**RUMEX** best-selling instruments are now available in a single-use edition. Doctors around the world choose to perform the surgeries using RUMEX single-use instruments because they are:

**SAFE.** Single-use instruments eliminate the risk of cross-contamination;

**RELIABLE.** High-quality stainless steel and heat-resistant plastics are used in production;

**COST-EFFECTIVE.** No additional expenses on sterilizing equipment and repairs needed; considerably reduced price due to the composition of materials.

The range of RUMEX single-use instruments is designed to assist surgeons in various procedures on both anterior and posterior segments of the eye. The most commonly used items are available from stock.

**SAFE. RELIABLE. COST-EFFECTIVE.**
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HYDROPHOBIC IOLs

AquaFree Yellow Aspheric Hydrophobic*

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. incision size</td>
<td>2.2 mm</td>
</tr>
<tr>
<td>Power range</td>
<td>0D .. +30D</td>
</tr>
<tr>
<td>Overall diameter</td>
<td>13.0 mm</td>
</tr>
<tr>
<td>Optic diameter</td>
<td>6.0 mm</td>
</tr>
<tr>
<td>Self-unfolding</td>
<td>Yes</td>
</tr>
<tr>
<td>Water content</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Angulation</td>
<td>0°</td>
</tr>
<tr>
<td>Material</td>
<td>Natural Yellow Hydrophobic Acrylic</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.5</td>
</tr>
<tr>
<td>A-constant</td>
<td>118.7</td>
</tr>
<tr>
<td>A-constant for ultrasound</td>
<td>118.4</td>
</tr>
<tr>
<td>UV Filter</td>
<td>Yes</td>
</tr>
<tr>
<td>Shelf life</td>
<td>5 years</td>
</tr>
</tbody>
</table>

AquaFree Yellow Aspheric Hydrophobic IOL is also available preloaded in the Accuject™ injection system. Push-type injector allows implantation within less than 5 seconds.

Advantages

- Increased contrast sensitivity
- Easy to inject, excellent folding and unfolding ability
- Not tacky – lens does not stick to itself or instruments
- No spherical aberrations

Minimized glare and unwanted images

*Not for sale in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change.
**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**

<table>
<thead>
<tr>
<th>Type</th>
<th>Dispersive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>2% HPMC</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>86 000 Da</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3000-4500 cSt</td>
</tr>
<tr>
<td>pH</td>
<td>6.0–7.8</td>
</tr>
<tr>
<td>Osmolality</td>
<td>250–350 mOsmol/kg</td>
</tr>
<tr>
<td>Volume</td>
<td>2 ml</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3 years</td>
</tr>
</tbody>
</table>

**Advantages**

- highly dispersive
- the best endothelial protection
- easy removal
- completely transparent
- no refrigeration necessary
- easy transportation and storage (2–35 °C)

**Dispersive Solution**

Supreme is used to:

- coat ocular structures during cataract surgery: in the initial part, during capsulorhexis and phacoemulsification, and during ultrasound
- protect corneal endothelium in an eye where endothelium pathology is suspected

---

*Not for sale in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

OVDs

COHESIVE OVDs

SMARTVISC / SMARTVISC PLUS*
Ophthalmic Viscosurgical Device

SmartVisc and SmartVisc Plus are cohesive viscoelastic solutions of high molecular weight used for intraocular injection during anterior segment surgery of the eye.

