# PRODUCT CATEGORIES OVERVIEW

## PARTNERS, MANUFACTURERS AND SUPPLIERS

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## PARTNERS, MANUFACTURERS AND SUPPLIERS

### Strategic &/or Exclusive Partners
- Farmagea
- Fritz Ruck
- Lerneation
- Medcent
- Medimart
- Ophthalmica
- Opti-Vision
- Prima Medical
- Prime Medical
- Rumex
- Salvin
- Sidapharm
- SteriMedix
- Surgistar
- Tecfen Medical
- VSY Biotechnology

### Non-Exclusive Suppliers
- Akacia Medical
- AJL
- Alpha Medical
- AMT Life Sciences
- BSS Solution
- Cannulas & Needles
- CXL - Corneal Cross-Linking
- Diagnostic consumables
- Diathermy
- Drapes
- Dry Eye
- Dyes
- Equipment
- Gloves
- IOLs and Lens Injectors
- Keratoprosthesis
- Knives
- Membrane Polishers
- Miscellaneous
- Oil
- OVD / Viscoelastics
- Phaco & I/A
- Probes - Laser & Illumination
- Qube® pro Consumables
- Trocar Sets
- Vitrectomy Cutter
**RUCK: THE SMART SYSTEM FOR PHACO AND VITRECTOMY**

- Qube® pro anterior posterior surgery system
- Qube® pro consumables

**OMESIS: THE HIGH PERFORMANCE, MODULAR GREEN LASER PHOTOCOAGULATION AND LED LIGHT SOURCE MACHINE**

- Fenix 532D laser & light machine
- Fenix 532D consumables

**PRODUCT CATEGORIES**

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**THE SMART SYSTEM:** The unique and innovative surgery system - designed for the anterior and posterior eye segment

**STATE OF THE ART | MADE IN GERMANY**

**DEVICE**
- **Dimensions:** 320 x 450 x 380mm (w x h x d)
- **Weight:** 30kg
- **Power supply:** 100–240VAC; 50–60Hz; 250W; 4.0A
- **Compressed air supply:** 400–1,000kPa (4–10bar); 60l/min
- **Moisture proof:** IP21
- **Display:** 12 inch (30.5cm) touch screen; resolution 800 x 600 pixel

**TECHNICAL DATA**

**Phacoemulsification:**
- **Resonance frequency:** 40 ±2kHz
- **Phaco modes:** Constant, Pulsed “Qubic Phako”, “Width Phako”

**Irrigation/Aspiration**
- **Irrigation:** 100cm
- **Aspiration:** Venturi pump 650mmHg (at zero level)
- **Gravitative or infusion pressure control (IPC)**
- **Auto backflush**

**Diathermy**
- **Bipolar diathermy**
- **Connection power:** 9W/50^; 2MHz

**Pneumatic cutter**
- **60–7,500 cuts/min (single line)**
- **120–15,000 cuts/min with Bi-Blade™ cutter (single line)**

**Air/Fluid Exchange (AFX)**
- **Pressure:** 5–120mmHg

**Oil infusion (VFI)**
- **5.5 bar**

**ELECTRICAL INFUSION POLE**
- **Length:** 1,600 to 2,600mm (height be limited)
- **Weight:** 3.8kg
- **Load capacity:** max. 4kg

**FOOTSWITCH**
- **Dimension:** 319 x 295 x 143mm (w x h x d)
- **Weight:** 4kg
- **Dual-linear multifunctional footswitch with 8 bumpers**
- **Pedal with proportional output signal both vertically and horizontally**
- **Programmable braking points for tactile feedback**
- **5m cord**

**CART**
- **Dimensions:** 605 x 945 x 960mm (w x h x d) incl. instrument tray
- **Weight:** 52kg

**MANUFACTURER**
Fritz Ruck Ophthalmologische Systeme GmbH
Ernst-Abbe-Str. 30 b, 52249 Eschweiler, German
Phaco handle

- Titanium handle, only 155g lightweight and ergonomic grip design
- Usage: reusable

Phaco Needle Sleeve Set

- Needle, Sleeve and Test Chamber in 19G, 20G, 21G and 23G
- Usage: single use

I/A Handle Set, bimanual

- Bimanual Handle for Irrigation and Aspiration in 20G and 21G
- Usage: single use

