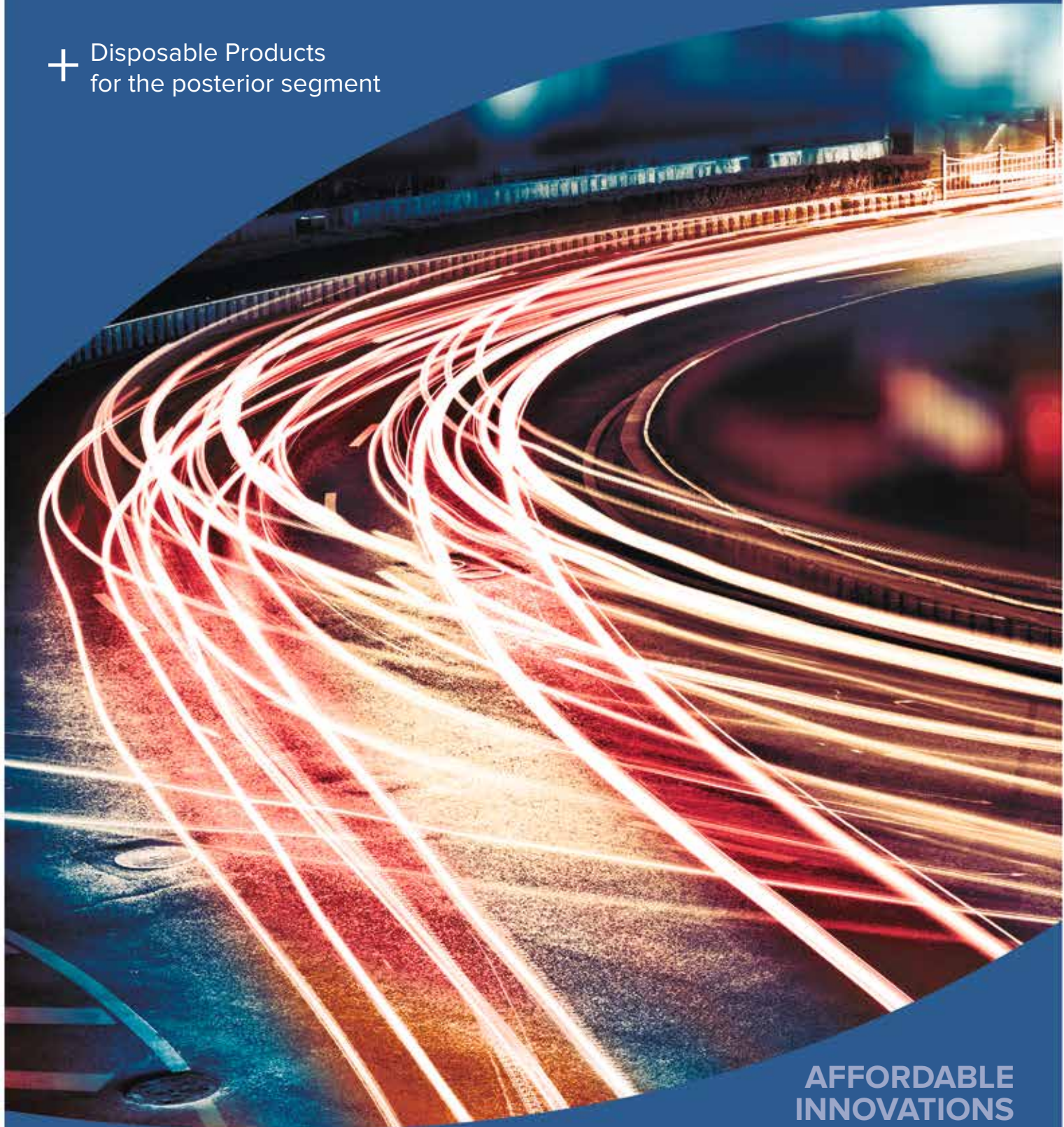




# EVOLUTION IN VITREORETINAL INSTRUMENTS

+ 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.

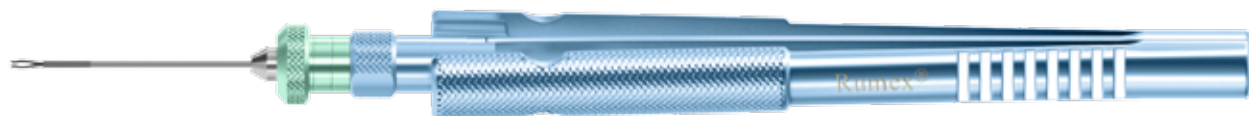
Rumex International Co. manufactures vitreoretinal instruments for other well known brands. Please feel free to contact us if you are interested in **OEM business**.



<b>FEATURED PRODUCTS</b>	5
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## FEATURED PRODUCTS

### Universal End Grasping Forceps with Asymmetrical Branches

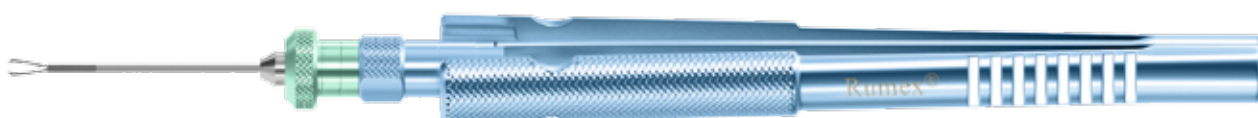


Universal End Grasping Forceps allow the performing of ILM peeling and safe removal of epiretinal membranes. Asymmetrical design of branches provides for ideal maneuverability and excellent visualization of the grasped tissue.



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

### End Grasping Forceps



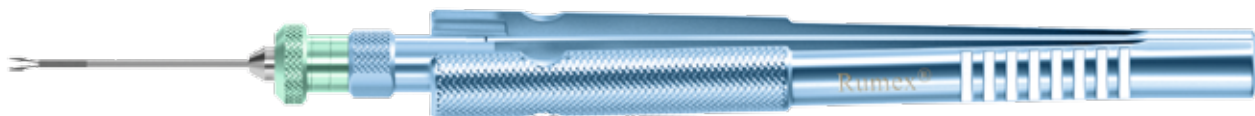
The special design of the tips promotes delicate, precise and safe ILM peeling. The strengthened jaws ensure enhanced gripping power. Expanded space between branches contributes to greater visualization of the grasped membrane in the macular area.