Physico-chemical properties

<table>
<thead>
<tr>
<th></th>
<th>SmartVisc</th>
<th>SmartVisc PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>Sodium Hyaluronate 1.6 %</td>
<td>Sodium Hyaluronate 3.0 %</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>1.2–2.0 m Da</td>
<td>1.0–1.8 m Da</td>
</tr>
<tr>
<td>Viscosity</td>
<td>approx. 80 000 mPas</td>
<td>approx. 400 000 mPas</td>
</tr>
<tr>
<td>Osmolality</td>
<td>270–400 mOsmol/kg</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>2–25ºC</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>6.8–7.4</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>1.00 ml</td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3 ½ years</td>
<td></td>
</tr>
</tbody>
</table>

Advantages

- no refrigeration necessary
- good maintenance of anterior chamber depth and the capsular bag
- controlled capsulorhexis
- easy implantation
- better adhesiveness on the corneal endothelium during phacoemulsification
- favorable environment to ophthalmic surgery
- excellent protection against mechanical damages
- steam sterilized

Cohesive Solution

SmartVisc is used to:

- maintain space and pressure in the eye
- keep the empty capsular bag open for IOL insertion
- support the anterior chamber and flatten the anterior capsule
- dilate small pupils
- dissect areas of adhesion

*Not for sale in the US
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE KNIVES

HIGH PRECISION DISPOSABLE KNIVES
WITH SAFETY SYSTEM

All knives are equipped with safety function lids

Paracentesis Knives
paracentesis/side port incisions
double bevel, angled
PK-11 1.10 mm

Angled option of paracentesis knife helps to avoid blocking the spot of intended incision.

Trapezoidal Knives
tunnel incisions
single bevel, angled
TR-10 1.20-1.40 mm
TR-17 1.50-1.70 mm

Absolutely smooth surface and anti-glare coating ensures the maximal Intraoperative comfort.

Side-Port Knives
initial stab incisions
double bevel, straight
SP-15 1.00 mm, 15°
SP-30 1.00 mm, 30°
SP-45 1.00 mm, 45°

Exquisite sharpness for effortless penetration and withdrawal.

Slit Knives
scleral tunnel incisions
single bevel, angled
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

Optimal design of cutting edges allows for performance of watertight corneal incisions.

Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE KNIVES

**Cataract**

**Clear Corneal Knives**
- Clear cornea incisions
- Double bevel, angled
  - CC-22: 2.20 mm
  - CC-24: 2.40 mm
  - CC-26: 2.65 mm
  - CC-27: 2.75 mm
  - CC-30: 3.00 mm

Ultra-thin profile reduces penetration force and contributes to re-epithelization.

**Clear Corneal Knives with Depth Indicators**
- Tunnel incisions
- Double bevel, angled
  - CCD-22: 2.20 mm
  - CCD-24: 2.40 mm
  - CCD-26: 2.65 mm
  - CCD-27: 2.75 mm

1.50 and 1.75 mm depth indicators of CCD-22 and 1.50, 1.75, 2.00 mm of CCD-24, CCD-26, CCD-27 ensure controlled diving.

**Glaucoma**

**Crescent Knives**
- Lamellar dissections/flap formation
- Single bevel, angled
  - CR-20: 2.00 mm

Facet-free blade for smooth flap formation.

**Pre-Set Knives**
- Groove making/limbal relaxing incisions
- Multifacet
  - PD-60: 600 μm depth

Pre-set style blade allows for fixed cutting depth of 600 microns and clear view of patient’s cornea.

**Vitreoretinal**

**MVR Knives**
- Posterior segment penetration/side port incisions
- Multifacet
  - VRS-19: 19 Ga, straight
  - VRS-20: 20 Ga, straight
  - VRS-23: 23 Ga, straight
  - VRS-25: 25 Ga, straight
  - VRA-19: 19 Ga, angled
  - VRA-20: 20 Ga, angled
  - VRA-23: 23 Ga, angled
  - VRA-25: 25 Ga, angled

Promotes safe and easy sclerotomy for vitreoretinal procedures.
SINGLE-USE PRODUCTS

DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT

IOL CARTRIDGES

Disposable Cartridge for IOL Injector*
Used with RUMEX reusable IOL Injector 16-2853

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

EYE SPEARS

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

- R2-40405

IRIS RETRACTORS

Safe and comfortable dilation and fixation of a rigid pupil.

