

OPHTHALMIC INSTRUMENTS + IOLs & Consumables





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FEATURED SETS

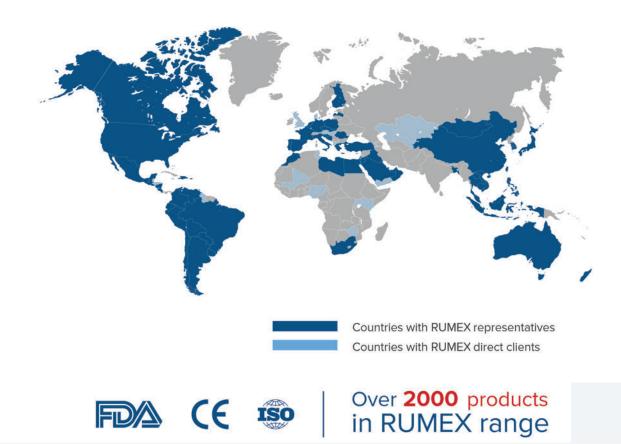
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Doctors in more than 100 countries choose RUMEX



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.

۲	SKU preferred by the majority of customers				
	Recently introduced into the product range of RUMEX International Co.				
2	Disposable instruments				
2	Available in a single-use edition				
INOX	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





OR

NON-PRELOADED IOL



AquaFree Yellow Aspheric Hydrophobic

Injector

+

PLUS

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

FEATURES:

DELIVERY SYSTEM

Money-wise solution

Flexibility in choosing the IOL

* for 2.2mm 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
- instrumentsEndothelium 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



			4	quaFree Yel Hydrop	-	ic .	AquaFree Yo	ellow Preloaded
Min. incision size				2.2 mm				
Overall o	diameter			13.0 mm				
Optic dia	ameter			6.0 mm				
Power ra	ange			0D to +9D (1D steps) +10D to +30D (0.5D steps)				
Self-unfo	olding					Yes		
Water co	ontent					<0.5%		
Angulati	on					O°		
Material Natural Yellow Hydrophobic Acrylic					С			
Optic design Biconvex, 360° square edge								
Refractiv	ve index					1.5		
Abbe number 50								
Nominal	A-constan	t				118.7		
A-consta	ant for ultra	sound		118.4				
Transitio	n temp. of	material				11°C		
Filtration	I				UV and B	lue Light (4	00-475 nm)	
AC-dept	oth 5.51							
Shelf life 5 years								
Optimized optical constants								
	Haigis:		HofferQ:	Holl.1:				
aO	a1	a2	pACD	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 2.2 mm incision fast recovery
- Manufactured by the lathe-cut (LC) method no glistenings

Easy and controlled implantation

- Special surface polishing a lens does not stick to itself or 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

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

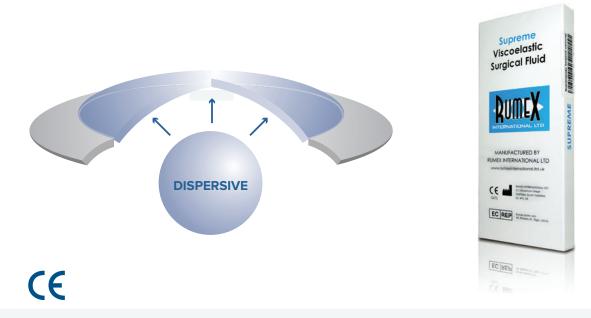
Classification	Dispersive
Composition	HPMC 2%
Molecular weight	86 000 Da
Viscosity	3 000–4 500 cSt
рН	6.0–7.8
Osmolality	250–350 mOsmol/kg
Volume	2 ml
Storage	2-35°C
Shelf Life	3 years

Advantages

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

Dispersive OVD Supreme is used to:

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





SMARTVISC/SMARTVISC PLUS* Ophthalmic Viscosurgical Device

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

	SmartVisc	SmartVisc PLUS
Classification	Со	hesive
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
рН	6.	8–7.4
Volume		1 ml
Shelf Life	3.5	years

Advantages

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

Cohesive OVD SmartVisc is used to:

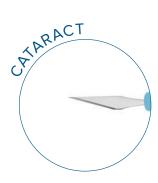
- Maintain space and pressure in the eye
- Keep the empty capsular bag open for IOL insertion
- Support the anterior chamber and flatten the anterior capsule
- Dilate small pupils
- Dissect areas of adhesion



DISPOSABLE KNIVES

ALL KNIVES ARE EQUIPPED WITH SAFETY LIDS





Side-Port Knives

Initial stab incisions Straight, double bevel

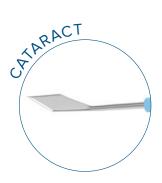
SP-15 1.00 mm, 15° ♥
SP-30 1.00 mm, 30°
SP-45 1.00 mm, 45°



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	

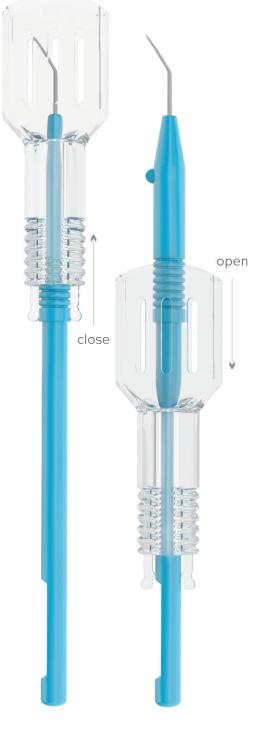


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Trapezoidal Knives

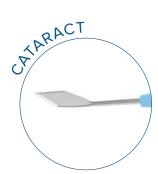
Tunnel incisions Angled, single bevel

TR-101.20-1.40 mmTR-171.50-1.70 mm



IOLs, DISPOSABLE INSTRUMENTS & CONSUMABLES

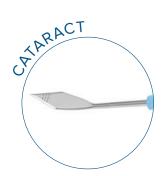
STERILE



Clear Corneal Knives

Clear corneal incisions Angled, double bevel

2.20 mm	•
2.40 mm	
2.65 mm	
2.75 mm	•
3.00 mm	
	2.65 mm 2.75 mm



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

19 Ga	
20 Ga	
23 Ga	
25 Ga	\rightarrow
multiface	t
19 Ga	
20 Ga	
23 Ga	
25 Ga	$ \land $
	20 Ga 23 Ga 25 Ga nultiface 19 Ga 20 Ga 23 Ga



DISPOSABLE INSTRUMENTS

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 💙

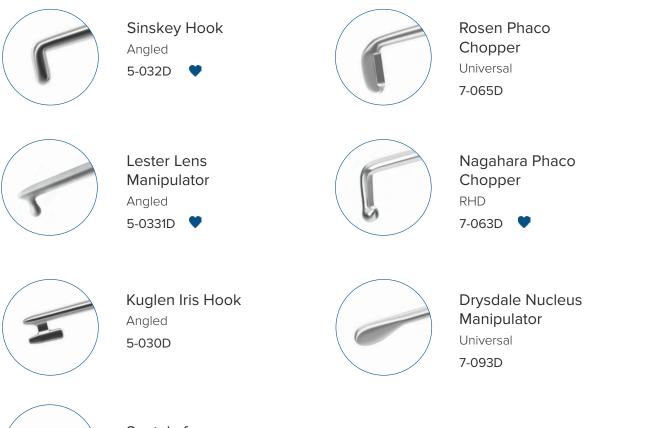


Rumex^{*} (2)

STERILE

Hooks, Choppers, Manipulators

Overall length 120 mm

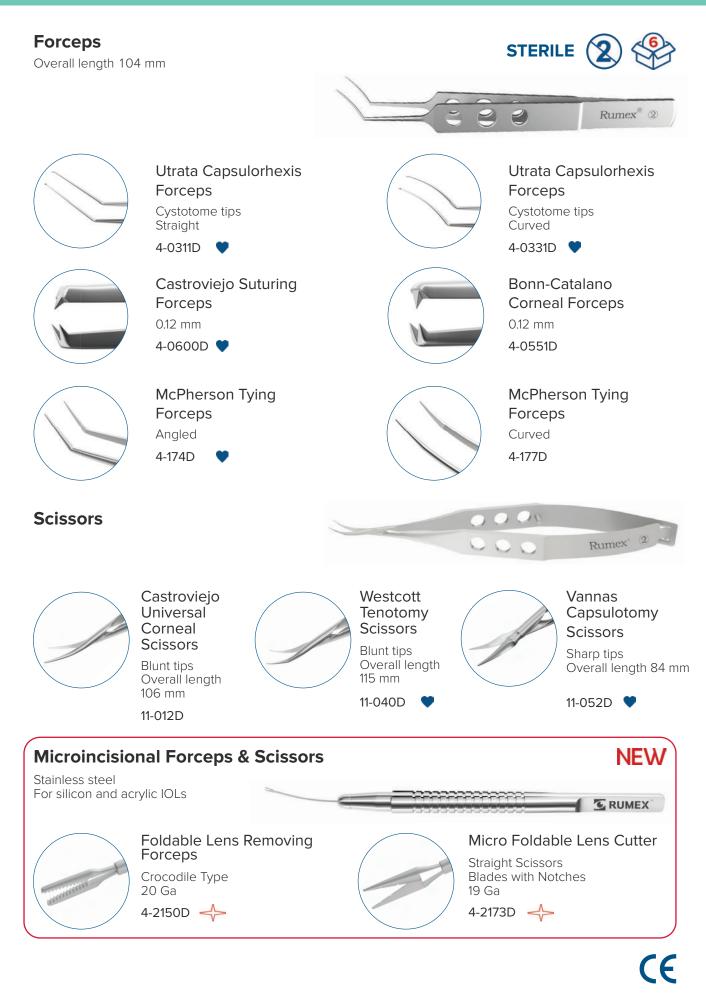




Spatula for Femtosecond Laser Procedure 20-204D

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IOLs, DISPOSABLE INSTRUMENTS & CONSUMABLES



IOLs, DISPOSABLE INSTRUMENTS & CONSUMABLES

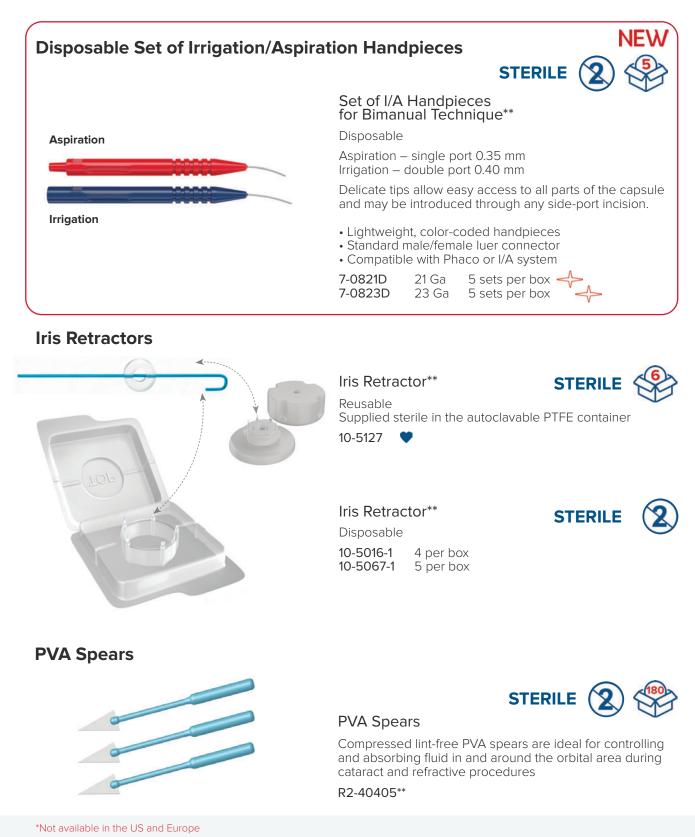
Disposable Cartridges for IOL Injector*





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

CAT-22 for 2.2 mm incision CAT-24 for 2.4 mm incision CAT-26 for 2.6 mm incision



20
 **Not available in Europe
 Product design and/or features that do not influence its functionality and main parameters are subject to change

MANI OPHTHALMIC SUTURES*



The following list is for reference only.

The sutures are used depending on the surgeon's techniques and preference. The sutures are supplied sterile in a box of 12.

Item	Suture			Needle			
Number	Description	Length	Shape	Length	Curve	Diameter	Application
10-0 Nylon Blac	k Mono Sutures						
22-R1404							Cornea,
		30 cm	Trape	5.5 mm	7/16 (158°)	0.14 mm	Scleracornea
\subseteq			Spatula				Sclera Flap
22-R1410							
X		30 cm	Trape	7 mm	1/2 (180°)	0.14 mm	Scleracornea
\subseteq			Spatula	,	1/2 (100)	0.111111	Gereracomea
22-R1404S			Trape				
12		15 cm	Spatula	5.50 mm	7/16 (158°)	0.14 mm	Scleracornea
\smile			Single- armed		(,		
22-R2002							
		30 cm	Trape Spatula	6.50 mm	3/8 (135°)	0.20 mm	Scleracornea
C			Spatula				
5-0 Polyester Gr	een Braided						
22-R3373							
\sim		45 cm	Dia	8 mm	1/4 (90°)	0.33 mm	Operations
\smile			Spatula				on Vitreous
5-0 Polyester Wh	nite Braided						
22-R3377			-				0
		45 cm	Trape Spatula	8 mm	1/4 (90°)	0.33 mm	Operations on Vitreous
\smile			oputulu				
1-0 Silk Black Br	aided Sutures						
22-R4351							
1		50 cm	Reverse Cut	13 mm	3/8 135°	0.43 mm	Control sutur
C			Cui				
6-0 Silk Black Br	aided Sutures						
22-R3305							
1		45 cm	Reverse Cut	11 mm	3/8 135°	0.33 mm	Skin, Ocular Muscles
\mathbb{C}			Cui				Muscles
22-R2801							
\mathbf{X}		45 cm	Trape	6.5mm	3/8 135°	0.28 mm	Skin, Ocular
\subseteq			Spatula		2,0,00		Muscles
3-0 PGA Absorb	able Violet Braided Suture	2S					
2-R2090							Conjunctiva,
		30cm	Trape	6.5mm	3/8 135°	0.20 mm	Sclera, Closir
			Spatula				MVR Port

*For sale in the US only

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 D	Outer Diameter		
	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-R202323 Ga × 22 mm21-R203030 Ga × 22 mm

8 mm angled tip

21-R2027-8 27 Ga × 22 mm

Viscoelastic Cannulas

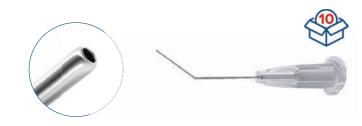
Used for maintaining and forming the anterior or posterior chamber by infusing or aspirating viscoelastic.

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

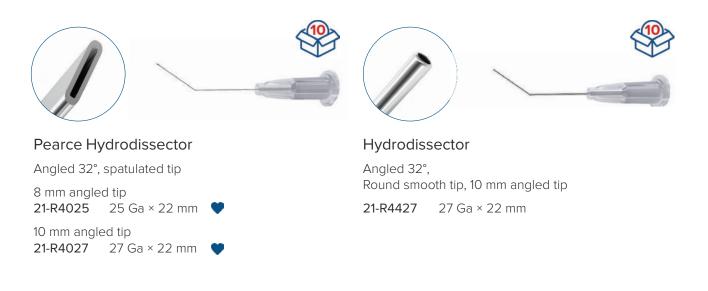
0.3 mm port

21-R5623 23 Ga × 16 mm



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.



CYSTOTOME CANNULAS

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

Pearce Irrigating Cystotome 21-R3027 27 Ga × 16 mm





REFRACTIVE CANNULAS

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

Lindstorm Lasik Irrigating Cannula

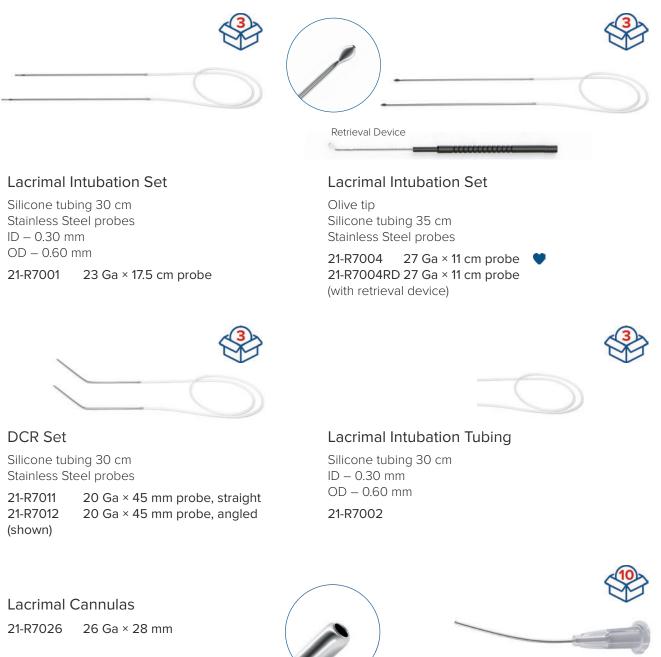
3 ports Formed 7 mm Smooth angle curvature allows for safe flap alignment

21-R7430 25 Ga × 25 mm



LACRIMAL CANNULAS AND SETS

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



NEW & COMING SOON PRODUCTS

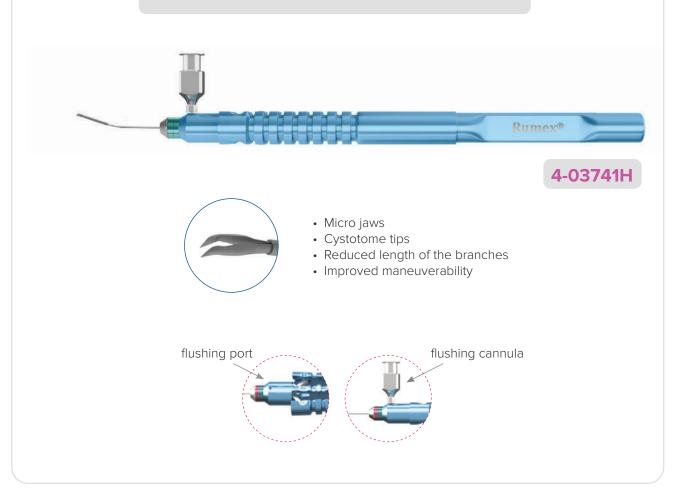
NEW

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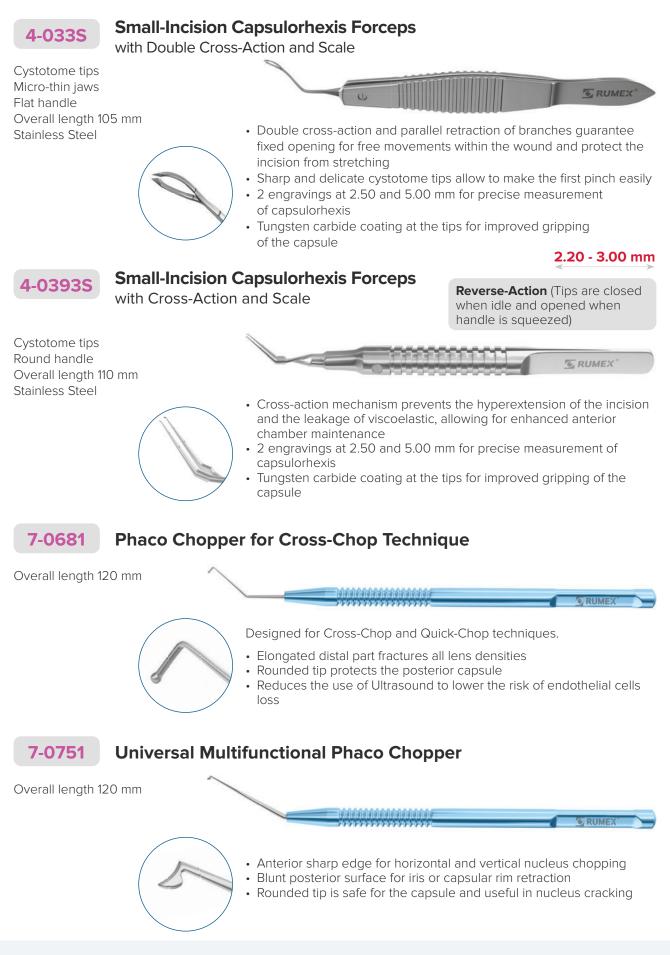
Complete tool – no need to adjust the tip to the handle **Delicate cleaning** – flushing liquid streams towards the tips with zero stress for the jaws

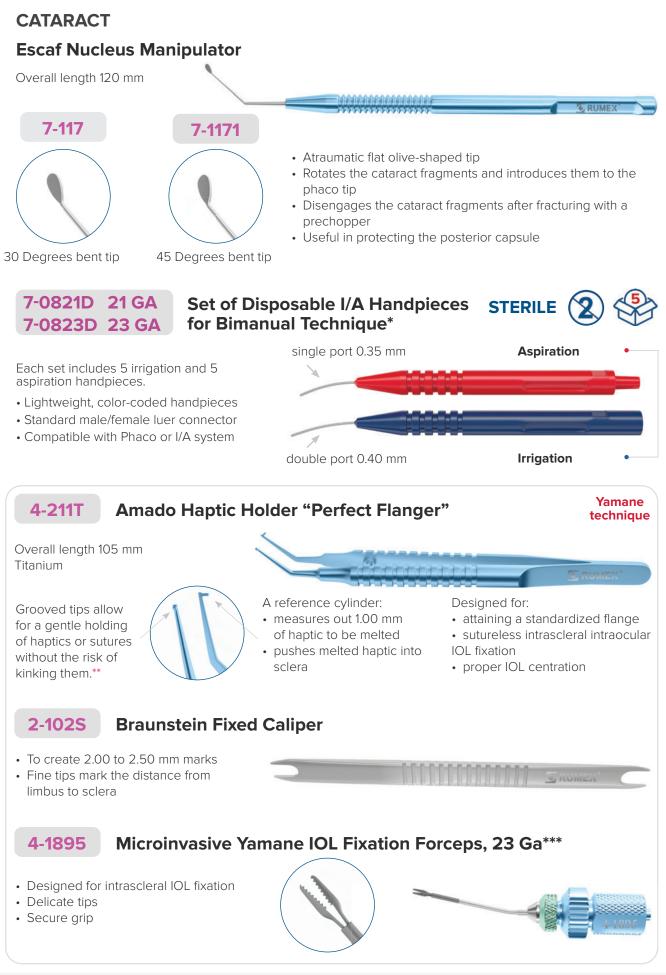
Increased lifespan – the inner mechanism is not involved into the cleaning process and stays intact