12-4013	23 Ga
Tip only	

### Gripping Forceps with a 'Crocodile' Platform

**MOST  
POPULAR**



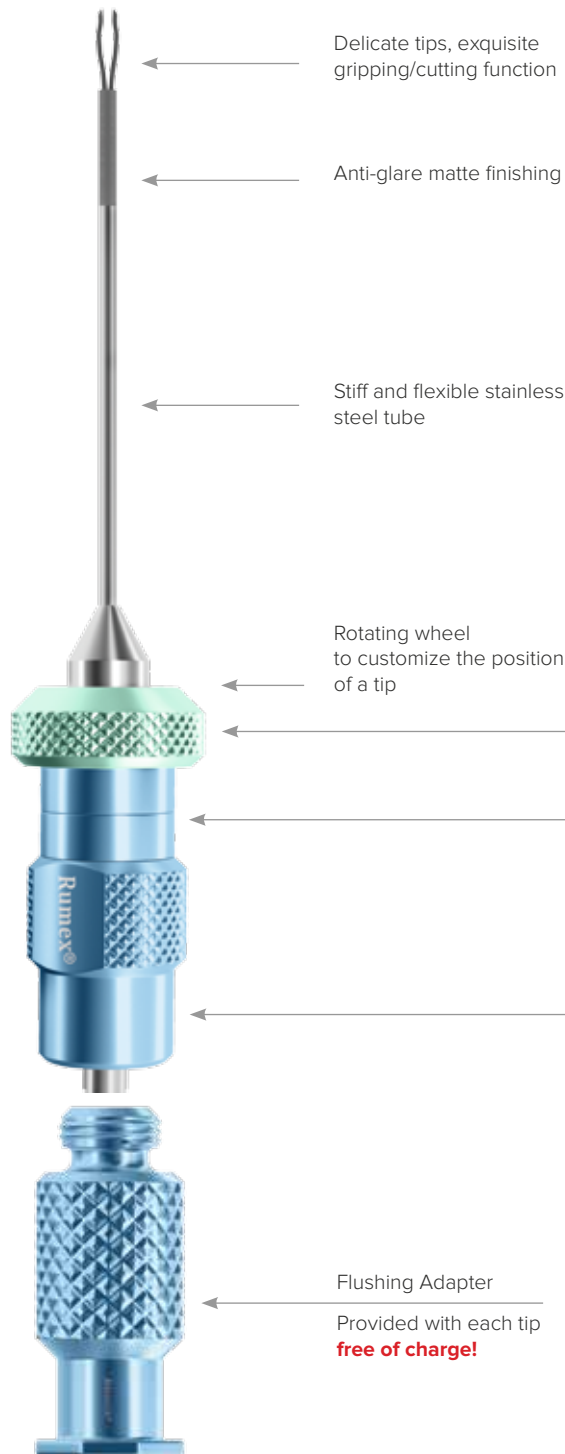
Designed for the removal of epiretinal membranes. Blunt, atraumatic serration intensifies grasping capacity and prevents tissue shredding.



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

## VITREORETINAL INSTRUMENT TIPS, MANUAL CLEANING: GAUGE CONVERSION CHART, COLOR CODE SYSTEM

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



Gauge Conversion Chart		
Gauge	(inch)	(mm)
19 Ga	0.043	1.10
20 Ga	0.036	0.90
21 Ga	0.032	0.80
22 Ga	0.028	0.70
23 Ga	0.025	0.63
25 Ga	0.020	0.50
27 Ga	0.016	0.40

### Color Code System

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

Function	
Pink	Scissors
Green	Forceps
Gauge	
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 cleaning of the instrument is necessary to preserve its working condition.

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



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

\*Handles are sold separately! \*\*Colors of details may differ slightly from those displayed in this catalog.

## 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)

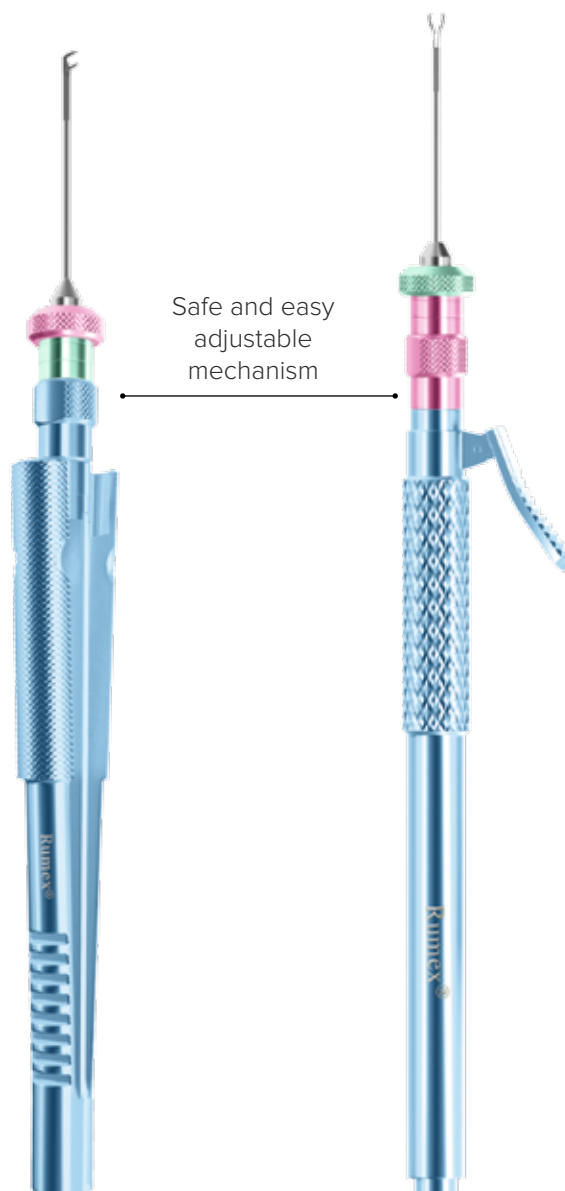
### MOST POPULAR

#### 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



### MOST POPULAR

#### Classic Model

One Finger Control Handle

12-001T

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

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

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

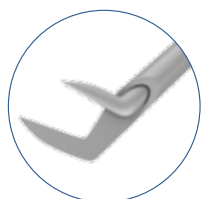
\*Tips are sold separately!