Disposable Iris Retractors**
Strong yet flexible polypropylene hook for mechanical iris dilation
Vertical orientation for easy handling

- 10-5016-1
- 10-5067-1

BIMANUAL I/A HANDPIECES

Disposable Set of I/A Handpieces for Bimanual Technique**
New
Lightweight, color-coded handpieces.
Delicate tips allow easy access to all parts of the capsule and may be introduced through any side-port incision.

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

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

*Not for sale in the US and Europe
**Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT

SPECULUMS

Disposable Barraquer Wire Speculum
Adult Size
16 mm blades
Overall length 44 mm

FORCEPS

Perfectly aligned tips make every surgical manipulation safe and easy.

Utrata Capsulorhexis Forceps
Cystotome tips
Straight

Utrata Capsulorhexis Forceps
Cystotome tips
Curved

Bonn-Catalano Corneal Forceps
0.12 mm, 1×2 Teeth
Straight

Castroviejo Suturing Forceps
0.12 mm, 1×2 teeth
Straight

McPherson Tying Forceps
Angled

McPherson Tying Forceps
Curved

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SINGLE-USE PRODUCTS

DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT

SCISSORS

Unique blade sharpening technology allows controlled cutting of various tissues with minimal pressure applied.

- **Castroviejo Universal Corneal Scissors**
  - Blunt tips
  - 11-012D

- **Westcott Tenotomy Scissors**
  - Blunt tips
  - 11-040D

- **Vannas Capsulotomy Scissors**
  - Sharp tips
  - 11-052D

MANIPULATORS

Premium quality stainless steel ensures stiffness and flexibility of the working part.

- **Nagahara Phaco Chopper**
  - RHD
  - 7-063D

- **Rosen Phaco Chopper**
  - Universal
  - 7-065D

- **Drysdale Nucleus Manipulator**
  - Universal
  - 7-093D

- **Kuglen Iris Hook**
  - Angled
  - 5-030D

- **Sinskey Hook**
  - Angled
  - 5-032D

- **Lester Lens Manipulator**
  - Angled
  - 5-0331D

- **Spatula for Femtosecond Laser Procedure**
  - 20-204D
DISPOSABLE INSTRUMENTS FOR ANTERIOR SEGMENT

MICROINCISIONAL IOL REMOVING FORCEPS AND SCISSORS

Disposable Foldable Lens Removing Crocodile Type Forceps, 20 Ga, Stainless Steel

- designed for explantation of acrylic and silicone foldable intraocular lenses
- one-piece integral instrument provides a precise action
- crocodile type serrated jaws enable secure gripping of the IOL

Disposable Micro Foldable Lens Cutter, Straight Scissors, Blades with Notches, 19 Ga, Stainless Steel

- designed for explantation of acrylic and silicone foldable intraocular lenses
- one-piece integral instrument provides a precise action
- blades with delicate notches create traction and prevent IOL slipping while cutting
SINGLE-USE PRODUCTS

DISPOSABLE CANNULAS ANTERIOR SEGMENT*

ANTERIOR CHAMBER CANNULAS, RY Croft

Used for maintaining and forming the anterior chamber by injecting or removing air, fluids, viscoelastics and intraocular medications.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-R2023</td>
<td>23 Ga x 22 mm</td>
</tr>
<tr>
<td>21-R2030</td>
<td>30 Ga x 22 mm</td>
</tr>
<tr>
<td>21-R2027-8</td>
<td>27 Ga x 22 mm</td>
</tr>
</tbody>
</table>

VISCOELASTIC CANNULAS

Used for injecting viscoelastic to all meridians of the anterior chamber and to coat the intraocular lens.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-R2225</td>
<td>25 Ga x 22 mm</td>
</tr>
<tr>
<td>21-R2227</td>
<td>27 Ga x 22 mm</td>
</tr>
<tr>
<td>21-R2327</td>
<td>27 Ga x 22 mm</td>
</tr>
</tbody>
</table>

IRRIGATING CYSTOTOMES, PEARCE

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-R3027</td>
<td>27 Ga x 16 mm</td>
</tr>
</tbody>
</table>

