



EVOLUTION IN VITREORETINAL INSTRUMENTS

+ Disposable Products
for the posterior segment



AFFORDABLE
INNOVATIONS

Rumex International Co. is one of the leading manufacturers of high precision ophthalmic instruments for hand held surgery. Since 1994, our company has been working closely with honorable surgeons all over the world. The distinguished **ergonomic design** of our instruments, and **high quality materials** they are composed of, will ensure that every surgical manipulation is gentle and precise.

Our vitreoretinal product line is a result of professional experience and manufacturing skills accumulated over many years. Following the latest trends of vitreoretinal surgery, we launched lines of **27 Ga instruments** and **disposable products for the posterior segment**.

If your surgical technique or professional preference require a custom-made instrument, we will create it for you.

We respect long-term relationships and are always looking for new partners. Our brand is presented in 100 countries by now, and should you be interested to **become a distributor** of Rumex products, please contact us for further details.

Rumex International Co. manufactures vitreoretinal instruments for other well known brands. Please feel free to contact us if you are interested in **OEM business**.



FEATURED PRODUCTS.....	2
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REUSABLE INSTRUMENTS

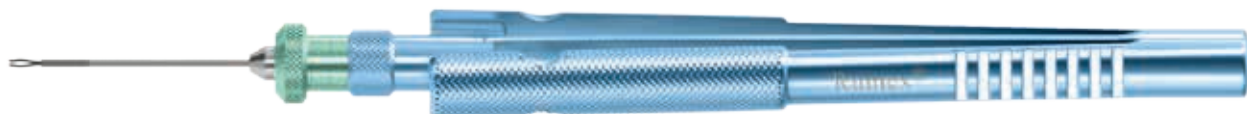
Vitreoretinal Instruments.....	3
Scissors	5
Epiretinal Forceps	6
Internal Limiting Membrane Forceps.....	7
Pick / Subretinal Forceps	8
Foreign Body Removal Forceps.....	8
Membrane Instruments	9
23 Gauge Instruments.....	10
One-Piece Instruments.....	12
25, 27 Gauge Instruments	13
Two Step Trocar System	14

DISPOSABLE PRODUCTS

Disposable Trocar Systems	15
Vitrectomy Cutters	16
Backflush Instruments.....	17
Cannulas	18
Silicone Oil	19
Silicone Oil Infusion Systems	20

Vitreoretinal Sets.....	21
Sterilization & Care	22

Universal End Grasping Forceps with Asymmetrical Branches

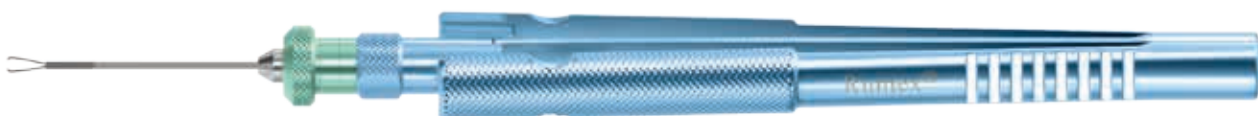


Universal End Grasping Forceps allows the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.



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

End Grasping Forceps

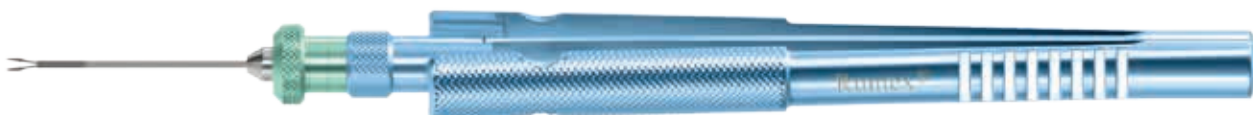


The special design of the tips promotes delicate, precise and safe ILM peeling. The strengthened jaws ensure enhanced gripping power. Expanded space between branches contributes to greater visualization of the grasped membrane in the macular area.