CATARACT

1.50 mm

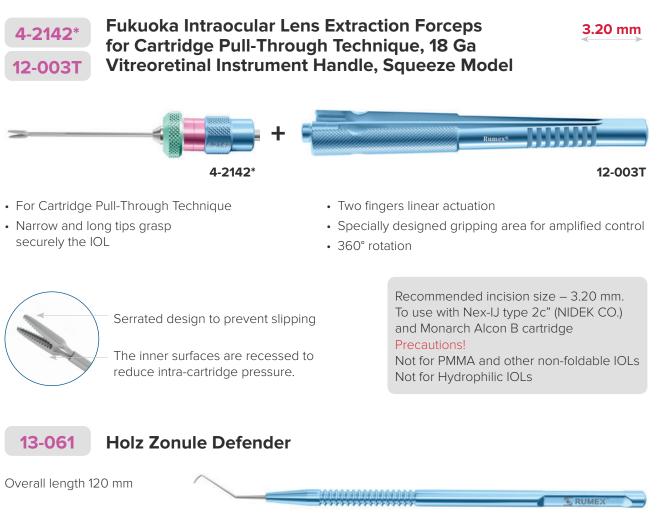




Not available in Europe

^{***} tested in polymethyl methacrylate haptics, polyvinyl fluoride haptics, and 6-0 polypropylene sutures
***Tip only. Handles are sold separately

IOL COMPLICATIONS MANAGEMENT



- The device is to be inserted into the equator of the capsule bag and used as counter traction when removing (pulling) the haptic from it during IOL exchange
- The surface area will distribute the countertraction forces and prevent the prying motion from breaking zonules

STERILE Disposable Micrioncisional Forceps & Scissors 2.00 mm Stainless steel For silicone and acrylic foldable IOLs **C**RUMEX Foldable Lens Removing Micro Foldable Lens Cutter 4-2150D 4-2173D Forceps Straight Scissors 20 Ga 19 Ga crocodile type serrated jaws • blades with delicate notches enable secure gripping of the IOL create traction and prevent IOL slipping while cutting

NEW & COMING SOON PRODUCTS

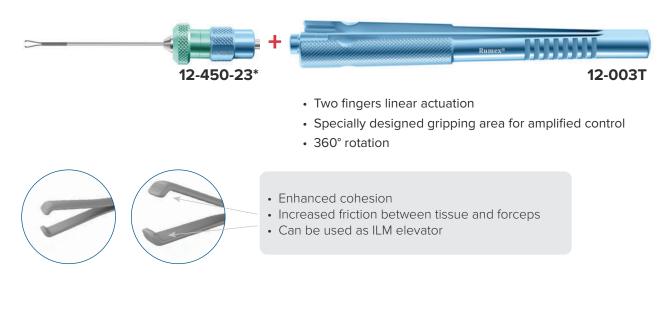
VITREORETINAL



12-003T

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

Vitreoretinal Instrument Handle, Squeeze Model

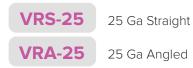


DISPOSABLE MVR KNIVES



now also in 25 Ga

Multifacet blade Used for posterior segment penetration/side-port incisions





HYDROPHILIC IOLs

COMING SOON*

Hydro-SOFT Clear & Hydro-SOFT Yellow

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



- 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 preloaded in a cartridge in a container with liquid

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 also at an 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 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 2.8

A set of disposable IOL injector and cartridge. Available in two sizes – for 2.2 mm and 2.8 mm incision



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

PFO LIQUID

COMING SOON*

VitreoOcta

Perfluorooctane liquid for vitreoretinal surgery (PFO)



An ideal intraoperative tool to improve the efficiency and safety of vitreoretina 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

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

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

SmartBlue



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



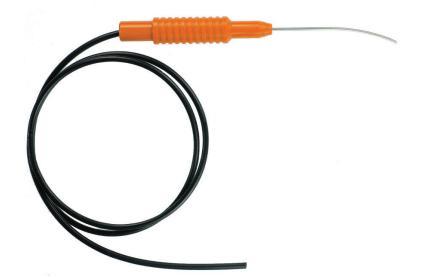
- Facilitates capsulorhexis
- Excellent visualization of the capsule in the eyes with matured cataract/ narrow pupils
- Clear visualization of outline of the capsule rim during surgery
- Reduces the risk of incomplete capsulorhexis

* Products in the process of development and certification

DISPOSABLE LASER PROBES

Designed to perform endo-ocular laser photocoagulation treatment





23 Ga
25 Ga
27 Ga

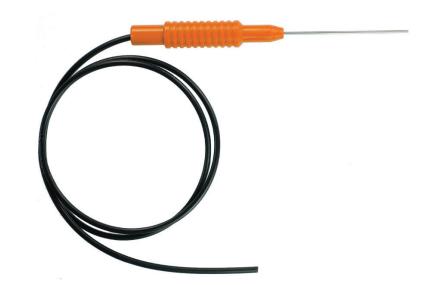
Surgical system/type of the probe	Straight		Curved		Extensible	
SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®, B&L®	RLS-23AZ	23 Ga	RLC-23AZ	23 Ga	RLEX-23AZ	23 Ga
	RLS-25AZ	25 Ga	RLC-25AZ	25 Ga	RLEX-25AZ	25 Ga
	RLS-27AZ	27 Ga	RLC-27AZ	27 Ga		
	RLS-23D	23 Ga	RLC-23D	23 Ga	RLEX-23D	23 Ga
DORC [®]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

DISPOSABLE FIBER OPTIC PROBES

Used to illuminate the interior of the eye

23 Ga
25 Ga
27 Ga





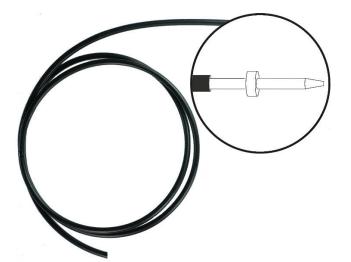
	Standard		v	Wide-angle		Shielded	
Surgical system/type of illumination							
	12-5177	23 Ga	12-5178	23 Ga	12-5625	23 Ga	
Alcon®	12-5135	25 Ga	12-3625	25 Ga	12-5627	25 Ga	
	12-5927	27 Ga					
B&L®	12-5179	23 Ga	12-5180	23 Ga	12-5725	23 Ga	
	12-5125	25 Ga	12-5427	25 Ga	12-5727	25 Ga	
	12-5127	27 Ga					
	12-4123	23 Ga	12-5463	23 Ga	12-5853	23 Ga	
Oertli®	12-4125	25 Ga	12-5465	25 Ga	12-5855	25 Ga	
	12-4127	27 Ga					
BVI® (OPTIKON)	12-9123	23 Ga	12-5453	23 Ga	12-5843	23 Ga	
	12-9125	25 Ga	12-5455	25 Ga	12-5845	25 Ga	
	12-9127	27 Ga					

* Products in the process of development and certification

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





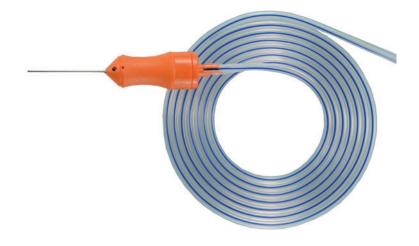
Surgical system/type of the probe	s	tandard	Du	ual Fiber	with preloa	aded Trocar and aserter
	12-4563	23 Ga			12-5223	23 Ga
Alcon®			12-4526	25 Ga	12-5225	25 Ga
					12-6327	27 Ga
	12-4573	23 Ga				
B&L®			12-4545	25 Ga		
Oertli®	12-4593	23 Ga			12-5543	23 Ga
Vertil			12-4543	25 Ga	12-5545	25 Ga
BVI® (OPTIKON)	12-4583	23 Ga			12-5533	23 Ga
			12-4535	25 Ga	12-5535	25 Ga
Synergetics®	12-4553	23 Ga				
			12-4525	25 Ga		

Products in the process of development and certification
 Product design and/or features that do not influence its functionality

DISPOSABLE VITRECTOMY CUTTERS

Help to efficiently cut and aspirate vitreous





23 Ga
25 Ga
27 Ga

Surgical system/type of the cutter	Single Cut		Speed/Pressure	Double Cut		Speed/Pressure
Alcon [®] :	RV-23AC	23 Ga	Speed: 2000 CPM			
Accurus®DORC®: Associate®	RV-25AC	25 Ga	Pressure: 42 PSI			
	RV-23BF	23 Ga		RV-23BFd	23 Ga	
B&L®: Stellaris®	RV-25BF	25 Ga	Speed: 5000 CPM Pressure: 42 PSI	RV-25BFd	25 Ga	Speed: 10000 CPM Pressure: 42 PSI
	RV-27BF	27 Ga				
	RV-23OS	23 Ga				
Oertli®: OS4®	RV-25OS	25 Ga	Speed: 5000 CPM Pressure: 35-37 PSI			
	RV-27OS	S 27 Ga				
	RV-230B	23 Ga		RV-230Bd	23 Ga	
BVI® (OPTIKON): R-Evo Smart® CR	RV-250B	25 Ga	Speed: 5000 CPM Pressure: 30 PSI			Speed: 10000 CPM Pressure: 30 PSI
	RV-270B	27 Ga				
BVI® (OPTIKON):	RV-230Z	23 Ga		RV-230Zd	23 Ga	
R-Evolution®	RV-250Z	25 Ga	Speed: 6000 CPM Pressure: 43 PSI			Speed: 12000 CPM Pressure: 43 PSI
CRZEISS®: VISALIS®	RV-27OZ	27 Ga				
	RV-23GC	23 Ga				
DORC®: EVA®	RV-25GC	25 Ga	Speed: 8000 CPM Pressure: 42 PSI			
	RV-27GC	27 Ga				

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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

V

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 mm. Scale is engraved on both sides. Polished finish Overall length 87 mm Titanium or Stainless Steel 2-010T 0-20.00 mm 2-010S 0-20.00 mm



Adler Wound Gauge

Used to measure incision width and depth (peripheral to central dimension) of a corneal/limbal wound. Dull finish Diameter 30 mm Titanium 2-064T 2.00-2.50 mm



RUMEX Internal Micro Incision Gauges

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

2-062S

1.00-2.50 mm

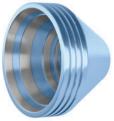


Braunstein Fixed Caliper

To make the mark for MVR blade entrance and intravitreal injections. Marks the distance from limbus to sclera. 3.50/3.00 mm for aphakic and 4.00/3.50 mm for phakic eyes. Overall length 80 mm Titanium or Stainless Steel

2-101T 2-100T 2-100S 2-102S





Maloney Intraoperative Keratometer

For qualitative measurement of astigmatism Diameter 32.00 mm Overall length 23 mm Titanium **16-020T**

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 Dull 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°. Dull finish Titanium



ID 13.00 mm/ED 19.00 mm Overall length 134 mm

2-030T

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 Dull finish Overall length 133 mm Titanium

2-034T

Degree Gauge with **Beveled Face**

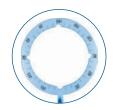
Can be used with 3-091T Bores Axis Marker. Calibrated every 5 degrees from 0° to 180°. ID 12.00 mm/ED 16.00 mm Overall length 132 mm Titanium

2-036T



180

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 2-0331T

With 4 grooves for better marks 2-033T





AXIS MARKERS

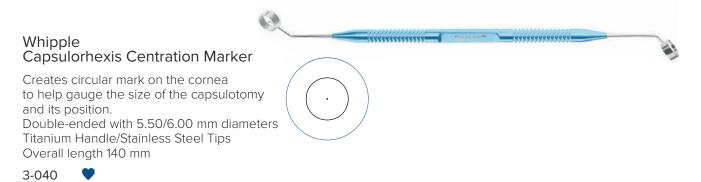
Bores Axis Marker

Intra-Op Overall length 123 mm Titanium

3-090T 🖤 3-091T



CAPSULORHEXIS MARKERS



CORNEAL TRANSPLANT MARKERS



Abdullavev Scleral Marker for Keratoplasty

Double-ended (16.00 mm and 16.50 mm diameters) Titanium Handle/Stainless Steel Tips Overall length 153 mm

3-0230

3-0231

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



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

- 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

ω

- MARKER

CORNEAL TRANSPLANT MARKERS

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

Overall length 125 mm Titanium

3-024T

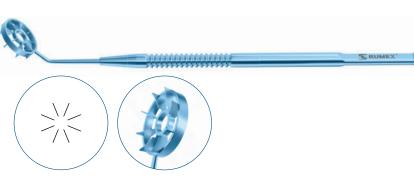


- More stable staining
- Applies 1.50 mm straight I & II marks at the very edge of the graft
- No additional tissue manipulation
- Saves time during graft preparation

Osher-Neuman Corneal Marker

Low profile 8 radial blades Overall length 130 mm Titanium

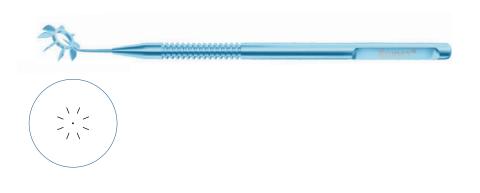
3-0304T



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

RUMEX

• Optimal angle provides for better visualization of "S" while marking

OPTICAL ZONE MARKERS

Hoffer Optical Zone Marker		9			S RUMEX"
With cross hairs Titanium Handle/Stainless Steel Tip Overall length 103 mm	3-0211T 3-0212T 3-0213T 3-0216T	5.00 mm 5.50 mm 6.00 mm 7.50 mm	3-0217T 3-0218T 3-0219T	8.00 mm 8.50 mm 9.00 mm	

Optical Zone Marker

Used to mark visual center for ICRS implantation procedure.	Romox® AMMANAMANA
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	

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

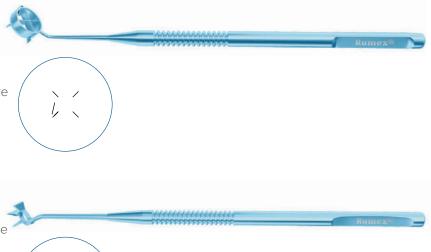
3-176T

TORIC IOL MARKERS

Toric IOL Marker

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

3-181

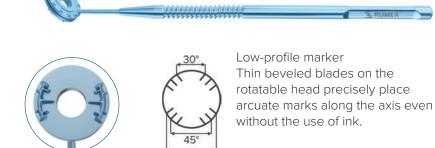


LRI MARKERS

LRI Marker

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

3-183T



11.75mm

60

LRI Marker

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

3-1801



2

1

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

LRI Slit Lamp Gravity Marker

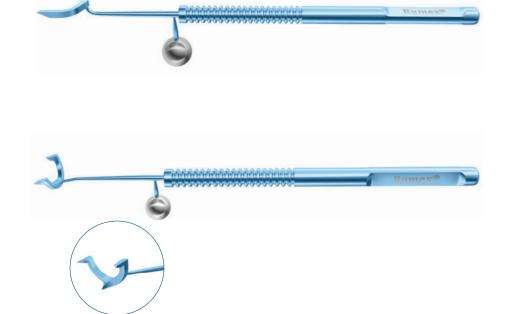
Pre-Op, 14.00 mm Horizontal axis 3' and 9' Overall length 138 mm Titanium

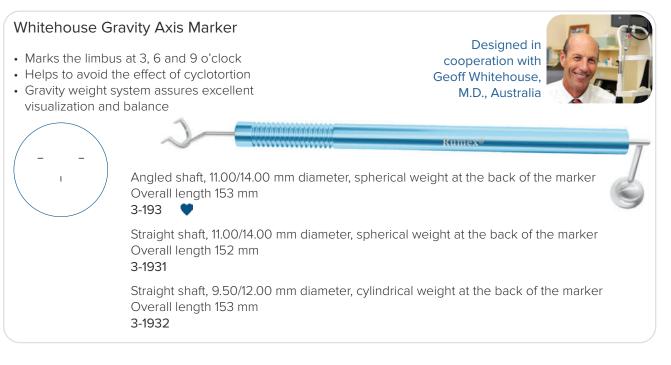
3-191

Lum LRI Gravity Axis Marker

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

3-192

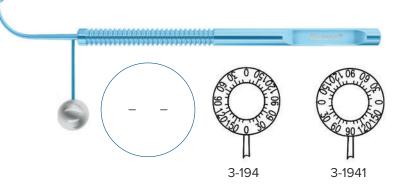


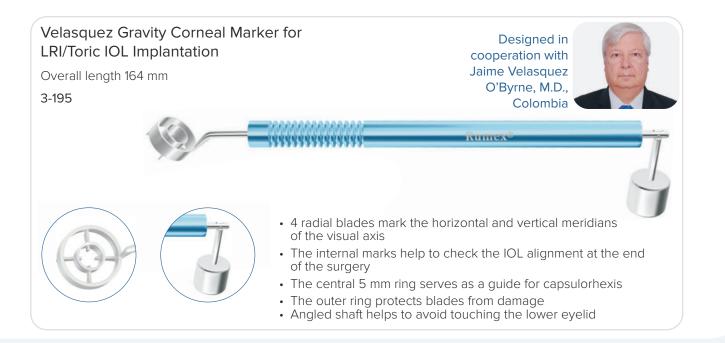


RUMEX Toric Combo Marker

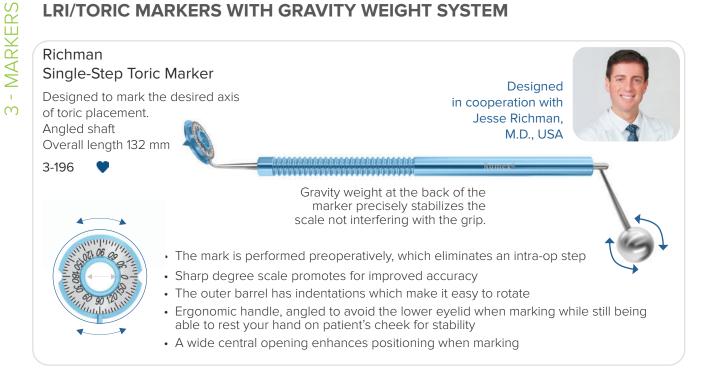
Overall length 125 mm

- 3-194 Vertical axis3-1941 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