IRRIGATION/ASPIRATION CANNULAS

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

Simcoe I&A Cannula
- Regular
- 0.3 mm port

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-R5623</td>
<td>23 Ga x 16 mm</td>
</tr>
</tbody>
</table>

*Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE CANNULAS ANTERIOR SEGMENT*

HYDRODISSECTION CANNULAS

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

Hydrodissector, Pearce
21-R4025 25 Ga x 22mm

Hydrodissector, Pearce
21-R4027 27 Ga x 22mm

Hydrodissector
21-R4427 27 Ga x 22 mm

CANNULAS FOR ANESTHESIA

Used for anesthetic agents administration during ophthalmic surgeries.

Retrobulbar Needle, Atkinson
For injecting anesthetic agents into the muscle cone.
21-R1125 25 Ga x 38 mm

Sub-Tenon’s Cannula
For administering anesthetic agents into the posterior Sub-Tenon’s space.
21-R1320 20 Ga x 25 mm

*Not for sale in Europe
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SINGLE-USE PRODUCTS

DISPOSABLE CANNULAS ANTERIOR SEGMENT*

LACRIMAL INTUBATION AND DACRYOCYSTORhinostomy (DCR)

Designed for surgical treatment, repair and irrigation of the nasolacrimal system.

**POPULAR**

Lacrical Intubation Set  
21-R7004  27 Ga x 110 mm

21-R7004RD  27 Ga x 110 mm, With Retrieval Device

Lacrical Intubation Set  
21-R7001  23 Ga x 175 mm

DCR Set  
21-R7011  20 Ga x 45 mm, Straight  
21-R7012  20 Ga x 45 mm, Angled (shown)

Lacrical Intubation Tubing  
21-R7002

LACRIMAL CANNULA

Used for probing and irrigating the lacrimal duct.

21-R7026  26 Ga x 28 mm

LASIK CANNULA, LINDSTROM

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

3 ports  
21-R7430  25 Ga x 25 mm

*Not for sale in Europe

Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE INSTRUMENTS FOR POSTERIOR SEGMENT

STAINLESS STEEL FORCEPS AND SCISSORS

All stainless steel instruments are manufactured as an integral tool with an intact inner spring mechanism that provides for precise performance and instant tactile control.

- **ILM**
  - **Eckardt End-Gripping Forceps**
    - 12-410-23D  23 Ga
    - 12-410-25D  25 Ga
  - **End-Grasping Forceps**
    - 12-420-23D  23 Ga
    - 12-420-25D  25 Ga

- **ERM**
  - **Gripping Forceps**
    - With a “crocodile” platform
    - 12-304-23D  23 Ga
    - 12-304-25D  25 Ga
  - **Gripping Forceps**
    - 12-301-23D  23 Ga
    - 12-301-25D  25 Ga

- **Pick Forceps**
  - 12-325-23D  23 Ga
  - 12-325-25D  25 Ga

- **Curved Scissors**
  - 12-209-23D  23 Ga
  - 12-209-25D  25 Ga

Product design and/or features that do not influence its functionality and main parameters are subject to change.
360° handle design incorporates a unique rotatability, convenience, and actuation.

The instrument’s weight is less than 8 grams. Lightweight plastic ergonomic handle especially valuable during hours-long surgeries.

**ILM**
- **Eckardt End-Gripping Forceps**
  - 12-410-23DP 23 Ga
  - 12-410-25DP 25 Ga
  - 12-410-27DP 27 Ga

**ERM**
- **Gripping Forceps**
  - With a “crocodile“ platform
  - 12-304-23DP 23 Ga
  - 12-304-25DP 25 Ga
  - 12-304-27DP 27 Ga

**Curved Scissors**
- 12-209-23DP 23 Ga
- 12-209-25DP 25 Ga
- 12-209-27DP 27 Ga

**Straight Scissors**
- 12-211-23DP 23 Ga
- 12-211-25DP 25 Ga
- 12-211-27DP 27 Ga

**Vertical Scissors**
- 12-202-23DP 23 Ga
- 12-202-25DP 25 Ga

*Not for sale in the US and Europe*
Product design and/or features that do not influence its functionality and main parameters are subject to change.
SINGLE-USE PRODUCTS

DISPOSABLE INSTRUMENTS FOR POSTERIOR SEGMENT

DIAMOND DUSTED RETRACTABLE ILM ELEVATORS*

Used to elevate membrane edge during vitreoretinal surgery.

