Micro Coaxial Cataract Surgery

Where **QUALITY** meets **INNOVATION** to **OPTIMIZE** **OUTCOMES** in sub 2.4mm cataract surgery

*Today's Precision...Tomorrow's Vision*
# TABLE OF CONTENTS

## MICRO COAXIAL CATARACT

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Incision</strong></td>
<td>3-4</td>
</tr>
<tr>
<td>Offers a selection of Micro Coaxial diamond knives and single use Advancut™ knives for your preferred incision size.</td>
<td></td>
</tr>
<tr>
<td><strong>Capsulorrhexis</strong></td>
<td>5-7</td>
</tr>
<tr>
<td>ASICO’s range of Capsulorrhexis forceps; including Utrata style forceps for a variety of incision sizes, cross action Capsulorrhexis forceps, and micro incision 23G Capsulorrhexis forceps. Also showing ASICO’s Capsulorrhexis markers.</td>
<td></td>
</tr>
<tr>
<td><strong>Hydrodissection</strong></td>
<td>8</td>
</tr>
<tr>
<td>Our unique dual port hydrodissection cannulas allow for a complete hydrodissection in one pass to not stretch the incision. Also featuring the 27G Akahoshi and Chang Hydrodissection Cannulas.</td>
<td></td>
</tr>
<tr>
<td><strong>Choppers</strong></td>
<td>9-10</td>
</tr>
<tr>
<td>A variety of choppers for all techniques including a range of vertical choppers, horizontal choppers, and double ended choppers/ manipulators.</td>
<td></td>
</tr>
<tr>
<td><strong>Pre-choppers</strong></td>
<td>11-12</td>
</tr>
<tr>
<td>Reduce phaco time by up to 50%; ASICO’s selection of pre-choppers include models for both soft and hard nuclei.</td>
<td></td>
</tr>
<tr>
<td><strong>Phacoemulsification</strong></td>
<td>12</td>
</tr>
<tr>
<td>Features Harmonyx™ lens removal technology with an eccentric port, delivering optimal phaco efficiency.</td>
<td></td>
</tr>
<tr>
<td><strong>Cortex Management</strong></td>
<td>13-14</td>
</tr>
<tr>
<td>A range of cortex management instruments for bimanual and coaxial techniques: including ball and skinny I/A tips, ASICO’s Cleaning I/A Handpiece, and bimanual I/A hand pieces available in 22G and 23G.</td>
<td></td>
</tr>
<tr>
<td><strong>Lens Implantation</strong></td>
<td>15</td>
</tr>
<tr>
<td>ASICO’s Royale III Injector for single hand implantation with the Alcon Monarch B, C, IIIC, and D cartridge.</td>
<td></td>
</tr>
</tbody>
</table>

www.asico.com
Tip shape allows control of the incision between the size of the base and shoulder. Side cutting edges allow to increase incision size in cases in which the patient has high IOL power (thicker IOL) or need to avoid high IOP in glaucoma.

**Akahoshi Ultra**
Diamond Knife: AE-8190
- 2.3mm at base
- 2.0mm at shoulder

**Akahoshi Nano**
Diamond Knife: AE-8192
- 2.0mm at base
- 1.7mm at shoulder

**Akahoshi Sideport 45°**
Diamond Knife: AE-8131
- 0.6mm at base
- 45° Stab

**Akahoshi Sideport II**
Diamond Knife: AE-8104
- 1.0mm at base
- 0.6mm at shoulder

**UNICAT 10 FACET DIAMOND KNIFE**
The Swiss Army Knife of Ophthalmology

<table>
<thead>
<tr>
<th>Incision</th>
<th>Blade Length Setting</th>
<th>Bent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Groove</td>
<td>0.25, 0.30, 0.38mm</td>
<td>Vertical</td>
</tr>
<tr>
<td>Paracentesis Incision</td>
<td>6.0mm</td>
<td>Horizontal*</td>
</tr>
<tr>
<td>Entry Into Anterior Chamber</td>
<td>6.0mm</td>
<td>Horizontal*</td>
</tr>
</tbody>
</table>