12-4013	23 Ga
Tip only	

Gripping Forceps with a 'Crocodile' Platform



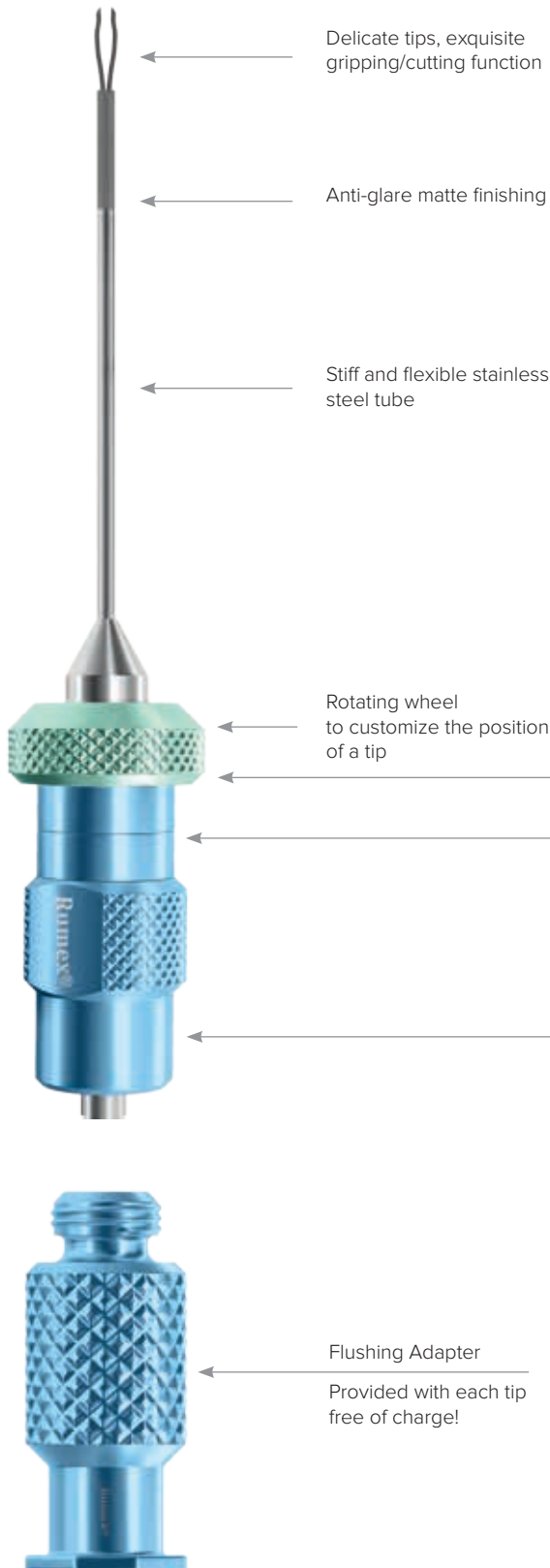
Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.



12-304	20 Ga
12-304-23	23 Ga
12-304-25	25 Ga
Tip only	

VITREORETINAL INSTRUMENTS

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



Outer Diameter		
Gauge	(inch)	(mm)
19 Ga	0.043	1.10
20 Ga	0.036	0.90
21 Ga	0.032	0.80
22 Ga	0.028	0.70
23 Ga	0.025	0.63
24 Ga	0.022	0.55
25 Ga	0.020	0.50
26 Ga	0.018	0.45
27 Ga	0.016	0.40
28 Ga	0.014	0.36
29 Ga	0.013	0.33
30 Ga	0.012	0.30

Color Code System**

The new color code system has been introduced to facilitate the identification of vitreoretinal tips, their function and size.

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

Manual Cleaning

Proper manual cleaning of the instrument is necessary to preserve its working condition. Rumex manufactures interchangeable microincisional and vitreoretinal instruments to help you clean the tips separately from the handle to expand its useful lifespan.

