Micro Coaxial Cataract Surgery

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

*Today's Precision...Tomorrow's Vision*
<table>
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<tr>
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<th>Description</th>
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<tr>
<td>Incision</td>
<td>3-4</td>
<td>Offers a selection of Micro Coaxial diamond knives and single use Advancut™ knives for your preferred incision size.</td>
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<tr>
<td>Capsulorrhexis</td>
<td>5-7</td>
<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>
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<td>Hydrodissection</td>
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<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>
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<td>11-12</td>
<td>Reduce phaco time by up to 50%; ASICO’s selection of pre-choppers include models for both soft and hard nuclei.</td>
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<td>Features Harmony™ lens removal technology with an eccentric port, delivering optimal phaco efficiency.</td>
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<td>13-14</td>
<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>
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<tr>
<td>Lens Implantation</td>
<td>15</td>
<td>ASICO’s Royale III Injector for single hand implantation with the Alcon Monarch B, C, IIIC, and D cartridge.</td>
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</tbody>
</table>
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

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

<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

FOR OUR FULL SELECTION OF DIAMOND KNIVES: CHECK OUR WEBSITE, CATALOG, OR CONTACT US
**Advancut™ Sharpness**

27% sharper than BD
45% sharper than Alcon

*Testing at ASICO laboratory*

**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 Sharpness Squared**

**Advancut™ Safety Blades**

<table>
<thead>
<tr>
<th>Sideport</th>
<th>Advancut™ Safety Blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.7mm</td>
<td>AS-8313ASB</td>
</tr>
<tr>
<td>Stab 15°</td>
<td>AS-8316ASB</td>
</tr>
<tr>
<td>15°</td>
<td>AS-8318ASB</td>
</tr>
<tr>
<td>AS-8210</td>
<td>AS-8321ASB</td>
</tr>
<tr>
<td></td>
<td>AS-8324ASB</td>
</tr>
</tbody>
</table>

**Clear Corneal Blade - Double Bevel**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</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>

Photo courtesy of David M. Lubeck, MD
Homewood, IL
**CAPSULORRHESIS INSTRUMENTS**

**Capsulorrhexis Forceps**

**ASICO’S UTRATA STYLE CAPSULORRHESIS FORCEP SELECTION**

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

1. Tongue and groove mechanism prevents jaw overlap
2. Laser Lines on the Jaws serve as a guide to Capsulorrhexis
3. Harp tip acts as a cystotome to initiate Capsulorrhexis

**AVAILABLE UTRATA-STYLE MODELS:**

**YOUR INCISION SIZE FOR YOUR PROCEDURE**

<table>
<thead>
<tr>
<th>Your Style</th>
<th>Round Handle</th>
<th>Flat Handle</th>
<th>Vaulted Jaws</th>
<th>(2.8)mm+</th>
<th>(2.2)mm+</th>
<th>(1.8)mm+</th>
<th>(1.6)mm+</th>
<th>(2.2)mm+</th>
<th>(1.8)mm+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akahoshi II</td>
<td>AE-4347</td>
<td>AE-4347</td>
<td>AE-4347</td>
<td>AE-4347</td>
<td>AE-4347</td>
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<td>AE-4347</td>
</tr>
</tbody>
</table>
**CAPSULORRHESIS INSTRUMENTS**

**Capsulorrhexis Forceps**

**CAPSULORRHESIS FORCEPS/MARKERS**

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**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

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**Fujita Capsulorrhexis Forceps:**  
*AE-4403*

- Works within a 2.2mm incision
- Fenestrated handle reduces overall weight of forceps

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**CAPSULORRHESIS MARKERS**

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

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**ASICO Double Ended CCC Marker:**  
*AE-2828*

- 5mm diameter on one side; 5.5mm opposite

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**Hata Double Ended CCC Marker:**  
*AE-2829*

- 5.6mm diameter on one side; 5.75mm opposite

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www.asico.com
Innovation for Better Outcomes

**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)

- **Ikeda-Nozomi Micro Capsulorrhexis Forceps:**
  - AE-4402 - 45° Angled Tips
  - Overall Length: 140mm
  - Short Handle Version Also Available (AE-4402S)

- **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

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**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

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**CONTINUOUS CURVILINEAR CAPSULORRHEXIS FORCEPS 23G**

- Sandblasted for better grip in the presence of Viscoelastic
- Harp tip acts as a cystotome to initiate Capsulorrhexis

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**Designed by Dr. Koichiro Ikeda
Tokyo, Japan**

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**23G Micro Capsulorrhexis Forceps:**

*Keeping the Incision Size Small*

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**Kawai Micro Capsulorrhexis Forceps**

**Ikeda-Nozomi Micro Capsulorrhexis Forceps:**

**Fine Ikeda Micro Capsulorrhexis Forceps:**
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!

AE-7642
INAMURA 23G CANNULA 45 DEGREE
*Also available in 25G, 30° Flow: AE-7653

AE-7643
MIYOSHI 22G CANNULA 120 DEGREE
*Also available in 25G: AE-7649

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
**Horizontally 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

**Crandall Chopper:**
AE-2579
- The olive shaped tip (ball) allows for ready dissection between epinucleus and heminucleus, to bring heminucleus toward 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

**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

**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

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

Nagahara Chopper & Koch Spatula: AE-2520
- 60° Nagahara on one end to chop towards phaco handpiece
- 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
THE WORLD’S FIRST PRE-CHOPPER

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

**Akhoshi 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

**Akhoshi 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

**Akhoshi 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)**

Innovation for Better Outcomes
PHACOEMULSIFICATION INSTRUMENTS

HARMONYX™ TRANSFORMING LENS REMOVAL

*Transforming any machine, any technique, any lens*

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

Designed by Dr. Takayuki Akahoshi
Tokyo, Japan

Universal threading will fit on any threaded I/A handpiece

Catalog Number Guide

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

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

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

TWICE THE ASPIRATING POWER
0.3mm x 0.2mm oval port allows for maximum aspiration efficiency

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
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

Design by Dr. Takayuki Akahoshi
Tokyo, Japan

VERSATILITY
Synergy

ERGONOMIC
Ease of Use

VISIBILITY
Confident

COUNTER TRACTION
Technique of Miracle

Facilitating Small Incisions Implant Possible For All Surgeons

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.

Disposable Injectors

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

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