-010T	2	Castroviejo Caliper
4-072T	3	Dressing Forceps
4-0551T	4	Corneal Forceps, Bonn-Catalano Type
4-0602T	5	Castroviejo Suturing Forceps
4-090T	6	Kelman-McPherson Tying Forceps
4-121S	7	Hartman Mosquito Forceps
4-130S	8	Jameson Muscle Forceps,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

Page	Reference	Key	Description	Page
42	5-061	13	Scobee Oblique Muscle Hook	80
43	5-062	14	Stevens Curved Tenotomy Hook	80
71	8-090T	15	Barraquer Needle Holder, Strong Jaws, with Lock	95
69	8-0921T	16	Castroviejo Needle Holder, Delicate Jaws, with Lock	94
75	11-040S	17	Westcott Tenotomy Scissors	102
76	11-044S	18	Westcott Stitch Scissors	100
74	14-0601T	19	Kershner Reversible Solid Blade Speculum	116
78	15-055-19	20	Bishop Harmon AC Cannula, 19 Ga	121
78	15-301/303	21	Silicone Bulb with Adapter	125
78	16-090S	22	Serrefine	74
97	18-305*		Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
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	12-321-23	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

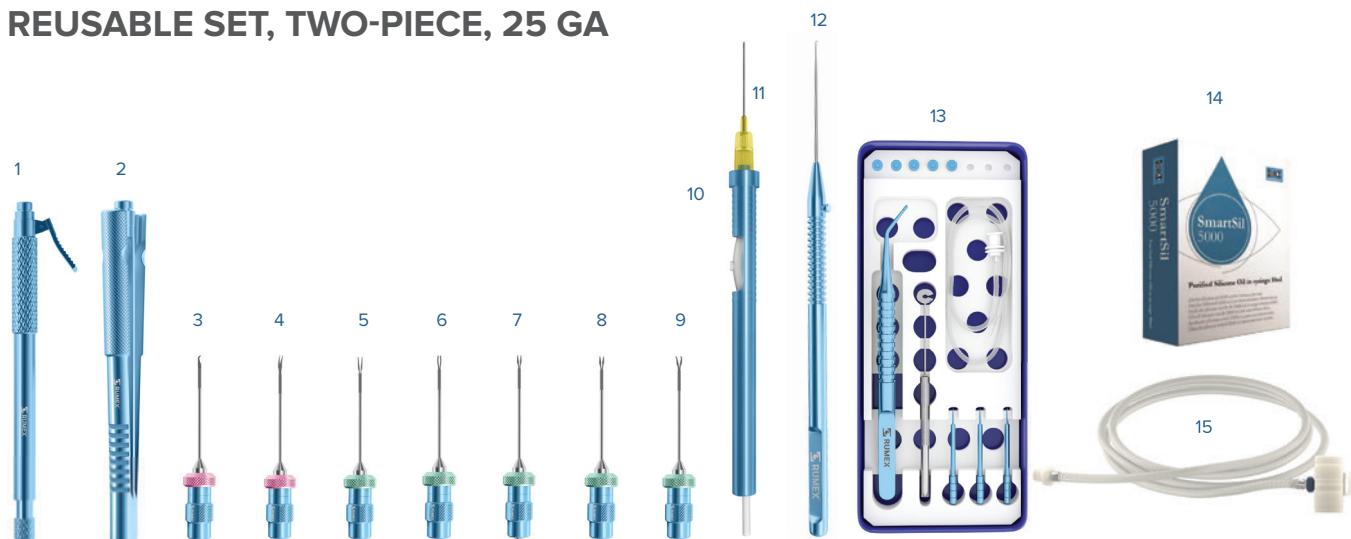


Reference	Key Description	Page	Reference	Key Description	Page
12-5229	1. Disposable One Step Trocar System 23 Ga, 6 per Box	155	12-202-23D	7. Disposable Vitreoretinal Vertical Scissors, 23 Ga, Plastic Handle 360°, 6 per Box	154
12-5161H	2. Backflush Instrument with Soft Tip, 23 Ga, 6 per Box	156	12-5203	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*	5. 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	6. 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*	7. 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	8. 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*	9. 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	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	13. Reusable Trocar System, 25 Ga	152	
12-410-25	5. Eckardt End-Gripping Forceps, 25 Ga, Tip only	15, 144	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-Sil5000	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt	158
12-3019	7. Vitreoretinal Forceps with a Sandblasted Platform, 25 Ga, Tip only	15, 146	Smart-Sil1000*	15. Reusable Tubing System for the Infusion Of Silicone Oil, Caprolone Adapter Adjustable To DORC® Associate™, EVA™, EVA NEXUS™, Alcon® Constellation™, Accurus™ Plastic Sterilization Tray with Silicone Finger Mat, Double Level, Extra Large	135, 136