HANDLES FOR VITREORETINAL INSTRUMENTS

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

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

Ergonomic Model

Two Fingers Control
Squeeze Handle

12-003T

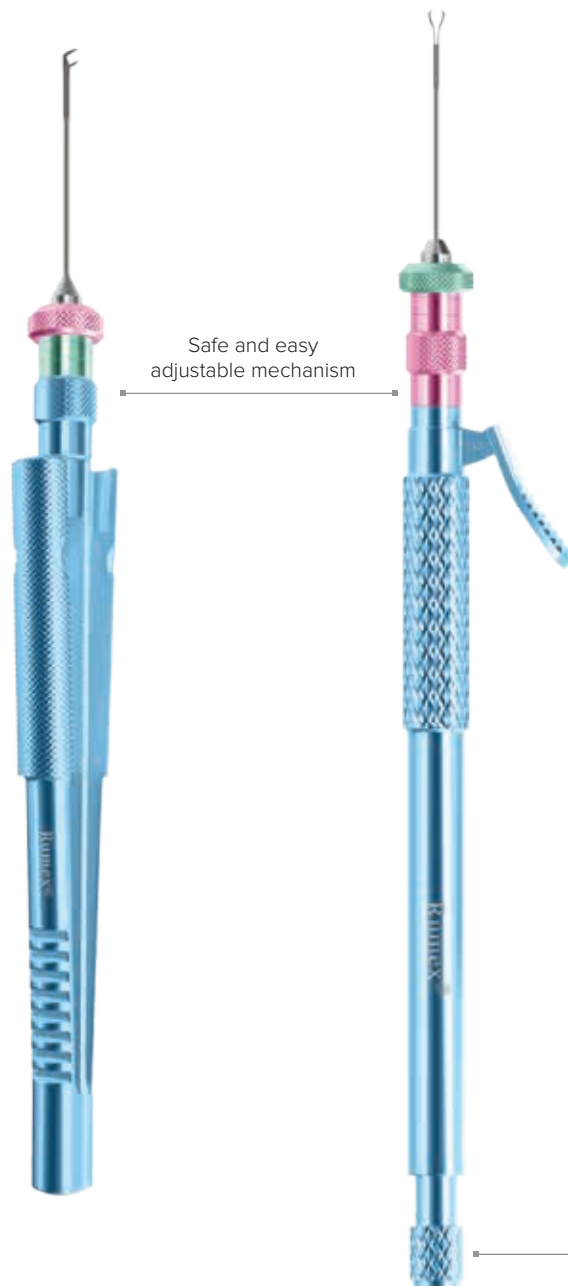
- Two fingers linear actuation
- Ergonomic handle with specially designed gripping area for amplified control over the instrument
- Optimal diameter round handle allows 360° rotation
- Non compatible with the following tips: 12-206, 12-313, 12-321, 12-335, 12-412

Classic Model

One Finger Control
Handle

12-001T

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



SCISSORS*



Designed for cutting membranes and junction zones of the proliferative tissue

**MOST
POPULAR**



Vertical Scissors

70 Degrees
Sharp tips

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

**COMPATIBLE
WITH 12-003T ONLY**



Horizontal Scissors

55 Degrees

12-206 20 Ga

Klaus Lucke
Retinotomy
Scissors

With bulbous tip

12-2020 20 Ga



Horizontal Scissors

Angled
45 Degrees
Regular blades (2.2 mm
in the closed position)

12-208 20 Ga



Vertical Scissors

45 Degrees

12-2029 25 Ga



Horizontal Scissors

Angled
45 Degrees
Short blades (1.7 mm
in the closed position)

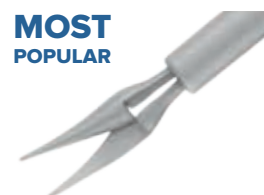
12-2085 20 Ga



Straight Scissors

Blunt tips

12-211 20 Ga



**MOST
POPULAR**

Curved Subretinal
Scissors

Curvature radius 12 mm

12-209 20 Ga
12-209-23 23 Ga
12-2099 25 Ga

Side Curved
Scissors

12-215 20 Ga



Horizontal Scissors

Angled
45 Degrees
With illumination

12-2084 20 Ga

EPIRETINAL FORCEPS*



- Strong jaws for epiretinal membranes
- Gripping function is enhanced by diamondized / serrated platform or nail shaped jaws

**MOST
POPULAR
ERM**



Gripping Forceps

With a diamond
dusted platform

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

ERM



End Gripping Forceps

With serrated micro jaws

12-400	20 Ga
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ERM



Lucke Multipurpose Forceps

12-3044	20 Ga
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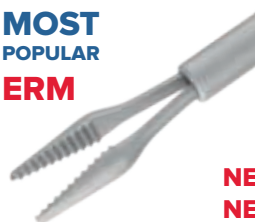


End Gripping Forceps

With extended gripping
area at the end of the tip

12-401	20 Ga
12-4012	23 Ga

**MOST
POPULAR
ERM**



Gripping Forceps

With a "crocodile"
Platform

12-304	20 Ga
NEW 12-304-23	23 Ga
NEW 12-304-25	25 Ga



End Gripping Forceps

With nail shaped jaws

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

INTERNAL LIMITING MEMBRANE FORCEPS*



Delicate branches for ILM peeling

**MOST
POPULAR**

ILM



**Eckardt End
Gripping Forceps**

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

**NEW
ILM**



**End Grasping
Forceps**

Expanded space
between branches

12-4013	23 Ga
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Enhanced vizualization!

**MOST
POPULAR**

ILM



**End Grasping
Forceps**

Standard branches,
28 mm tube (23 Ga)

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

Elongated branches,
30 mm tube
Designed for myopic
eyes

12-4202-23	23 Ga
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Enhanced vizualization!

