MICROINCISIONAL CATARACT SURGERY
Introduction

Cataract surgery has experienced a large transformation during the last decades. The driving force of this progress was the incision size reduction. The trend to diminish incision size contributed to the development of phacoemulsification machines, lasers and surgical tools. This evolution of eye surgery has led to the emergence of bimanual cataract surgery with incision size below 1.8 mm.

Today Micro-incision Cataract Surgery (MICS) is considered as the most advanced, pioneering surgery for treating cataracts.

Small size of instruments:
• helps to minimize surgically induced corneal astigmatism
• promotes better postoperative corneal optical quality
• allows better intraocular view.

Helping doctors all over the world to be in line with the latest innovations we at Rumex have developed a comprehensive range of top quality micro incision instruments for all principal techniques of cataract treatment. Our range includes instruments for traditional phacoemulsification as well as for femtosecond laser cataract procedures.
Introduction

Cataract surgery has experienced a large transformation during the last decades. The driving force of this progress was the incision size reduction. The trend to diminish incision size contributed to the development of phacoemulsification machines, lasers and surgical tools. This evolution of eye surgery has led to the emergence of bimanual cataract surgery with incision size below 1.8 mm.

Today Micro-incision Cataract Surgery (MICS) is considered as the most advanced, pioneering surgery for treating cataracts.

Small size of instruments:

• helps to minimize surgically induced corneal astigmatism
• promotes better postoperative corneal optical quality
• allows better intraocular view.

Helping doctors all over the world to be in line with the latest innovations we at Rumex have developed a comprehensive range of top quality micro incision instruments for all principal techniques of cataract treatment. Our range includes instruments for traditional phacoemulsification as well as for femtosecond laser cataract procedures.

CONTENTS

RUMEX MICS INSTRUMENTS: ADVANTAGES 4
CATARACT SURGERY 5
CAPSULORHEXIS FORCEPS 6
UNIVERSAL HANDLES 8
CAPSULORHEXIS FORCEPS, TIP ONLY 9
MULTI-PURPOSE FORCEPS 11
FEMTOSECOND CATARACT INSTRUMENTS 12
MICROSURGICAL SCISSORS 13
IOL COMPLICATIONS MANAGEMENT 14
CHOPPERS & MANIPULATORS 15
IRRIGATION/ASPIRATION, CAPSULE POLISHING 16
IOL & LENS INJECTION 17
CATARACT SET 1.80 MM INCISION 18
CATARACT SET 2.00 MM INCISION 19
Tip-only instruments

- Delicate tips, exquisite gripping/cutting function
- Anti-glare matte finishing
- Stiff and flexible stainless steel tube
- Rotating wheel to customize the position of a tip
- Flushing Adapter Provided with each tip free of charge!

Single-piece instruments

- A limiter restricts the opening, protecting the cornea from deformation
- Cross-action construction to minimize the incision
- Laser-engraved scale for more precise intraocular measurement
DIAMOND KNIVES

Side Port Diamond Knives

45° Single Edge
1.00 mm

Trifacet
1.00 mm

Phaco Diamond Knives

Self-Diving Trapezoid Blade

6-20/6-142 – 1.30/1.50 mm
6-20/6-143 – 1.50/1.80 mm
6-20/6-144 – 1.80/2.00 mm

Disposable Knives

Side Port Knife
Initial Stab Incisions
1.00 mm, 15°
Straight, Double Bevel

Slit Knife
Sceral Tunnel Incisions
1.80 mm
Angled, Single Bevel

ALL KNIVES ARE EQUIPPED WITH SAFETY LIDS

STERILE BOX OF 6
**CAPSULORHEXIS FORCEPS**

**4-0312S Microcoaxial Capsulorhexis Forceps**

Ultra-thin jaws and a limiter protect the incision from hyperextension and prevent corneal deformation. As a result, capsulorhexis can be performed even through a 2.00 mm incision.

**4-032S Microincisional Capsulorhexis Forceps With Limiter**

The limiter protects the cornea. In addition to it, the model has 2 engravings at 2.50 mm and 5.00 mm from the tip to measure the rhexis.