I/A Handle, monomanual

- Monomanual Handle for Irrigation and Aspiration in 19G
- Usage: reusable

Vitrectomy Cutter

- Bi-Blade™ Cutting rates up to 15,000 cuts/minute (bi-directional) in 23G & 25G
- Usage: single use

Air-/Fluid Exchange Set (AFX)

- Set for Air and Fluid Exchange
- Usage: single use

Qube® pro Cassette Set

- Cassette Set available in two variants. Single use and day cassette both with infusion Pressure Control (IPC)
- Usage: single use or ‘Day Cassette’

Sleeve Set

- Sleeve and Test Chamber in 19G, 20G, 21G and 23G
- Usage: single use

I/A Handle Set, bimanual

- Bimanual handles for Irrigation or Aspiration in 20G and 21G
- Usage: reusable

Bipolar Diathermy Handles

- Diathermy Forceps and Diathermy pens and probes in 18G, 20G, 23G and 25G
- Usage: reusable

Trocar Set, One-Step

- 3 Trocars with Fixation Plate, Valves and VFI Cannula in 23G and 25G
- Usage: single use

Viscous Fluid Injection (VFI)

- Tubing Set for Viscous Fluid Injection
- Usage: reusable
THE HIGH-PERFORMANCE, STAND-ALONE GREEN LASER PHOTOCOAGULATOR AND LED LIGHT SOURCE

HIGH PERFORMANCE
• Compact green endolaser photocoagulation
• Integrated LED Light Source
• New generation laser-Thin disk technology
• Highest beam quality
• Quick power stabilization in the ms-impulse regime
• No peaks visible even in the on/off-phase of the pulse
• Maximum 3 watts power
• LIO and SLT compatible

TECHNICAL DATA

Laser source
High Technology THINDISC efficiency laser

Laser wavelength
532 nm green laser

Laser power
3000 mW high power laser. Software limited 1500 mw for safety and longer lifetime

Duration-interval pulse time
10 ms to 3000 ms

Laser aiming beam
640 nm visible low power laser (<3mW)

Laser cooling
Air-TEC cooling system with silent fan

Delivery system
Fenix endolaser probe connectors

Light source
High power cool white led

Size dimensions
310 mm x 120 mm x 291.7 mm (width x height x depth)

Weight
4.6 kg

Input power
100-240 Volt AC 50/60 Hz T 2.0 A fused

Optional accessories
SLT and LIO adaptors

FENIX 532D CONSUMABLES

Laser Probes
Non-illuminated or illuminated
• High quality fibre optic
• Perfect laser emission
• Fine-center-pointed fibre optic
• Ergonomic handpiece design
• Compatible with whole trocar systems
• Curved, stepped, straight
• 20g 23g, 25g, 27g
Endoillumination Probes

- Light pipe, wide angle, shielded and chandelier options 20g, 23g, 25g, 27g

**Wide Angle:**
- Intended use: General vitrectomy
- Supply 180° real wide angle illumination
- 20g, 23g, 25g, 27g options

**Shielded:**
- Intended use: General vitrectomy
- Supply wide angle illumination with a shield part at the cannula so it prevent reflection of light
- 20g, 23g, 25g, 27g options

**Light Pipe:**
- Intended use: Macula surgery (membrane peeling)
- Perfect solution for focal illumination with focused illumination. 20g, 23g, 25g, 27g options

**Chandelier:**
- Intended use: General vitrectomy, bimanual surgery technique
- Suitable with trocar or transscleral technique. Supply wide angle illumination. 23g, 25g, 27g options
CANNULAS AND NEEDLES

**Cystotomes**
- Irrigating, formed, 16mm tip
- 25G, 27G

**Anterior Chamber**
- Viscoelastic
- Formed, angled 22mm
- 25G, 27G

- Rycroft / Air, Angled tip
  - 23G, 4mm; 25G, 8mm
  - 27G, 4mm; 27G, 8mm
  - 7G, 10mm; 30G, 4mm;
  - 30G, 6mm, 25G, 5mm,
  - 27G, 5mm, 27G, 10mm