ILM



**Tano Asymmetrical
End Gripping
Forceps**

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



**Tanaka Maculorhexis
Forceps**

12-414	23 Ga
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Kawai ILM Forceps

12-415	25 Ga
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PICK / SUBRETINAL FORCEPS*



Pick Forceps

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



Diamonized
Angled Gripping
Forceps

12-303	20 Ga
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De Juan
Pick Forceps

12-413	20 Ga
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Subretinal Forceps

3 mm tips	
12-343	20 Ga

FOREIGN BODY REMOVAL FORCEPS*



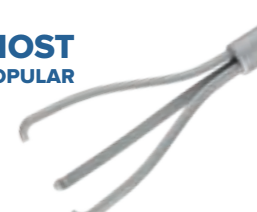
COMPATIBLE
WITH 12-001T ONLY



Avci Foreign
Body Forceps

12-412	17 Ga
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**MOST
POPULAR**



Spring Gripping
Forceps

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

COMPATIBLE
WITH 12-001T ONLY



Vitreoretinal
Forceps

With cup jaws	
12-313	20 Ga

COMPATIBLE
WITH 12-001T ONLY



Stolyarenko
Forceps

For large foreign bodies	
12-335	20 Ga

MEMBRANE INSTRUMENTS

**MOST
POPULAR****Delicate Membrane
Pick**

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

**Membrane
Scratcher**

13-092	20 Ga
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**Membrane Spatula**

13-084	20 Ga
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**Ogura PVD Spatula**

13-1081-23	23 Ga
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**BRVO Knife**

Designed for
performing a lateral
CRVO incision

13-1091	20 Ga
13-1091-23	23 Ga

23 GAUGE*



**MOST
POPULAR
ILM**



Eckardt End
Gripping Forceps
12-410-23 23 Ga

ILM



End Grasping
Forceps
Elongated branches,
30 mm
Designed for myopic
eyes
12-420-23 23 Ga
Enhanced visualization!

ILM



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

ILM



End Grasping
Forceps
Expanded space
between branches
12-4013 23 Ga
Enhanced visualization!

ILM



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



Spring Gripping
Forceps
12-321-23 23 Ga

23 GAUGE*



Vertical Scissors
70 Degrees
Sharp tips
12-202-23 23 Ga



Pick Forceps
12-325-23 23 Ga

**MOST
POPULAR**



Curved Subretinal Scissors
Curvature radius 12 mm
12-209-23 23 Ga



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

ERM



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



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

**MOST
POPULAR
ERM**



Gripping Forceps
With a "crocodile" platform
12-304-23 23 Ga

ONE-PIECE INSTRUMENTS: TIP WITH HANDLE



ILM



Eckardt End
Gripping Forceps
12-410-23H 23 Ga

ERM



Gripping Forceps
With a diamond dusted
platform
12-301-23H 23 Ga

ILM



Tano Asymmetrical
End Gripping
Forceps
12-411-23H 23 Ga

ERM



Gripping Forceps
With a "crocodile"
platform
12-304-23H 23 Ga

ILM



End Grasping
Forceps
12-420-23H 23 Ga



Pick Forceps
12-325-23H 23 Ga

ILM



End Grasping
Forceps
Expanded space
between branches
12-4013H 23 Ga
Enhanced vizualization!

**MOST
POPULAR**

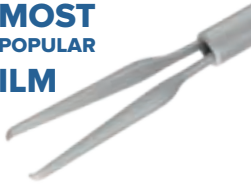


Curved Subretinal
Scissors
Curvature radius 12 mm
12-209-23H 23 Ga

25 GAUGE



Enhanced vizualization!

**MOST
POPULAR
ILM**

Eckardt End
Gripping Forceps
12-410-25 25 Ga

ERM

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

ILM

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

**MOST
POPULAR
ERM**

Gripping Forceps
With a "crocodile"
platform
12-304-25 25 Ga

ILM

End Grasping
Forceps
12-420-25 25 Ga
Enhanced vizualization!



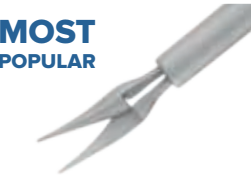
Pick Forceps
12-3259 25 Ga



Vertical Scissors
45 Degrees
Sharp tips
12-2029 25 Ga



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

**MOST
POPULAR**

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

27 GAUGE*

**ILM**

Eckardt End
Gripping Forceps
12-410-27 27 Ga

ILM

End Grasping
Forceps
12-420-27 27 Ga
Enhanced vizualization!