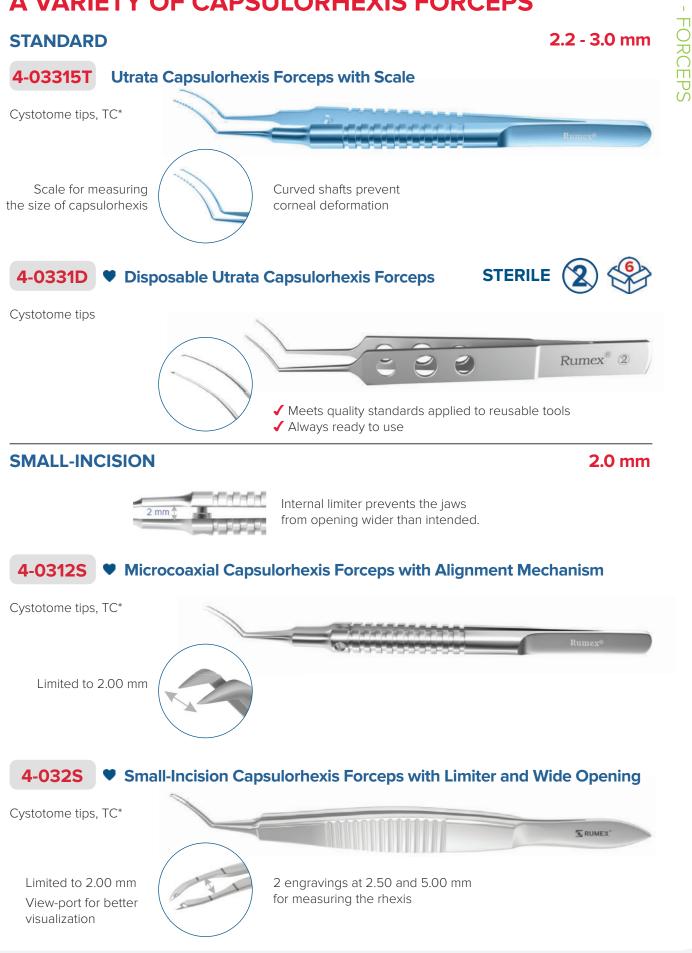


LRI/TORIC MARKERS WITH GRAVITY WEIGHT SYSTEM





A VARIETY OF CAPSULORHEXIS FORCEPS



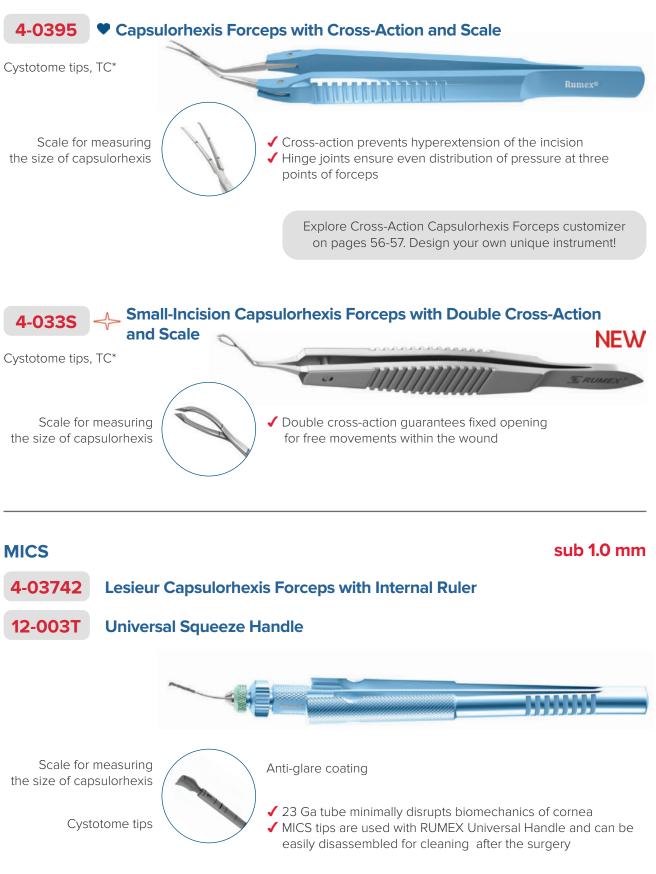
4

A VARIETY OF CAPSULORHEXIS FORCEPS



4 - FORCEPS

1.50 mm



FORCEPS

CAPSULORHEXIS FORCEPS

Tungsten carbide coated cystotome tips for improved gripping

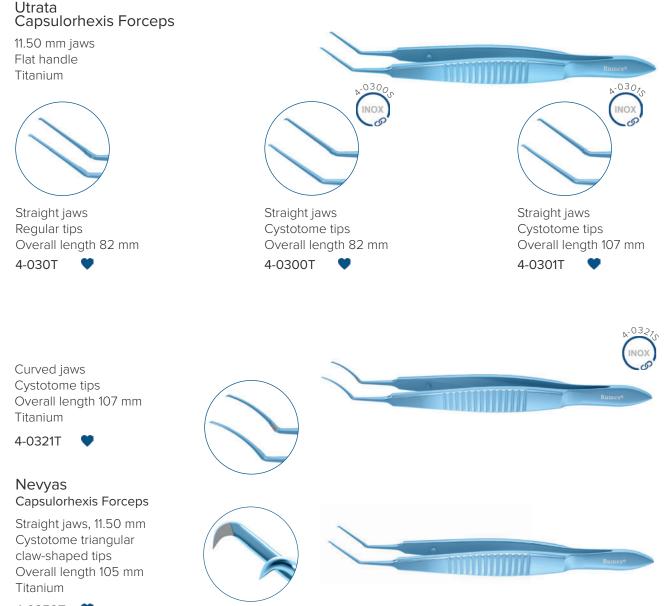




4 - FORCEPS

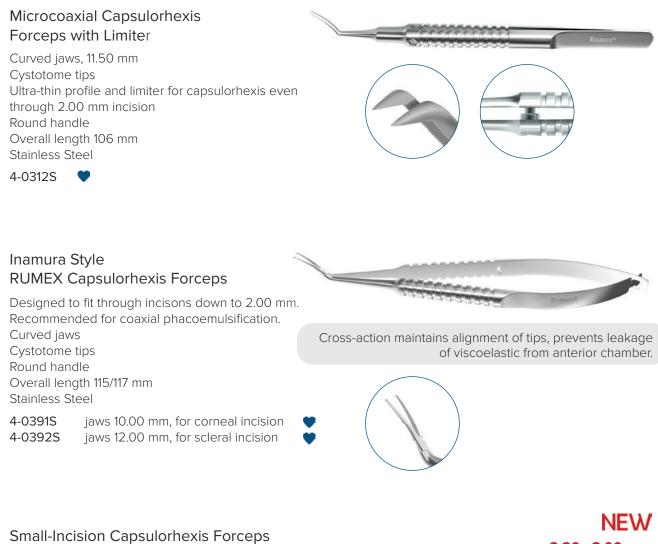
Regular tips

Cystotome tips



4-0352T

CAPSULORHEXIS FORCEPS



Small-Incision Capsulorhexis Forcept with Cross-Action and Scale

Cystotome tips Round handle Overall length 110 mm Stainless Steel

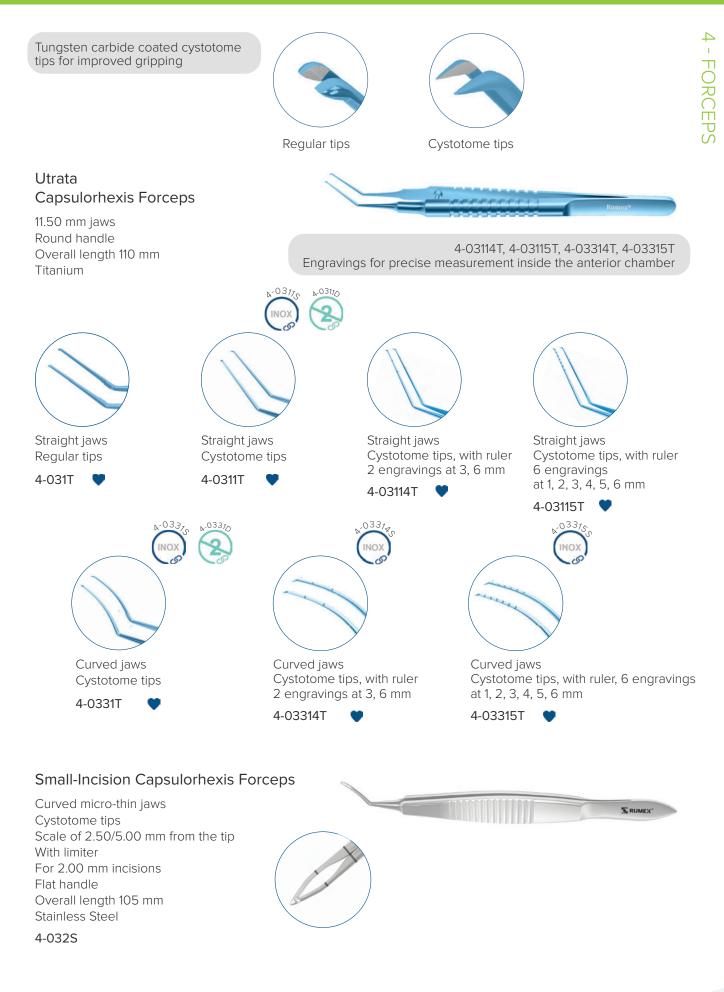




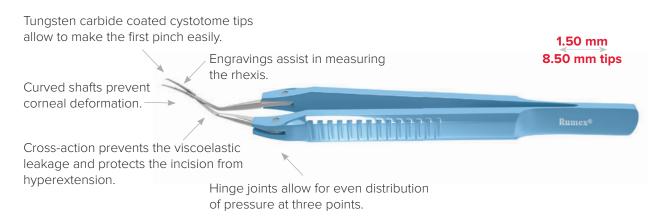
Reverse-Action (Tips are closed when idle and opened when handle is squeezed)



- 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

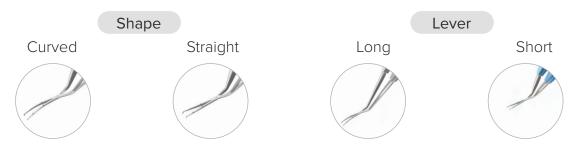


CROSS-ACTION CAPSULORHEXIS FORCEPS

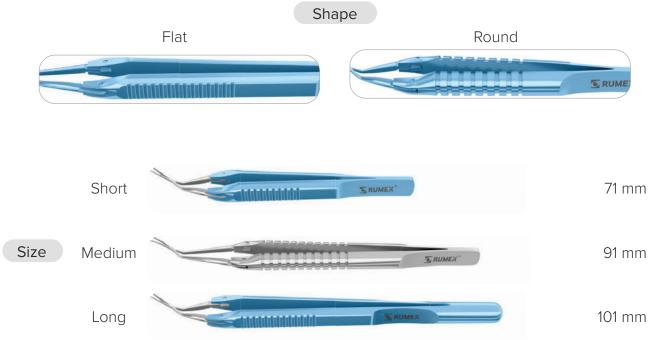


Design custom Cross-Action Capsulorhexis Forceps and we will manufacture them for you!

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

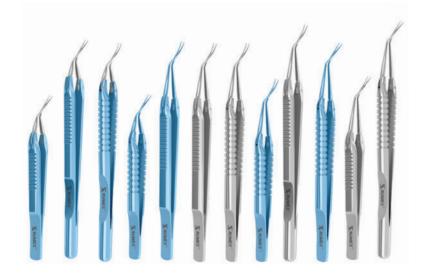
PRODUCTS by TYPE 🗸	PRODUCTS by PROCEDURE	✓ FEATURED ✓ AE	SOUT US 🗸 CONTACT US
De	sign your own Cap	sulorhexis Forceps onlin	ne.
	5		
	Choose the Tip and Han		Default
Tips shape		Handles shape	
		Handles mater	ial 🔨
Curved Stra	ight		-
Tips material	~	TI	SS
Tips lever	~	Handles ength	~

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!







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

Micro-thin jaws Cystotome tips

Stainless Steel

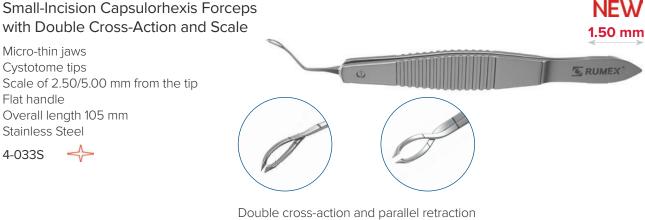
Flat handle

4-033S

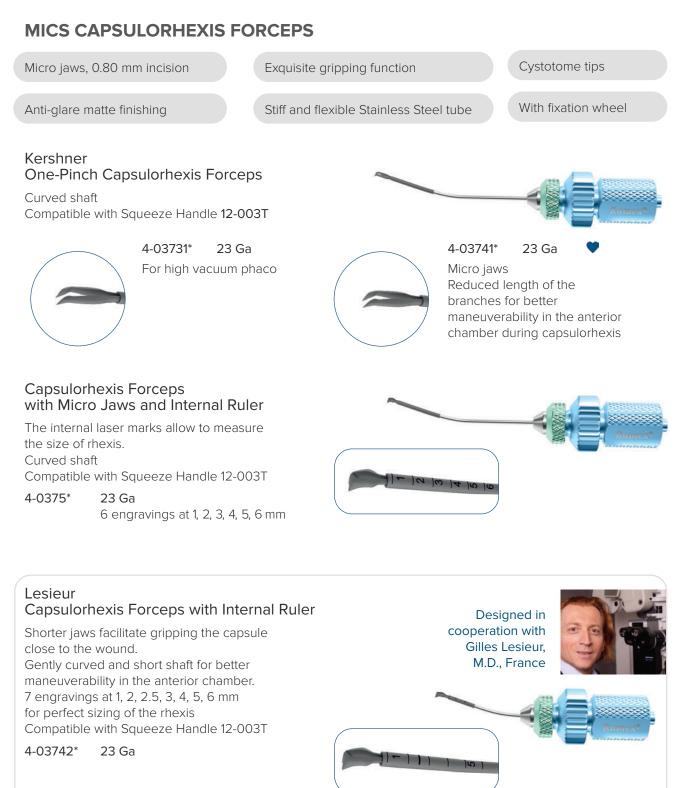


Curved jaws Flat handle Titanium 4-0395T





of branches guarantee fixed opening for free movements within the wound and protect the incision from stretching.



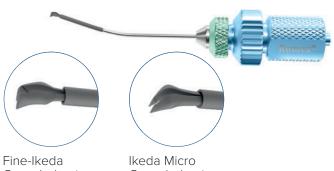
*Tip only. Handles are sold separately. Product design and/or features that do not influence its functionality and main parameters are subject to change

MICS CAPSULORHEXIS FORCEPS

Ikeda

Capsulorhexis Forceps

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



Capsulorhexis Forceps with Micro Jaws, 23 Ga 4-03751*

Capsulorhexis Forceps, 23 Ga

23 Ga

4-03761* 23 Ga

25 Ga Kawai 23 Ga Capsulorhexis Forceps Curved tapered elongated 23/25 Ga shaft The construction of the forceps shows least adverse effect on the wound. Gripping tips are projected out of 25 Ga shaft. Compatible with Squeeze Handle 12-003T 4-03771* 23/25 Ga **Capsulorhexis Forceps** with View Port 7 engravings at 1, 2, 2.5, 3, 4, 5, 6 mm for perfect sizing of the rhexis Reduced length, gently curved tube Compatible with Squeeze Handle 12-003T 4-03791* 23 Ga Kershner One-Pinch Capsulorhexis NEW

Forceps, 23 Ga, One-Piece

4-03741H 🔶

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

Rumex

Improved maneuverability

> 60 Product design and/or features that do not influence its functionality and main parameters are subject to change

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







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



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

IOL REMOVING INSTRUMENTS



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

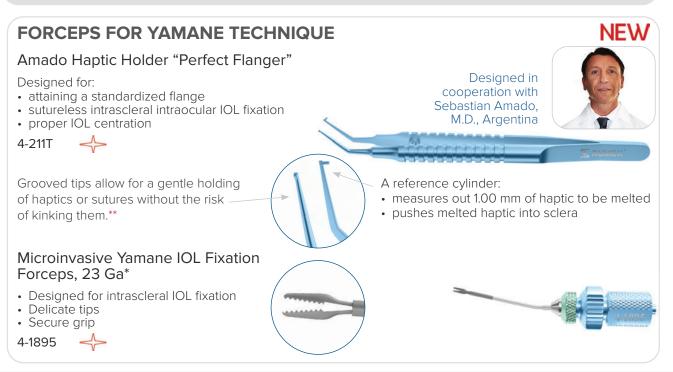
4-2142*

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

Narrow and long tips grasp securely the IOL. Compatible with Squeeze Handle 12-003T Straight shaft

Can be used with **13-061 Holz Zonule Defender.**

Recommended incision size – 3.20 mm. To use with Nex-IJ type 2c" (NIDEK CO.) and Monarch Alcon B cartridge. Precautions! Not for PMMA and other non-foldable IOLs. Not for Hydrophilic IOLs.



*Tip only. Handles are sold separately

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

> 62 Product design and/or features that do not influence its functionality and main parameters are subject to change

NEW

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 Titanium4-20111S Stainless Steel

ICL[™] - registered trademark of STAAR®



ICL[™] Coaxial Angled ICL[™] Loading Forceps

Designed to load the ICL[™] inside the catridge 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 catridge 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

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



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 topside view 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 topside view Overall length 108 mm Titanium 4-2138T

4 - FORCEPS

90

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

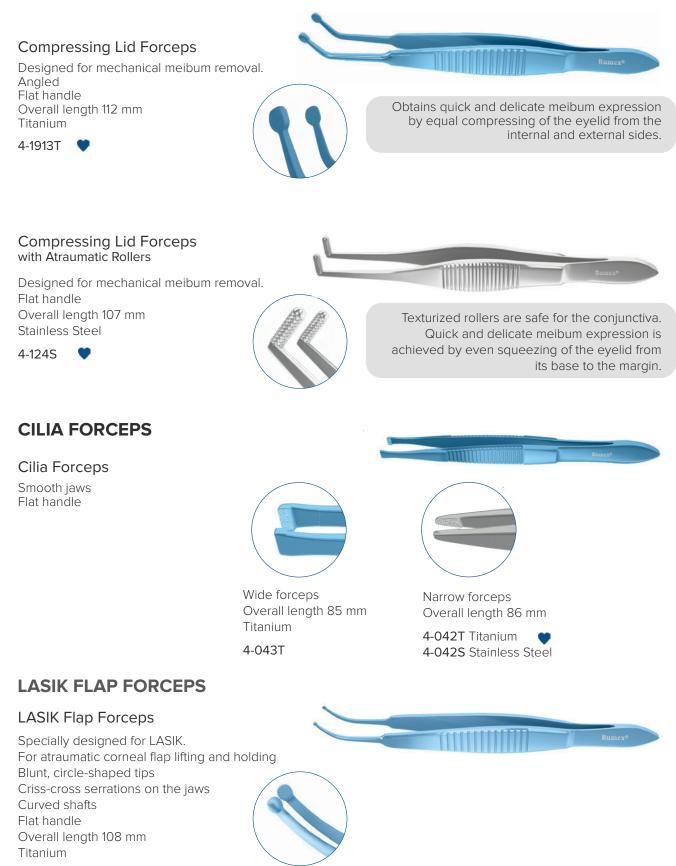
Fechtner **Conjunctiva Forceps**

Delicate ring tip jaws Flat handle Overall length 108 mm Titanium 4-2301T





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.



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



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

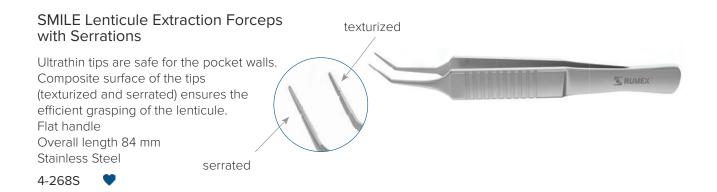
4-2012S

4-0398

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



4

- FORCEP

ICRS FORCEPS

Forceps for ICRS Implantation

0.20 mm 1×1 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

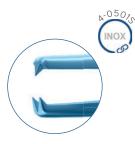
5.00 mm tying platform Flat handle



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



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



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



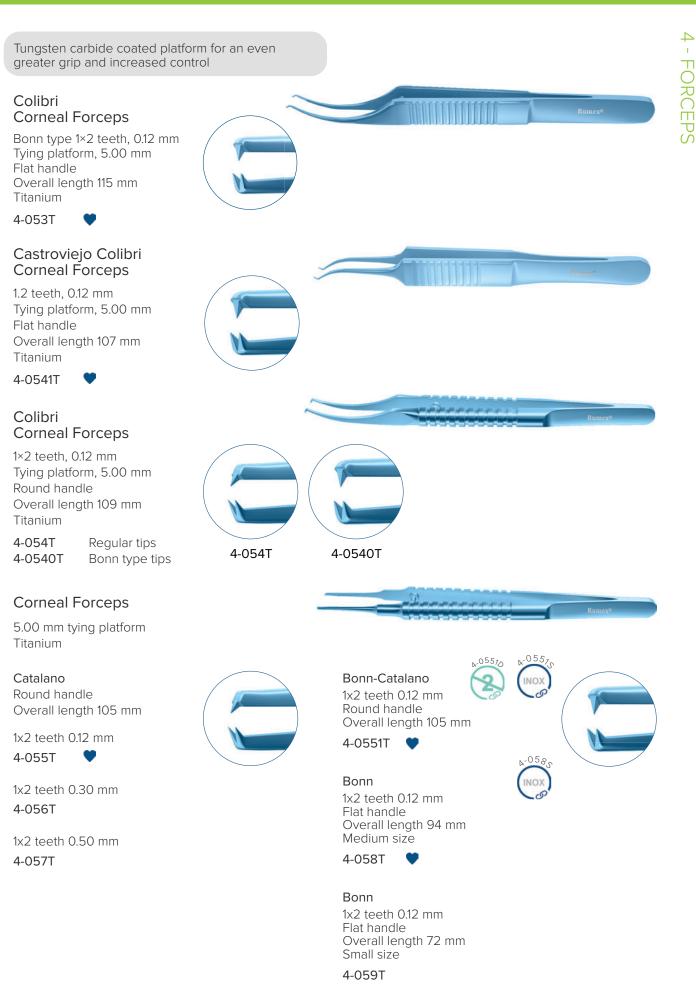
Hoskin Colibri Pierced tips Overall length 84 mm Stainless Steel 4-0502S



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



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



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

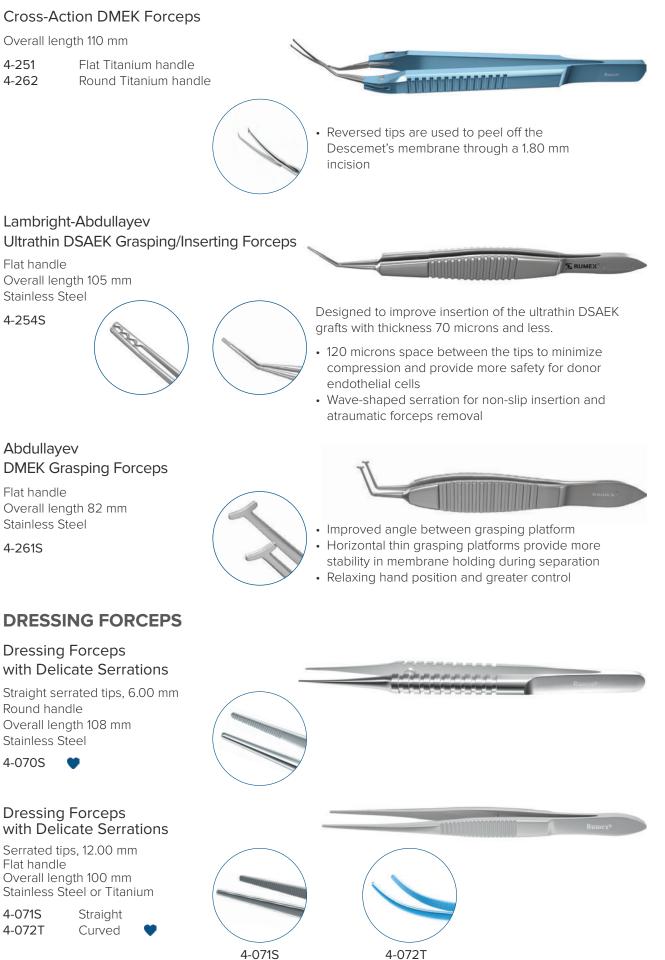
4-240



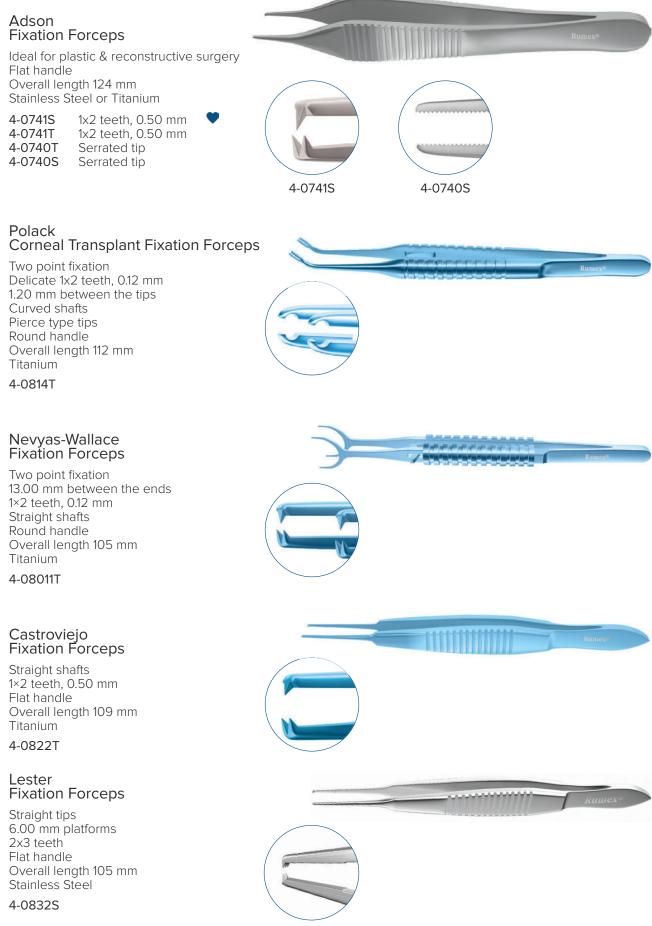


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FIXATION FORCEPS



IRIS FORCEPS



JEWELER FORCEPS

Jeweler #5 Forceps

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





Jeweler #3C Forceps

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

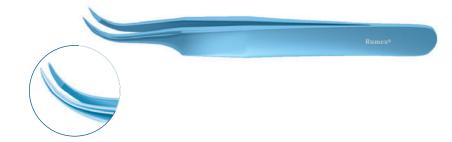


Jeweler #7 Forceps

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

4-115T







16-090S Large size Overall length 55

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



- FORCEPS

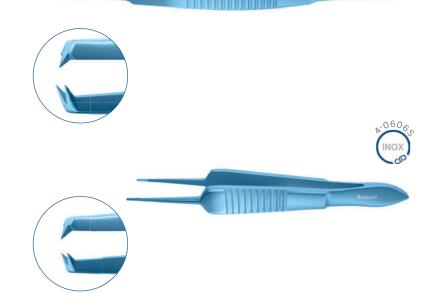
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Castroviejo Suturing Forceps