# SCISSORS\*

Designed for cutting membranes and junction zones of the proliferative tissue



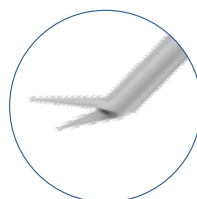
**COMPATIBLE**  
WITH 12-003T ONLY



## Vertical Scissors

70 Degrees  
Sharp tips

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



## Horizontal Scissors

55 Degrees

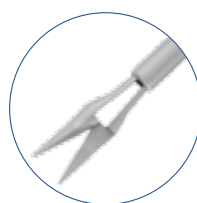
12-206                      20 Ga



## Klaus Lucke Retinotomy Scissors

With bulbous tip

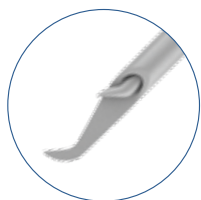
12-2020                      20 Ga



## Horizontal Scissors

Angled  
45 Degrees  
Regular blades (2.20 mm  
in the closed position)

12-208                      20 Ga



## Vertical Scissors

45 Degrees

12-2029                      25 Ga

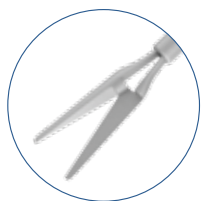


## Horizontal Scissors

Angled  
45 Degrees  
Short blades (1.70 mm  
in the closed position)

12-2085                      20 Ga

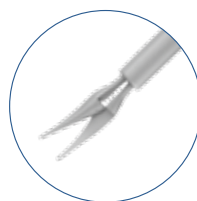
**MOST  
POPULAR**



## Straight Scissors

Blunt tips

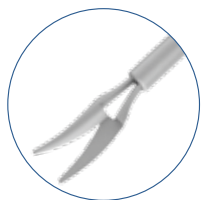
12-211                      20 Ga



## Curved Subretinal Scissors

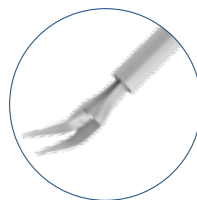
Curvature radius 12 mm

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

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

\*Handles are sold separately: 12-003T and 12-001T.

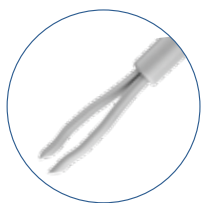


## INTERNAL LIMITING MEMBRANE (ILM) FORCEPS

Delicate branches for ILM peeling



### ILM



#### End Grasping Forceps

Standard branches,  
28 mm tube (23 Ga)

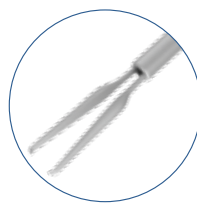
12-420-23	23 Ga
12-420-25	25 Ga
12-420-27	27 Ga

Elongated branches,  
30 mm tube  
Designed for myopic eyes

12-4202-23	23 Ga
------------	-------

Enhanced visualization!

### ILM

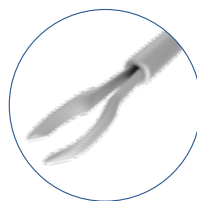


#### Eckardt End Gripping Forceps

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

**POPULAR  
NEW**

### ILM

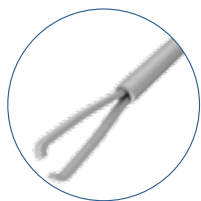


#### Tano Asymmetrical End Gripping Forceps

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

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

### ILM

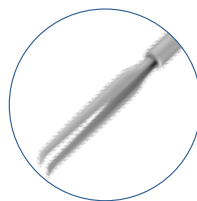


#### End Grasping Forceps

Expanded space  
between branches

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

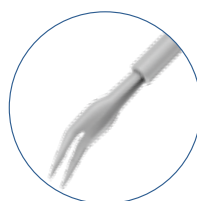
Enhanced visualization!



#### Tanaka Maculorhexis Forceps

12-414	23 Ga
--------	-------

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



#### Kawai ILM Forceps

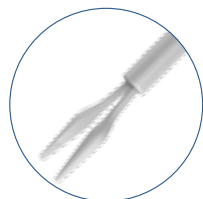
12-415	25 Ga
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Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.

\*Handles are sold separately: 12-003T and 12-001T.

## EPIRETINAL FORCEPS\*

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



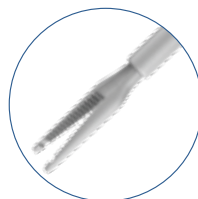
### ERM

#### Gripping Forceps

With a diamond dusted platform

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

**MOST  
POPULAR**

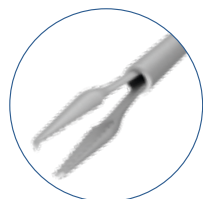


### ERM

#### End Gripping Forceps

With serrated micro jaws

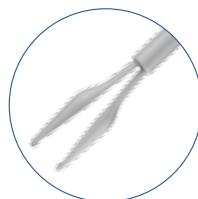
12-400                    20 Ga



### ERM

#### Lucke Multipurpose Forceps

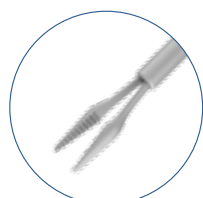
12-3044                 20 Ga



#### End Gripping Forceps

With extended gripping area at the end of the tip

12-401                    20 Ga  
 12-4012                 23 Ga



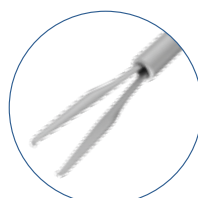
### ERM

#### Gripping Forceps

With a "crocodile" platform

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

**MOST  
POPULAR**



#### End Gripping Forceps

With nail shaped jaws

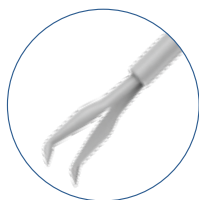
12-402                    20 Ga  
 12-402-23                23 Ga **POPULAR**  
 12-4089                 25 Ga

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

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

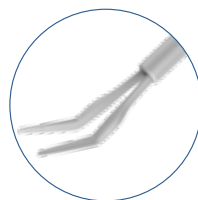
\*Handles are sold separately: 12-003T and 12-001T.