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

Diamond dusted soft silicone tip is safe for retinal surface and provides an extreme grip.

Retractable version enables easy insertion through the trocar valves.

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.

- 23 Ga
- 25 Ga
- 27 Ga

Two connectors for either active or passive aspiration

with Silicone Brush Tip
- 12-5162H 23 Ga x 34 mm
- 12-5160H 25 Ga x 34 mm
- 12-5167H 27 Ga x 34 mm

with Blunt Tip
- 12-5164H 23 Ga x 34 mm
- 12-5156H 25 Ga x 34 mm
- 12-5492H 27 Ga x 34 mm

with Silicone Soft Tip
- 12-5161H 23 Ga x 34 mm
- 12-5152H 25 Ga x 34 mm
- 12-5491H 27 Ga x 34 mm

*Not for sale in Europe
Product design and/or features that do not influence its functionality and main parameters are subject to change.
DISPOSABLE TROCAR SYSTEMS

One Step Trocar System*
Disposable Trocar Systems with closure valves

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

12-5229
12-5244
12-5227

Sharp MVR Blade
Sharp MVR blade helps to create a smooth incision and provides for low-pressure insertion and superior sealing.

Trocar Cannulas
The innovative beveled design of the cannula ensures unstoppable smooth trocar insertion.

Removable self-sealing silicone valves ensure maintenance of the desired intraocular pressure throughout the case and eliminate the need for plugs and instrument exchanges during plug placement and removal.

Trocar Cannula Inserter
The tip of the plastic handle serves as a caliper/scleral marker.
(2 dimensions: 3.00 and 4.00 mm)

Universal Infusion Line for BSS

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

**SINGLE-USE PRODUCTS**

**DISPOSABLE VITREORETINAL CANNULAS**

**DUAL BORE CANNULA**

Simultaneous infusion of PFC and passive egress of BSS

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5203</td>
<td>23 Ga x 33 mm</td>
</tr>
<tr>
<td>12-5205</td>
<td>25 Ga x 33 mm</td>
</tr>
</tbody>
</table>

**CANNULAS FOR BACKFLUSH INSTRUMENTS**

Used for retrograde flushing of incarcerated tissue during aspiration of intraocular fluids in vitreoretinal ophthalmic surgeries.

**Soft Tip Cannulas**

Allows for atraumatic aspiration of subretinal fluid

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5161</td>
<td>23 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5152</td>
<td>25 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5491</td>
<td>27 Ga x 34 mm</td>
</tr>
</tbody>
</table>

**Brush Tip Cannulas**

Ideal for atraumatic brushing of retina

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5162</td>
<td>23 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5160</td>
<td>25 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5167</td>
<td>27 Ga x 34 mm</td>
</tr>
</tbody>
</table>

**Charles Flute Cannula**

Designed for debris and blood aspiration from the posterior segment

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Gauge x Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5164</td>
<td>23 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5156</td>
<td>25 Ga x 34 mm</td>
</tr>
<tr>
<td>12-5192</td>
<td>27 Ga x 34 mm</td>
</tr>
</tbody>
</table>

**DISPOSABLE REPLACEMENT RESERVOIRS FOR BACKFLUSH HANDLE**

**Replacement Reservoir for Backflush Handle**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5159</td>
<td>Active Aspiration</td>
</tr>
<tr>
<td>12-5147</td>
<td>Passive Aspiration</td>
</tr>
</tbody>
</table>

*Not for sale in Europe

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

**SILICONE OIL**

**SMARTSIL 1000/5000***
**Purified Silicone Oil for Vitreoretinal Surgery**

SmartSil 1000/5000 is used for prolonged tamponade after surgical treatment for severe retinal detachment.