View-port provides optimal visualization, while ultra-thin vaulted shanks reach the anterior capsule within the limits of a 1.50 mm incision.
**CROSS ACTION CAPSULORHEXIS FORCEPS**

**4-0395 Cross-Action Capsulorhexis Forceps With Scale**

Cross-action mechanism prevents viscoelastics leakage and protects the incision from hyperextension.

Scale showing 2.50 and 5.00 mm from tip and lightweight titanium handle for more convenient use.

**4-0391S Capsulorhexis Forceps Inamula Style**

Recommended for coaxial phacoemulsification.

Cross-action tips prevent leakage of viscoelastic from the anterior chamber.
UNIVERSAL HANDLES

The two-piece instrument philosophy:

- enables the implementation of easy-to-clean procedure that helps to increase the longevity of an instrument
- allows a doctor to arrange a set of favorite tips that can be used with a single handle
- the optimal solution for money-wise customers

All instrument tips in this brochure are compatible with both handle types: 12-001T and 12-003T

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

Safe and easy adjustable mechanism

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)
Captions and descriptions:

**Capsularhexitis Forceps With Internal Ruler, 23 Ga**

- **4-0374**
  - 2 engravings at 3 and 6 mm

- **4-0375**
  - 6 engravings at 1, 2, 3, 4, 5 and 6 mm

Micro-jaws for superior mobility and laser marks for intraocular rhexis measurement

**Kershner One-Pinch Capsularhexitis Forceps, 23 Ga**

- **4-03731**
  - Extremely sharp jaws for one-pinch capsularhexitis through a side-port incision

- **4-03741**
  - Extremely sharp jaws of reduced length for enhanced maneuverability in the anterior chamber

**Lesieur Capsularhexitis Forceps With Internal Ruler, 23 Ga**

- **4-03742**
  - Shorter jaws facilitate gripping the capsule close to the wound. 7 laser marks for perfect sizing of the rhexis: 1.00, 2.00, 2.50, 3.00, 4.00, 5.00 and 6.00 mm

Compatible with 12-003T and 12-001T
CAPSULARHEXIS FORCEPS, TIP ONLY

**Fine-Ikeda Capsulorhexis Forceps, 23 Ga**

![Image of Fine-Ikeda Capsulorhexis Forceps, 23 Ga]

Shorter branches of 0.80 mm for capsulorhexis through a side-port incision

**Ikeda Micro Capsulorhexis Forceps, 23 Ga**

![Image of Ikeda Micro Capsulorhexis Forceps, 23 Ga]

Super-short branches of just 0.60 mm give more space during the operation

**Kawai Capsulorhexis Forceps, Tapered 23/25 Ga shaft**

The distal part of the shaft is 25 Ga to protect the incision from hyperextension
The proximal part of the shaft is 23 Ga to reinforce the construction

![Image of Kawai Capsulorhexis Forceps, Tapered 23/25 Ga shaft]

The construction of the forceps shows least adverse effect on the wound. Serrated tips provide secure grip of the capsule.

Compatible with 12-003T and 12-001T
Capsulorhexis Forceps with View Port, 23 Ga

Enhanced visibility though the port and high precision due to the laser-marked scale.

Intraocular Tying Forceps, 23 Ga

Micro-jaws for convenient intraocular suturing.

IOL Grasping Forceps, 21 Ga

Sand-blasted surfaces for efficient gripping of optic and haptic. Fenestrated jaws for better visualization and haptic manipulation.
FEMTOSECOND CATARACT INSTRUMENTS

4-0582S Forceps for Femtosecond Laser Cataract Procedure

Blunt-ended jaws facilitate quick and safe incision opening

20-2041 Donnenfeld Femto Spatula

Special flattened design of the tip helps to open femtosecond laser-created cataract incisions

7-1166S Yeoh Femtosecond Prechopper

Blunt atraumatic tips are ideal for complete nucleus separation during femtosecond laser cataract procedure. A limiter keeps incision within 2 mm.
MICROSURGICAL SCISSORS

11-03721 Zaldivar Iridectomy Scissors, 23 Ga

Can be used through paracentesis incision. The blades are curved for easy cutting and better visualization.