## PICK / SUBRETINAL FORCEPS\*



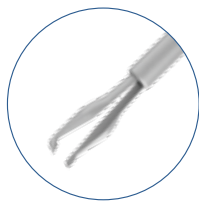
### Pick Forceps

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



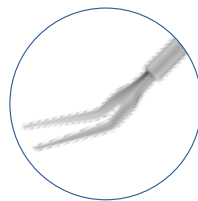
### Diamondized Angled Gripping Forceps

12-303                    20 Ga



### De Juan Pick Forceps

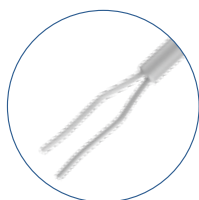
12-413                    20 Ga



### Subretinal Forceps

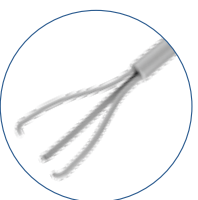
3 mm tips  
 12-343                    20 Ga

## FOREIGN BODY REMOVAL FORCEPS\*



### Avci Foreign Body Forceps

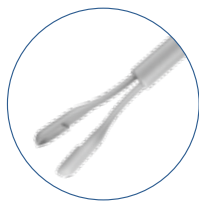
12-412\*\*                    17 Ga



### **MOST POPULAR**

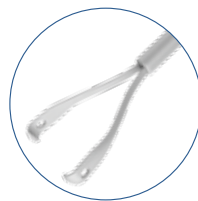
### Spring Gripping Forceps

12-321\*\*                    20 Ga **POPULAR**  
 12-321-23\*\*\*            23 Ga



### Vitreoretinal Forceps

With cup jaws  
 12-313\*\*                    20 Ga



### Stolyarenko Forceps

For large foreign bodies  
 12-335\*\*                    20 Ga **POPULAR**

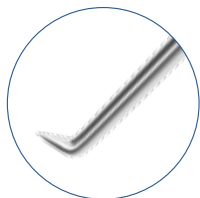
\*Handles are sold separately: 12-003T and 12-001T.

\*\* Compatible with Universal Handle 12-001T only

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

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

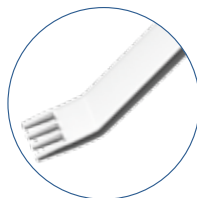
## MEMBRANE INSTRUMENTS



Delicate Membrane Pick

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

**MOST  
 POPULAR**



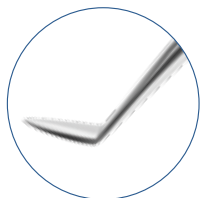
Membrane Scratcher

13-092      20 Ga



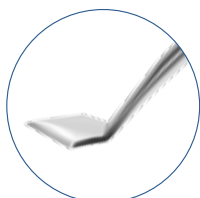
Membrane Spatula

13-084      20 Ga



Ogura PVD Spatula

13-1081-23      23 Ga



BRVO Knife

Designed for performing a lateral CRVO incision

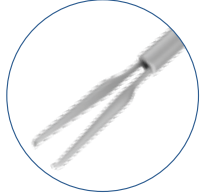
13-1091      20 Ga  
 13-1091-23      23 Ga

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

## 23 GAUGE INSTRUMENTS\*



### ILM

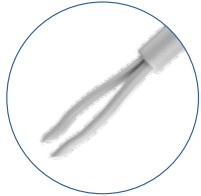


**MOST POPULAR**

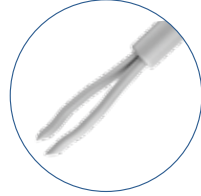
Eckardt End Gripping Forceps  
12-410-23 23 Ga



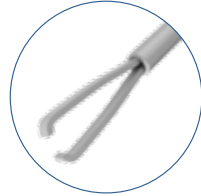
Tano Asymmetrical End Gripping Forceps  
12-411-23 23 Ga



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

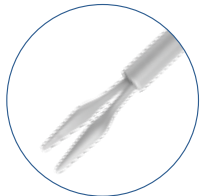


End Grasping Forceps  
Elongated branches, 30 mm  
Designed for myopic eyes  
12-4202-23 23 Ga  
Enhanced visualization!



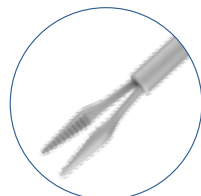
End Grasping Forceps  
Expanded space between branches  
12-4013 23 Ga  
Enhanced visualization!

### ERM



**MOST POPULAR**

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



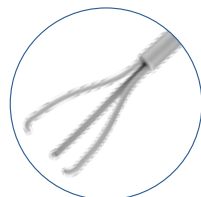
**MOST POPULAR**

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

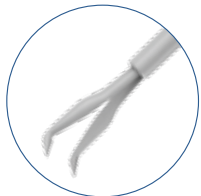


**MOST POPULAR**

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

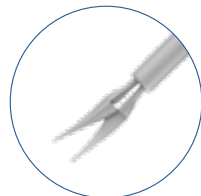


Spring Gripping Forceps  
12-321-23 23 Ga



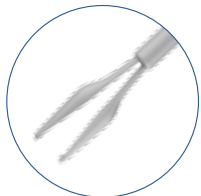
**POPULAR**

Pick Forceps  
12-325-23 23 Ga

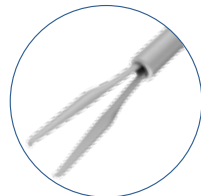


**MOST POPULAR**

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



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

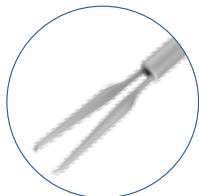
Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.

\*Handles are sold separately: 12-003T and 12-001T.

## 25 GAUGE INSTRUMENTS\*



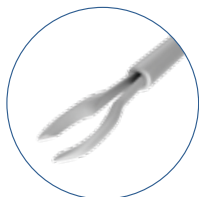
### ILM



**POPULAR**

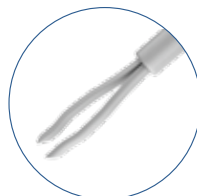
Eckardt End Gripping Forceps

12-410-25 25 Ga



Tano Asymmetrical End Gripping Forceps

12-411-25 25 Ga

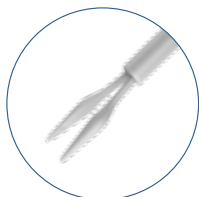


End Grasping Forceps

12-420-25 25 Ga

Enhanced visualization!