- Maximum interfacial tension and minimum interactions between tissues, cells, and endo-tamponades media
- Optimal combination of specific gravity, refractive index and surface tension
- The choice of viscosity for a balance between easy injection and a stable temporary tamponade

**Physico-chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interfacial tension</td>
<td>≥ 40 mNm⁻¹ at 37°C</td>
</tr>
<tr>
<td>Density</td>
<td>0.97</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1000/5000 cSt</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.40</td>
</tr>
<tr>
<td>Volume</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Polydispersity</td>
<td>&lt;2.8</td>
</tr>
<tr>
<td>Volume of oil</td>
<td>10 ml</td>
</tr>
<tr>
<td>Syringe</td>
<td>20 ml</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>3 years</td>
</tr>
</tbody>
</table>

To be used with RUMEX Silicone Oil Infusion Systems 12-RTUB-1 (2,3 or 4)

**SILICONE OIL CANNULAS**

**Viscous Fluid Injection Cannula**

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5248</td>
<td>23 Ga x 4 mm</td>
</tr>
<tr>
<td>12-5258</td>
<td>25 Ga x 4 mm</td>
</tr>
</tbody>
</table>

*Not for sale in the US and Europe
**Not for sale in Europe

Product design and/or features that do not influence its functionality and main parameters are subject to change.
# DISPOSABLE LASER PROBES

Designed to perform endo-ocular laser photocoagulation treatment

<table>
<thead>
<tr>
<th>Surgical system/type of the probe</th>
<th>Straight</th>
<th>Curved</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMA 905 Connector: Alcon®, Zeiss®, COHERENT®, Ellex®</td>
<td>RLS-23A 23 Ga</td>
<td>RLC-23AZ 23 Ga</td>
<td>RLEX-23AZ 23 Ga</td>
</tr>
<tr>
<td></td>
<td>RLS-27AZ 27 Ga</td>
<td>RLC-27AZ 27 Ga</td>
<td></td>
</tr>
<tr>
<td>DORC®</td>
<td>RLS-23D 23 Ga</td>
<td>RLC-23D 23 Ga</td>
<td>RLEX-23D 23 Ga</td>
</tr>
<tr>
<td></td>
<td>RLS-27D 27 Ga</td>
<td>RLC-27D 27 Ga</td>
<td></td>
</tr>
</tbody>
</table>

**Color code**
- 23 Ga
- 25 Ga
- 27 Ga

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SINGLE-USE PRODUCTS

COMING SOON*

DISPOSABLE FIBER OPTIC PROBES
Used to illuminate the interior of the eye

![Diagram of a disposable fiber optic probe]

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

Color code
- 23 Ga
- 25 Ga
- 27 Ga

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SINGLE-USE PRODUCTS

COMING SOON*

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

<table>
<thead>
<tr>
<th>Surgical system/type of the probe</th>
<th>Standard</th>
<th>Dual Fiber</th>
<th>with preloaded Trocar and Inserter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcon®</td>
<td>12-4563 23 Ga</td>
<td>12-4526 25 Ga</td>
<td>12-5223 23 Ga</td>
</tr>
<tr>
<td></td>
<td>12-5225 25 Ga</td>
<td>12-6327 27 Ga</td>
<td></td>
</tr>
<tr>
<td>B&amp;L®</td>
<td>12-4573 23 Ga</td>
<td>12-4545 25 Ga</td>
<td></td>
</tr>
<tr>
<td>Oertli®</td>
<td>12-4593 23 Ga</td>
<td>12-4543 25 Ga</td>
<td>12-5543 23 Ga</td>
</tr>
<tr>
<td>BVI® (OPTIKON)</td>
<td>12-4583 23 Ga</td>
<td>12-4535 25 Ga</td>
<td>12-5533 23 Ga</td>
</tr>
<tr>
<td>Synergetics®</td>
<td>12-4553 23 Ga</td>
<td>12-4525 25 Ga</td>
<td></td>
</tr>
</tbody>
</table>