REUSABLE TWO STEP TROCAR SYSTEM

**MOST
POPULAR**



Instrument Cannula

Cannula Plug



Reusable Trocar System with closure valves

Package includes:

1. Trocar Cannula with closure valves – 3 pcs
2. Loading Forceps – 1 pc
3. Fixation Plate – 1 pc
4. Blunt Cannula Inserter – 3 pcs
5. Universal Infusion Line – 1 pc
6. Sterilizing Tray – 1 pc

12-5173-1 23 Ga

The best choice for the 23 Ga
transconjunctival sutureless vitrectomy!

Loading Forceps

1 per box

12-5186 23 Ga

Instrument Cannula Inserter

1 per box

12-5187 23 Ga

Fixation Plate

1 per box

12-5188 23 Ga

MVR Knives

Multifacet Blade, sterile, 6 per box

VRS-19	19 Ga (straight)
VRS-20	20 Ga (straight)
VRS-23	23 Ga (straight)
VRA-19	19 Ga (angled)
VRA-20	20 Ga (angled)
VRA-23	23 Ga (angled)

Trocar Cannula Set

The set includes:

Instrument Cannula – 2 pcs

Cannula Plugs – 2 pcs

Sterile

12-5189 23 Ga – 1 set per box

12-5190 23 Ga – 5 sets per box

Scleral Plugs Forceps

Cross action mechanism reduces hand fatigue

12-5086S 20 Ga



DISPOSABLE TROCAR SYSTEMS

One Step Trocar System

Each package includes:

1. Trocar knife with preloaded trocar cannula – 3 pcs
2. Self-sealing trocar cannula (preloaded) – 3 pcs
3. Infusion line (for BSS) – 1 pc

Sterile, 5 sets per box

	12-5229	23 Ga
	12-5244	25 Ga



Trocar Knife

with preloaded cannulas



Self-Sealing Trocar Cannula

self-sealing silicone valves eliminating need for plugs



Trocar Cannula Inserter

the proximal end of the plastic handle (opposite to the knife) can be used as a caliper and a scleral marker (two dimensions, 3.0 and 4.0 mm)



Universal Infusion Line

universal infusion line for BSS

REUSABLE: POSTERIOR



Sterile
One per package

12-5100

AMO®	Gemini™
B&L®	Premiere™, Millennium™, Daisy™
Optikon®	Pulsar 2™, Assistant™
Carl Zeiss Meditec® / IOL Tech®	Pentasys™
Fritz Ruck®	Pentasys™
Croma Pharma® / Corneal®	Open Phaco™
Alcon®	Microtome™, MVS™, STTO Dx™
Nidek®	CV-24000™, VT-5000™
MID Labs®	MVS™, SupraVit™
Syntec®	VitMan™

800 CPM

25 PSI

20 Ga

Without Irrigation Sleeve

DISPOSABLE: ANTERIOR



Sterile
One per package

12-5068

Alcon®	Legacy™, STTO™, STTM™, Universal™
AMO®	Sovereign™, Signature™, AMO Plus®, Prestige™
Staar Surgical®	Wave™
Surgical Design®	Ocusystem™
American Optisurgical®	Horizon™
Nidek®	CV-12000™, CV-6000™, CV-7000™

800 CPM

20 PSI

20 Ga

Without Irrigation Sleeve

DISPOSABLE: POSTERIOR

	12-5064	12-5172
Alcon®	Accurus™	Accurus™
DORC®	Harmony Total TTC™	Associate™
	800 CPM	2500 CPM
	30 PSI	30 PSI
	20 Ga	23 Ga
	Without Irrigation Sleeve	Without Irrigation Sleeve

BACKFLUSH HANDLES



Titanium Backflush Handle

Active Aspiration

12-6000



Titanium Backflush Handle

Passive Aspiration

12-6010



Backflush Handle

Active Aspiration

Sterile

5 per box

12-5196



Backflush Handle

Passive Aspiration

Sterile

5 per box

12-5197



Replacement Reservoir for Backflush Handle

Active

Sterile

10 per box

12-5159



Replacement Reservoir for Backflush Handle

Passive

Sterile

10 per box

12-5147

CANNULAS FOR BACKFLUSH INSTRUMENTS



Charles Flute Cannulas

Designed to aspirate blood and debris from the posterior segment. Smooth, finished tip provides atraumatic entry and reduces risk of trauma to surrounding tissue.

Disposable, 5 per box

12-5164 23 Ga



Brush Tip Cannulas

For atraumatic brushing of retina.