*In the horizontal position, foot plate should be above the diamond

**UNICAT 10 Facet**
Diamond Knife: AE-8133

7 adjustable settings up to 6.0mm
- Single Footplate for Better Visualization
- Side Cutting Edges
- 10 Facet Blade, 1mm Wide at Shoulder
- Flat Tip for Controlled Entry
  - 1.0mm at shoulder

**FOR OUR FULL SELECTION OF DIAMOND KNIVES: CHECK OUR WEBSITE, CATALOG, OR CONTACT US**
INCISIONAL INSTRUMENTS
Single Use Knives

ADVANCUT™ SHARPNESS

Advancut™ Sharpness
27% sharper than BD
45% sharper than Alcon

WHY SQUARE?
The unique geometry of the bevels, on the edge of the blade, help to create the perfect square incision for self sealing and to prevent wound leakage.

Clear Corneal Blade - Double Bevel

<table>
<thead>
<tr>
<th>Width</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2mm</td>
<td>AS-8313</td>
</tr>
<tr>
<td>2.4mm</td>
<td>AS-8315</td>
</tr>
<tr>
<td>2.5mm</td>
<td>AS-8316</td>
</tr>
<tr>
<td>2.65mm</td>
<td>AS-8318</td>
</tr>
<tr>
<td>2.75mm</td>
<td>AS-8320</td>
</tr>
<tr>
<td>2.8mm</td>
<td>AS-8321</td>
</tr>
<tr>
<td>3.0mm</td>
<td>AS-8324</td>
</tr>
</tbody>
</table>

Sideport

<table>
<thead>
<tr>
<th>Width</th>
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</thead>
<tbody>
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<td>1.7mm</td>
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</table>

Sideport 1.0mm

<table>
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<th>Width</th>
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</thead>
<tbody>
<tr>
<td>1.0mm</td>
<td>AS-8421</td>
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</table>

Advancut™ Safety Blades

<table>
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<tr>
<th>Width</th>
<th>Code</th>
</tr>
</thead>
<tbody>
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<tr>
<td>2.5mm</td>
<td>AS-8316ASB</td>
</tr>
<tr>
<td>2.65mm</td>
<td>AS-8318ASB</td>
</tr>
<tr>
<td>2.8mm</td>
<td>AS-8321ASB</td>
</tr>
<tr>
<td>3.0mm</td>
<td>AS-8324ASB</td>
</tr>
</tbody>
</table>

www.asico.com
CAPSULORRHESIS INSTRUMENTS

Capsulorrhexis Forceps

ASICO’S UTRATA STYLE CAPSULORRHESIS FORCEP SELECTION

*Designed to provide a proper sized Capsulorrhesis without increasing your incision size*

6 Laser Lines on the Jaws serve as a guide to Capsulorrhesis

6 Tongue and groove mechanism prevents jaw overlap

5 Harp tip acts as a cystotome to initiate Capsulorrhesis

Available Utrata-Style Models:

YOUR INCISION SIZE FOR YOUR PROCEDURE

<table>
<thead>
<tr>
<th>Utrata-Style Models</th>
<th>Your Style</th>
<th>Round Handle</th>
<th>Flat Handle</th>
<th>Vaulted Jaws</th>
<th>Straight Jaws</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin Kraff– Utrata</td>
<td>AE-4503RH</td>
<td>AE-4504RH</td>
<td>AE-4344V</td>
<td>AE-4344VR</td>
<td></td>
</tr>
<tr>
<td>Akahoshi</td>
<td>AE-4344R</td>
<td>AE-4344L</td>
<td>AE-4344</td>
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<td></td>
</tr>
<tr>
<td>Akahoshi II</td>
<td>AE-4347</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
CAPSULORRHESIS INSTRUMENTS

Capsulorrhexis Forceps

CAPSULORRHESIS FORCEPS/MARKERS

Akahoshi Cross Action Capsulorrhexis Forceps:
AE-4345
• Works within a 2.2mm incision
• Cross action sits closed until handle is squeezed
• Sharp tips act as cystotome

Fujita Capsulorrhexis Forceps:
AE-4403
• Works within a 2.2mm incision
• Fenestrated handle reduces overall weight of forceps

CAPSULORRHESIS MARKERS

Double Ended Markers Mark Outside of Cornea to Serve as CCC Guide

ASICO Double Ended CCC Marker:
AE-2828
• 5mm diameter on one side; 5.5mm opposite