*Products in the process of development and certification
Product design and/or features that do not influence its functionality and main parameters are subject to change.
# DISPOSABLE VITRECTOMY CUTTERS

Help to efficiently cut and aspirate vitreous

*Products in the process of development and certification
Product design and/or features that do not influence its functionality and main parameters are subject to change.

<table>
<thead>
<tr>
<th>Surgical system/ type of the cutter</th>
<th>Single Cut</th>
<th>Speed/Pressure</th>
<th>Double Cut</th>
<th>Speed/Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcon®: Accurus®; DORC®: Associate®</td>
<td>RV-23AC 23 Ga</td>
<td>Speed: 2000 CPM Pressure: 42 PSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-25AC 25 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B&amp;L®: Stellaris®</td>
<td>RV-23BF 23 Ga</td>
<td>Speed: 5000 CPM Pressure: 42 PSI</td>
<td>RV-23BFd 23 Ga</td>
<td>Speed: 10000 CPM Pressure: 42 PSI</td>
</tr>
<tr>
<td></td>
<td>RV-25BF 25 Ga</td>
<td></td>
<td>RV-25BFd 25 Ga</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-27BF 27 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oertli®: OS4®</td>
<td>RV-23OS 23 Ga</td>
<td>Speed: 5000 CPM Pressure: 35-37 PSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-25OS 25 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-27OS 27 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BVI® (OPTIKON): R-Evo Smart® CR</td>
<td>RV-23OB 23 Ga</td>
<td>Speed: 5000 CPM Pressure: 30 PSI</td>
<td>RV-23OBd 23 Ga</td>
<td>Speed: 10000 CPM Pressure: 30 PSI</td>
</tr>
<tr>
<td></td>
<td>RV-25OB 25 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-27OB 27 Ga</td>
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</tr>
<tr>
<td></td>
<td>RV-25OZ 25 Ga</td>
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</tr>
<tr>
<td></td>
<td>RV-27OZ 27 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DORC®: EVA®</td>
<td>RV-23GC 23 Ga</td>
<td>Speed: 8000 CPM Pressure: 42 PSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-25GC 25 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RV-27GC 27 Ga</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Color code**
- 23 Ga
- 25 Ga
- 27 Ga
SINGLE-USE PRODUCTS

COMING SOON*

HYDROPHILIC IOLs

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
- Angulation 5° – reduced risk of secondary cataract development
- Double square edge – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut (LC) 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
- Better performance of visual acuity
- 360° Posterior square edge – reduced risk of PCO**
- Anterior round edged polishing helps to avoid glares
- Dual 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
- Angulation 5° – reduced risk of secondary cataract development
- Double square edge – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut (LC) method – no glistenings
- UV filter

Supplied preloaded in a cartridge in a container with liquid

*Products in the process of development and certification
**Posterior Capsule Opacification
Product design and/or features that do not influence its functionality and main parameters are subject to change.
**SINGLE-USE PRODUCTS**

**COMING SOON**

**HYDROPHILIC IOLs**

**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
- Angulation 5° – reduced risk of secondary cataract development
- Double square edge – no posterior capsule opacification caused by cellular migration
- Manufactured by the lathe-cut (LC) method – no glistenings
- UV-filter

**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
- 360° Square Edge – 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 cartridge in a container with liquid 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 1-piece lenses
- Complete control of every step of lens injection
- Soft-tip technology

*Products in the process of development and certification*
SINGLE-USE PRODUCTS

COMING SOON*

PFO LIQUID

VitreoOcta
Perfluorooctane liquid for vitreoretinal surgery (PFO)

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

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

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

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

VitreoBluePlus
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

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