**Hydrodissectors**
- Angled flat tip, 8mm tip

Curved, flat tip:
- horizontal tip; vertical tip
- 27G

- “J” Shaped, vertical flat tip
- 27G

**Anaesthesia**
- Retrobulbar, straight Atkinson tip
  - 38mm tip
  - 25G

- Subtenon, 22mm tip
  - 19G

- Peribulbar, straight, Atkinson tip
  - 25G, 22mm tip
  - 25G, 32mm tip

**Lachrymal**
- 26G, 28mm
  - 21G, 33mm

**Capsule Polisher**
- Posterior, 21G, angled
  - 9mm, top port

**A/C MAINTAINERS**
- Screw tip 19G, 20G
- Ribbed tip, 20G
**VITREORETINAL CANNULAS AND POLISHERS**

- Blunt tip for general aspiration
- Silicone tip for aspiration retina surface
- Brush tip for gentle brushing of the retina
- Polymide tip for effective injection for silicone oil
- 27g, 25g, 23g, 20g sizes. High flow with thin-wall cannula design

### Cannula Silicone Tip 3MM
- Silicone tip 3mm, 32mm x 0.6mm
- 23G (also available in 20G & 27G)
- Silicone tip 3mm, 32mm x 0.5mm
- 25G (also available in 20G & 27G)

### Cannula Silicone Tip 1MM
- Silicone tip 1mm, 32mm x 0.6mm
- 23G (also available in 20G & 27G)
- Silicone tip 1mm, 32mm x 0.5mm
- 25G (also available in 20G & 27G)

### Cannula Blunt Tip
- Blunt tip, 32mm x 0.6mm
- 23G (also available 20G)
- Blunt tip, 32mm x 0.5mm
- 25G (also available 20G)
- Blunt tip, 32mm x 0.4mm
- 27G (also available 20G)

### VFI Cannula
- Metal tip 20G
- Metal tip, 8mm x 0.6mm
- 23G

### Dual Bore (Decaline) Cannulas
- (0.9/0.5mm) 20G/25G
- (0.64/0.3mm) 23G/30G
- (0.5/0.3mm) 25G/30G

### Membrane Polishers
- 23G, 25G
• **Electropolishing technology** for minimized micro-roughness, cleanability of surfaces and low contamination levels
• **Precision:** Diamond like sharpness and Exact Dimensions
• **Quality:** Matt anti-glare finish
• **Performance:** Incisions with accuracy and complete control
• **Smooth** incision for rapid healing
• Perfect **visibility of the blade** within the eye chamber

**Phaco Slit Knives**

- 2.20mm angled, sterile*
- 2.40mm angled, sterile*
- 2.60mm angled, sterile
- 2.75mm angled, sterile*
- 2.80mm angled, sterile*
- 3.00mm angled, sterile*
- 3.20mm angled, sterile*

**MVR Knives**

- 19G angled, sterile
- 19G straight, sterile
- 20G angled, sterile
- 20G straight, sterile
- 23G angled, sterile
- 23G straight, sterile

**Crescent Knives**

- Angled, sterile
- Straight, sterile

**Stab Knives**

- 15°, sterile
- 22.5°, sterile
- 30°, sterile
- 45°, sterile

**Implant Knives**

- 5.10mm angled, rounded tip, sterile
- 5.20mm angled, rounded tip, sterile
- Double bevel also available
Monofocals from VSY Biotechnology (Netherlands) and Sidapharm (Greece)
All Monofocal and Toric IOLs listed on Discovery Health’s approved supplier list

**Acriva® Hydrophobic Monofocal IOL**

*Aspheric, foldable intraocular lens*
- Optic Material: Hydrophobic surface, Co-polymer
- Aspheric foldable intraocular lens, acrylic with 25% water content
- Optic Size 6.0 mm
- Optic Design Biconvex
- Haptic Size 13.00 mm
- Haptic Design Modified C
- Balanced Modified C and Plate Designs also available
- Haptic Angle 0°
- Diopter Power Range: 0.00D to +32.00D
- Special Production: -20.00D to -0.50D and +32.50D to +45.00D