11-03741 Side Port Capsulotomy Scissors, 20 Ga
11-03751

Curved jaws provide efficient capsulotomy through a microincision

Compatible with 12-003T and 12-001T
**ROWEN RESCUE KIT**

**Micro Foldable Lens Cutter, 19 Ga**

![Micro Foldable Lens Cutter, 19 Ga](image)

Blades with notches hold the lens during cutting, which improves Cutter’s efficiency

**Rowen Rescue Kit Forceps, 20 Ga**

![Rowen Rescue Kit Forceps, 20 Ga](image)

Crocodile type jaws for safe IOL grip

**NEEDLE HOLDERS**

**Intraocular Needle Holder for IOL Suturing & Manipulation, 23 Ga**

![Intraocular Needle Holder for IOL Suturing & Manipulation, 23 Ga](image)

For IOL manipulation through a micro-incision

Compatible with 12-003T and 12-001T
CHOPPERS & MANIPULATORS

PHACO CHOPPERS

7-063 RHD*
Nagahara Phaco Chopper

7-064 LHD*

Smooth round tip can be used as a manipulator

*RHD: Right Hand
LHD: Left Hand

7-065
Rosen Phaco Chopper, Universal

Blunt distal part of the chopper is safe for the posterior capsule

LENS MANIPULATORS

5-030
Kuglen Iris Hook and Lens Manipulator

Design for push-pull technique

5-032
Sinskey Lens Manipulating Hook

Slim versatile tip

5-0331
Lester Lens Manipulator

"Hourglass" shaped tip for safe and controlled lens manipulation
Irrigation/Aspiration, Capsule Polishing

**7-081-23 Irrigation Handpiece for Bimanual Technique, 23 Ga**

- 2x0.35 mm side ports
- Curved tube with a smooth faced tip
- Standard connector
- 23 Ga/0.9 mm
- Color code: blue for irrigation

**Aspiration Handpiece for Bimanual Technique, 23 Ga**

- 7-0821-23
  - Curved tube with a texturized Capsule polisher tip
  - Standard connector
  - 23 Ga/0.90 mm
  - 1x0.35 mm top port
  - Color code: yellow for aspiration

- 7-0826
  - Curved tube with a smooth faced tip
  - Standard connector
  - 23 Ga/0.90 mm
  - Polished ball tip is safe and atraumatic for the capsular bag
  - 1x0.30 mm top port

**15-170 Microincisional Capsule Polisher Cannula, 23 Ga**

- 23 Ga/0.90 mm
- Tungsten carbide coated tip for delicate and efficient capsule polishing
- 1x0.30 mm top port
- Disc-shaped tip
  - Specially designed for scrubbing all parts of the capsular bag
**Hydro-4 Aspheric IOL**

- Minimal incision size — 1.80 mm
- Power range -5 — +38D
- Refractive index — 1.46