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

4-0600T1×2 teeth, 0.12 mm4-0601T1×2 teeth, 0.30 mm4-0602T1×2 teeth, 0.50 mm

Titanium or Stainless Steel



Paufique Suturing Forceps

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

4-0606T Titanium

Bishop-Harmon Suturing Forceps

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

4-0607S

Rance

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** Rumex*

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 Tying platforms, 8.00 mm Overall length 81 mm Overall length 84 mm Titanium Stainless Steel 4-090T 4-091S Tying platforms, 10.00 mm Tying platforms, 10.00 mm Overall length 86 mm Overall length 86 mm Titanium Stainless Steel 4-092T 4-092S **McPherson Tying Forceps** For 8-0 to 11-0 sutures Flat handle Straight Straight Tying platforms, 4.00 mm Tying platforms 7.00 mm Overall length 84 mm Overall length 110 mm Stainless Steel 4-171T Titanium (shown) 4-171S Stainless Steel 4-178S N-1770 Angled, Titanium Curved Tying platforms, 4.00 mm Tying platform, 6.00 mm Overall length 109 mm Overall length 102 mm Titanium A-174.5 4-173T N-1740 Tying platform, 8.00 mm INO 4-177T Overall length 103 mm 4-174T -17.5 Tying platform, 10.00 mm Overall length 104 mm 4-175T

N-1770

INO)

16

Tying platform, 12.00 mm Overall length 106 mm

4-176T

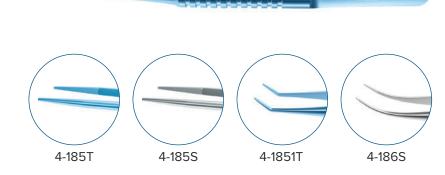


Tennant Tying Forceps For 9-0 to 11-0 sutures

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

Titanium or Stainless Steel

Straight (shown)
Straight
Angled
Curved



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



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 Left4-131S 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



Sinskey Lens Manipulating Hook

Angled 0.15 mm diameter tip Overall length 121/122 mm

5-032 Angled 5-0321 Straight



Bechert Nucleus Rotator

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

5-034



คิศิกิศิกิศิกิศิกิศิก

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



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



Fenzl Lens Manipulating Hook

Angled, 10.00 mm from tip to angle "T"-shaped tip Overall length 121 mm 5-036



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

С 1

HOOKS





Lester Lens Manipulator

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

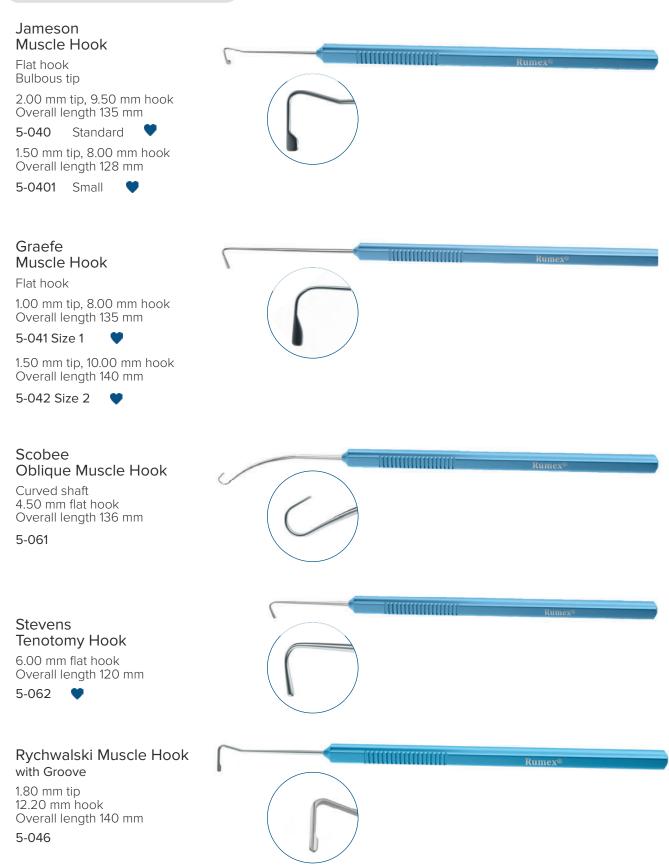
5-033	Straight	
5-0331	Angled	



MUSCLE/TENOTOMY HOOKS

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

Ensure safety of extraocular muscles



RETINAL DETACHMENT HOOKS

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

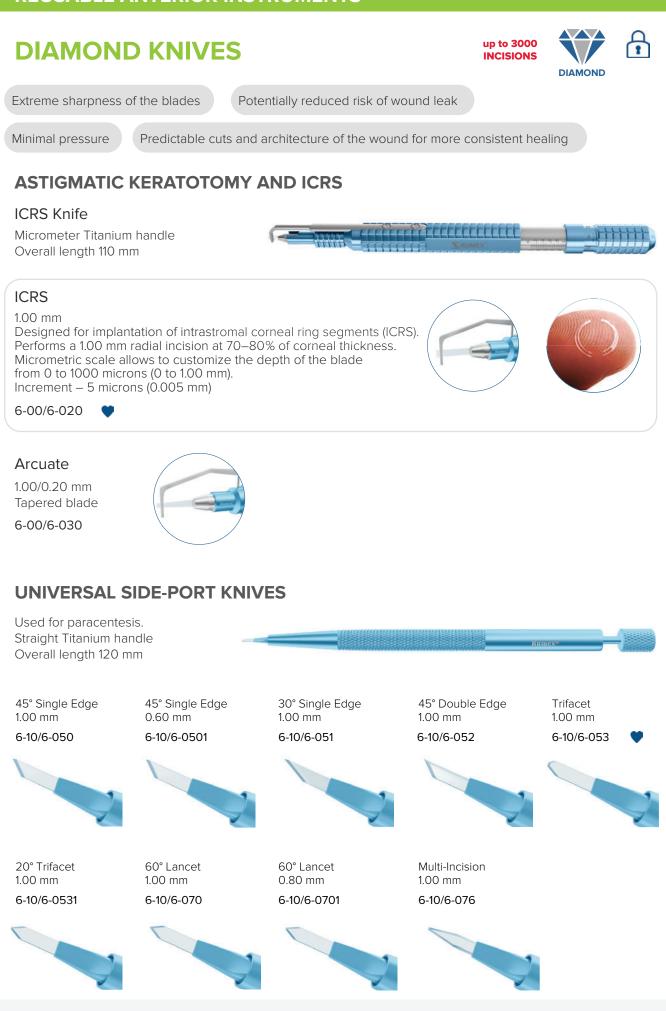


IRIS HOOKS

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

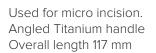


С



Rumex





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

Trapezoid Self-Diving Blades



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



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





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



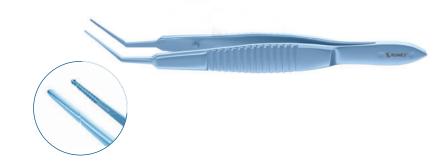
Cross-action mechanism prevents the stretching of the wound

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

Combo Prechopper

Straight Specially designed jaws split soft and hard nuclei. With sharp blades on the upper side of the tips and blunt on the other side Max opening 3.00 mm Overall length 121 mm

7-1161S

Combo Prechopper

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

7-1162S

Akahoshi Prechopper

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

7-1163S

Straight

7-149S

Round handle

Stainless Steel

Escaf Prechopper

Overall length 120 mm



Inamura Prechopper

Straight

Narrow tip is easily inserted into the denser nucleus which enables division of a soft nucleus from a dense one without counter force. Max opening 3.00 mm Overall length 120 mm



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







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

• Max opening 2.80 mm

• The tip is truncated so as not to

hurt the edge of capsulorhexis

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

1-063 063 INO) Nagahara Phaco Chopper Overall length 120 mm 7-063 RHD (shown) 7-064 LHD 1-065 065/ INOX Intraocular Manipulator 16 Rosen Phaco Chopper Universal Overall length 120 mm 7-074 7-065

Nucleus Claw Chopper Overall length 120 mm 7-072

with Ball tip Straight 0.50 mm diameter ball tip Overall length 123 mm

Angled Overall length 121 mm 7-075



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 1055

Overall length 120 mm

7-0681

• 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

CHOPPERS



Small Pupil Snapper Hook & Phaco Chopper Overall length 121 mm 7-077



Drysdale Nucleus Manipulator & **Capsule Polisher**

For nucleus dividing and separating Overall length 121 mm 7-093 Regular tip 7-0931 Capsule polisher tip

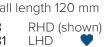


Micro Finger Chopper Overall length 120 mm 7-097



Quick Chopper with Rounded Edge

Overall length 120 mm 7-128 7-1281 LHD





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



Seibel Chopper

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

7-130 RHD



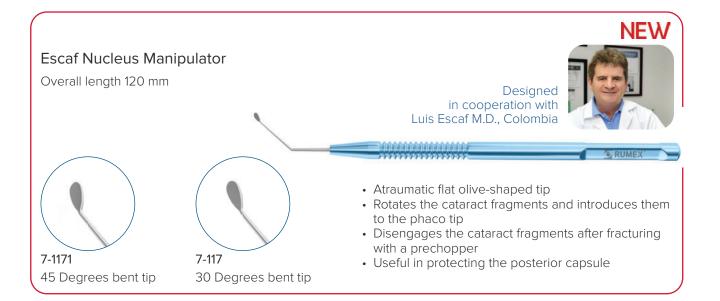
Phaconit **Quick Chopper**

Designed to quickly and easily chop all grades of nuclei. Överall length 120 mm

7-125 0.18 mm tip 7-1251 0.35 mm tip



Axe Quick Chopper Overall length 120 mm 7-135



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

-06375 Nagahara INOX 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 1-127s INOX Chang 0 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 1-126 INOX 0 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



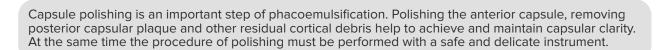
CAPSULE POLISHERS

Anterior/Posterior Capsule Polisher

135° angled shaft

Titanium Handle/Stainless Steel Tip Overall length 120 mm

7-101



Holz Capsule Polisher

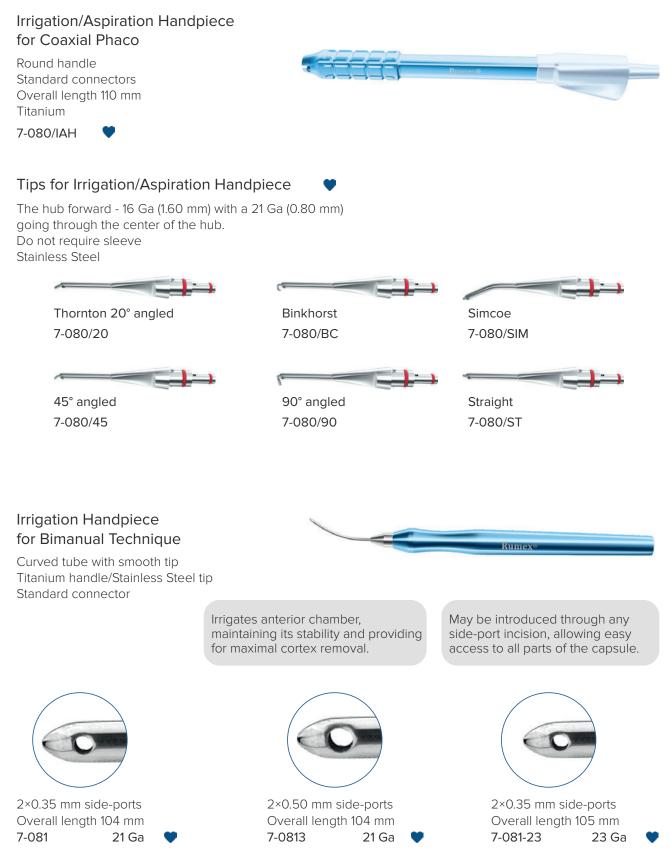
Designed to perform delicate polishing of the capsule. Angled shaft, "iron"-shaped tip Texturized tip for polishing of all capsule parts Sharpened ridge at the top for efficient polishing of the bottom part of the anterior capsule Titanium Handle/Stainless Steel Tip Overall length 123 mm

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





IRRIGATION/ASPIRATION HANDPIECES



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

Rumex®

Aspiration Handpiece For Bimanual Technique

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

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

Removes residual cortex after phacoemulsification



1×0.35 mm top port Smooth tip Overall length 104 mm **7-082** 21 Ga

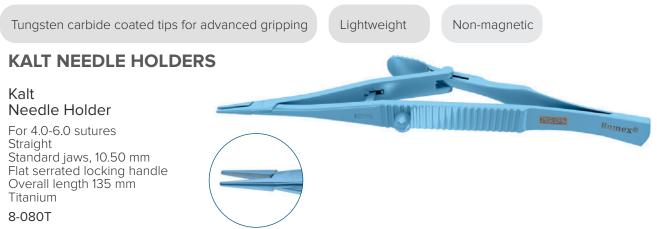


1×0.35 mm top port Capsule polisher tip Overall length 104 mm 7-0821 22 Ga

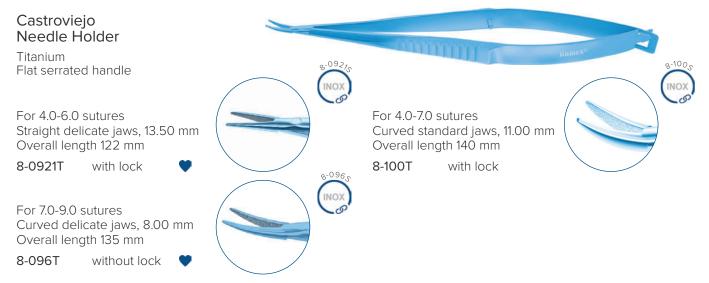


1×0.35 mm top port Capsule polisher tip Overall length 105 mm **7-0821-23** 23 Ga

NEEDLE HOLDERS



CASTROVIEJO NEEDLE HOLDER



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

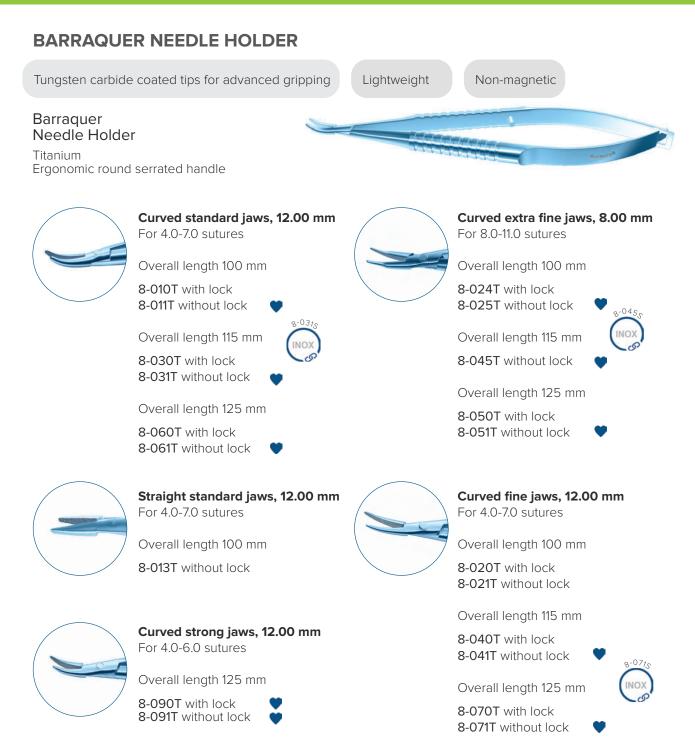
COAXIAL/INTRAOCULAR NEEDLE HOLDERS

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





T.

NEEDLE HOLDERS

PROBES

Bowman Lacrimal Probe Overall length 133 mm 9-010S size 0000 & 000 9-011S size 00 & 0 9-012S size 1 & 2 9-013S size 3 & 4 9-014S size 5 & 6 9-015S size 7 & 8

Quickert Lacrimal Intubation Probe Overall length 140 mm 9-021S size 0 9-0235 size 2 9-037 NO Pigtail Lacrimal Probe 8.00 mm pigtail curved probes with holes Polished tip Titanium Handle/Stainless Steel Tips Overall length 125 mm 9-031 9-050 9-051s INO) INOX Wilder Lacrimal Dilator Blunt polished tip Overall length 100 mm Titanium **9-050T** size 1 (19.00 mm) 9-060s size 2 (23.00 mm) 9-051T 9-052T size 3 (32.00 mm) INO) 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



10-014

LID & ORBITAL RETRACTORS

Desmarres Lid Retractor

Titanium Handle/Stainless Steel Tip Overall length 130 mm

size 0 - 11.00 mm 10-020 size 1 - 13.00 mm (shown) 10-021 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 Glob	e	
Retractor-Elevator		
Double-ended, 10.00/14.00 mm w Thin ribbon retractor with a gentle curve		
Overall length 180 mm Titanium	Rumex®	
10-034T		

IRIS (PUPIL) DILATORS

Iris Retractor*

Strong yet flexible polypropylene hook for 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

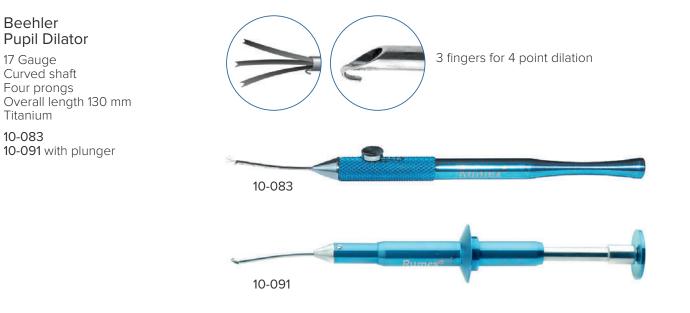
Beehler Pupil Dilator

17 Gauge Curved shaft Four prongs

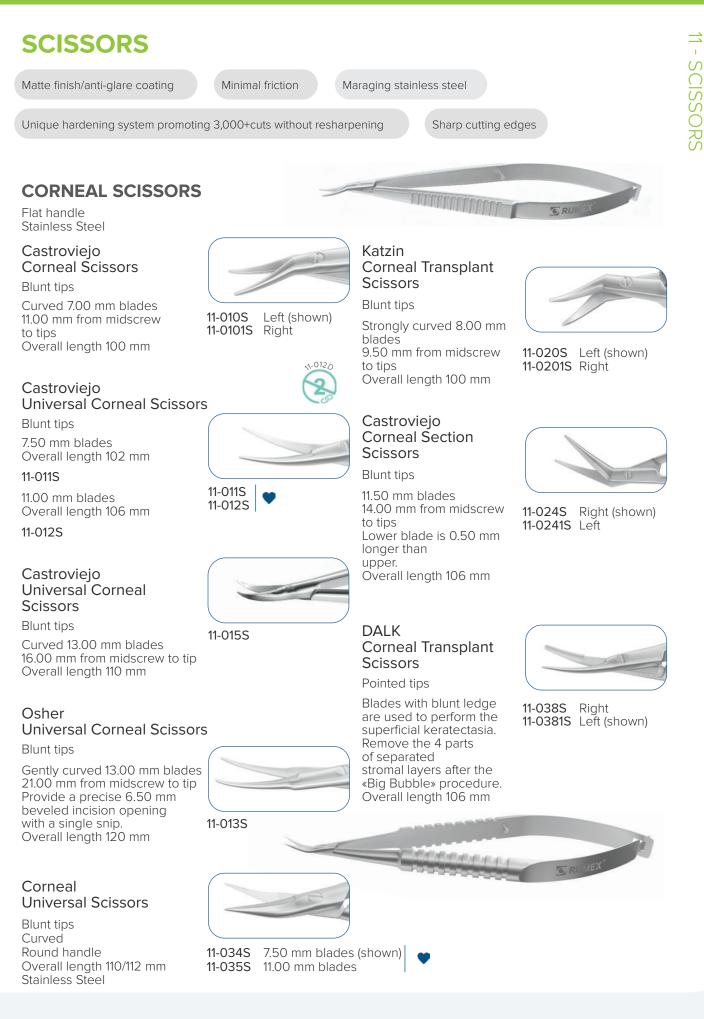
Titanium 10-083

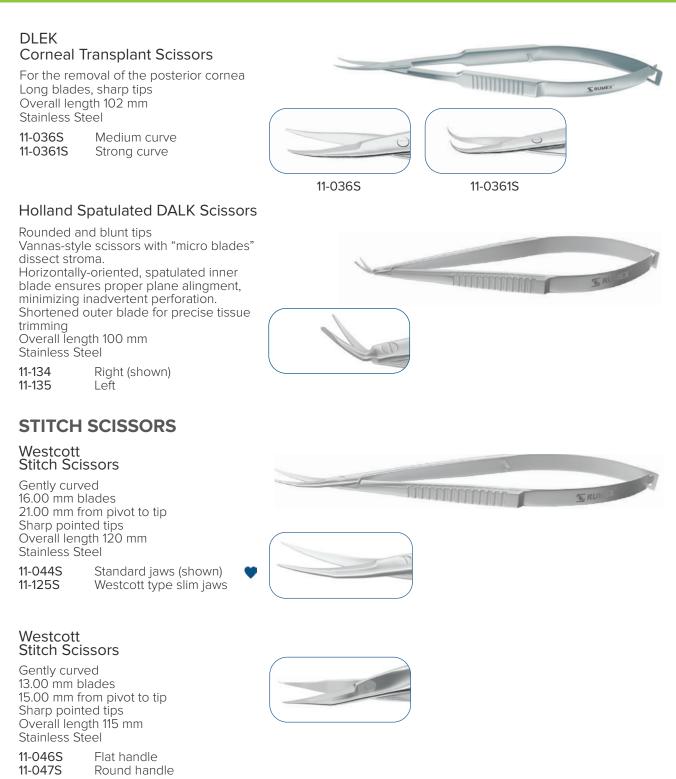






Provides even dilation by allocating tension on all sides of the pupil.