**Ocuva® Hydrophilic Monofocal IOL**

*Aspheric, foldable intraocular lens*
- Optic Material: Hydrophilic surface, acrylic, 26% water content
- Optic Size 6.00 mm
- Optic Design Bioconvex
- Haptic size: 12.50 mm
- Haptic Design Modified C
- Balanced Modified C Design also available
- Haptic Angle 0°
- Diopter Power Range: 0.00D to +32.00D

**VISCOJET™ - Eco 2.2 & 2.7 injector set**

*Eco 2.2:*
Incision size:
- Wound assisted 2.1-2.2mm; into-the-wound 2.4mm; into-the-bag 2.7-2.8mm

*Eco 2.7:*
Incision size:
- Wound assisted 2.3mm; into-the-wound 2.6-2.7mm; into-the-bag 2.9-3.0mm

**Orizon® Pre-Loaded Hydrophobic Monofocal IOL**

*Hydrophobic, Aspheric, One-piece, Foldable*
- Superb quality raw materials from Contamac, uses pre-molded blanks
- Cast molding technology
- Notches for smooth manipulation
- Optic Size 6.00 mm
- Optic Design Bioconvex
- Haptic size: 13.00 mm
- Haptic Design Modified C
- Haptic Angle 0°
- Diopter Range: 0.00 to +40.00D
Cohesive and Dispersive OVDS from VSY Biotechnology (Netherlands)

Features:
• Bio-Fermented Sodium Hyaluronate Production
• Non-Immunogenic
• Excellent Biocompatibility
• Non-Pyrogenic
• Outstanding Optical Clarity

Protectalon® Cohesive OVD

• 1.0%, 1.2%, 1.4%, 1.6%, 1.8%, 2.0%
• Supplied prefilled in glass syringes with 25g, bent tip, blunt cannula
• 1.1ml syringe of sodium hyaluronate dissolved in physiological buffer

Protectalon® Dispersive OVD

• 3.0%
• Supplied prefilled in glass syringes with 25g, bent tip, blunt cannula
• 1.1ml syringe of sodium hyaluronate dissolved in physiological buffer

Protectalon®

• Double Sterilization
• No refrigeration Required
• Wide Concentration Range
• 1.1ml High Filling Volume
• Latex-Free

BALANCED SALT SOLUTION (BSS)

A sterile physiological solution for use in irrigating ocular tissues of the eye

Available in:
• A two way volumetric 500ml plastic bottle with retractable, attached, hanging loop at the base. High quality non collapsible plastic
• A two way volumetric 500ml plastic bag
• 22ml dropper
Ophthalmic dyes are used as an aid in ocular surgery, particularly in vitreoretinal and cataract operations where transparent membranes need to be distinguished and visualized.

**TryBlue-S**

- Temporary staining of the anterior lens capsule during cataract surgery
- Sterile solution of trypan blue (0.10%) in buffered aqueous solution
- Supplied prefilled in a glass syringe
- Volume: 0.5 ml
- Available as 1 syringe per box or 10 syringes per box

**DuoBlue**

- Temporary staining of both the epiretinal membrane (ERM) and internal limiting membrane (ILM) during vitreoretinal procedures.
- Temporary staining of the anterior lens capsule during cataract surgery.
- Sterile solution containing 0.05% Brilliant Blue G and 0.01% trypan blue
- Supplied prefilled in a glass syringe
- Volume: 1 ml
- Available as 1 syringe per box or 10 syringes per box

**Intracinol (Triamcinolone Acetonide)**

- Used to pacify the vitreous humour to facilitate its surgical removal
- Sterile non-pyrogenic suspension containing: Triamcinolone acetonide, TS-polysaccharide, Sodium carboxymethyl cellulose, Sodium chloride, Polysorbate 80, Potassium chloride, Calcium chloride, Magnesium chloride, Sodium acetate, Sodium citrate, Water for injections
- Supplied in a glass vial
- Volume: 1.1 ml
- Available as 1 vial per box
- Preservative-free
Silicone Oils and Perfluorocarbon liquids

Silicone Oils and Insertion/Aspiration Sets

- Tamponade agent for retinal detachment
- High-purity silicone oil free of low-molecular-weight components.
- Available as 1 000 cSt, 2000 cSt or 5000 cSt Viscosity
- Supplied prefilled in a glass syringe
- Volume: 10.0ml
- Available as 1 syringe per box

Perfluorodecalin (Decalin)