Not for sale in USA

---

**Ophthalmic Viscoelastic Devices**

**SmartVisc and SmartVisc+**

- 1.6% and 3.0% Sodium Hyaluronate
- Cohesive viscoelastic solution

Not for sale in USA

**Supreme**

- 2% Hydroxypropyl Methylcellulose
- Dispensive viscoelastic solution

Not for sale in USA

---

**IOL Injector for Alcon® Monarch “D” Cartridge**

**16-2807**

- Plunger mechanism without ring

**16-2808**

- Plunger mechanism with ring
### Microincisional Cataract Set 1.8

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14-040T Lieberman Temporal Speculum, Rounded &quot;V&quot; Shaped Blades, Titanium</td>
</tr>
<tr>
<td>2</td>
<td>6-10/6-050 Side Port Diamond Knife, 45° Single Edge Blade, Straight Titanium Handle</td>
</tr>
<tr>
<td>3</td>
<td>6-20/6-143 Phaco Diamond Knife, Trapezoid Blade 1.50/1.80 mm, Angled Titanium Handle</td>
</tr>
<tr>
<td>4</td>
<td>4-0395 Capsulorhexis Forceps with Scale, Titanium Handle</td>
</tr>
<tr>
<td>5</td>
<td>7-063 (RHD)/7-064 (LHD) Nagahara Phaco Chopper, Titanium Handle</td>
</tr>
<tr>
<td>6</td>
<td>5-032 Sinskey Lens Manipulating Hook 0.15 mm tip, Angled, Titanium Handle</td>
</tr>
<tr>
<td>7</td>
<td>7-081-23 Irrigation Handpiece for Bimanual Technique, Curved, 23 Ga, Two Ports on Side 0.35 mm, Titanium Handle</td>
</tr>
<tr>
<td>8</td>
<td>7-0821-23 Aspiration Handpiece for Bimanual Technique, Curved, 23 Ga, One Top Port 0.35 mm, Titanium Handle</td>
</tr>
<tr>
<td>9</td>
<td>4-050T Colibri Corneal Forceps, 0.12 mm, 1x2 Teeth, Titanium</td>
</tr>
<tr>
<td>10</td>
<td>4-0600S Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth, 6.00 mm Tying Platform, Stainless Steel</td>
</tr>
<tr>
<td>11</td>
<td>4-17IT McPherson Straight Tying Forceps, 4.00 mm Tying Platforms, Straight, Titanium</td>
</tr>
</tbody>
</table>

---

**18-304**

Sterilizing Tray
Silicone Finger Tip Mat
Single Level
Extra Large
254 x 152 x 19 mm
### MICROINCISIONAL CATARACT SET 2.0

<table>
<thead>
<tr>
<th>No.</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14-040T</td>
<td>Lieberman Temporal Speculum, Rounded &quot;V&quot; Shaped Blades, Titanium</td>
</tr>
<tr>
<td>2</td>
<td>6-10/6-053</td>
<td>Side Port Diamond Knife, Trifacet Blade, Straight Titanium Handle</td>
</tr>
<tr>
<td>3</td>
<td>6-20/6-144</td>
<td>Phaco Diamond Knife, Trapezoid Blade 1.80/2.00 mm, Angled Titanium Handle</td>
</tr>
<tr>
<td>4</td>
<td>4-0312S</td>
<td>Micro coaxial Capsulorhexis Forceps, Ultrathin, 11mm Jaws, Alignment Mechanism, Stainless Steel</td>
</tr>
<tr>
<td>5</td>
<td>7-065</td>
<td>Rosen Phaco Chopper Universal, Round, Titanium Handle</td>
</tr>
<tr>
<td>6</td>
<td>5-030</td>
<td>Kuglen Iris Hook, Angled, &quot;H&quot; Shaped Tip, Titanium Handle</td>
</tr>
<tr>
<td>7</td>
<td>7-081-23</td>
<td>Irrigation Handpiece For Bimanual Technique, Curved, 23 Ga, Two Ports on Side 0.35 mm, Titanium Handle</td>
</tr>
<tr>
<td>8</td>
<td>7-0821-23</td>
<td>Aspiration Handpiece For Bimanual Technique, Curved, 23 Ga, One Top Port 0.35 mm, Titanium Handle</td>
</tr>
<tr>
<td>9</td>
<td>4-0501T</td>
<td>Colibri Corneal Forceps, 0.12 mm 1x2 Teeth, Titanium</td>
</tr>
<tr>
<td>10</td>
<td>4-0600T</td>
<td>Castroviejo Suturing Forceps, 0.12 mm 1x2 Teeth, 6.00 mm Tying Platform, Titanium</td>
</tr>
<tr>
<td>11</td>
<td>4-174T</td>
<td>McPherson Tying Forceps, 8.00 mm Tying Platforms, Angled, Titanium</td>
</tr>
</tbody>
</table>

#### 18-305
Sterilizing Tray
Silicone Finger Tip Mat
Double Level
Extra Large
254 x 152 x 38mm

**DON'T FORGET TO BUY**