Hata Double Ended CCC Marker:
AE-2829
• 5.6mm diameter on one side; 5.75mm opposite

www.asico.com
CAPSULORRHEXIS INSTRUMENTS

Capsulorrhexis Forceps

ASICO’S MICRO INCISION CAPSULORRHEXIS FORCEPS SELECTION

Ikeda Micro Capsulorrhexis Forceps:

AE-4385 - 90° Angled Tips
Overall Length: 139mm
Short Handle Version Also Available (AE-4385S)

Kawai Micro Capsulorrhexis Forceps:

AE-4388 - 45° Angled Tips with recessed jaws
Overall Length: 139mm
25G Version Also Available (AE-4404)

Fine Ikeda Micro Capsulorrhexis Forceps:

AE-4389S - 45° Angled Tips
Overall Length: 128mm

Kawai Micro Capsulorrhexis Forceps:

AE-4388 - 45° Angled Tips with recessed jaws
Overall Length: 139mm
25G Version Also Available (AE-4404)

Ikeda-Nozomi Micro Capsulorrhexis Forceps:

AE-4402 - 45° Angled Tips
Overall Length: 140mm
Short Handle Version Also Available (AE-4402S)

WHY MICRO INCISION CCC?

• 23G FITS WITHIN 0.6MM INCISION!
• Jaws Open and Close within the anterior chamber to REDUCE VISCOELASTIC loss and to maintain the anterior chamber

23G Micro Capsulorrhexis Forceps: Keeping the Incision Size Small

Sandblasted for better grip in the presence of Viscoelastic

Ikeda Capsulorrhexis Forceps

23G S harp tip acts as a cystotome to initiate Capsulorrhexis

Designed by Dr. Koichiro Ikeda
Tokyo, Japan

Continuous Curvilinear Capsulorrhexis Forceps 23G
HYDRODISSECTION INSTRUMENTS

Hydrodissection Cannulas

DUAL PORT HYDRODISSECTION CANNULAS

The only hydrodissection cannulas on the market that can perform a complete hydrodissection in one pass!

The Result: NO INCISION STRETCHING!

and blasted tips to confirm complete hydrodissection

AE-7642
INAMURA 23G CANNULA 45 DEGREE

*Also available in 25G, 30° Flow: AE-7653

45° Flow

AE-7643
MIYOSHI 22G CANNULA 120 DEGREE

*Also available in 25G: AE-7649

120° Flow

Single Port Cannula
Need to swivel for complete hydrodissection

Dual Port Cannula
Complete Flow of BSS

Chang Hydrodissection Cannula 27G:
AE-7638

• 90° bend at tip facilitates placement beneath sub-incisional Capsulorrhexis edge to preferentially loosen the subincisional cortex.

*Also available in single use version: AS-7638

Akahoshi Hydrodissection Cannula 27G:
AE-7636

• Tapered tip can easily be inserted beneath capsulorrhexis edge

• Tapered design manages intraocular pressure and keeps the incision sealed

*Also available in single use version: AS-7636

www.asico.com
# Horizontal Choppers

**The History of Phaco: Dr. Nagahara’s Concept Becomes the World’s First Phaco Chopper**

### Nagahara Chopper:

- **AE-2515 (90°), AE-2517 (60°), AE-2517L (60°, Left-hand)**
- 60° sharp edge cuts in the same direction as the phaco handpiece
- 90° sharp edge cuts toward the side port
- AE-2517 is for a right handed surgeon for use in the left hand;
  AE-2517L is for a left handed surgeon for use in the right hand

### Koch-Minami Chopper:

- **AE-2528**
  - Smooth, rounded tip will not damage posterior capsule
  - Most versatile instrument acts as a divider, dissector, manipulator, and protector

### Crandall-Nagahara Chopper:

- **AE-2576**
  - 60 degree inside cutting edge
  - Unique 110 degree angled tip that allows better visibility during phacoemulsification

### Crandall Chopper:

- **AE-2579**
  - The olive shaped tip (ball) allows for ready dissection between epinucleus and heminucleus, to bring heminucleus towards phaco handpiece
  - Tip is angled at 130 degrees allowing better visibility during phacoemulsification

### Rosen Phaco Splitter:

- **AE-2578**
  - Features blunt tip with wedge tip inferior edge

### Nagahara-Ahn Small Pupil Chopper:

- **AE-2544**
  - Modified Nagahara Chopper with shorter, 1.25mm inner cutting-edge for small pupils or floppy iris syndrome
  - Notch on the blunt side used to retract pupil

---

**ASICO PHACO CHOPPER HISTORY**

In 1994, Dr. Kunihiro Nagahara had an idea for an instrument to increase the efficiency of the newly developed phacoemulsification procedure.