STRABISMUS SCISSORS

Knapp Strabismus Scissors Blunt tips Ring handle

Overall length 115 mm Stainless Steel

11-100SStraight (shown)11-101SCurved



IRIS SCISSORS

Zaldivar Iridectomy Scissors

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

11-03721* 23 Ga

McPherson-Vannas

Overall length 85 mm Stainless Steel

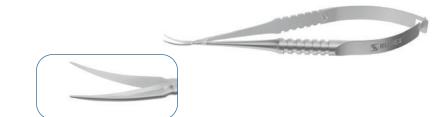
Iris Scissors

8.00 mm blades Sharp pointed tips Round handle

Curved

11-062S





Iris Scissors

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

11-080SStraight (shown)11-081SCurved

Barraquer Iris Scissors

7.00 mm blades Blunt tips Squeeze action handle Overall length 55 mm Stainless Steel **11-1223**





11 - SCISSORS

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

TENOTOMY SCISSORS

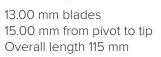
Westcott

Tenotomy Scissors

Stainless Steel Curved Blunt tips



Westcott Tenotomy Scissors



11-040S 🖤



Tenotomy Scissors 16.00 mm blades

21.00 mm from pivot to tip Overall length 120 mm

.



Westcott Tenotomy Scissors

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

11-048S Right

Stevens Tenotomy scissors

Overall length 115 mm Stainless Steel

11-130Sstraight, sharp tips11-131Scurved, sharp tips11-132Scurved, blunt tips11-133Sstraight, blunt tips (shown)



blade 21.00 mm from pivot to tip Overall length 123 mm

Serrated "supercut" upper

Shepard-Westcott

Tenotomy scissors

16.00 mm blades

and a subscription of the second s

11-0481S Right





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

11-049S Left



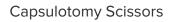
CAPSULOTOMY SCISSORS

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





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

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

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









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 🖤















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

ENUCLEATION SCISSORS

Enucleation Scissors

Curved Blunt tips Ring handle Stainless Steel

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

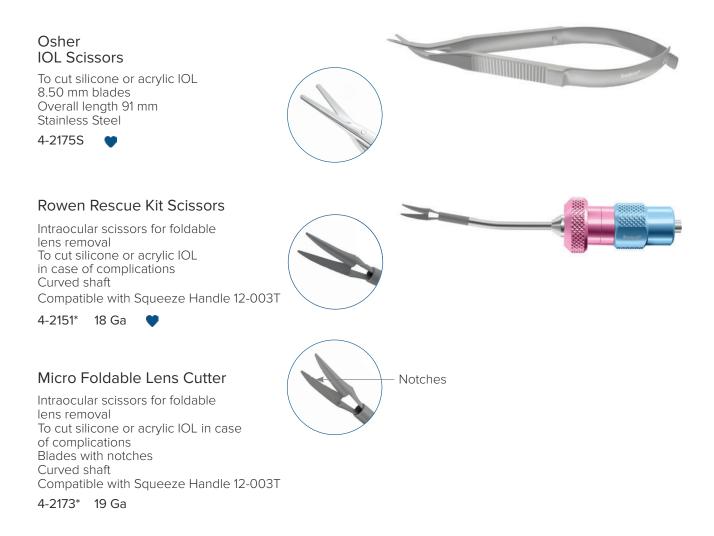
11-090S (shown)

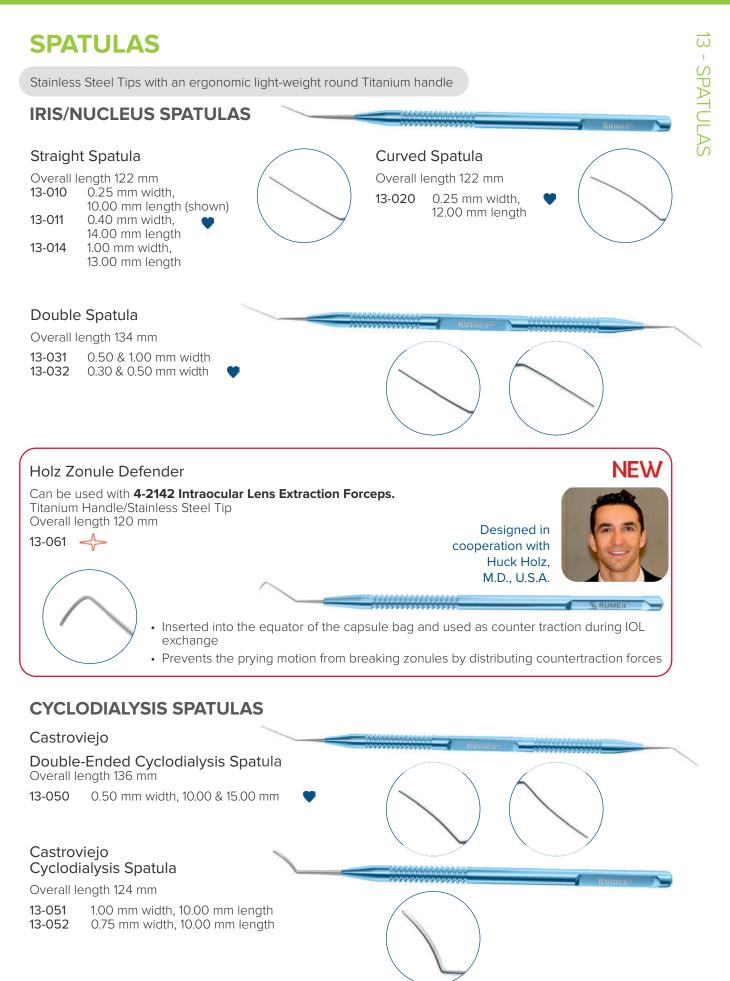
Large size Blades from midscrew to tip - 45.00 mm Overall length 130 mm

11-091S



IOL CUTTERS/SCISSORS





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 insicions. Overall length 122 mm

20-2041

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



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

n-204



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

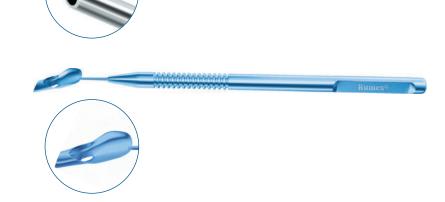
For Descemet's stripping Titanium Handle/Stainless Steel Tip Overall length 104 mm

13-139/I

Spatula-Guide

For corneal endothelium implantation Overall length 122 mm Titanium

13-150T







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.

Removes extra fluid between the donor

for better layers adherence.

Roughens the recipient's inner corneal stroma

and recipient's tissues.

Runne

Carlson DSEK Smoother

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

13-152S

Terry DSEK Scraper

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

13-153S

Melles Style 1 DSAEK PLK Scraper

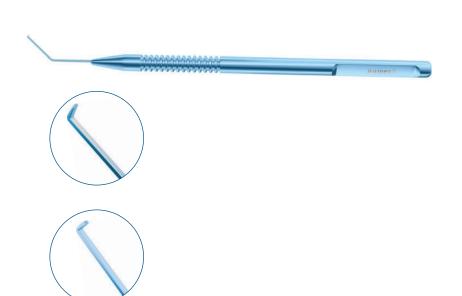
45° angled shaft 11.00 mm from tip to angle 45° angled tip Overall length 125 mm Titanium

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

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

Efficient in cases of strong adherence of the Descemet's membrane to recipient's corneal Overall length 118 mm

John Dexatome DMEK/ **DSAEK Spatula**

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

13-182

John DSAEK Stromal Scrubber

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

13-183

John DSAEK Glider

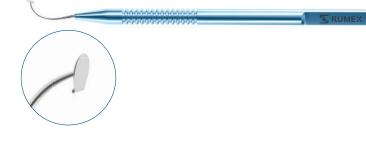
Used for donor disk gliding. Smoothens the corneal surface and clears fluid in the donor-recipient interface. Overall length 114 mm

13-184

Tan Marginal DMEK Dissector

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

13-185











John DSAEK Descemet's Stripper "T" shape 1.80 mm wide x 0.60 mm high tip

stroma. Strongly vaulted shaft

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

DLEK SPATULAS

Manipulator for DLEK procedure

Designed to tuck the edges of the donor lamella. 0.15 mm diameter Z-hook with blunt tip Overall length 120 mm

13-160



DALK SPATULAS

Trisector for DALK Procedure

Facilitates separation of rest of stromal attachments from Descemet's membrane at the periphery. Blunt bottom surface is safe for Descemet's membrane. The anterior surface has an edge that facilitates the enlarging of stromal opening with a blade. Flat 1.40×0.70 mm tip Overall length 124 mm

13-170

Spatula for DALK Procedure

The center groove can be used as a guide for the blade facilitating the enlarging of stromal opening. Blunt bottom surface is safe for Descemet's membrane. Flat 1.00×9.00 mm tip Overall length 122 mm



13-171

Dissector for DALK Procedure

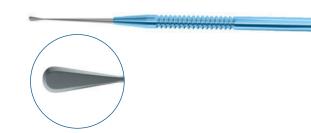
Creates a track in deep stroma for the further cannula inserting. Obtains delicate preparation for "Big Bubble" procedure. 12.00 mm length blunt beveled tip Overall length 122 mm



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



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





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 120 mm

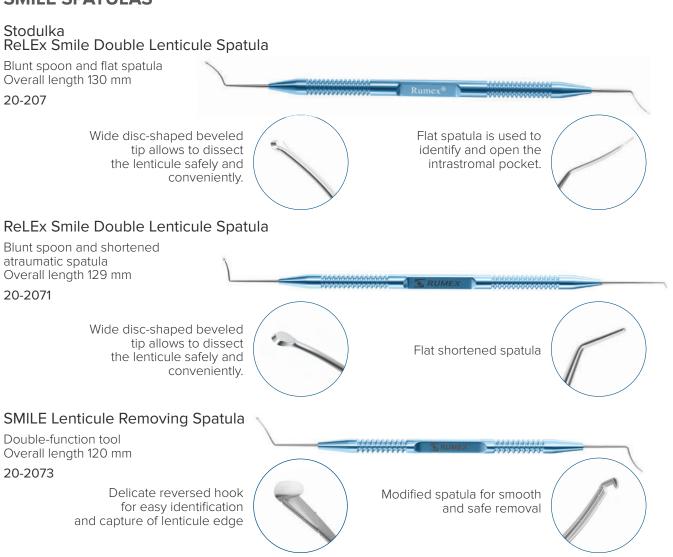
20-131

LASEK Knife

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

20-0011

SMILE SPATULAS



REUSABLE ANTERIOR INSTRUMENTS

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



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

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





REUSABLE ANTERIOR INSTRUMENTS

SPECULUMS

SPECULUMS WITH ASPIRATION

Thumb-screw control to adjust lid tension

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



Kershner Style

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

14-060A Adult

Lieberman Style

Temporal "V" style open blades, 14.00 mm Overall length 78 mm

14-080A Adult 💙

Child Lieberman Style

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

14-082A Child



Lieberman Style for LASIK Temporal Rounded open blades, 14.00 mm Overall length 78 mm

14-080LA Adult

Lieberman Style for LASIK

Nasal Rounded open blades, 14.00 mm Overall length 75 mm

14-081LA Adult



14 - SPECULUMS

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

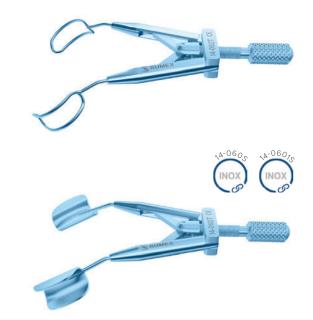
Fenestrated blades, 14.00 mm Flat handle Overall length 70 mm Titanium 14-062T Adult

Kershner Reversible Speculum

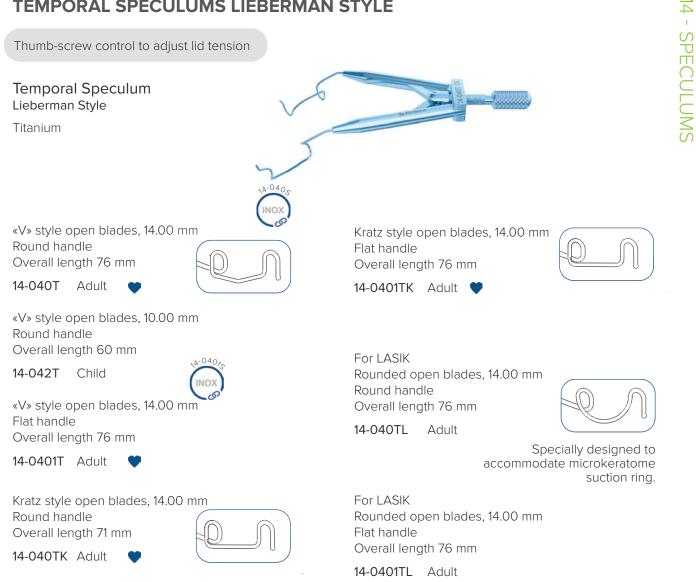
Adult

Solid blades, 14.00 mm Overall length 70 mm Titanium

14-060TRound handle14-0601TFlat handle



TEMPORAL SPECULUMS LIEBERMAN STYLE



TEMPORAL FEMTO SPECULUMS

Slade-Murdoch Speculum Adjustable Speculum with Lath Mechanism

Parallel retraction design. Quick installation and removal due to self-locking mechanism. Blades specially curved to facilitate laser docking without increasing external pressure. Temporal Open 14.00 mm blades Overall length 54 mm

14-052T

SAUER SPECULUMS

Temporal Solid blades Blade spread 20.00 mm Overall length 35/25/20 mm

14-030 Child (8.00 mm blades) 14-031 Newborn (5.00 mm blades) 14-032 Premature (4.00 mm blades)



NASAL SPECULUMS LIEBERMAN STYLE

Thumb-screw control to adjust lid tension

Nasal Speculum Lieberman Style

Titanium

14-041T

14 - SPECULUMS

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

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



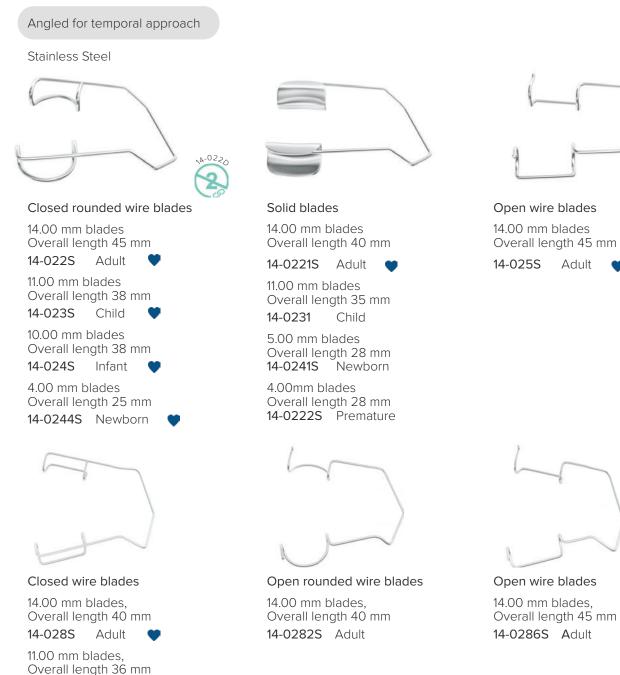


Specially designed to accommodate microkeratome suction ring.

REUSABLE ANTERIOR INSTRUMENTS

BARRAQUER WIRE SPECULUMS

14-0281S Child



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 Vectis3 irrigating ports at 12, 10 and 2 o'clockLoop 5.00 mm wide, 9.00 mm long15-18323 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.





Atkinson Petrobulbar Ner

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 25 Ga × 22 mm 27 Ga × 22 mm 15-051-25 15-051-27 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





McIntyre Anterior Chamber Cannula Angled 45° Smooth blunt tip

Front opening 15-061-26 26 Ga × 20 mm



Lewicky Anterior Chamber Maintainer Self-retaining threaded tip for stable fixation within the corneal stroma

27.5 cm silicone tubing

15-065 20 Ga × 3.5 mm tip



Girard Anterior Chamber Maintainer Atkinson tip 27.5 cm silicone tubing

15-067 23 Ga × 5 mm tip



Bishop-Harmon Anterior Chamber Cannula

8 mm angled tip Angled 40° Spatulated 15-055-19 19 Ga × 25 mm



Irrigating Cannula Straight Blunt polished tip

15-049-23 23 Ga × 25 mm 30 Ga × 25 mm 15-049-30



Jaymce Anterior Chamber Maintainer

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

20 Ga × 4 mm tip 15-1067

IRRIGATING/ASPIRATING CANNULAS

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

Simcoe I/A Cannulas

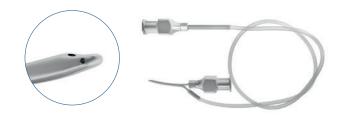
Regular

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 23/23 Ga 15-129-0.4

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/HYDRODELINEATION CANNULAS

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



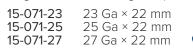






McIntyre Nucleus Hydrodissector

Flattened on the horizontal plane tip provides the broad stream of fluid Angled 45°, 11 mm angled tip





Chang Nucleus Hydrodissector

Beveled tip used to rotate the nucleus Flat tip ensures easy insertion under the capsular rim and broad stream of fluid Angled 90°

15-0681 27 Ga × 16 mm

Pearce J-Shaped Micro Hydrodissector

Hook 1.75 mm wide, 2.25 mm long "J" shape facilitates hydrodissection at the 12 o'clock position 15-073-27 27 Ga × 22 mm

CORTEX REMOVAL CANNULAS

Used to remove cortical material during phacoemulsification.





McIntyre-Binkhorst Cannula Left Blunt tip 15-079L 26 Ga × 22 mm





Simcoe Cortex Extractor Cannula 0.35 mm side-port 15-091-13/23 23 Ga × 13 mm

CYSTOTOME CANNULAS

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



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

CAPSULE POLISHERS

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





Microincisional Capsule Polisher

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

15-170 23 Ga × 25 mm



Kratz Capsule Polisher 0.30 mm side-port Angled, blasted 3 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

GLAUCOMA CANNULAS



DALK CANNULAS



REFRACTIVE CANNULAS

Viscocanalostomy Cannula

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

15-1051-30 30 Ga × 20 mm

Cannula for DALK Procedure

Bottom port 0.20 mm Designed for air injection in order to achieve an ideal "Big Bubble"

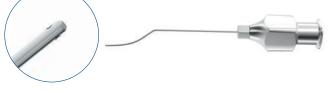
15-450-27 27 Ga × 38 mm



Vidaurri LASIK Irrigation Cannula

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

15-371-25 25 Ga × 22 mm



Buratto LASIK Irrigation Cannula 3 irrigating ports of 0.25 mm 15-379-25 25 Ga × 32 mm



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



Banaji LASIK Irrigation Cannula Curved 4 ports of 0.25 mm 15-373-25 25 Ga × 22 mm ♥

LACRIMAL CANNULAS

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



Lacrimal Cannulas

23 Ga cannula with 20 Ga reinforced shaft Malleable tip

 15-027
 23 Ga × 32 mm, Straight

 15-029
 23 Ga × 32 mm, Curved

 (shown)
 23 Ga × 32 mm, Curved



Bailey Lacrimal Cannula

Straight 23 Ga cannula with 20 Ga reinforced shaft

15-031

23 Ga × 15 mm 🛛 💙





Shahinian Lacrimal CannulaSmooth bullet shape tip15-03225 Ga × 35 mm





Fasanella Lacrimal CannulaGently curved15-03323 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-Male (shown)	15-3071
Male-Female	15-308T

MISCELLANEOUS

INJECTORS

Injector for Capsular Ring with Irrigation

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

Allows to implant the capsular tension ring clockwise and counter-clockwise. Back cover of the instrument can be easily opened to flush and clean the inner mechanism of the injector. Overall length 162 mm

16-253



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

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

IOL Injector

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

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

16-2806* For A, B, C catridges 16-2808* For D catridge

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 catridge

IOL Injector NaviJect™

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

Specially designed handle with a ring for precise control.