12-304-25	8. Vitreoretinal Forceps with a "Crocodile" Platform, 25 Ga, Tip only	141, 146, 150	12-RTUB-2		
12-3259	9. Pick Vitreoretinal Forceps, 25 Ga, Tip only	15, 147	18-305*		

*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, 6 per box	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.

APPENDICES

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% tetraacetyl ethylenediamine; 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, KiiitoClean 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+, KiiitoClean 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.

APPENDICES

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	
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.

APPENDICES

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.

APPENDIXES

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

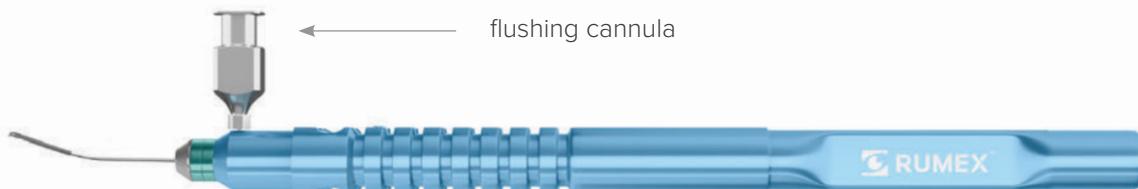
The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. Proteins may also accumulate inside of the mechanism. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument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

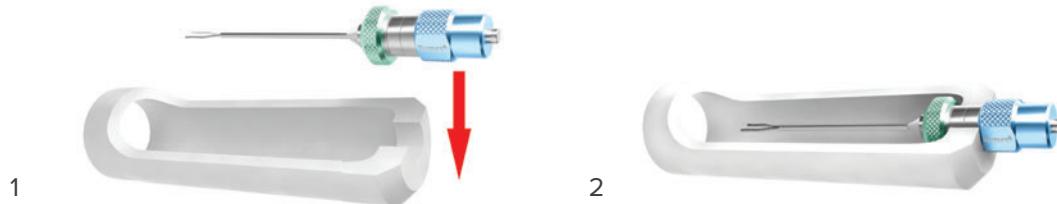


1. Put the instrument into PTFE protector (provided).
2. Soak it in the soap solution at temperature of 50°C (122°F) and keep it there for 15 min.
3. Wash the handle with brush and cotton/gauze pad.
4. Take the instrument out of soap bath and wash it under streaming water for 3 min.
5. Rinse the instrument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

APPENDIXES

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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RUMEX INTERNATIONAL COMPANY

📍 **14240 Carlson Circle,
Building K, Suite 8, Tampa,
FL 33626, USA**

RUMEX BALTICS SIA

📍 **Robežu iela 46, Riga,
Latvia, LV-1004**

USA & CANADA:

📞 **+1 (727) 535 9600**
+1 (877) 77 RUMEX (Toll-Free)
📠 **+1 (727) 535 8300**
✉ **usacs@rumex.com**

EUROPE, ASIA, AFRICA,

LATIN AMERICA:

📞 **+371 6616 3182**
✉ **customerservice@rumex.com**

✉ **rumex@rumex.com**
🌐 **www.rumex.com**