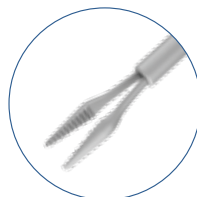
### ERM



Gripping Forceps

With a diamond dusted platform

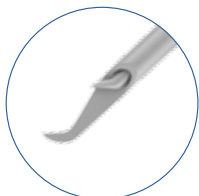
12-3019 25 Ga



Gripping Forceps

With a "crocodile" platform

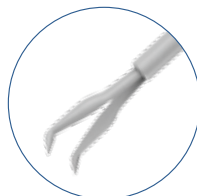
12-304-25 25 Ga



Vertical Scissors

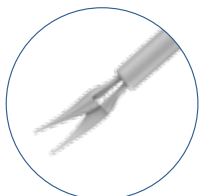
45 Degrees Sharp tips

12-2029 25 Ga



Pick Forceps

12-3259 25 Ga

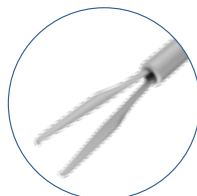


**POPULAR**

Curved Subretinal Scissors

Curvature radius 12 mm

12-2099 25 Ga



End Gripping Forceps

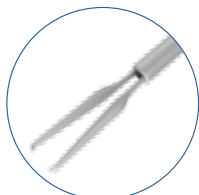
With nail shaped jaws

12-4089 25 Ga

## 27 GAUGE\*



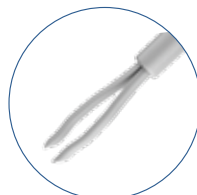
### ILM



**NEW**

Eckardt End Gripping Forceps

12-410-27 27 Ga



End Grasping Forceps

12-420-27 27 Ga

Enhanced visualization!

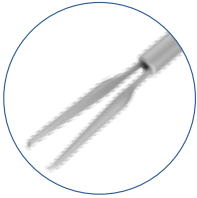
Product images, including color, may slightly differ from actual product appearance due to the 3D effect applied.

\*Handles are sold separately: 12-003T and 12-001T.

## ONE-PIECE INSTRUMENTS: TIP WITH HANDLE

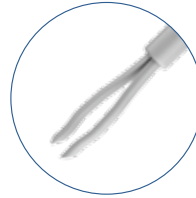


### ILM



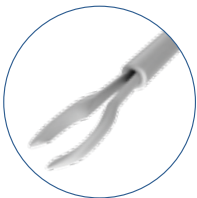
#### Eckardt End Gripping Forceps

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



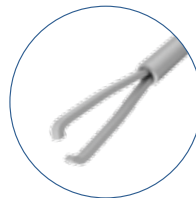
#### End Grasping Forceps

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



#### Tano Asymmetrical End Gripping Forceps

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



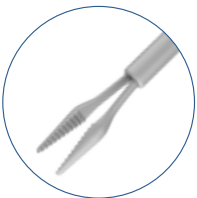
#### End Grasping Forceps

Expanded space between branches

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

Enhanced visualization!

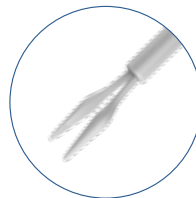
### ERM



#### Gripping Forceps

With a "crocodile" platform

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



#### Gripping Forceps

With a diamond dusted platform

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

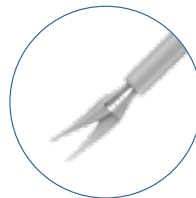
#### POPULAR



#### Pick Forceps

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

#### POPULAR

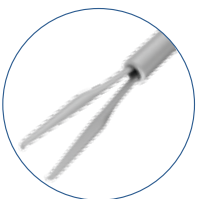


#### Curved Subretinal Scissors

Curvature radius 12 mm

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

#### POPULAR

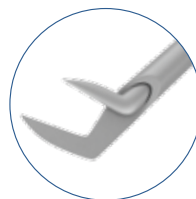


#### End Gripping Forceps

With nail shaped jaws

12-402-23H 23 Ga  
12-402-25H 25 Ga

#### MOST POPULAR



#### Vertical Scissors

Sharp tips

12-202-23H 23 Ga  
12-202-25H 25 Ga

Other models of tips in 20/23/25 and 27 Ga are available upon request.

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

## DISPOSABLE ONE-PIECE INSTRUMENTS

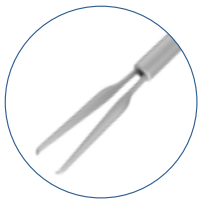
Most popular models of scissors and forceps in 23 and 25 Ga  
All instruments are supplied sterile, in a box of 6



**STERILE  
BOX OF 6**



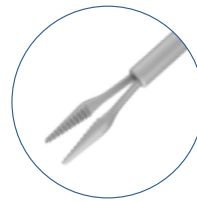
### ILM **MOST POPULAR**



Disposable Eckardt  
End Gripping Forceps

12-410-23D 23 Ga  
12-410-25D 25 Ga

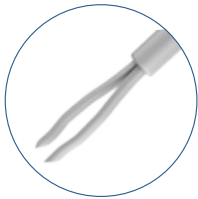
### ERM



Disposable Gripping  
Forceps

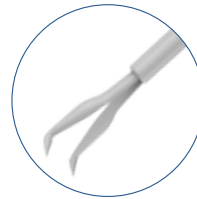
With a "crocodile" platform  
12-304-23D 23 Ga  
12-304-25D 25 Ga

### ILM



Disposable End  
Grasping Forceps

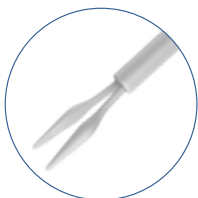
12-420-23D 23 Ga  
12-420-25D 25 Ga



Disposable Pick  
Forceps

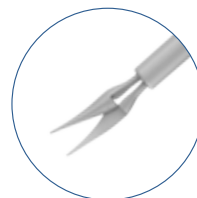
12-325-23D 23 Ga  
12-325-25D 25 Ga

### ERM



Disposable Gripping  
Forceps

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



Disposable Curved  
Scissors

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



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

\*Not available in the US

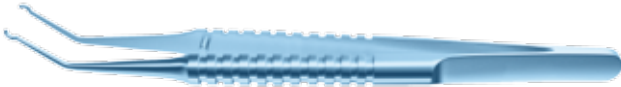


## REUSABLE TWO STEP TROCAR SYSTEMS

**MOST  
POPULAR**



2 extra cannulas



Instrument Cannula

Cannula Plug



### Reusable Trocar System with closure valves

Package includes:

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

12-5173-23

12-5173-25

**NEW**

### Loading Forceps

1 per box

12-5186            23/25 Ga

### Instrument Cannula Inserter

1 per box

12-5187-23        23 Ga

12-5187-25        25 Ga

### Fixation Plate

1 per box

12-5188            23/25 Ga    **POPULAR**

### MVR Knives

Multifacet Blade, sterile, 6 per box

Straight

Angled

VRS-19 - 19 Ga

VRA-19 - 19 Ga

VRS-20 - 20 Ga

VRA-20 - 20 Ga

VRS-23 - 23 Ga

VRA-23 - 23 Ga

### Trocar Cannula Set

The set includes:

Instrument Cannula – 2 pcs

Cannula Plugs – 2 pcs

Sterile

12-5189            23 Ga – 1 set per box

### Scleral Plugs Forceps

Cross-action mechanism reduces hand fatigue

12-5086S        20 Ga

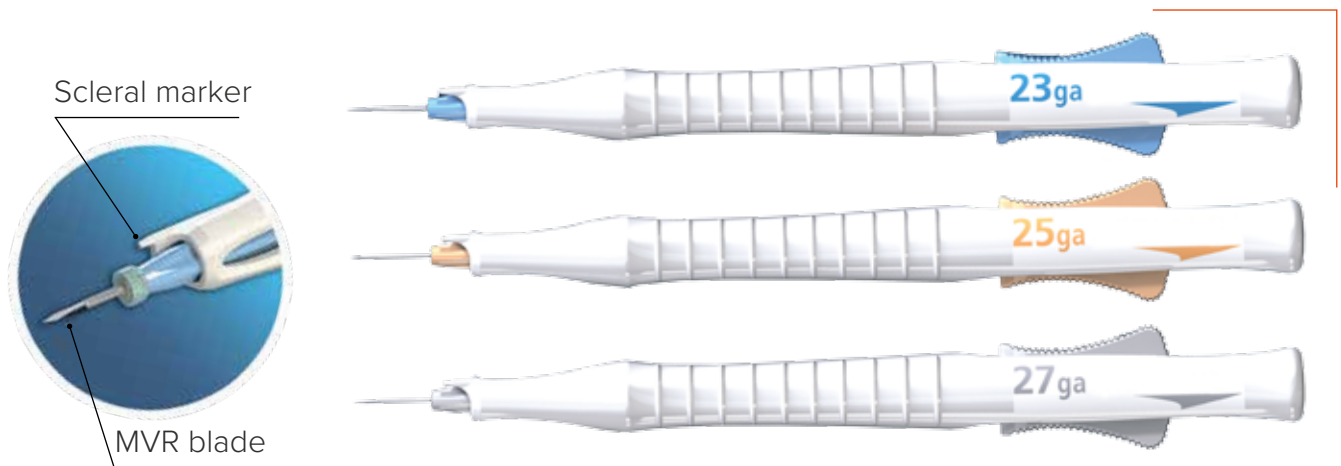
### Watzke Sleeve Spreading Forceps

- Used to stretch the silicone sleeve placed around the eyeball

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

4-2201T

## DISPOSABLE TROCAR SYSTEMS



### NEW Marker

Scleral marker at the distal part of the handpiece allows for making the incision right after marking without turning the instrument.

### Improved Retractable Blade

Modified spear point (MVR style) blade helps create a smooth incision and provides for low pressure insertion and superior sealing.

### Self-Sealing Cannulas

Stainless steel cannulas are equipped with redesigned beveled silicone valves, that eliminate need for plugs and promote easy instrument insertion.

### High-Flow Infusion

RUMEX stainless steel cannula is designed to work with a high flow infusion tube connection, offering the maximum diameter channel possible for infusion flow.

### Available in 23/25/27 Ga

Item	Description
RMTR.23	Disposable One Step Trocar System, 23 Ga
RMTR.25	Disposable One Step Trocar System, 25 Ga
RMTR.27	Disposable One Step Trocar System, 27 Ga

## VITRECTOMY CUTTERS

### 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

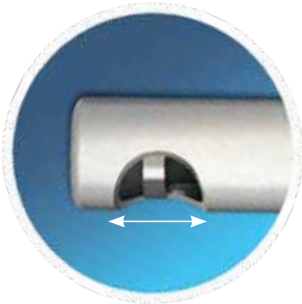
### Disposable: posterior

	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

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

# BI-BLADE CUTTERS – REVOLUTIONARY PRODUCT

The best choice for vitreoretinal surgery



two cuts in one motion



## Constant Aspiration Flow

Highly mobile bi-directional blade keeps the port open throughout the entire cutting cycle ensuring constant aspiration flow and increasing the efficiency of vitreous removal.

## Double Cutting Rate

Cutting action on both forward and backward strokes of the probe creates the speed up to 16,000 cpm (standard speed is 8,000 cpm).

## Various Gauges

Cutters are available in 23/25/27 Gauges, compatible with major brands.

Item	Description	Type of Machine
RMVIT.23CON	23 Ga Bi-blade cutter; 16,000 cpm	Constellation, Alcon (compatible)
RMVIT.25CON	25 Ga Bi-blade cutter; 16,000 cpm	
RMVIT.27CON	27 Ga Bi-blade cutter; 16,000 cpm	
RMVIT.23STEL	23 Ga Bi-blade cutter; 16,000 cpm	Stellaris PC, Bausch+Lomb (compatible)
RMVIT.25STEL	25 Ga Bi-blade cutter; 16,000 cpm	
RMVIT.27STEL	27 Ga Bi-blade cutter; 16,000 cpm	
RMVIT.23EVA	23 Ga Bi-blade cutter; 16,000 cpm	EVA, D.O.R.C. (tubing)
RMVIT.25EVA	25 Ga Bi-blade cutter; 16,000 cpm	
RMVIT.27EVA	27 Ga Bi-blade cutter; 16,000 cpm	

## BACKFLUSH HANDLES



### Titanium Backflush Handle

Active Aspiration

12-6000



### Titanium Backflush Handle

Passive Aspiration

12-6010



### 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

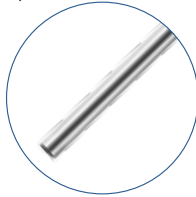


### Charles Flute Cannulas

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
12-5492	27 Ga

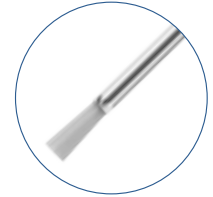


### Brush Tip Cannulas

For atraumatic brushing of retina.

Disposable, 5 per box

12-5017	20 Ga
12-5162	23 Ga
12-5160	25 Ga

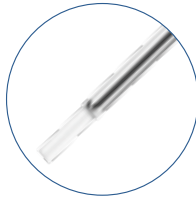


### Soft Tip Cannulas

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



## DUAL BORE CANNULAS

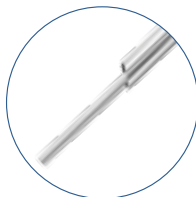
For simultaneous infusion and aspiration of liquids.