To be used with **IOL cartridges CAT-22 and other sizes** Overall length 178,5 mm

Overall length 170,5

16-2853**

Disposable Cartridges for IOL Injector***

To be used with Reusable IOL Injector **16-2853** (page 127) for foldable one-piece IOLs

CAT-22 for 2.2 mm incision CAT-24 for 2.4 mm incision CAT-26 for 2.6 mm incision





5



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

REUSABLE ANTERIOR INSTRUMENTS

PUNCHES & RONGEURS

Belz

Lacrimal Sac Rongeur

Polished finish Overall length 185 mm Stainless Steel

16-138

Kerrison Rongeur

3.00 mm wide 9.00 mm opening Polished finish Stainless Steel Overall length 140 mm

16-136 size 0



RUMEX Corneoscleral Punch

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

16-010





Used to perform a sclerectomy at the corneoscleral junction.

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

Micro Trabeculectomy Punch

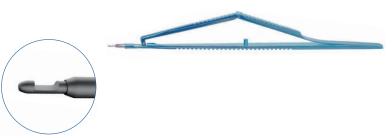
0.60 mm diameter head Bullet-shaped tip 0.30 mm × 0.60 mm deep bite Straight shaft Compatible with Squeeze Handle 12-003T **16-0111*** 20 Ga





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





*Tip only. Handles are sold separately.

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

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 Overall length 143 mm

Titanium Handle/Stainless Steel tips 16-111

LENS LOOPS

Wilder Lens Loop

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





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.

- With a 2.50 mm 16-051-2.5 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

ALGERBRUSH REPLACEMENT BURRS*

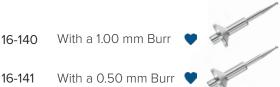
Pterygium Remover Replacement Burrs with Chuck

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

Used to remove foreign bodies and rust rings from patient's eye. Tungsten carbide coating ensures efficient corneal surface smoothing.





Rust Rings Remover Replacement Burrs

5 per box, reusable, non-sterile

16-142B Tungsten Burr, 1.00 mm



16-143B Tungsten Burr, 0.50 mm

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

DISPOSABLE ELECTRIC EYE CAUTERIES

Electric Eye Cautery

Battery operated Low temperature

16-041* fine tip 16-042* elongated fine tip

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)

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

16-0301 16-0303	6.00 mm 6.50 mm 7.00 mm 7.50 mm 775 mm	16-0308 16-0309 16-0310	8.00 mm 8.25 mm 8.50 mm 9.00 mm 9.50 mm
16-0306	7.75 mm	16-0311	9.50 mm

TUNNEL MAKER

ID 4.40 mm/ED 5.60 mm Stainless Steel

16-173S Left 16-174S Right

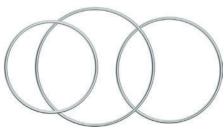






STERILE

2006.04.04







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

16-50SStainless Steel (shown)16-50TTitanium



LASEK/LASIK INSTRUMENTS

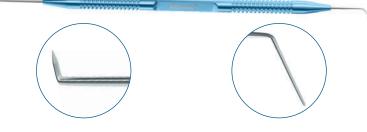
Stainless Steel Tips with an ergonomic light-weight round Titanium handle

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 120 mm

20-131



LASEK Knife

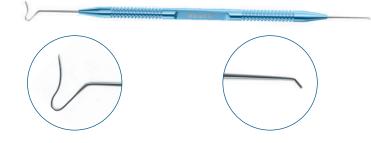
The sharp anterior part of the knife is used to detach epithelium from the incision. The blunt part of the knife is for repositioning of the epithelium after the ablation. Overall length 128 mm

20-0011



FemtoLASIK Flap Spatula

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



REUSABLE ANTERIOR INSTRUMENTS

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







TREPHINES & FUNNELS

LASEK Trephine

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

20-1011	8.00 mm
20-1021	9.00 mm

LASEK Funnel

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

20-1031T 8.50 mm 20-1041T 9.50 mm

LASEK Trephine & Funnel



For epithelial flap creation Depth of the incision 70 mµm For application of alcohol solution For 8.00 mm and 9.00 mm optical zones Titanium Handle/Titanium & Stainless Steel Tips Overall length 142 mm

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



MARKING PENS

Disposable Marking Pen Double-ended V



STERILIZATION TRAYS

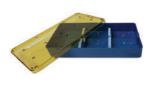
Size Chart

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

PLASTIC TRAYS

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

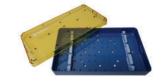




18-300

Silicone inserts for 1 instrument 190x101x38 mm

7.5x4x1.5 in





18-305-1

Silicone inserts for 3 instruments 254x152.4x38 mm 10x6x1.5 in



for 4 instruments

18-303-1

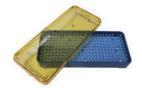
190x101x19 mm 7.5x4x0.75 in

Silicone inserts

18-301-1

Silicone inserts for 2 instruments

152x63.5x19 mm 6x2.5x0.75 in



18-301 ♥ 152x63.5x19 mm 6x2.5x1.5 in



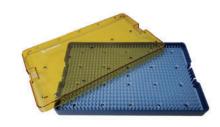
18-300-1

18-302

190x101x38 mm 7.5x4x1.5 in

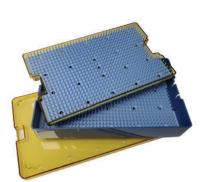


18-308 ♥ 190.5x63.5x19 mm 7.5x2.5x0.75 in





18-307 68.6x38x25.4 mm 3x1.5x1 in





165x101x19 mm

6.5x4x0.75 in

190x101x19 mm 7.5x4x0.75 in

18-304

254x152x19 mm 10x6x0.75 in



Double Level 254x152x38 mm 10x6x1.5 in

REUSABLE ANTERIOR INSTRUMENTS

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.

18-319 155x65x20 mm

18-320

6x2.5x0.8 in

C. S. RUMEX

155x65x40 mm 6x2.5x1.5 in

18-321 200x65x20 mm 2.5x7.75x0.8 in



18-331 215x165x20 mm 8.5x6.5x0.8 in

AUTOCLAVE STEAM

DRY HEAT

CHEMICAL

0005

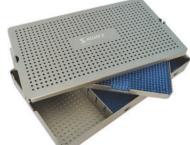


18-332 310x235x20 mm 12.25x9.25x0.8 in



18-322 200x110x20 mm 7.75x4.25x0.8 in

18-323 200x110x40 mm 7.75x4.25x1.5 in



18-333 Double Level + Open Section 375x220x45 mm 14.75x8.75x1.75 in

18-324 260x160x20 mm 10.25x6.25x0.8 in

18-325 260x160x40 mm 10.25x6.25x1.5 in

18-328 260x160x80 mm 10.25x6.25x3.25 in



18-335 390x265x40 mm

15.5x10.5x1.5 in

390x265x20 mm

15.5x10.5x0.8 in

18-334



18-326 Double Level 260x160x40 mm

18-327 Double Level 260x160x80 mm 10.25x6.25x3.25 in

10.25x6.25x1.5 in



18-336 Double Level 390x265x40 mm 15.5x10.5x1.5 in

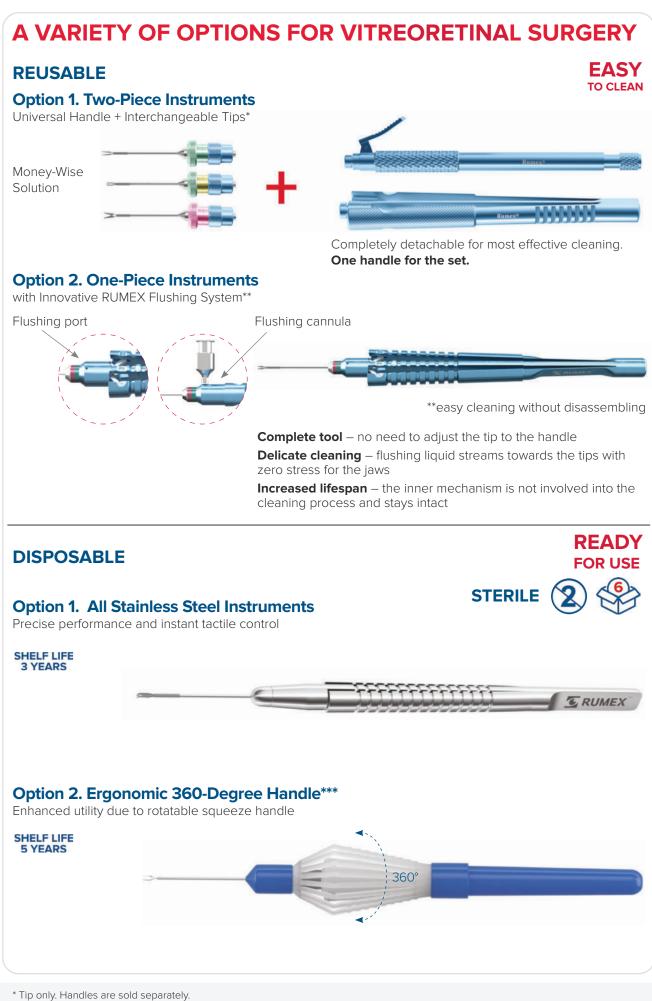
VITREORETINAL INSTRUMENTS & CONSUMABLES

REUSABLE INSTRUMENTS

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***Not available in the US and Europe

> 140 Product design and/or features that do not influence its functionality and main parameters are subject to change

FEATURED PRODUCTS

Universal End-Grasping Forceps with Asymmetrical Branches



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



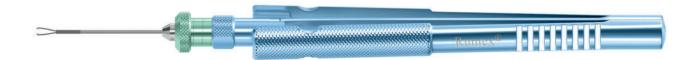
 12-420-23
 23 Ga

 12-420-25
 25 Ga

 12-420-27
 27 Ga

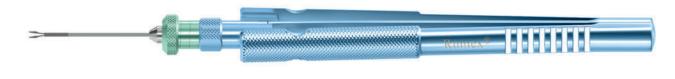
 Tip only
 27 Ga

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

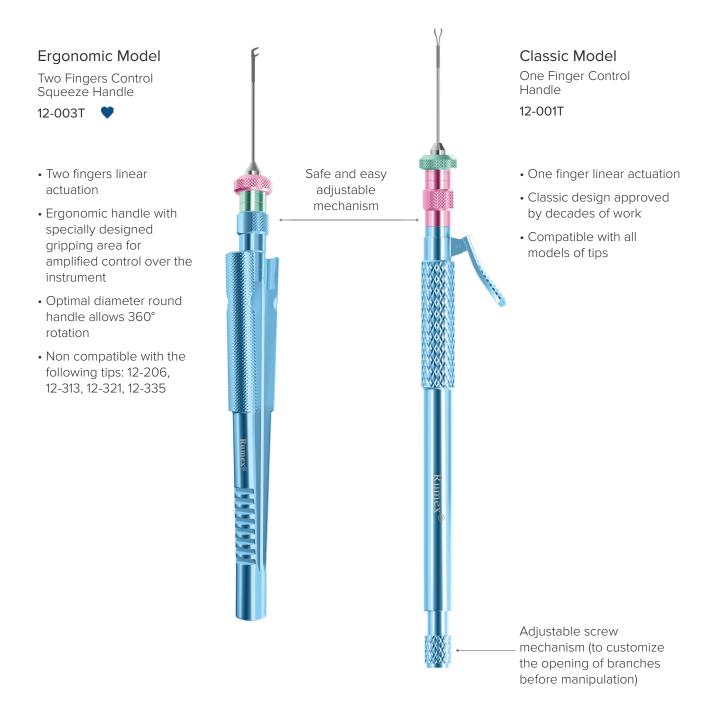


Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding. 

HANDLES FOR VITREORETINAL INSTRUMENTS

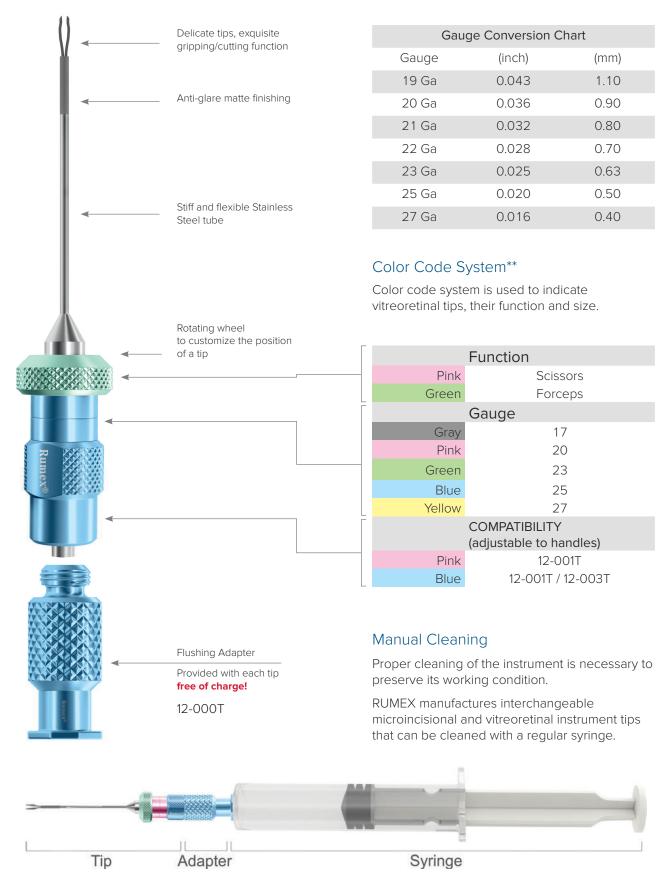
RUMEX International Co is pleased to provide you with two models of Universal Handles that can be used with interchangeable tips.*

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



VITREORETINAL INSTRUMENT TIPS: GAUGE CONVERSION CHART, COLOR CODE SYSTEM

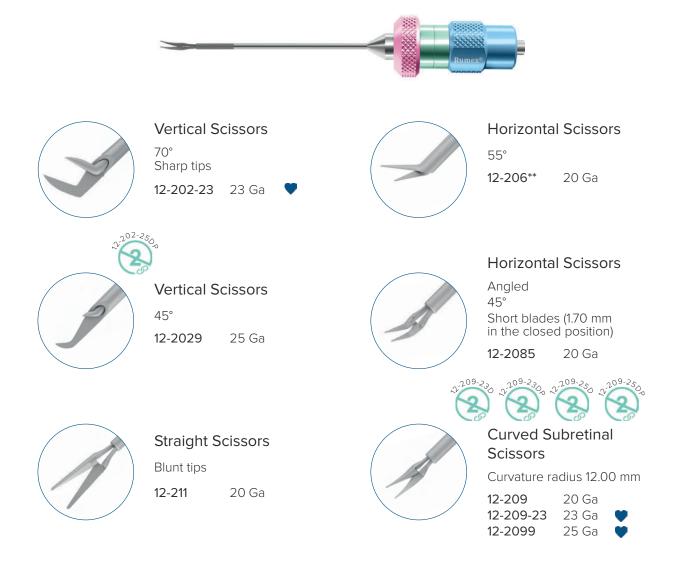
We offer various models of vitreoretinal tips that can be adjusted to Universal Handles (12-001T or 12-003T)*.



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

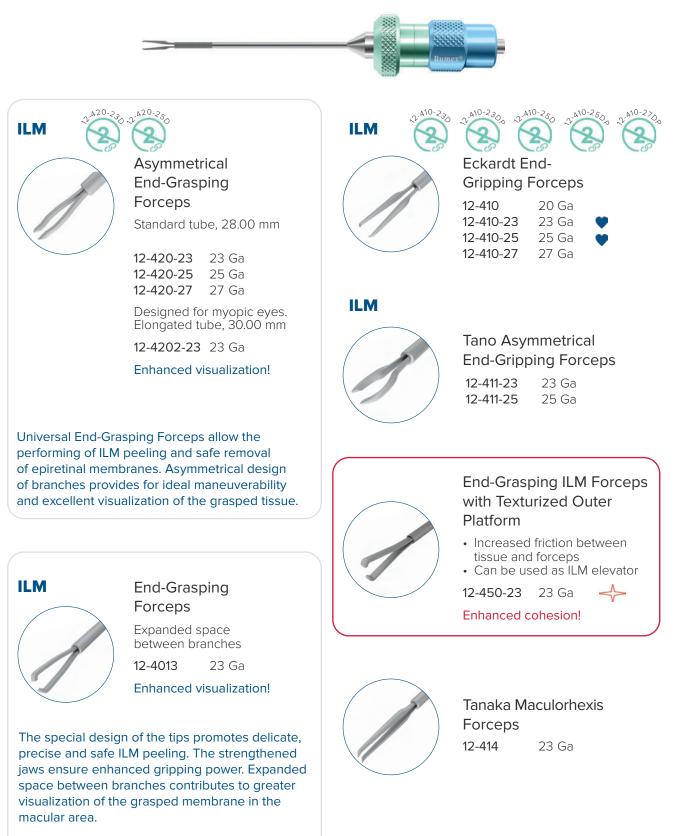
SCISSORS*

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



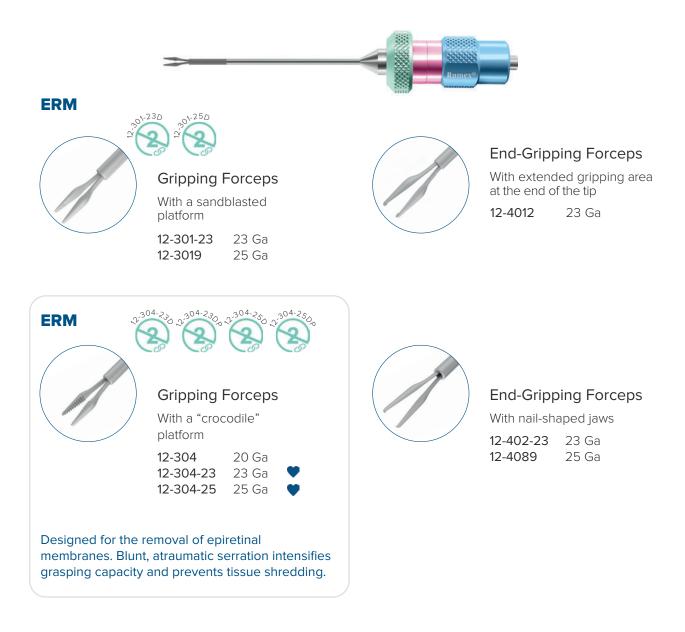
INTERNAL LIMITING MEMBRANE (ILM) FORCEPS*

Delicate branches for ILM peeling



EPIRETINAL (ERM) FORCEPS*

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





FOREIGN BODY REMOVAL FORCEPS*





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



 Spring Gripping

 Forceps

 12-321**
 20 Ga

 12-321-23***
 23 Ga

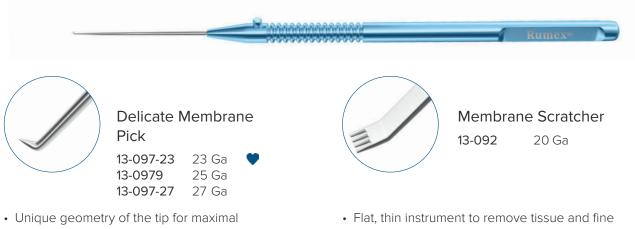


Vitreoretinal Forceps With cup jaws 12-313** 20 Ga



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

MEMBRANE INSTRUMENTS



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

- 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





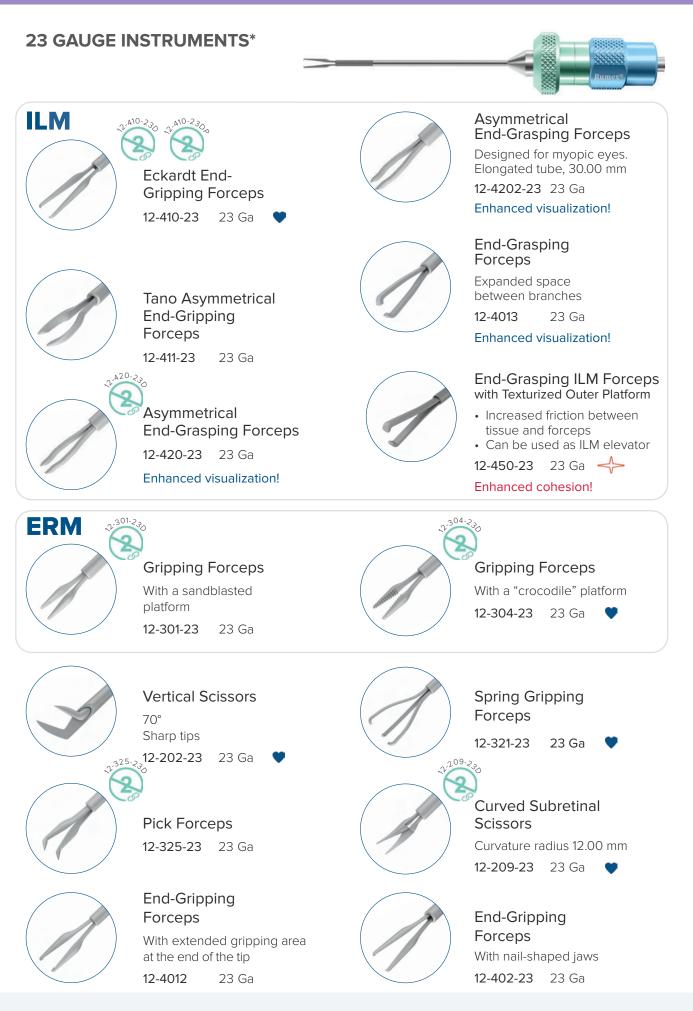


BRVO Knife

Designed for performing a lateral CRVO incision. Titanium Handle/Stainless Steel Tip Overall length 135

13-1091-23 23 Ga

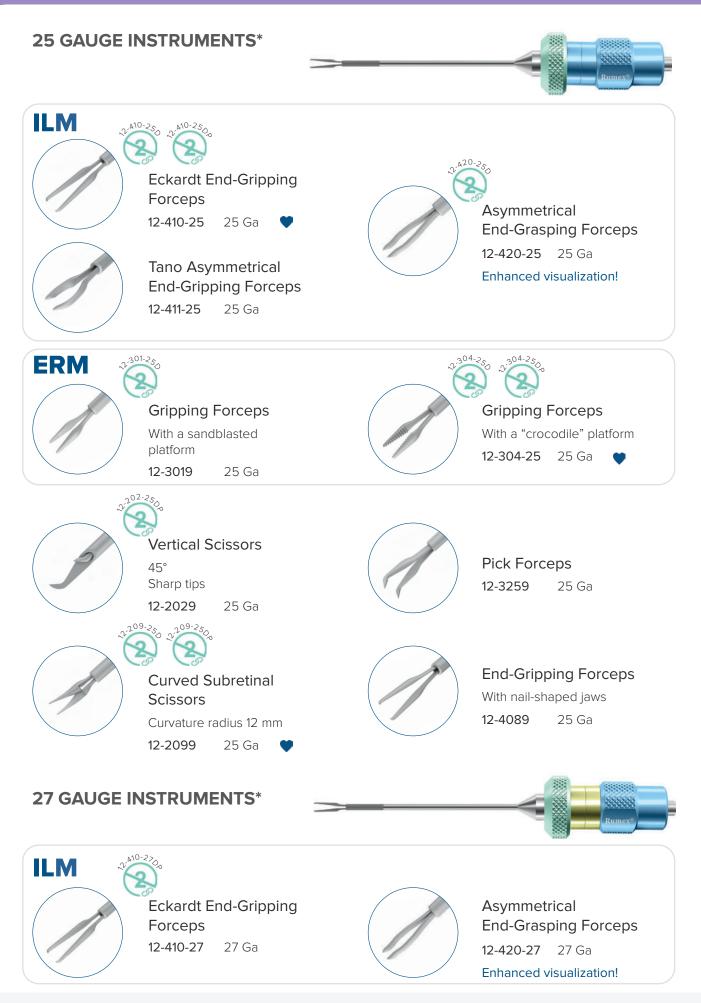
VITREORETINAL INSTRUMENTS & CONSUMABLES



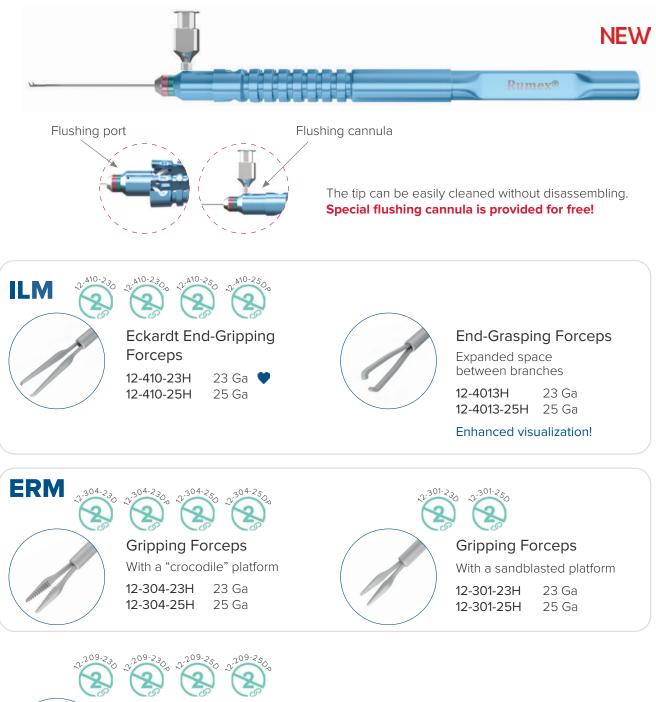
*Tip only. Handles are sold separately.