- Perfluorocarbons (PFCL) used in retinal surgery as a transitory intra-ocular tamponade
- Sterile solution containing high purity
- Perfluorodecalin
- Supplied in a glass vial.
- Volume: 10.0ml
- Available as 1 vial per box

BACKFLUSH HANDLES

- Backflush handle passive
- Backflush handle active
- blunt tip active or passive
- silicone tip 1mm active or passive
- silicone tip 3mm active or passive
- brush tip active or passive

TROCAR SETS (ONE-STEP, VALVED)

Trocar Set Midlabs
- 23G, 25G, 27G
- MVR style blade – retractable - means low pressure insertion with minimal force, and a clean incision
- Cannula’s self-sealing silicone valve designed with a beveled cup for easy instrument insertion, and provides enhanced sealing and smooth extraction of instruments from the cannula
- Measuring and Marking Feature
- Molded caliper points allow for measurement and marking of 4mm or 3mm (nominal) from reference point
**Precision coagulation**
- Reusable, autoclavable
- Compatible with many vitrectomy systems with universal pin part
- Active aspirated option: 0.26mm aspiration lumen

### Endodiathermy Probes
- Endodiathermy Probe:

### Diathermy Pens
- Diathermy straight pen, bevelled, non-sterile, reusable
- Diathermy straight pen, non-sterile, reusable 23G, 25G

### Bipolar Forceps
- Diathermy hooked forceps
- Non-sterile, reusable
- Diathermy straight forceps
- Non-sterile, reusable

### Diathermy Cables
- Bipolar diathermy cable, non-sterile, reusable
- Diathermy Cable – Banana Connector
- Diathermy Cable – Erbe Connector

### Cauterries – Battery Operated
- High-temperature Cautery
- 33cm x 5.5cm, sterile, disposable
- Low-temperature Cautery
- 33cm x 5.5cm, sterile, disposable
CXL (CROSS-LINKING) SOLUTIONS

A range of Riboflavin (vitamin B2) solutions, used with UV-A light as a corneal collagen cross-linking surgical treatment for corneal ectasia such as keratoconus, PMD, and post-LASIK ectasia.

Ribotran

**Standard Riboflavin Isotonic Solution**
- Sterile solution containing Riboflavin (0.1%) and Dextran (20%)
- Supplied prefilled in a glass syringe
- Volume: 3.0ml
- Available as 1 syringe per box

Ribotran Iso (epi-off)

**Isotonic Solution for epi-off procedures**
- Sterile solution containing Riboflavin (0.1%), HPMC (1.0%)
- Supplied prefilled in a glass syringe.
- Volume: 3.0ml
- Available as 1 syringe per box

Ribotran Hypo (corneal swelling)

**Hypotonic solution for corneal swelling**
- Sterile solution containing Riboflavin (0.1%)
- Supplied prefilled in a glass syringe
- Volume: 2.0ml
- Available as 1 syringe per box

Ribotran TE (epi-on)

**Transepithelial solution for epi-on procedures**
*No removal of corneal epithelium necessary*
- Sterile solution containing Riboflavin (0.25%), HPMC (1.0%), BAC (0.007%)
- Supplied prefilled in a glass syringe
- Volume: 2.0ml
- Available as 1 syringe per box

CORNEAL PROTECT

**A sterile, pyrogen free, viscoelastic solution of highly purified, non-inflammatory hydroxypropyl methylcellulose (HPMC) solution**
- Hypromellose (2%), Sodium Chloride, Phosphate buffered saline
- Supplied prefilled in a glass syringe with one sterile cannula for single use
- Volume: 2.0ml
- Available in boxes of 10 syringes
The Visi-KPro is intended to be used in conjunction with a cornea transplant. Generally the Visi-KPro is only used in cases where several standard corneal transplants have failed. The aim of the Visi-KPro is to restore vision to patients with severe corneal afflictions, for whom the traditional method of corneal transplant has failed multiple times, or where sustained corneal clarity post-transplant is not viable.