Disposable, 5 per box

12-5017 20 Ga

12-5162 23 Ga

12-5160 25 Ga



Soft Tip Cannulas

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

Disposable, 5 per box

12-5063 20 Ga

12-5161 23 Ga

12-5152 25 Ga



Diamond Dusted Soft Tip Cannulas

Designed for better cohesion and gentle sweeping of the membrane.

Disposable, 5 per box

12-5193 20 Ga

12-5192 23 Ga

DUAL BORE CANNULAS

For simultaneous infusion and aspiration of liquids.



Dual Bore PFC Cannula

Simultaneous infusion of heavy liquids and aspiration of intraocular fluids. Dual bore for constant control of intraocular pressure during injection.

Disposable, 5 per box

12-5203 23 Ga (0.60 mm)



Dual Bore BSS Injection Needle

Enables to control subretinal injection of BSS. Dual bore cannula combined with aspiration capability.

Disposable, 1 per box

12-5194 20 Ga / 41 Ga (0.10 mm) tip

ULTRA 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)

No risk of emulsification

SOLVENT FREE



SmartSil 1000 1000 cSt
SmartSil 5000 5000 cSt

Physicochemical properties

Interfacial tension at 37°C	43,2 mNm-1
Density	0,97 g/cm3
Viscosity	1000 cSt / 5000 cSt
Refractive index	1,404
Volatility	0,06%
Polydispersity	2,33
Elements potentially toxic	< 3 ppm
Low molecular weights	D4 – D9: < 24 ppm D10 – D20: 4 ≤ ppm



SILICONE OIL INFUSION SYSTEMS



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



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



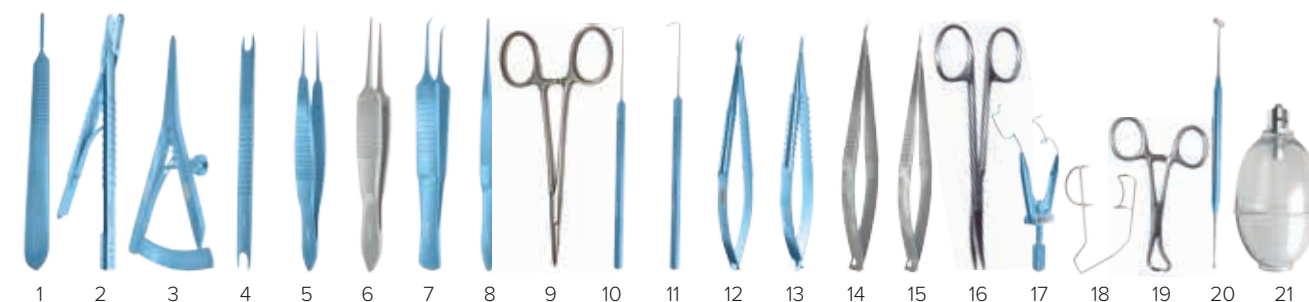
Viscous Fluid Injection Cannula

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

Disposable, 5 per box

12-5248 23 Ga

UNIVERSAL INSTRUMENTS



Category	Reference (can be replaced with)	Key	Description
Blade holders	1-020S	1	Blade holder
	1-010T	2	Bard Parker Handle
Calipers	2-010T	3	Castrovieho Caliper
	2-100T (2-100S / 2-101T)	4	Braunstein Fixed Caliper
Forceps	4-0600T / 4-0601T	5	Castrovieho Suturing Forceps
	4-0607S	6	Bishop-Harmon Suturing Forceps
	4-091S (4-092T)	7	Tying Forceps
	4-2300T	8	Utility Forceps
	4-122S (4-123S)	9	Mosquito Forceps
Hooks	5-042	10	Muscle Hook
	5-060	11	Retinal Detachment Hook
Needle holders	8-011T (8-025T / 8-031T)	12	Barraquer Needle Holder
	8-045T (8-051T / 8-061T)	13	Barraquer Needle Holder, extra fine jaws
Scissors	11-040S (11-042S)	14	Westcott Tenotomy Scissors
	11-044S (11-046S/11-047S)	15	Westcott Stitch Scissors
	11-100S (11-101S)	16	Knapp Strabismus Scissors
Speculums	14-040T	17	Lieberman Temporal Speculum
	14-022S (14-023S)	18	Barraquer Wire Speculum
Other	16-081S	19	Towel Forceps
	16-111	20	Scleral Depressor
	15-301/303	21	Silicone Bulb With Adapter
Sterilization trays	18-304	*Not shown	Plastic Sterilization Tray (single level)
	18-305	*Not shown	Plastic Sterilization Tray (double level)
	18-307	*Not shown	Mini Sterilization Tray With Silicone Matt