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

VITREORETINAL INSTRUMENTS & CONSUMABLES



ONE-PIECE VITREORETINAL INSTRUMENTS WITH RUMEX FLUSHING SYSTEM

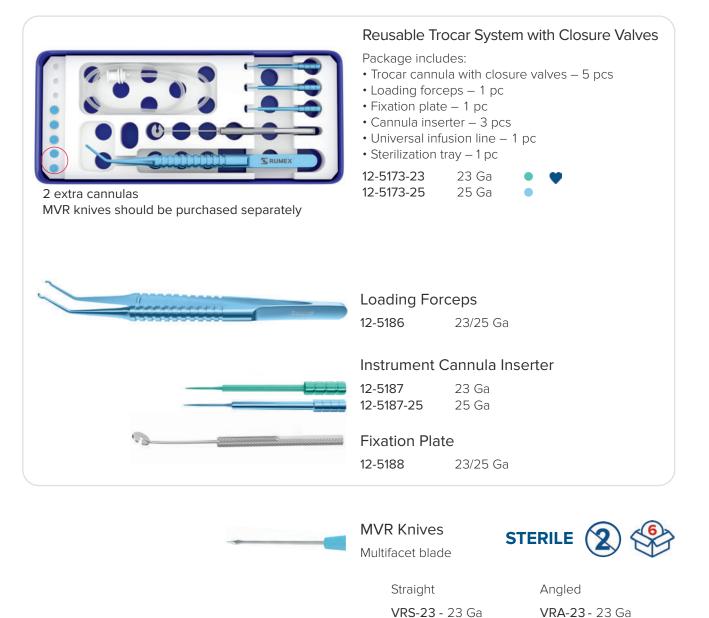




Curved Subretinal Scissors Curvature radius 12.00 mm

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

REUSABLE TWO STEP TROCAR SYSTEMS





Scleral Plugs Forceps

VRS-25 - 25 Ga 🔶

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

VRA-25 - 25 Ga 🔶

12-5086S 20 Ga

Watzke Sleeve Spreading Forceps

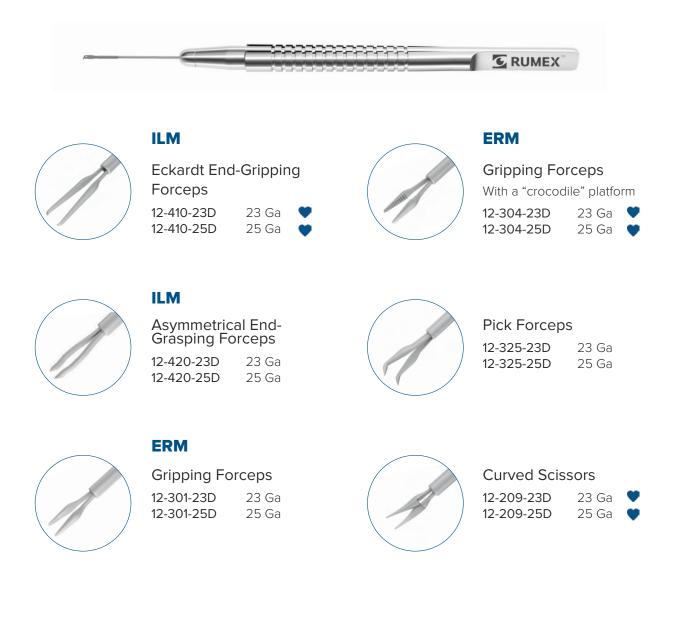
Used to stretch the silicone sleeve placed around the eyeball. Serrated tips aid in gripping the sleeve and allow for adjustable traction. Overall length 110 mm

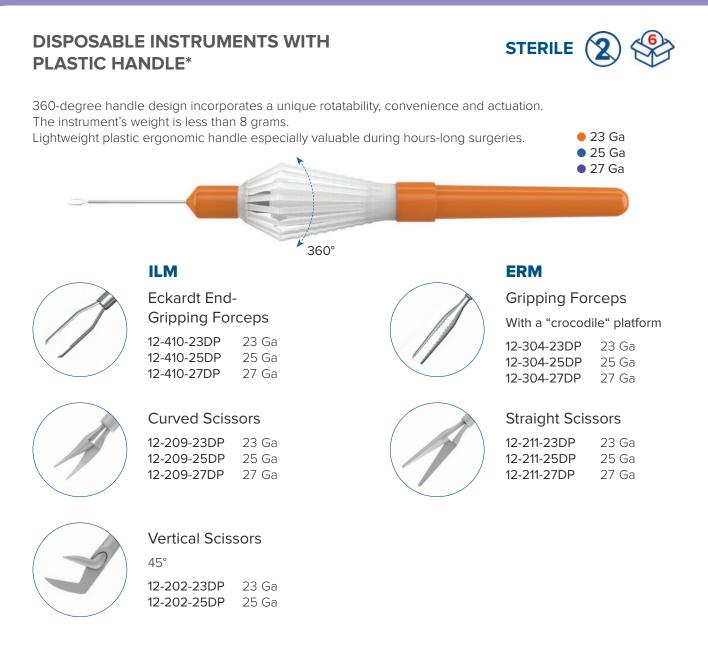
4-2201T

DISPOSABLE ONE-PIECE STAINLESS STEEL INSTRUMENTS



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





DISPOSABLE DIAMOND DUSTED RETRACTABLE ILM ELEVATORS**



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



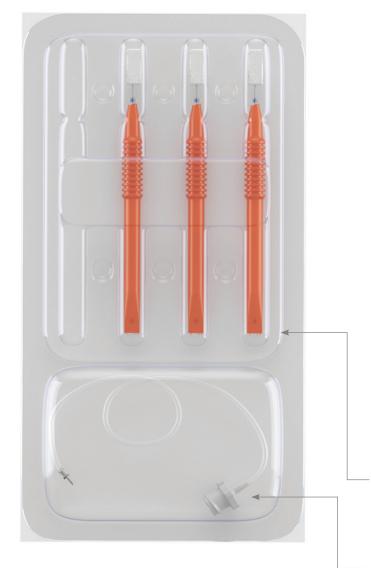
DISPOSABLE ONE STEP TROCAR SYSTEMS*



Each set includes:

- Trocar knife with preloaded trocar cannula 3 pcs
- ${\scriptstyle \bullet}$ Self-sealing trocar cannula (preloaded) 3 pcs
- ${\scriptstyle \bullet}$ 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*



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.



BACKFLUSH HANDLES AND RESERVOIRS



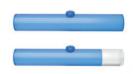
Reusable Backflush Handle

Titanium		
12-6000	Active aspiration	V
12-6010	Passive aspiration	•



Disposable Replacement Reservoir for Backflush Handle*

12-5159	Active aspiration
12-5147	Passive aspiration



VITREORETINAL CANNULAS

Disposable Backflush Cannulas*

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.

12-516123 Ga x 34 mm12-515225 Ga x 34 mm12-549127 Ga x 34 mm



Brush Tip Cannulas

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

12-516223 Ga x 34 mm12-516025 Ga x 34 mm12-516727 Ga x 34 mm





Dual Bore Cannulas*

Dual Bore PFC Cannulas

Simultaneous infusion of heavy liquids and aspiration of intraocular fluids.

12-520323 Ga x 33 mm12-520525 Ga x 33 mm





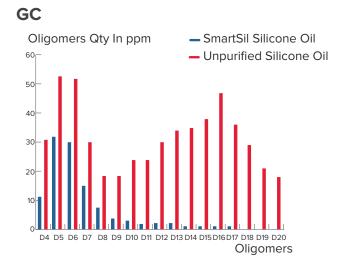
SILICONE OIL*

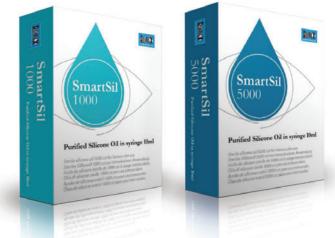
SmartSil 1000/5000**

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	≥ 40 mNm ⁻¹ at 37°C					
Density	0.97					
Viscosity	1000/5000 cSt					
Refractive index	1.40					
Volatility	< 1%					
Polydispersity	< 2.80					
Volume of oil	10 ml					
Syringe	20 ml					
Shelf Life	3 years					





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

SILICONE OIL INFUSION SYSTEMS

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



Surgical System	Reusable
IOL Tech [®] Pentasys [™] Optikon [®] Antares [™] Alcon [®] STTO [™] Storz [®] Premiere [™] DORC [®] Harmony Budget [™]	12-RTUB-1
Reusable Tubing System for the Infusion Of Silicone Oil, Caprolone Adapter Adjust- able 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



Disposable Viscous Fluid Injection Cannulas*

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

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

Infusion Cannula

Reusable Infusion Cannula

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

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





FEATURED SETS

PHACOEMULSIFICATION SET	162
BIMANUAL MICROPHACO (MICS) SET	163
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SMILE SET	165
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VITREORETINAL DISPOSABLE SET, 23 GA	173
VITREORETINAL REUSABLE SET, TWO-PIECE, 25 GA	174
VITREORETINAL DISPOSABLE SET, 25 GA	174

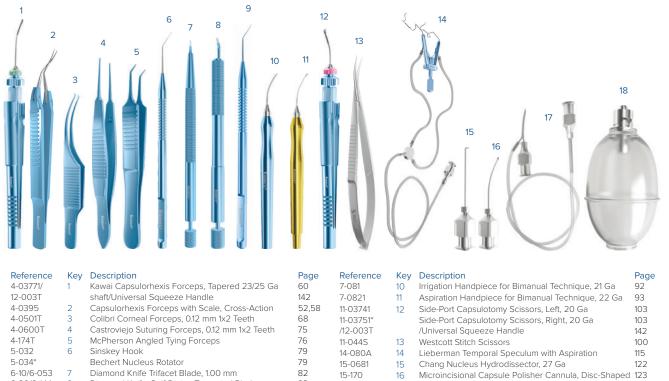
CATARACT PHACOEMULSIFICATION SET

*not shown

in the

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, Cystotome Tips,	51, 55	8-031T	23	Barraquer Needle Holder, Standard Jaws, w\out Lock	95
		with Scale		8-096T	24	Castroviejo Needle Holder, Delicate Jaws, w\out Lock	94
4-033S	4	Small-Incision Capsulorhexis Forceps with Double	29, 52,	10-5016-1	25	Disposable Iris Retractors, 1 Pack of 4 pcs	20
		Cross-Action and Scale	58	11-034S	26	Universal Corneal Scissors	99
4-050T	5	Colibri Corneal Forceps	68	11-040S	27	Westcott Tenotomy Scissors	102
4-0600T	6	Castroviejo Suturing Forceps	75	11-044S	28	Westcott Stitch Scissors	100
4-072T	7	Dressing Forceps with Serrations	71	11-0581S	29	Gills-Vannas Capsulotomy Scissors	103
4-120S	8	Hartman Hemostatic Mosquito Forceps	74	14-080A	30	Lieberman Temporal Speculum with Aspiration	115
4-174T 4-185T	9	McPherson Angled Tying Forceps	76 77	15-025	31	Kelman Sharp Irrigating Cystotome, 25 Ga	123
4-1851 4-2107T	10 11	Tennant Straight Tying Forceps	64	15-051-27	32	Rycroft Anterior Chamber Cannula, 27 Ga	121
4-21071 4-2108S	12	Steinert Paddle Lens Folding Forceps Faulkner Lens Holding Forceps	64 64	15-071-25	33	McIntyre Nucleus Hydrodissector, Spatulated, 25 Ga	122
4-21083 4-2141T	12	Cartridge Loading Forceps, for Inserting IOL	64	15-170	34	Microincisional Capsule Polisher Cannula,	123
5-030	14	Kuglen Iris Hook, Angled	79			Disc-Shaped Tip, 23 Ga	
5-032*	1-7	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,	83	16-081S	38	Towel Forceps	74
		2.00/2.30 mm		16-2806	39	IOL Injector for A, B, C Cartridges	126
7-025T	17	Ernest Nucleus Cracker	86	18-305*		Plastic Sterilization Tray with Silicone Finger Mat,	135,
7-1163S	18	Akahoshi Hybrid Combo Prechopper	87			Double Level, Extra Large	136
7-063	19	Nagahara Phaco Chopper RHD (LHD*)	88				
7-064*		, ,	88				
7-0634/I	20	Lesieur Hydrochopper, 20 Ga	91				

CATARACT **BIMANUAL MICROPHACO (MICS) SET**



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7-081-23

14-052T

15-170

18-304*

7-0821-23

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106

15-129-0.3

15-301/303

18-304*

17

18

7-064* *not shown

7-063

6-20/6-144

8

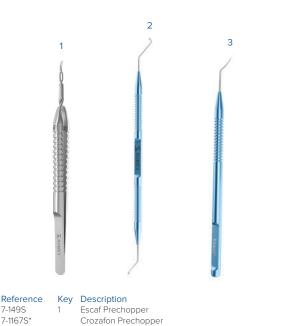
9

FEMTOSECOND CATARACT SET

1.80/2.00 mm

Diamond Knife, Self-Diving Trapeziod Blade,

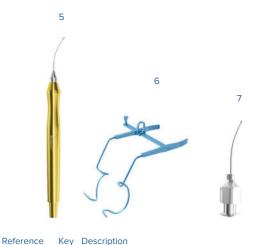
Nagahara Phaco Chopper RHD (LHD*)



Uy Laser Lens Fragmentation Combo Manipulator

Spatula for Femtosecond Laser Procedure

Donnenfeld Femto Spatula



Tip, 23 Ga

Extra Large

Simcoe I/A Cannula, 23/23 Ga

Plastic Sterilization Tray with Silicone Finger Mat,

Silicone Bulb with Adapter

Kev

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Description	Page
Irrigation Handpiece for Bimanual Technique, 23 Ga	92
Aspiration Handpiece for Bimanual Technique, 23 Ga	93
Slade-Murdoch Speculum	117
Microincisional Capsule Polisher Cannula, Disc-Shaped	123
Tip, 23 Ga	
	105

Plastic Sterilization Tray with Silicone Finger Mat, Extra 135. 136 Large

*not shown

7-149S

7-1167S*

20-204*

20-2041

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3

13-181

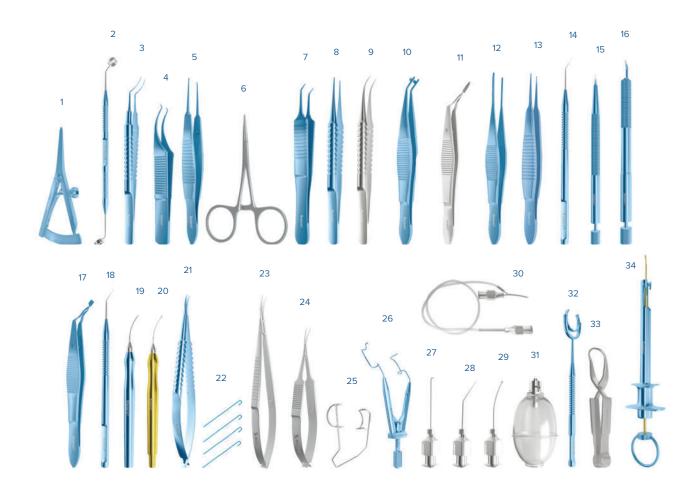
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125

135.

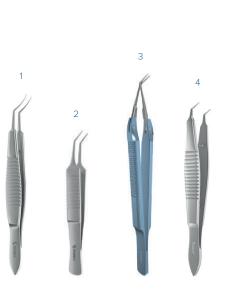
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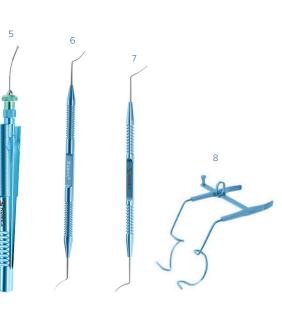
CATARACT EXTRA CAPSULAR CATARACT EXTRACTION (ECCE) SET



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	Utrata 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 1×2 Teeth	68	7-0821-23	20	Aspiration Handpiece for Bimanual Technique, 23 Ga	93
4-0600T	5	Castroviejo Suturing Forceps, 0.12 mm 1×2 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	123
5-030	14	Kuglen Iris Hook	79			Tip, 23 Ga	
5-0331*		Lester Lens Manipulator	79	15-129-0.3	30	Simcoe I/A Cannula, 23/23 Ga	122
5-034*	45	Bechert Nucleus Rotator	79 82	15-301/303	31	Silicone Bulb with Adapter	125
6-10/6-053	15	Diamond Knife, Trifacet Blade, 1.00 mm	82 83	16-0341T	32	Fine Thornton Fixation Ring with Swivel	130
6-20/6-104	16	Diamond Knife, 2.30/2.80 mm, Self-Diving Trapezoid Blade	83	16-080S	33	Towel Clamp	74
		pique		16-2806	34	IOL Injector for A, B, C Cartridges	26
*				18-305*		Plastic Sterilization Tray with Silicone Finger Mat,	135,
*not shown						Double Level, Extra Large	136

REFRACTIVE **SMILE SET**





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

erence	Key	Description	Page
207	6	Stodulka ReLEx Smile Double Lenticule Spatula (Blunt	112
		Spoon and Flat Spatula)	
2071*		ReLEx Smile Double Lenticule Spatula	112
		(Blunt Spoon and Shortened Flat Spatula)	
2073	7	SMILE Lenticule Removing Spatula	112
)52T	8	Slade-Murdoch Speculum	117

*not shown

LRI SET



2 *optional set 3 1 4

Reference	Key	
2-034T	1	
3-091T	2	
3-1932	3	١
6-322/6-0531	4	1

Description Grooved Fine Mendez Degree Gauge with 4 Grooves

Bores Axis Marker Whitehouse Gravity Axis Marker with Reduced 49 Diameters Universal Three-Step Diamond Knife for Cataract and 84 LRI Surgery



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

*not shown

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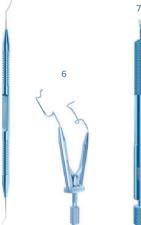
44

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REFRACTIVE \ CORNEAL

ICL SET





Key Description

1	Nevyas-Wallace Fixation Forceps, 0.12 mm 1×2 Teeth
2	ICL™ Cartridge Loading Forceps
3	Zaldivar - Kraff ICL Pacman Forceps, 20 Ga, Tip Only/
	Universal Squeeze Handle
4	Pallikaris ICL [™] Manipulator

*not shown

Reference

4-08011T

4-20111S

4-21432/

12-003T

13-141

	Nevyas-Wallace Fixation Forceps, 0.12 mm 1×2 Teeth
2	ICL [™] Cartridge Loading Forceps
3	Zaldivar - Kraff ICL Pacman Forceps, 20 Ga, Tip Only/
	Universal Squeeze Handle
ļ.	Pallikaris ICL™ Manipulator

Reference	K
13-142	5
14-040T	6
6-20/6-0551	7
18-304*	

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Key Description Zaldivar ICL[™] Manipulator 5

Lieberman Temporal Speculum Zaldivar Universal ICL™ Knife, 0.55/1.00 mm Plastic Sterilization Tray with Silicone Finger Mat, Extra Large