Unable to explain this radical new concept, he bent a wire hanger in a unique direction to explain what he was looking for, and mailed the hanger over 6,000 miles, from Japan to Westmont, IL, where ASICO LLC received the “prototype”.

ASICO President Ravi Nallakrishnan worked with his engineering team to turn this concept into a reality, creating the world’s first phaco chopper.
CHOPPING INSTRUMENTS
Phaco Choppers

VERTICAL CHOPPERS

Nagahara Karate Chopper:
AE-2529
• Designed for nuclei grades 3+
• Spear tip with internal cutting edge easily cracks and divides the nucleus into quadrants prior to phacoemulsification

Nagahara Tomahawk Chopper:
AE-2533
• Broad tip facilitates efficient chopping prior to and during phacoemulsification

Lane Quick Chopper:
AE-2537
• Broad “AXE” tip easily chops both hard and soft nuclei in a controlled manner
• Thin sides can act as horizontal chopper after initial penetration

DOUBLE-ENDED CHOPPERS

Lieberman Microfinger:
AE-2518
• “Microfinger” stabilizes, positions, retracts, and lifts the entire lens away from the posterior capsule
• Iris spatula can be used to manipulate throughout surgery

Nagahara Chopper & Koch Spatula:
AE-2520
• 60° Nagahara on one end to chop towards phaco handpiece
• Koch spatula pushes, lifts, rotates, and dissects

Friedman Chopper & Koch Spatula:
AE-2524
• Double-cutting surface on chopper for efficient chopping
• Koch spatula pushes, lifts, rotates, and dissects

Lubeck Chopper & Sustainer:
AE-2546
• 60° Nagahara on one end to chop towards phaco handpiece
• Akahoshi sustainer on the other end to rotate and manipulate the lens

Chang Combo Chopper:
AE-2573
• Sharp vertical tip ideal for incising brunescent nuclei
• Modified “Microfinger” for chopping
PRE-CHOP INSTRUMENTS
Pre-Choppers

THE WORLD’S FIRST PRE-CHOPPER

‘Dr. Akahoshi first introduced the Pre-chop technique in 1992 and worked with ASICO to perfect his design’

**Akahoshi Combo II Pre-chopper:**
*AE-4190*
- Ideal for soft nuclei grades 1&2
- Fits within a 2.0mm incision
- Sharp tip penetrates nucleus; while blunt edge allows for safe separation near posterior capsule

**Akahoshi Combo III Pre-chopper:**
*AE-4191*
- Ideal for soft to medium nuclei grades 1 to 3
- Fits within a 2.0mm incision
- It can be used like AE-4190 for soft cataract and AE-4192 for medium cataract

**Akahoshi Universal Pre-chopper:**
*AE-4192*
- Ideal for medium and hard nuclei grades 3 to 5
- Fits within a 2.0mm incision
- Even a dense cataract can be prechopped safely by providing counter force with a Nucleus Sustainer AE-2530

**Inamura Soft Nucleus Pre-chopper:**
*AE-4189*
- Ideal for soft nuclei grades 1&2
- 5mm long blade with rounded off tip allows for easy division of the nucleus.

**SUSTAINERS**

**VERTICAL PRE-CHOPPING TECHNIQUE (USE AE-4190, AE-4189)**

**COUNTER PRE-CHOPPING TECHNIQUE (USE AE-4192 AND A SUSTAINER)**

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**COUNTER PRE-CHOPPING TECHNIQUE (USE AE-4192 AND A SUSTAINER)**

Inamura Soft Nucleus Pre-chopper
HARMONYX™ CDE and Aspiration Study on OZil®

Compared with the conventional round phaco tip, HARMONYX™ is superior in CDE, aspiration time and BSS consumption.