20/23/25/27 GA

Category	Description	20 Ga	23 Ga	25 Ga	27 Ga	Page
Reusable Instruments						
Scissors	Vertical Scissors*	12-202	12-202-23	12-2029		6
	Curved Subretinal Scissors*	12-209	12-209-23	12-2099		
ERM Forceps	Gripping Forceps with a Diamond Dusted Platform*	12-301	12-301-23	12-3019		7
	Gripping Forceps with a "Crocodile" Platform*	12-304	12-304-23	12-304-25		
ILM Forceps	Eckardt End Gripping Forceps*	12-410	12-410-23	12-410-25	12-410-27	8
	Tano Asymmetrical Forceps*	12-411	12-411-23	12-411-25		
	End Grasping Forceps*		12-4013			
	End Grasping Forceps, Asymmetrical Model*		12-420-23	12-420-25	12-420-27	
Pick Forceps	Pick Forceps with Sharp Tips*	12-325	12-325-23	12-3259		9
Membrane Instruments	Membrane Scratcher	13-092				10
	Membrane Pick		13-097-23	13-0979	13-097-27	10
	Backflush Handle, Passive Aspiration	12-6010	12-6010	12-6010		18
Disposable Products						
MVR Knives	MVR Knife, Straight Multifacet Blade	VRS-20	VRS-23			15
Trocar Systems	One Step Disposable Trocar System		12-5229	12-5244		15
Vitreotomy Cutters	Vitreotomy Cutters, Posterior, Disposable	12-5064	12-5172			17
Cannulas	Brush Tip Cannulas for Backflush Handles	12-5017	12-5162	12-5160		19
Silicone Oil**						20
Silicone Oil Infusion Systems						21

Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.

*To be used with a Universal Handle 12-003T

**Not available in the US

STERILIZATION AND CARE

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.

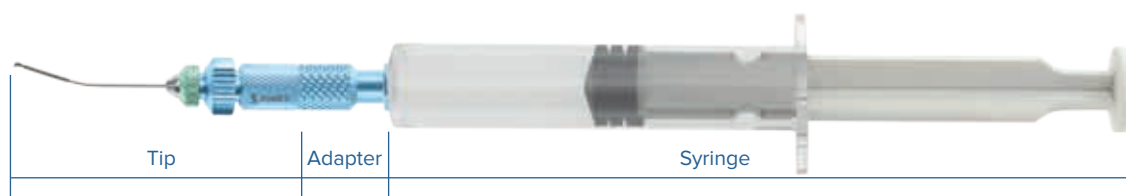
Care and handling

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

Make sure the cleaning procedure is implemented after each surgery — warranty shall not extend to instruments that have not been handled in the proper way.

Cleaning

1. Unscrew the tip from the handle, then attach flushing adapter 12-000T;
2. Flush the tip with distilled or deionized water by connecting syringe filled with water to adapter:



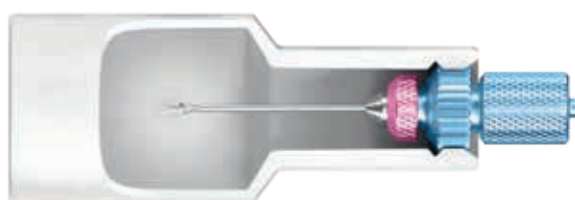
3. Flush the tip with alcohol. This will remove the water and facilitate drying;
4. Dry the tip by forcing one or two syringes full of air through tip. Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air;
5. Force special thermoresistant instrument milk through the tip, as in No 2 above;
6. Dry with air as in No 4 above;
7. Handle should be soaked in distilled or deionized water for two minutes;
8. Dry with surgical sponge;
9. Lubricate joints in handle with instrument milk and work the mechanism by pressing the key.

Instrument detergents and/or cleaners

Only detergents and cleaners specially designed for use on surgical stainless steel or titanium instruments are acceptable for use in the cleaning process. The cleaning guidelines of the solution manufacturer and your institution should be observed.

Ultrasonic cleaning equipment

An ultrasonic cleaner could also be used in the instrument cleaning process, but not as the sole cleaning method. The instrument should, at the very least, be flushed with distilled water prior to being placed in the ultrasonic cleaner. A five to ten minutes cycle in the ultrasonic cleaner should be sufficient. The instrument must be secured on a silicone finger mat during the ultrasonic cleaning procedure. Special care should be taken to make certain that the tip of the instrument does not come into contact with the sides of the ultrasonic container, as this could damage the instrument.