### Visi-KPro Type I
- Polymethylmethacrylate (PMMA)
- Available in a 6.5mm diameter

### Visi-KPro Type II
- The type II format is reserved for severe end-stage ocular surface disease desiccation
- Polymethylmethacrylate (PMMA)
- Available in a 6.5mm diameter

### Visi-KPro Back Plate
- Perforated titanium back plate.
- Serves to allow diffusion of nutritive aqueous and to support donor graft stroma and keratocytes.
- Available in a 7.0mm diameter

### Temporary Visi-Kpro
- Available sizes: 8.0, 8.5, 9.0 & 10.0
VisiTears Lubricating Eye Drops

- VisiTears is an artificial tear solution that moistens the eye tissue. It is more viscous than regular saline drops and offer longer lasting protection. It can be used every day to hydrate the eye and provide continuous relief from dry and irritated eyes.
- Intended for relief from mild to moderate dry eye symptoms.
- Indications: Burning, itching eyes, irritated eyes, tired eyes, red eyes, dry eyes, eye discomfort, watery eyes
- 15 ml solution provided in a blue dropper bottle.
- Ingredients: CMC 0.50%, SCO as preservative

VisiTears Ultra Lubricating Eye Drops

- VisiTears Ultra is an artificial tear solution that moistens the eye tissue. It is more viscous, soothing and longer lasting than regular VisiTears eye drops. It can be used every day to hydrate the eye and provide continuous relief from dry and irritated eyes.
- Intended for relief from severe dry eye symptoms.
- Indications: severe dry eye symptoms, dry eye symptoms associated with Sjögren's syndrome, irritated, burning, itching, red, watery eyes, foreign body sensation
- 10 ml solution provided in a green dropper bottle.
- Ingredients: CMC 0.5%, HA 0,10%, Glycerine 0,90%, Erythritol 0,50% SCO as preservative

Blefavis Cleansing Wipes

- Blefavis® Wipes is an innovative product made by soaked wipes in liquid specifically designed for the daily cleaning of the sensitive and seborrheic eyelids and eyelashes. The product allows a gentle and refreshing cleansing, thanks to Aloe and Glycolic Mallow extracts, in addition to normalizing the bacterial load (which progressively inhibits the reforming of secretions)
- Blefavis® Wipes can be used both in adults and children. It is hypoallergenic with a pH equal to that of tears. Does not contain fragrances which may cause allergic reactions in sensitive people.

Sterile Pre-Loaded Punctum Plugs

- Longterm relief from dry-eye syndrome.Inserted into punctal opening to block tear drainage through the canaliculus.
- Longterm relief from dry-eye syndrome
- Inserted into punctal opening to block tear drainage through the canaliculus
- Available sizes: as 0.7mm; 0.8mm; 0.9mm

Lacrimal Punctum plugs (0.5mm, Medium Term, Dissolvable)

- Absorbable Punctum Plugs for occlusion therapy of the lacrimal drainage system lasting approximately 180 days. Lacrisolve® 180 is intended to temporarily treat the symptoms of dry eye disease, contact lens intolerance secondary to dry eye, and to increase efficacy of ocular medications and lubricants
**LATEX GLOVES**

Adopted by ophthalmic surgeons across the UK. Now available in South Africa. Developed in 2013 by the former leadership team of the world's most favoured brand of surgical glove.

**Leanvation® Eco glove**

- Sterile, powder-free latex surgical glove suited to a broad range of surgical specialties.
- Thickness: Finger 0.20mm; Palm 0.18mm; Cuff 0.14mm

**Leanvation® Sensitive glove**

- Sterile, powder-free latex surgical glove suited to surgical procedures demanding extreme levels of grip and heightened resistance to puncture.
- Thickness: Finger 0.24mm; Palm 0.22mm; Cuff 0.21mm

**OPHTHALMIC DRAPES**

Ophthalmic drapes custom-manufactured for Iso Clear and its clients.

- **Ophthalmic Drape with no aperture For cataract surgery**
  - 45cm (L) x38cm (W)
  - Adhesive size: 14cm x 18cm

- **Ophthalmic Drape with Aperture For cataract surgery**
  - 45cm (L) x38cm (W)
  - Adhesive size: 14cm x 18cm

- **Ophthalmic Drape For Posterior Surgery**
  - Double Pouch, No aperture
  - Adhesive: 14cm x 18cm

- **Lasik Drape**
  - Incise Size: 15cm (L) x 10 cm (W)