The eccentric tip of HARMONYX™ delivers unequalled lens removal performance with any phaco system. Longitudinal systems are instantly transformed into oscilliary technology, by adding up and down movement that reduces CDE, ASP time, and BSS use. In case of existing oscillatory systems, additional cutting area and enhanced motion provides a substantial performance improvement.

The HARMONYX™ Transformational Technology also has no sharp cutting adges and is polished to ensure a safer procedure.
CLEANING I/A HANDPIECE: AE7-0029

 Completely disassembles to clean inner lumen and thoroughly remove any potentially toxic residue (e.g.; visco-elastics)

TESTED AND VALIDATED TO REDUCE INSTANCES OF TASS

“ASICO offers the Most Comprehensive Report on TASS Management to Date”

Nick Mamalis, MD

Compatibility
Compatible with all popular I/A tips and phaco consoles

Universal threading will fit on any threaded I/A handpiece

<table>
<thead>
<tr>
<th>Your Style</th>
<th>Straight</th>
<th>Bent</th>
<th>Curved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skinny I/A Tips</td>
<td>AE7-3050</td>
<td>AE7-3051</td>
<td>AE7-3052</td>
</tr>
<tr>
<td>Ball I/A Tips</td>
<td>AE7-3060</td>
<td>AE7-3061</td>
<td>AE7-3062</td>
</tr>
</tbody>
</table>

Skinny I/A Benefits:
42% more irrigation flow and no stretch of the incision

0.3mm x 0.2mm oval port allows for maximum aspiration efficiency

TWICE THE ASPIRATING POWER

0.7mm diameter compared to the traditional 1.0mm, allows the maximum irrigation flow which results in maximum cortical cleaning efficiency and a stable and deep anterior chamber

Ball I/A Benefits:
Safe and complete vacuum of the posterior capsule

45° Port allows complete cortical cleaning by rotation, rather than swivel motion resulting less mechanical stress on the incision

The smooth surface of the ball head allows safe and complete capsular vacuum and polishing.

The Curved tip can reach any part of the capsular bag quite easily.

42% more irrigation flow and no stretch of the incision

Innovation for Better Outcomes
I/A HANDPIECES 22G/23G

22 Gauge

Irrigation:
AE7-0110
• Laser welded tip gives better durability during sterilization
• Ergonomic handle for comfort
• Spatulated tip allows easy access
• Front opening allows maximum flow for better AC maintenance

Aspiration:
AE7-0120
• Laser welded tip gives better durability during sterilization
• Ergonomic handle for comfort
• Curved with sandblasted capsule polisher
• 0.3mm port

23 Gauge

Irrigation:
AE7-0207 (Straight) AE7-0208 (Curved)
• Laser welded tip gives better durability during sterilization
• Ergonomic handle for comfort
• Dual oval ports 0.3mm x 0.4mm

Aspiration:
AE7-0217 (Curved) AE7-0218 (Curved w/Capsule Polisher)
• Laser welded tip gives better durability during sterilization
• Ergonomic handle for comfort
• 0.3mm port
• Sandblasted capsule polisher
LENS IMPLANTATION INSTRUMENTS

Royale III Injector: AE-9036SP

Also available in the version which can be disassembled AE9063CSP

Pearl to Perfection

For use with the Monarch™ B, C, and D Cartridge

VERSATILITY
Synergy

ERGONOMIC
Ease of Use

VISIBILITY
Confident

COUNTER TRACTION
Technique of Miracle

Gold tip provides visibility throughout the cartridge

Fully compatible with the Monarch™ B, C, and D Cartridge

Single hand plunging mechanism allows “Counter Traction Technique”

Gold tip provides visibility through the cartridge

The counter force to the D cartridge port provided by the Nucleus Sustainer in the sideport incision allows 6.0mm optic IOL implantation through a 1.8mm incision.

Facilitating Small Incisions Implant Possible For All Surgeons

Disposable Injectors

Disposable Injectors:
AS-9300-1620: 2.4mm incision
AS-9300-2420: 2.7mm incision

Monarch™ is Alcon Laboratory/NOVARTIS Registered Trademarks

Innovation for Better Outcomes