Lubrication

Moving parts and working mechanisms of Rumex instruments should be lubricated occasionally with a medical grade instrument lubricant (especially after an ultrasonic bath) to ensure smooth operation of the working mechanism. The recommended directions of the instrument lubricant manufacturer should be observed.

Storage

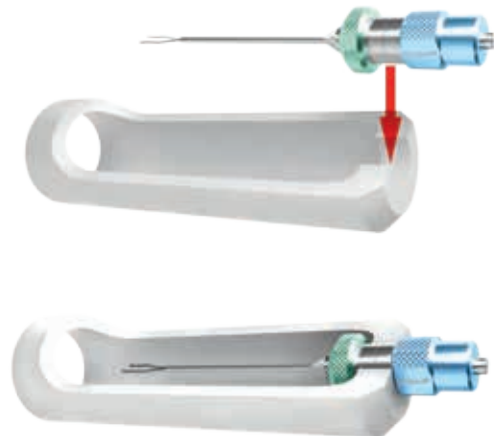
Surgical instruments should be stored in the sterilizing trays of proper size lined with soft silicone mats. Instruments should not touch each other. We recommend using safety protectors made of teflon, which is autoclavable. Rumex International Co. designed two models of safety protectors. The photos below illustrate the way to fix a tip in a protector.

Please insert the tips into teflon protectors as shown in the picture:

- Match the nut indicating the gauge with the hub, press the tip gently
- Make sure the branches do not touch the protector

The tips in their final position — safely fixed by the protector.

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



Sterilization

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

Sterilization cycles

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

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

100% ETO cycles

Concentration ETO	850±50mg/l
Temperature	37 °C – 47 °C
Exposure time	3–4 hours
Humidity	70% RH minimum

Steam Autoclaving

Sterilizer Type	Gravity Displacement	Prevacuum	Gravity Displacement	Prevacuum
Sample Config.	wrapped	wrapped	unwrapped	unwrapped
Temperature	121 °C – 123 °C 250 °F – 253 °F	132 °C – 135 °C 270 °F – 275 °F	132 °C 270 °F	132 °C 270 °F
Exposure time	15 to 30 minutes	3 to 4 minutes	3 minutes	3 minutes

'Flash' Autoclaving

The above-mentioned sterilization cycles represent the industry standards and should be capable of producing a sterile device. Due to variations in sterilization equipment and device bioburden in clinical use, Rumex International is not able to provide specific cycle parameters. It is the responsibility of each user to perform the validation and verification of the sterilization cycle to ensure an adequate sterility assurance level for Rumex products.

Inspection

Be sure to inspect every microsurgical instrument at the end of your surgical day. Please conduct this inspection under a microscope or magnification lens. If a damaged instrument is detected, repair or replace it.

TERMS & CONDITIONS

1. Orders

Please contact local Rumex representatives to place an order. The list of representatives can be found at www.rumex.com.

2. Prices

Prices are subject to change without notice. Ask your local distributor for the current price list.

3. Shipping

Orders are shipped via express carrier. The carrier is indicated at the time the order is placed.

4. Warranty

All Rumex instruments have lifetime guarantee from manufacturing and material defects, if they are properly use and taken care of in accordance with recommended procedures. If a defect is detected, Rumex will replace or repair the instrument at no charge.

Please always follow Care and Cleaning Instructions provided by Rumex International Co. or the warranty shall be null and void.

5. Credit Policy

Any instrument may be returned within 30 days and no restocking charge will be applied if the instrument is in its original undamaged condition. No refunds are permitted. You will receive a company credit towards future purchases. No returns will be accepted after 30 days. Damaged instruments are subject to a repair charge.

No credit will be issued for:

- Sterile and disposable products;
- Instruments damaged beyond repair;
- Special or custom orders.

6. Return

Merchandise should be carefully packaged, insured and shipped (prepaid) to the Rumex office (or your local office internationally) together with a copy of your original invoice or packing list, stating your name, address, contact numbers and email address. Please enclose detailed explanation of the reason for return. Custom made instruments cannot be returned. Please call customer service at +1 (727) 535 9600 (USA, Canada) or +371 6616 3182 (Europe, Asia, Africa, Latin America) to obtain a Return Authorization Number prior to returning instrument(s). Please sterilize the instrument(s) before shipping. Unopened and unused instruments should not be sterilized. Customers will be credited the cost of the instrument(s) but will be responsible for all freight charges for the original order.

7. Repair

To provide our partners and direct customers with prompt after sale service and minimize the risk of breakage of branches during a surgery we exchange a broken tip for a brand new instrument. The cost of the service is 60% of the retail price.

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