Page	
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117	
83	
135, 13	6

ICRS SET

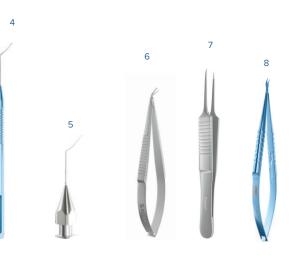


FEATURED SETS

CORNEAL **DALK SET**



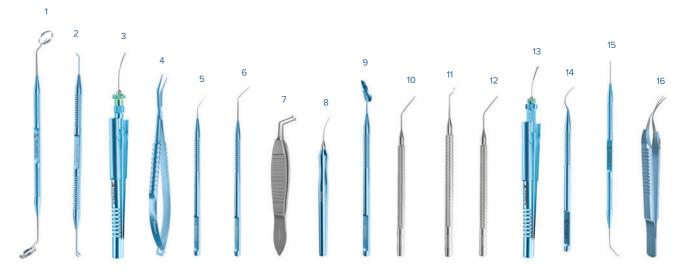
3



15-450-27 5 Cannula for DALK Procedure, 27 Ga 124 18-305* Plastic Sterilization Tray with Silicone Finger Mat, 135, 13	13-1702Tr13-1713Sp13-1724Di	cissors for DALK Procedure, Left isector for DALK Procedure patula for DALK Procedure issector for DALK Procedure annula for DALK Procedure, 27 Ga	99 110 110 110 124	11-135* 4-178S 4-174T* 8-024T 18-305*	7 8	Holland Spatulated DALK Scissors, Left McPherson Tying Forceps, Straight McPherson Tying Forceps, Angled Barraquer Needle Holder, Extra Fine Jaws, with Lock Plastic Sterilization Tray with Silicone Finger Mat,	100 76 76 95 135, 136
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*not shown

DSEK, DSAEK, DMEK SET

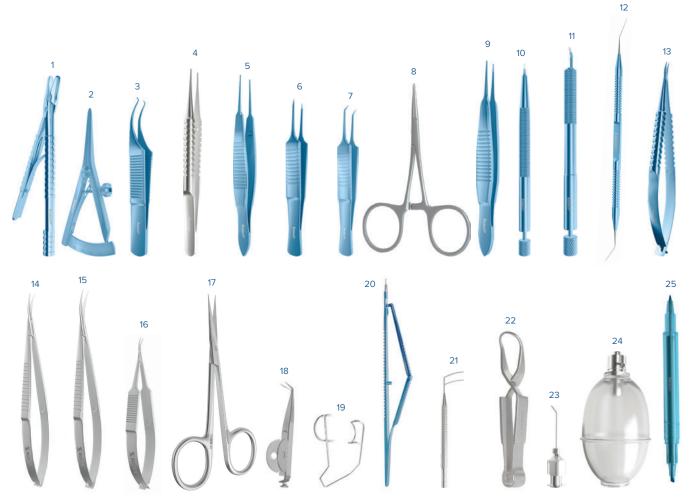


3-0231 3-0230* 3-024T 3-208T* 4-034 /12-003T 4-2019T 5-0322 13-137 13-138* 4-2615 13-139/I 13-150T	Key 1 2 3 4 5 6 7 8 9	Description Abdullayev Corneal Marker for Keratoplasty Abdullayev Scleral Marker for Keratoplasty Abdullayev I & II Marker (for DSAEK/DMEK Grafts) DMEK/DSAEK "S" Marker Forceps for Corneal Endothelium Implantation, 23 Ga/ Universal Squeeze Handle Corneal Donor Insertion Forceps Reversed Sinskey Hook Corneal Dissector, Straight Corneal Dissector, Curved Abdullayev DMEK Grasping Forceps Endothelial Stripper, Irrigating Spatula-Guide for Corneal Endothelium Implantation	Page 45 45 46 70 142 70 79 107 107 71 107 107 107
13-150T 13-151S	9 10	Spatula-Guide for Corneal Endothelium Implantation Cindy Sweeper DSEK Spatula	107 108

*not	shown

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

GLAUCOMA GLAUCOMA SET



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

PTERYGIUM PTERYGIUM SET



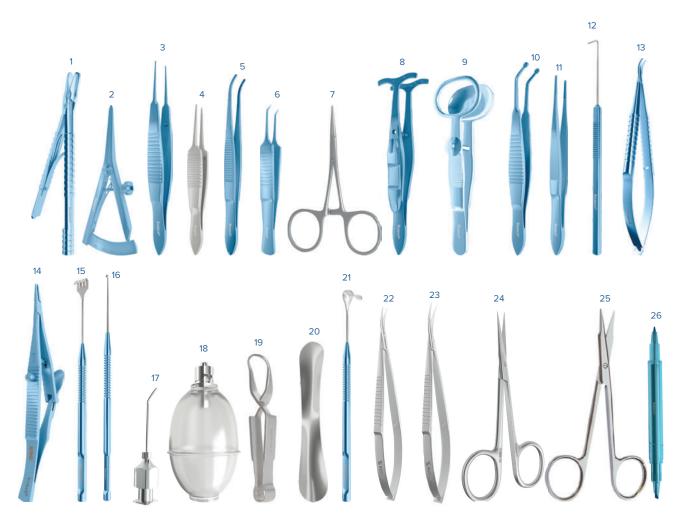
Reference 1-010T	Key	Description Blade Holder	Page 42	Reference 16-051-2.5	Key 9	Description AlgerBrush with a 2.50 mm Diamond Dusted Round	Page 129
4-0600T	2	Castroviejo Suturing Forceps	75		-	Fine Grit Burr	
4-0741S	3	Adson Fixation Forceps	72	16-051-3.5B	10	Diamond Dusted Round Medium Grit Burr	129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

LACRIMAL LACRIMAL SET



Reference 1-010T 4-071S 4-2300T 4-0601T 4-122S 8-031T 9-010S	Key 1 2 3 4 5 6 7	Blade Holder Dressing Forceps Bonaccolto Utility Forceps Castroviejo Suturing Forceps Halsted Mosquito Forceps Barraquer Needle Holder, Standard Jaws, w\out Lock	Page 42 71 78 75 74 95 95	Reference 10-013 10-014 11-080S 11-125S 11-130S 15-029 15-201/202	Key 12 13 14 15 16 17	Description Stevenson Lacrimal Sac Retractor Knapp Lacrimal Sac Retractor Iris Scissors Westcott Type Stitch Scissors Stevens Scissors Lacrimal Cannula, Reinforced, Curved, 23 Ga	Page 97 97 101 100 102 125
4-2300T	3	Bonaccolto Utility Forceps		11-080S	14	Iris Scissors	101
4-122S	5	Halsted Mosquito Forceps	74	11-130S	16	Stevens Scissors	102
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LID LID SET

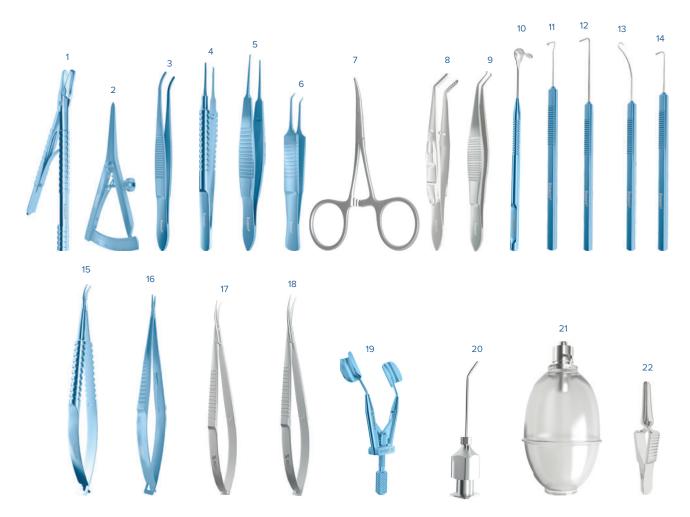


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FEATURED SETS

OCULOPLASTIC MUSCLE SET



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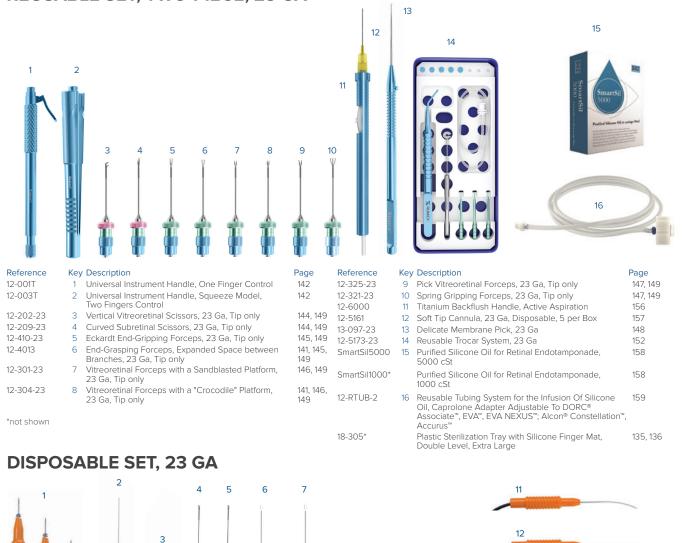
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Reference	Key	Description
1-020S	1	Bard Parker Handle
2-010T	2	Castroviejo Caliper
4-072T	3	Dressing Forceps
4-0551T	4	Corneal Forceps, Bonn-Catalano Type
4-0602T	5	Castroviejo Suturing Forceps
4-090T	6	Kelman-McPherson Tying Forceps
4-121S	7	Hartman 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

*not shown

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

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



13 8 10 **RUMEX RUMEX** Reference Reference **Key Description** Page **Key Description** Disposable One Step Trocar System 23 Ga, 6 per Box 12-5229 155 Disposable Vitreoretinal Vertical Scissors, 23 Ga, Plastic Handle 360°, 6 per Box 12-202-23DP 7 12-5161H 2 Backflush Instrument with Soft Tip, 23 Ga, 6 per Box 156 Disposable Diamond Dusted Retractable ILM Elevator, 12-5203 8 Dual Bore PFC Cannula, 23 Ga, 5 per Box 12-7523 154 3 23 Ga, 5 per Box Viscous Fluid Injection Cannula, 23 Ga, 4 mm Tip, 9 12-5248 Disposable Curved Scissors, 23 Ga, Stainless Steel, 5 per Box 12-209-23D 153 4 6 per Box SmartSil5000 Purified Silicone Oil for Retinal Endotamponade, 5000 cSt 158 10 Disposable Vitreoretinal Curved Scissors, 23 Ga, Plastic 154 Purified Silicone Oil for Retinal Endotamponade, 1000 cSt SmartSil1000* 12-209-23DP* Handle 360°, 6 per Box Disposable Laser Probe, Curved, 23 Ga - SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®, 6 per box 36 RI C-23A7 11 Disposable Eckardt End-Gripping Forceps, 23 Ga, 12-410-23D 5 153 Stainless Steel, 6 per Box Disposable Wide Angle Fiber Optic Probe, 23 Ga - B&L®, 12-5180 Disposable Vitreoretinal Eckardt End-Gripping Forceps, 154 23 Ga, Plastic Handle 360°, 6 per Box 6 per box 12-410-23DP* Disposable Chandelier Fiber Optic Probe, 23 Ga - B&L®, 12-4573 Disposable Vitreoretinal Gripping Forceps with a "Croc-odile Platform", 23 Ga, Plastic Handle 360°, 6 per Box 6 per box 6 154 Disposable Posterior Vitrectomy Cutter, Double Cut, 23 Ga, 6 per box B&L®: Stellaris® Speed: 10000 CPM Pressure: 42 PSI RV-23BFd 14

12-304-23DP Disposable Gripping Forceps with a "Crocodile" Plat-form, 23 Ga, Stainless Steel, 6 per Box 12-304-23D* 153 *not shown

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

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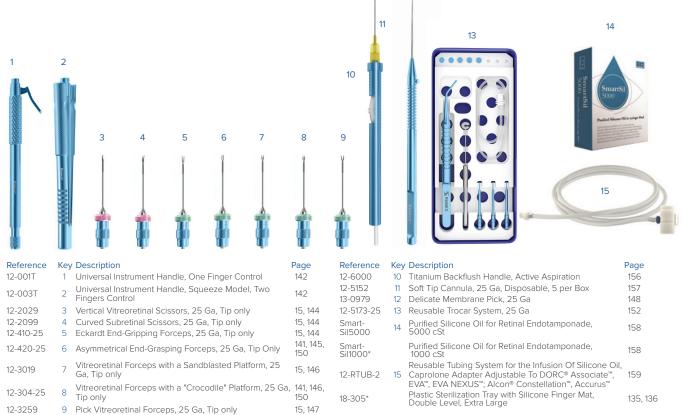
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VITREORETINAL **REUSABLE SET, TWO-PIECE, 25 GA**



12

^{*}not shown



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RV-25BFd

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6 per box

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Disposable Posterior Vitrectomy Cutter, Double Cut, 25 Ga,

B&L®: Stellaris® Speed: 10000 CPM Pressure: 42 PSI

Disposable Gripping Forceps with a "Crocodile"

Platform, 25 Ga, Stainless Steel, 6 per Box

6 per Box

12-304-25D*

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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 you to read the instructions below carefully before use.

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

A particular care should be taken after microsurgical instruments as they have very delicate working tips. These instructions are 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 the ones of package 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 instrument's parts since moisture promotes corrosion.
- 2. Only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in 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 be immersed into the solution. Products with locks should be immersed open with preliminary several working movements done inside the solution for its better penetration into hard-to-reach areas of the instruments. Make sure that there are no air bubbles in the cavities and all the inner surfaces are affected.
- 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 be immersed into the solution.

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

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 noncompatible ones.
- 3. After use of cleaning agent, rinse the instruments with **distilled/demineralized water** at least 5 times and flush the lumens to remove the disinfectant.
- 4. Repeat if there are still visible impurities on the surface of the instruments.

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

AUTOMATED CLEANING PROCESS

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

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

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

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

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

- 1. Pre-wash with cold water to remove dirt and foaming substances.
- 2. Cleaning is performed with use of suitable pH-neutral or alkaline products added to hot or cold distilled water at temperatures of 40-60°C (104-140°F) for at least 5 minutes.
- 3. Intermediate rinse in hot or cold distilled water followed by chemo-thermal disinfection. Special cleaning agent, compatible with machine-disinfection, is used.
- 4. Intermediate rinse in hot or cold distilled water without additives.
- 5. Final rinsing with distilled water at higher temperature.
- 6. Drying might be carried out in washer/disinfector or in other possible ways. Sterile compressed air should be used to insufflate cavities of the instruments.
- The cleaning device must be regularly maintained, checked and validated in accordance with internal and manufacturer requirements.
- When processing the ophthalmic instruments we recommend using the additional intermediate rinsing with water in the washing programs before the final rinse.
- Additional rinsing outside the washing equipment is not required.

A combination of processing stages 1 and 2 is allowed.

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

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

Aspiration speculums and cannulas with tubes (e.g. Simcoe) require additional cleaning of silicone tubes prior to be sterilized.

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

RECOMMENDED PRODUCTS FOR CARE AND CLEANING

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

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

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

LUBRICATION

Moving parts and working mechanisms of the Rumex instruments should be lubricated occasionally with a medical grade instrument lubricant (especially after an ultrasonic bath) to ensure the smooth operation of the working mechanism. The lubricant must be biocompatible, suitable for steam sterilization and vapor-permeable. No silicone oil should be applied. The paraffin/white oil based lubricants are allowed to be used. The following products are recommended - Neodisher IP Spray, Miltex-Integra Spray Lube Instrument Lubricant, Sterilit[®] i lubricant.

After cleaning process let the instruments cool down to room temperature prior to their actuation, as otherwise metal abrasion may develop when the details of the tools rub against each other. This may destroy the instruments' functionality.

The recommended directions of the instrument lubricant manufacturer and your institution should be observed.

Stage 3: STERILIZATION

Surgical instruments should be stored at room temperature in dry rooms in the 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 can melt during autoclaving and cause damage of instruments.

WARNING! Never store the instruments close to the chemicals.

Stainless steel and titanium instruments can be sterilized via steam autoclaving, chemical disinfectants, ethylene oxide gas, or even dry hot air. Gas and dry chemical sterilization are the best methods for stainless steel instruments, but it takes a lengthy time period to accomplish the desired result. The most practical method of sterilization is heat or steam, which require less time, however, these methods can be damaging to delicate instruments. Please, be sure that you and the members of your staff have read and understood the instructions supplied by the manufacturer of your particular sterilizer.

STERILIZATION CYCLES

Finally, the instrument should be sterilized prior to the next surgical procedure.

WARNING! Only clean, 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 Autoclavir	ng	"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.

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 μ m. 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 the knives to be kept and carried in sterilizing cases or with a PTFE shipping clamp to avoid self-movement. When a knife is not in use, its blade must be retracted into the handle and protected from mechanical damage.
- 4. Please rotate the movable part of the handle clockwise and fix the blade to set the knife in its operative position. The blade is to be set in the operative position for the surgical operation just prior to usage.
- 5. After usage, slightly pull the movable part of the handle downwards and rotate counterclockwise to return the blade into its non-operative position. To avoid accidental movements of the spring, please make sure the handle is fixed tightly. When a handle is fixed, a slight click will occur.
- 6. To install the knife with a micrometer, pull the protective cap down and rotate the bottom part of the handle (with a scale) downwards; the blade will appear. Customize the depth of the blade by screwing the handle; the scale marks will indicate the chosen depth. The scale increment is 0.005 mm. Rotate the handle upwards then put on the protective cap to set the knife in the initial non-operative position.

The service life of the knife varies due to usage and handling. The blade must never be dropped or be in contact with foreign objects. The blade and the spring mechanism need to be handled with care and caution.

Never disassemble the parts of the knife.

CLEANING

- 1. Use a syringe with distilled or demineralized water to flush the instrument.
- 2. Dip the knife (blade retracted) into weak alkaline cleaning solution and keep for 60 minutes at a temperature of 22°C (72°F).
- 3. The handle of a knife can be cleaned with a soft brush.
- 4. Flush the instrument with flowing water for 30 seconds, then sluice with distilled water for other 30 seconds; the blade should be pointed down for flushing.

WARNING! DO NOT apply ultrasonic cleaning to diamond knives.



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

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

Make sure the blade is in its non-operative position (retracted) before sterilization; self-movement must be avoided. We recommend sterilizing the knives in trays specially designed for diamond knives as the silicone holders will help stabilize them.

WARNING!

ETO method is not recommended for diamond knives sterilization.

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

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

STORAGE

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

INSPECTION

Incoming inspection is obligatory. It includes:

- 1. Visual examination of the package obtained: no mechanical damages are permitted.
- 2. Visual inspection of the knife: no mechanical damages such as cracks, chips, oxide scales etc. are permitted; all parts of the knife must be joined smoothly.
- 3. Blade must be set into the operating/non-operating position without jamming; it must be fixed easily.

Please examine the blade before each operation and never use a knife in the event any defect is noticed. Damaged knives should be sent for resharpening or blade replacement.

MANUFACTURER'S WARRANTY

Manufacturer guarantees knives to be in accordance with the documentation when service and storage instructions are followed by the consumer. We provide a 2 year guarantee for the spring mechanism and titanium parts. The diamond blade can be resharpened or exchanged according to the after-sale service program.

HANDLING OF VITREORETINAL & MICROINCISIONAL INSTRUMENTS

APPLICATION

RUMEX Instruments (ophthalmic scissors and forceps for vitreoretinal and microincisional surgery) are designed for various applications in ophthalmic surgery. It is essential that the instrument is cleaned and sterilized before initial use and after each surgery, following as outlined in this instruction brochure.

CARE AND HANDLING

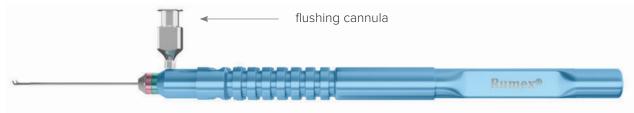
The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism during surgery. Proteins may also accumulate inside of the mechanism. If these fluids are not promptly and properly cleaned out, it will lead to corrosion or clogs and the possibility of instrument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

CLEANING OF TWO-PIECE VITREORETINAL INSTRUMENTS



- 1. Unscrew the tip from the handle, then attach flushing adapter 12-000T.
- 2. Flush the tip with distilled or demineralized water by connecting a syringe filled with water to adapter.
- 3. Flush the tip with alcohol this will remove the water and facilitate drying.
- 4. Dry the tip by forcing one or two syringes full of air through tip. Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air. Thoroughly dry handle, tip and cup.
- 5. Handle should be soaked in distilled or demineralized water for two minutes.
- 6. Dry with surgical sponge.
- 7. Lubricate joints in handle with instrument milk and work the mechanism by pressing the key.

CLEANING OF ONE-PIECE VITREORETINAL INSTRUMENTS



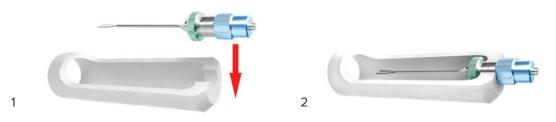
1. Put the instrument into PTFE protector (provided).

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

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

STORAGE

Surgical instruments should be stored in the sterilization trays of proper size lined with soft silicone mats. Instruments should not touch each other. We recommend using safety protectors made of PTFE, which are autoclavable. The photos below illustrate the way to fix a tip in a protector. Please insert the tips into PTFE protectors as shown in the picture:



- 1. Match the nut indicating the gauge with the hub, press the tip gently. Make sure the branches do not touch the protector
- 2. The tips in their final position safely fixed by the protector.

Note: the tips should be sterilized in the protector to avoid any contact with other instruments.

WARNING! Never store the instruments close to the chemicals.

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

WARNING!

Gravity displacement is not suitable for vitreoretinal and microincisional tips.

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

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

ABBREVIATIONS

BRVO	Branch Retinal Vein Occlusion
BSS	Balanced Salt Solution
СРМ	Cuts per Minute
CRVO	Central Retinal Vein Occlusion
DALK	Deep Anterior Lamellar Keratoplasty
DLEK	Deep Lamellar Endothelial Keratoplasty
DMEK	Descemet's Membrane Endothelial Keratosplaty
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
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

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