### 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)
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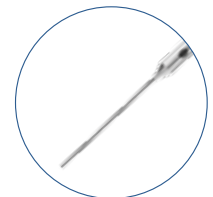


### Dual Bore BSS Injection Needle

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
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## INFUSION CANNULAS

Reusable:

Infusion Cannula

12-024	20 Ga	2.50 mm
12-025	20 Ga	4.00 mm
12-026	20 Ga	6.00 mm

Disposable:

Self-Retaining Silicone Oil Cannula

12-5165	23 Ga	4.00 mm	5 per box
12-5222	23 Ga	6.00 mm	5 per box



## 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/cm <sup>3</sup>
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



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

\*Not available in the US

## 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
Oerlti® 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
Oerlti® Orbit™, Faros™, OS3™	12-DTUB-4



### Viscous Fluid Injection Cannula

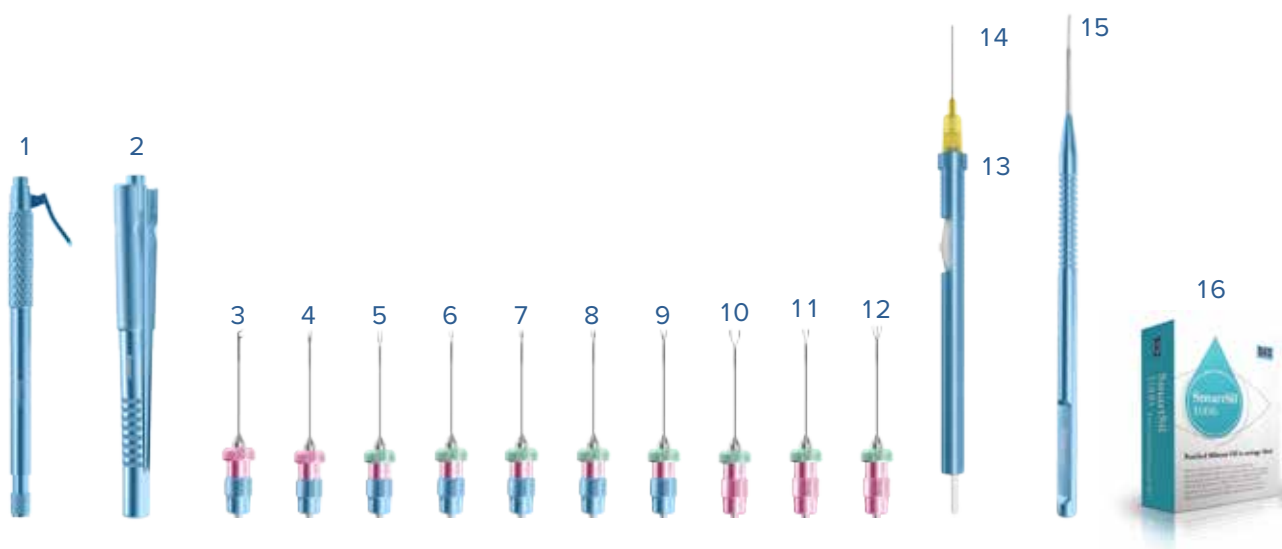
10 mm polyimide tip allowing injection of viscous fluids such as silicone oil through 23 Ga trocar cannula

Disposable, 5 per box

12-5248      23 Ga



## SET OF VITREORETINAL INSTRUMENTS, 20 GAUGE



Reference	Key	Description
12-001T	1	Universal Instrument Handle, One Finger Control
12-003T	2	Universal Instrument Handle, Squeeze Model, Two Fingers Control
12-202	3	Vertical Vitreoretinal Scissors, 20 Ga, Tip only
12-209	4	Curved Subretinal Scissors, 20 Ga, Tip only
12-410	5	Eckardt End Gripping Forceps, 20 Ga, Tip only
12-411	6	Tano Asymmetrical End Gripping Forceps, 20 Ga, Tip only
12-301	7	Vitreoretinal Forceps with a Diamond Dusted Platform, 20 Ga, Tip only
12-304	8	Gripping Forceps with a "Crocodile" Platform, 20 Ga, Tip only
12-325	9	Pick Vitreoretinal Forceps, 20 Ga, Tip only
12-335	10	Stolyarenko Forceps for Large Foreign Bodies, 20 Ga, Tip only
12-313	11	Vitreoretinal Forceps With Cup Jaws, 20 Ga, Tip only
12-321	12	Spring Gripping Forceps, 20 Ga, Tip only
12-6000	13	Titanium Backflush Handle Active Aspiration
12-5063	14	Soft Tip Cannula, 20 Ga, 5 per box
13-092	15	Membrane Scratcher, 20 Ga
SmartSil 1000	16	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt

### DON'T FORGET TO BUY

Two racks tray

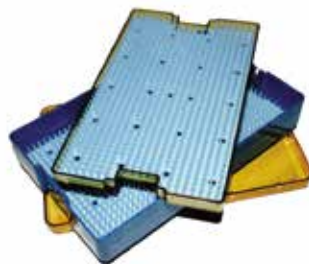
with silicone finger tip mat

Two levels base and insert tray

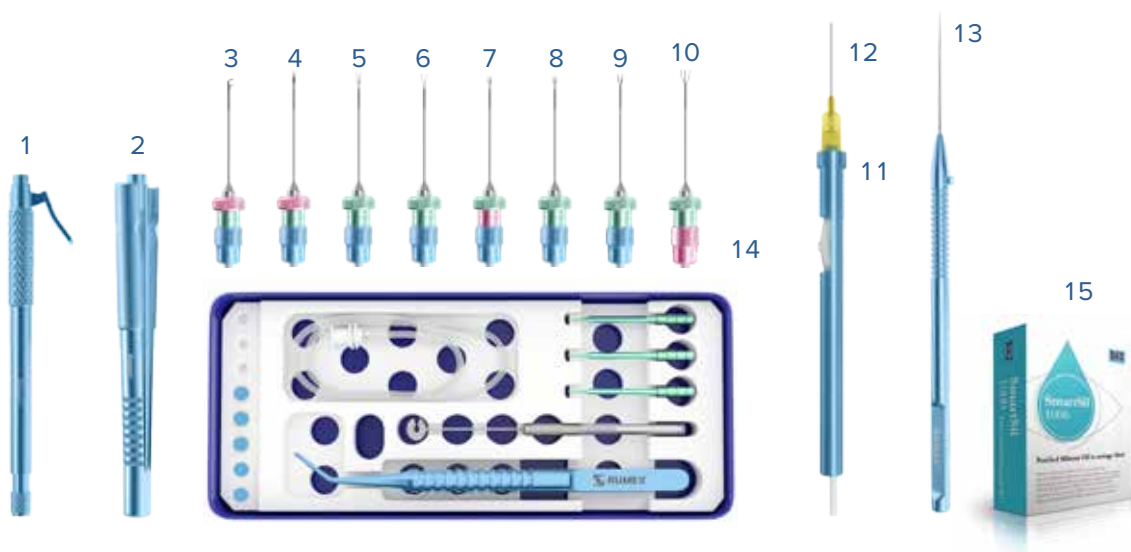
254×152.4×38 mm

10.00×6.00×1.50 in

18-305 extra large



## SET OF VITREORETINAL INSTRUMENTS, 23 GAUGE



Reference	Key	Description
12-001T	1	Universal Instrument Handle, One Finger Control
12-003T	2	Universal Instrument Handle, Squeeze Model, Two Fingers Control
12-202-23	3	Vertical Vitreoretinal Scissors, 23 Ga, Tip only
12-209-23	4	Curved Subretinal Scissors, 23 Ga, Tip only
12-410-23	5	Eckardt End Gripping Forceps, 23 Ga, Tip only
12-4013	6	End Grasping Forceps, Expanded Space between Branches, 23 Ga, Tip only
12-301-23	7	Gripping Forceps with a Diamond Dusted Platform, 23 Ga, Tip only
12-304-23	8	Vitreoretinal Forceps with a "Crocodile" Platform, 23 Ga, Tip only
12-325-23	9	Pick Vitreoretinal Forceps, 23 Ga, Tip only
12-321-23	10	Spring Gripping Forceps, 23 Ga, Tip only
12-6000	11	Titanium Backflush Handle Active Aspiration
12-5161	12	Soft Tip Cannula, 23 Ga, 5 per box
13-097-23	13	Delicate Membrane Pick, 23 Ga
12-5173-23	14	Reusable Trocar System, 23 Ga
SmartSil1000	15	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt

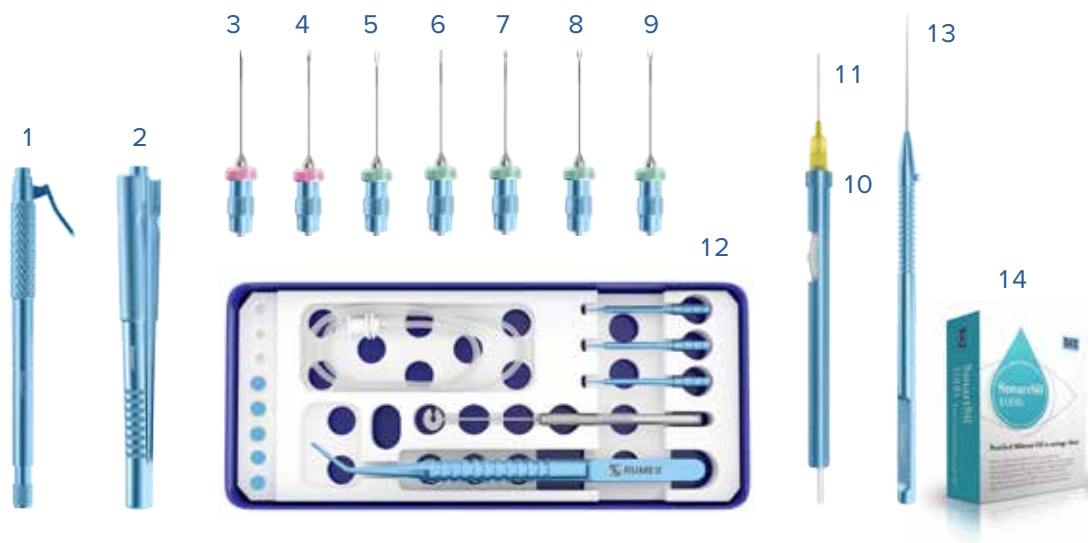
### DON'T FORGET TO BUY

#### Bi-Blade Vitrectomy Cutter

23 Ga  
16,000 cpm  
compatible with Constellation/Stellaris PC/EVA  
see page 20 for details



## SET OF VITREORETINAL INSTRUMENTS, 25 GAUGE



Reference	Key	Description
12-001T	1	Universal Instrument Handle, One Finger Control
12-003T	2	Universal Instrument Handle, Squeeze Model, Two Fingers Control
12-2029	3	Vertical Vitreoretinal Scissors, 25 Ga, Tip only
12-2099	4	Curved Subretinal Scissors, 25 Ga, Tip only
12-410-25	5	Eckardt End Gripping Forceps, 25 Ga, Tip only
12-420-25	6	End Grasping Forceps, 25 Ga, Tip only
12-3019	7	Vitreoretinal Forceps with a Diamond Dusted Platform, 25 Ga, Tip only
12-304-25	8	Vitreoretinal Forceps with a "Crocodile" Platform, 25 Ga, Tip only
12-3259	9	Pick Vitreoretinal Forceps, 25 Ga, Tip only
12-6000	10	Titanium Backflush Handle with Active Aspiration
12-5160	11	Brush Tip Cannula, 25 Ga, 5 per box
12-5173-25	12	Reusable Trocar System, 25 Ga
13-0979	13	Delicate Membrane Pick, 25 Ga
SmartSil 1000	14	Purified Silicone Oil for Retinal Endotamponade, 1000 cSt

### DON'T FORGET TO BUY

#### Bi-Blade Vitrectomy Cutter

25 Ga  
16,000 cpm  
compatible with Constellation/Stellaris PC/EVA  
see page 20 for details



## CARE AND CLEANING OF VITREORETINAL AND MICROINCISIONAL INSTRUMENTS

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

The intraocular tips have a delicate precision mechanism inside. Intraocular fluids will enter this mechanism 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.

Ensure the cleaning procedure is implemented after each surgery — warranty shall not extend to instruments that have been improperly handled.

### Cleaning

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

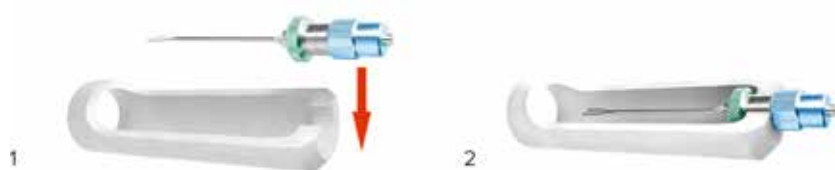


3. Flush the tip with alcohol. This will remove the water and facilitate drying.
4. Dry the tip by forcing one or two syringes full of air through tip. Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air. Thoroughly dry handle, tip and cup.
5. Force 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.

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.

## 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		"Flash" Autoclaving	
	Gravity Displacement	Prevacuum	Gravity Displacement	Prevacuum
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

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.





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